Cypress College

North Orange Community College District

Est. 1966

Baseball Field Improvements

SHEET INDEX

ARCHITECTURAL (9 Sheets)

G000 SHEET INDEX, SYMBOLS, ABBREVIATIONS, NOTES, CAMPUS MAP
F001 SITE FIRE PROTECTION PLAN
D001 SITE DEMOLITION PLAN
A001 SITE RENOVATION PLAN
A002 ENLARGED PLANS, GATE SCHEDULE AND DETAILS
A003 SURFACE DETAILS
A004 SURFACE STRIPING AND SIGNAGE DETAILS
A005 SITE CHAINLINK DETAILS
A101 EXISTING TOILET BUILDING ACCESSIBILITY FLOOR PLAN

* **STRUCTURAL FOUNDATION DESIGN FOR MODULAR** (7 Sheets)

F-1 COVER SHEET, DESIGN CODES, APPLICABLE DATA, LEGENDS AND SYMBOLS, GENERAL NOTES
F-2 STRUCTURAL NOTES
F-3 STRUCTURAL NOTES
F-4 FOUNDATION PLAN FOR 40'X60' (SINGLE STORY)
F-5 CONCRETE FOUNDATION DETAILS
F-6 INTERIOR FOOTING / PAD DETAILS
F-7 EMBED AND WELD DETAILS

* **CIVIL** (8 Sheets)

C200 DEMOLITION PLAN
C300 GRADING AND DRAINAGE PLAN
C301 GRADING AND DRAINAGE PLAN
C302 GRADING AND DRAINAGE PLAN
C400 UTILITY PLAN
C401 UTILITY PLAN
C500 EROSION CONTROL PLAN
C600 CIVIL DETAILS

* **ELECTRICAL** (8 Sheets)

E-0.1 SYMBOLS LIST, NOTES AND DETAILS
E-0.2 FIXTURE SCHEDULE, SINGLE LINE DIAGRAM, DETAILS
E-0.3 DETAILS
E-0.4 FIRE ALARM NOTES, SCHEDULES, CALCULATIONS & DETAILS
E-0.5 ELECTRICAL POWER DISTRIBUTION TITLE 24
E-1.1 OVERALL SITE ELECTRICAL PLAN
E-1.2 ENLARGED SITE ELECTRICAL PLAN
E-2.1 CLUBHOUSE BUILDING ELECTRICAL PLANS

* **LANDSCAPE** (5 Sheets)

L1 IRRIGATION PLAN
L2 IRRIGATION LEGEND, NOTES, CALCS AND DETAILS
L3 IRRIGATION DETAILS
L4 PLANTING PLAN, LEGEND & NOTES & DETAIL
L5 IRRIGATION & PLANTING SPECIFICATIONS

* **PC MODULAR BUILDING A#04-117866** (43 Sheets) SEPARATE PACKAGE

A0.0 (SEE DRAWING INDEX)

(80 Sheets Total)

GENERAL NOTES

1. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING, CONSTRUCTION OR FINISHING SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OR IN THE ABSENCE OF SAME SHALL BE TREATED ACCORDING TO STANDARD PROCEDURES AS APPROVED BY THE ARCHITECT OR ACCORDING TO MANUFACTURERS STANDARDS.
2. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT SITE.
3. MINOR ITEMS USED IN THE CONSTRUCTION OF THIS PROJECT MAY BE INDICATED ON THE DRAWINGS BUT NOT NECESSARILY IN THE SPECIFICATIONS. SUCH MINOR ITEMS ARE GENERALLY REFERENCED TO A MANUFACTURER INCLUDING A MODEL NUMBER, WHERE APPLICABLE. HOWEVER, ALL SUCH MINOR ITEMS SHALL BE GOVERNED BY ALL ASPECTS OF THE SPECIFICATIONS AS IF WRITTEN THEREIN.
4. THE CONTRACTOR SHALL NOT DISTURB THE OPERATION OF THE EXISTING PREMISES INCLUDING ACCESS THERETO; PROVIDE ALL REQUIRED CONSTRUCTION FENCING, BARRICADES, WARNING SIGNS AND LIGHTS; PROTECT AGAINST ANY POTENTIAL FLOOD HAZARDS OR AIR POLLUTION AND SHALL EXERCISE ANY AND ALL REQUIRED SAFETY MEASURES TO PROTECT AND RENDER SAFE THE PREMISES TO ALL OCCUPANTS.
5. CONTRACTOR SHALL ALSO ABIDE BY CHAPTER 33 OF THE CALIFORNIA BUILDING CODE: PROTECTION OF PEDESTRIANS DURING CONSTRUCTION OR DEMOLITION.
6. WHERE EXISTING FEATURES HAVE TO BE DISTURBED TO EXECUTE THE WORK SHOWN ON ANY OF THE DRAWINGS OR CALLED FOR IN SPECIFICATIONS, SUCH FEATURES MUST BE REPLACED TO MATCH EXISTING CONDITIONS, SURFACES AND FINISHES. FINISHES THAT CANNOT BE REPLACED IN THIS MANNER MUST BE REPLACED WITH NEW MATERIALS MATCHING EXISTING AS CLOSE AS POSSIBLE.
7. WHERE EXECUTING THE WORK SHOWN ON ANY OF THESE DRAWINGS OR CALLED FOR IN SPECIFICATIONS REQUIRES PENETRATION OF EXTERIOR WALLS OR ROOFS, SUCH WORK SHALL BE FLASHED, SEALED OR OTHERWISE MADE TIGHT AGAINST THE ENTRANCE OF AIR OR WATER.
8. WHILE DRAWINGS INDICATE ITEMS TO BE REMOVED, REPLACED OR REWORKED, THEY MAY NOT NECESSARILY INDICATE ALL ASPECTS OF WORK REQUIRED IN THE REMOVAL, REPLACEMENT OR REWORK OF SUCH ITEMS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ALL WORK NECESSARY TO COMPLETE AND FINISH ALL AREAS IN AND AROUND SUCH ITEMS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE DONE BY HIM TO THE DISTRICT'S PREMISES OR OTHERWISE, AND SHALL REPAIR SAME AT HIS OWN EXPENSE.
10. WHERE TRENCHING REQUIRES REMOVAL OF CONCRETE OR A.C. PAVING, SUCH PAVING MUST BE REMOVED BY SAW CUTTING AND REPLACED AFTER WORK IS COMPLETE - TO MATCH EXISTING.
11. CONTRACTOR SHALL CAREFULLY REVIEW ALL DRAWINGS TO ASCERTAIN ALL REQUIRED WORK ARISING OUT OF WORK DONE BY PLUMBING AND ELECTRICAL OR OTHER SUB-CONTRACTORS.
12. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (C.C.D.) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR, CBC 2016
13. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS IS NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT AND THE DSA FIELD ENGINEER IF DETAILS DO NOT SHOW OR CONFORM TO THE APPROVED DRAWINGS.
14. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION WHICH HAS BEEN CONCEALED AND IS NOT COVERED BY THE CONSTRUCTION DOCUMENTS, WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (C.C.D.) OR SEPARATE SET OF PLANS/SPECIFICATIONS DETAILING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THAT WORK
15. GRADING PLANS, DRAINAGE, IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY W/ ALL LOCAL ORDINANCES
16. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). TITLE 24 PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
17. CONTRACTOR SHALL MAINTAIN EXISTING PLANTING WITHIN THE JOB SITE FENCE ENCLOSURE DURING DEMOLITION AND CONSTRUCTION PHASES. EXISTING IRRIGATION SYSTEMS SHALL EITHER REMAIN OPERATIONAL FOR CONTRACTOR'S USE OR CONTRACTOR SHALL HAND-WATER EXISTING PLANT MATERIALS AT LEAST ONCE A WEEK. TURF SHALL BE MOWED AT LEAST ONCE EVERY TWO WEEKS.
18. REPAIR EXISTING IRRIGATION SYSTEMS DAMAGED DURING THE EXECUTION OF THIS CONTRACT. REPLACE PLANT MATERIALS DAMAGED, DECLINING IN HEALTH, SUFFERING DIEBACK, THAT HAVE LOST FORM AND SIZE, OR THAT DIE DURING THE CONSTRUCTION PERIOD, WITH THE SAME SPECIE OF EQUAL OR GREATER SIZE.
19. SKC COMPANY TO VERIFY ALL SIGNAGE DESIGN WITH DISTRICTS STANDARD PRIOR TO FABRICATION. ALL SIGNAGE MUST COMPLY WITH ATTACHED DSA APPROVED PC A#04-117866 NOTED CODE REQUIREMENTS.

TYPICAL SYMBOLS

REVISION TAG — △1

KEYNOTE TAG — BN000

SPOT ELEVATION — 10' - 0"

CALLOUT DESIGNATION — 1 / A101 — CALLOUT NUMBER — SHEET NUMBER

DETAIL REFERENCE — 1 / A101 — DETAIL NUMBER — SHEET NUMBER

SCOPE OF WORK

THIS PROJECT CONSISTS OF BUT NOT LIMITED TO:

SITE WORK:

RENOVATE APPROXIMATELY 54,000 S.F. OF LANDSCAPE AND HARDSCAPE AREAS IN THE BASEBALL PRACTICE FIELD AREAS. UNDER A SEPARATE CONTRACT, THE MODULAR BUILDING MANUFACTURER WILL BE PROVIDING THE STRUCTURE AND ALL DESIGN ITEMS WITHIN PER THE ATTACHED PC PLANS. THE GENERAL CONTRACTOR IS TO BID THE MODULAR BUILDING FOUNDATION SYSTEM, FIRE ALARM AND UTILITY CONNECTIONS ONLY.

OTHER WORK SHALL INCLUDE:

1. REMOVE EXISTING CHAINLINK FENCE AND GATES
2. PROVIDE NEW ACCESSIBLE PARKING SIGNAGE
3. PROVIDE NEW ACCESSIBLE PARKING
4. PROVIDE NEW EXTERIOR POST MOUNTED LIGHT FIXTURES
5. PROVIDE SITE DRAINAGE
6. INSTALL NEW ACCESSIBLE CONCRETE WALKWAY
7. INSTALL NEW ACCESSIBLE CURB RAMPS
8. PROVIDE ACCESSIBILITY MODIFICATIONS TO AN EXISTING MODULAR TOILET BUILDING

STATEMENT OF GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE

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

(APPLICATION NO. 04-117630 FILE NO. 30-C1)

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET INDICATED WITH AN '*'

☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THIS STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344"
OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [b])

I FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET ☐ THIS DRAWING OR PAGE

☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND	☐ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.	☐ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.
[signature] 04-02-19 SIGNATURE DATE	SIGNATURE DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE	ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
Paul D. Westberg PRINT NAME	PRINT NAME
C11045 SEPTEMBER, 2019 LICENSE NUMBER EXPIRATION DATE	LICENSE NUMBER EXPIRATION DATE

DSA 1R A-18

APPLICABLE CODES

CHAPTER 4, PART 1, TITLE 24, C.C.R., ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY)

1. A COPY OF PARTS 1 AND 5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1 TITLE 24
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T AND I SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA WILL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. PROJECT INSPECTOR CLASS 3 WILL BE APPROVED BY DSA. INSPECTION WILL BE IN ACCORDANCE WITH SECTION 4-333(B). THE DUTY OF THE INSPECTOR WILL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
7. SUPERVISION OF THE CONSTRUCTION BY DSA WILL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS WILL SUBMIT VERIFIED REPORTS (FORM DSA-6 BY INSPECTORS AND DSA-6A/E BY ARCHITECTS AND ENGINEERS) IN ACCORDANCE WITH SECTION 4-336 AND 4-334, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER WILL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR WILL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.

APPLICABLE CODES AS OF JANUARY 1, 2017

PART 1 2016 BUILDING STANDARDS ADMINISTRATIVE CODE. TITLE 24, C.C.R.
PART 2 2016 CALIFORNIA BUILDING CODE (C.B.C.), TITLE 24, C.C.R. (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMMENDMENTS)
PART 3 2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), 2001, TITLE 24, C.C.R. (2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION AGENCY, NFPA)
PART 4 2016 CALIFORNIA MECHANICAL CODE (C.M.C.), TITLE 24, C.C.R. (2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5 2016 CALIFORNIA PLUMBING CODE (C.P.C.), TITLE 24, C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6 2016 CALIFORNIA ENERGY CODE (C.P.C.), TITLE 24, C.C.R.
PART 9 2016 CALIFORNIA FIRE CODE (C.F.C.), TITLE 24, C.C.R. (2015 INTERNATIONAL FIRE CODE OF THE IN'L CODE COUNCIL)
PART 10 2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24, C.C.R. (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH AMMENDMENTS)
PART 11 2016 CALIFORNIA GREEN BUILDING STANARDS CODE, TITLE 24, C.C.R.
PART 12 2016 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24, C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCE STANDARDS CHAPTER 35
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) - 2016 EDITION
NFPA 14 STANDPIPE SYSTEMS - 2013 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS - 2013 EDITION
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS - 2013 EDITION
NFPA 20 STATIONARY PUMPS - 2016 EDITION
NFPA 24 PRIVATE FIRE SERVICE MAINS - 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR 'VISUAL DEVICES') - 2016 EDITION
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES - 2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS - 2015 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS - 2015 EDITION

CONTACT INFORMATION

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CLUBHOUSE BUILDING
SKC COMPANY
13617 12TH STREET, UNIT B
CHINO, CA 91710
909 740 3120
CONTACT: SEAN KHAN

LANDSCAPE ARCHITECTURE
NUVIS LANDSCAPE ARCHITECTURE AND PLANNING
3151 AIRWAY AVENUE SUITE J3
COSTA MESA, CA 92626
(714) 221-9511
CONTACT: ROBERT STONE

STRUCTURAL
MRH STRUCTURAL ENGINEERS, INC.
1411 N. BATAVIA ST #121
ORANGE, CA 92867
714 633 6302
CONTACT: MOHAMMAD HARIRI

CIVIL ENGINEERING
KIMLEY-HORN
765 THE CITY DRIVE SOUTH, SUITE 200
ORANGE, CA 92868
(714) 939-1030
CONTACT: DAVID LUZURIAGA

ELECTRICAL ENGINEERING
FBA ENGINEERING
150 PAULARINO AVENUE, SUITE A120
COSTA MESA, CA 92626
949 852 9995
CONTACT: ROB ROGERS

VICINITY MAP

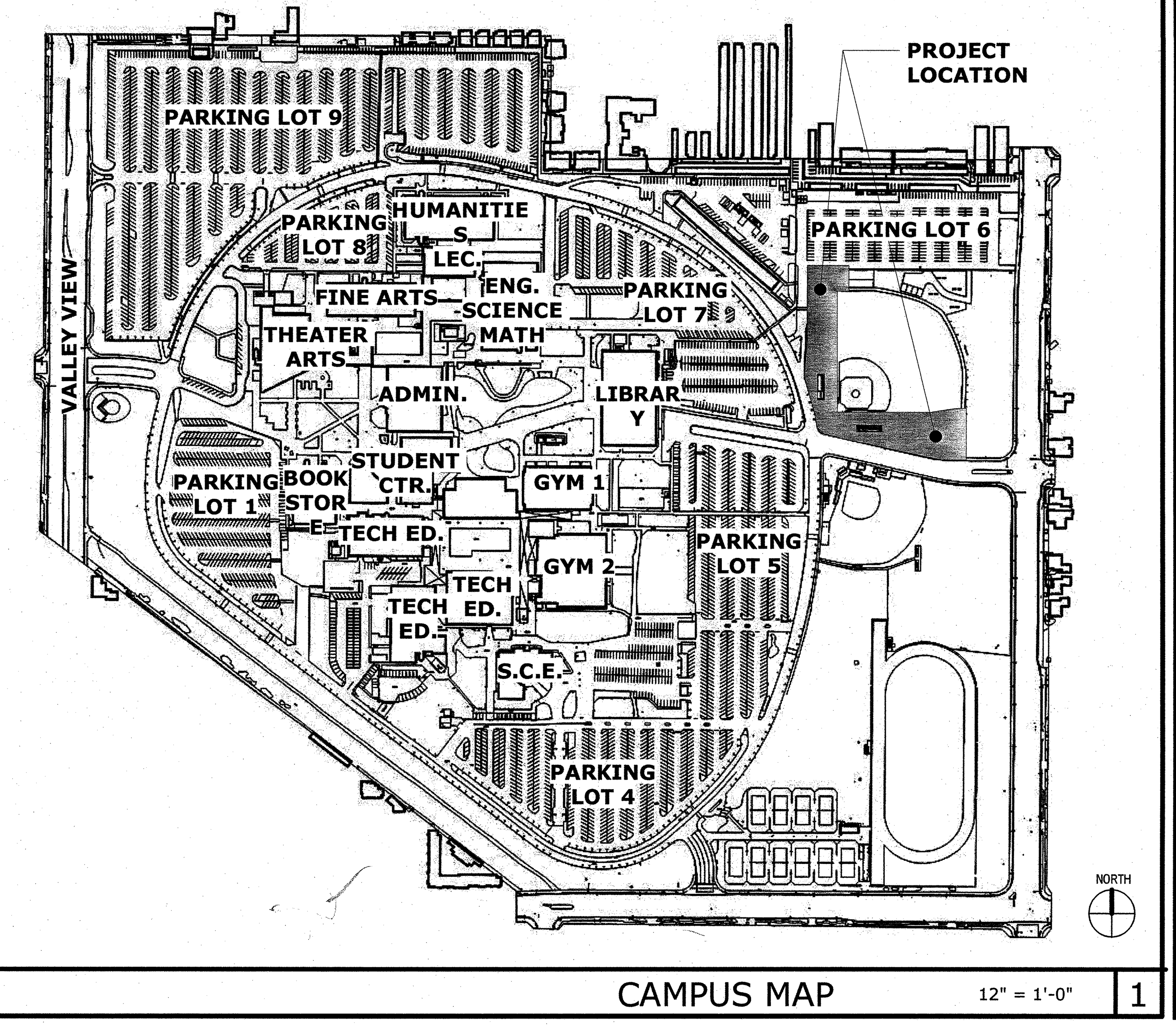
ABBREVIATIONS

℄	CENTERLINE
&	AND
@	AT OR ABOUT
'	FOOT
"	INCH OR REPEAT
#	POUND OR NUMBER
+/-	VERIFY IN FIELD
A.B.	ANCHOR BOLT
A.C.	ASPHALTIC CONCRETE
ACC.	ACCESSIBLE
ADJ.	ADJUSTABLE / ADJACENT
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
B.M.	BENCHMARK
BOT.	BOTTOM
B/S	BOTH SIDES
B.W.	BOTH WAYS
C.B.	CATCH BASIN
CLR.	CLEAR
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CSK.	COUNTERSUNK
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPENSER / DISPOSAL
DN.	DOWN
DR.	DOOR
D.S.P.	DRY STANDPIPE
DWG.	DRAWING
(E)	EXISTING
E.	EAST / ENAMEL
EA.	EACH
EE	EACH END
E.G.	EXISTING GRADE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEV.	ELEVATOR / ELEVATION
ENCL.	ENCLOSURE
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
EXIST.	EXISTING
EXP.	EXPANSION
FLUOR.	FLUORESCENT
FNDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.S.	FULL SIZE / FINISH SURFACE
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
GA.	GUAGE / GAGE
GALV.	GALVANIZED IRON
GEN	GENERAL
G.I.	GALVANIZED IRON
GR.	GRADE
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDWR.	HARDWARE
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
I.B.C	INTERNATIONAL BUILDING CODE
I.D.	INSIDE DIAMETER / DIMENSION
IN.	INCH
INCND.	INCANDESCENT
INV.	INVERT
JT.	JOINT
LB.	POUND
L.F.	LINEAL FEET
LLH.	LONG LEG HORIZONTAL
LLV.	LONG LEG VERTICAL
L.P.	LOW POINT
LT.	LIGHT
LT. WT.	LIGHT WEIGHT
MACH.	MACHINE
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MDF	MAIN DISTRIBUTION FRAME
MED.	MEDIUM
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM / MINUTE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
(N)	NEW
NAT.	NATURAL
NT. GR.	NATURAL GRADE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
O.A.	OVERALL / OUTSIDE AIR
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER / DIMENSION
ORN.	ORNAMENTAL IRON
PH	PANIC HARDWARE
P.I.V.	PRESSURE INDICATOR VALVE
PL.	PLATE
PLUMB.	PLUMBING
PNL.	PANEL
PR.	PAIR
PREFAB.	PREFABRICATED
PT.	POINT
R.	RISER / RADIUS
RAD.	RADIUS
REC.	RECESSED / RECIEVING
RECPT.	RECEPTACLE
REF.	REFERENCE
REV.	REVERSE
REG.	REGISTER / REGULAR
REINF.	REINFORCED
REQ.	REQUIRED
RESIL.	RESILIENT
R.H.	ROUND HEAD
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
S.	SOUTH / SPANDREL
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SERV.	SERVICE / SERVING
S.F.	SQUARE FOOT
SHT.	SHEET
SIM.	SIMILAR
SL.	SLIDING
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.C.	TOP OF CURB OR CONCRETE
TEL.	TELEPHONE
TEMP.	TEMPERED / TEMPORARY
T&G	TONGUE AND GROOVE
THK.	THICK
TOIL.	TOILET
T.O.W.	TOP OF WALL
TYP.	TYPICAL
TRNSF.	TRANSFORMER
U.L.	UNDERWRITER'S LAB
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
W.	WEST / WOMEN
W/	WITH
WD.	WOOD
W/O	WITHOUT
WP.	WATERPROOF
W.R.	WATER RESISTANT
W.S.	WOOD SCREW
WT.	WEIGHT
W.W.M.	WOVEN WIRE MESH

KEYNOTES SPECIFIC TO SITE WORK

SE SITE EXISTING
SD SITE DEMOLITION
SN SITE NEW

CAMPUS MAP



CAMPUS MAP 12" = 1'-0" 1

architecture westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX

1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04-02-19
DRAWN: RR / SW
CHECK: JG
ARCHITECT: PDW
ENGINEER:
ARCHITECT: [seal: LICENSED ARCHITECT PAUL DENNIS WESTBERG STATE OF CALIFORNIA, signed]

CONSULTANT:

SSS: K. ROBERTS
FLS: D. TRUBINS
ACS: SCOTT DAVISON

STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS DT SS
DATE APR 02 2019

DSA APPROVAL PLANS 04/02/2019

SHEET DESCRIPTION:
SHEET INDEX, SYMBOLS, ABBREVIATIONS, AND NOTES

SHEET NO:
G000

4/1/2019 11:09:55 AM C:\Users\rrichter\Documents\Projects_RVT\16034-Master_rrichter@wwarch.com.rvt

VICINITY MAP 7

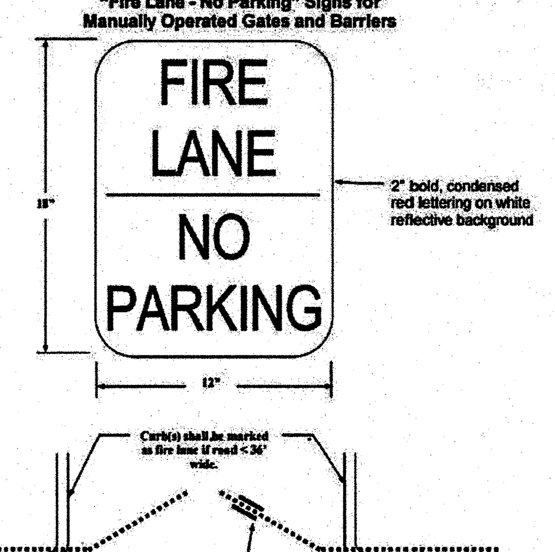
CFC TABLE B105.1 MINIMUM REQUIRED FIRE FLOW DURATIONS FOR BUILDINGS

AREA	TYPE OF CONSTRUCTION	SQUARE FEET	FIRE FLOW	FLOW DURATION
BUILDING	VB	2,500	934 GPM TESTED 4-2016	NOT SPECIFIED IN REPORT
			1500 GPM REQUIRED	2 HOURS REQUIRED

FIRE FLOW CALC. 6

ATTACHMENT 9

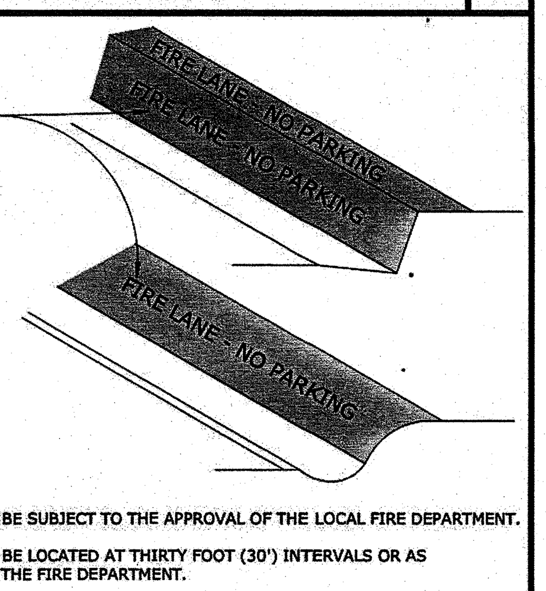
Specifications for "Fire Lane - No Parking" Signs for Manually Operated Gates and Barriers



All sign and lettering dimensions shown are minimums. "Arial Narrow" font used in sample above, though other legible sans-serif fonts may be acceptable.
"Fire Lane—No Parking" sign shown in Attachment 12 may be used as an alternative.
Signs shall be securely mounted on the front and back face of the gate clearly visible to traffic entering the designated area. Signs shall be made of a durable material.

FIRE LANE GATE SIGN 5

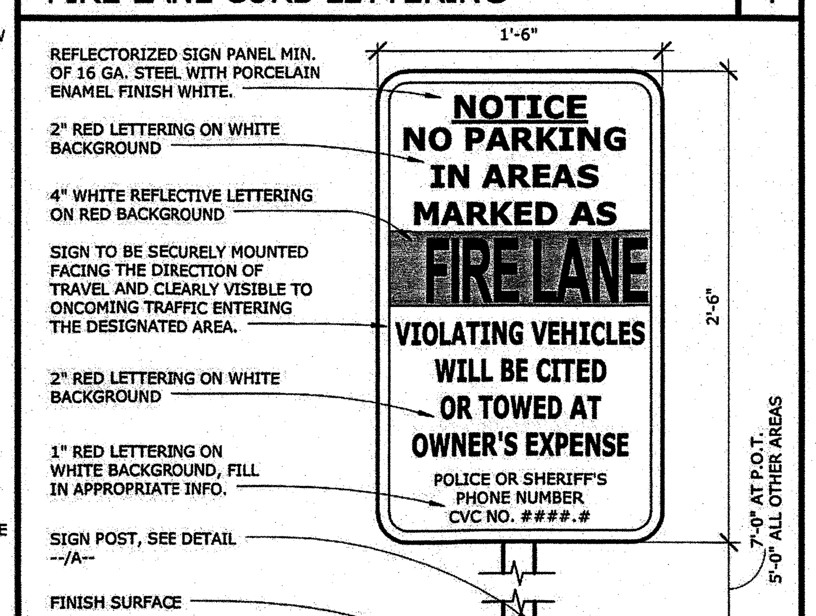
CONTINUOUS OSHA SAFETY RED-PAINTED CURB (SEE SITE PLAN FOR EXTENT) WITH 4" HIGH WHITE STENCIL-PAINTED LETTERING, "FIRE LANE - NO PARKING" SHALL OCCUR AT FACE AND TOP OF CURB AT MAX. 30'-0" INTERVALS AND AT CENTER OF CURB LENGTH WHERE CURB SEGMENT TO BE PAINTED IS LESS THAN 30'-0"



NOTES :

1. CURB LETTERING SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL FIRE DEPARTMENT.
2. CURB LETTERING SHALL BE LOCATED AT THIRTY FOOT (30') INTERVALS OR AS DEEMED NECESSARY BY THE FIRE DEPARTMENT.
3. ALL RAISED CURBS IN "NO PARKING" AREAS SHALL BE PAINTED RED WITH ACCEPTABLE RED CURB PAINT AND LETTERED AS PER LOCAL FIRE DEPARTMENT STANDARDS.

FIRE LANE CURB LETTERING 1" = 1'-0" 4



FIRE LANE SIGN 1 1/2" = 1'-0" 3

INSPECTIONS

1. OCFA SITE INSPECTIONS ARE REQUIRED FOR THIS PROJECT. PLEASE SCHEDULE ALL FIELD INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A RE-INSPECTION FEE. CALL OCFA INSPECTION SCHEDULING AT (714) 573-6150.
2. A LUMBER DROP INSPECTION SHALL BE PERFORMED PRIOR TO BRINGING COMBUSTIBLE MATERIALS (OR COMBUSTIBLE FIXTURES AND FINISHES FOR STRUCTURES OF NON-COMBUSTIBLE CONSTRUCTION). ALL-WEATHER ACCESS ROADS CAPABLE OF SUPPORTING 68,000 LBS., TOPPED WITH ASPHALT, CONCRETE, OR EQUIVALENT SHALL BE IN PLACE AND HYDRANTS OPERATIONAL AT TIME OF LUMBER DROP INSPECTION.
3. PHASED INSTALLATION OF FIRE ACCESS ROADS REQUIRES ADDITIONAL INSPECTIONS NOT COVERED BY THE FEES PAID AT PLAN SUBMITTAL. CONTACT INSPECTION SCHEDULING TO ARRANGE FOR ADDITIONAL INSPECTIONS THAT MAY BE NEEDED AND ANY FEES THAT MAY BE DUE.
4. PHASED INSTALLATION OF FIRE ACCESS ROADS REQUIRES ADDITIONAL INSPECTIONS NOT COVERED BY THE FEES PAID AT PLAN SUBMITTAL. CONTACT INSPECTION SCHEDULING TO ARRANGE FOR ADDITIONAL INSPECTIONS THAT MAY BE NEEDED AND ANY FEES THAT MAY BE DUE.
5. AN ORIGINAL APPROVED, SIGNED, WET-STAMPED OCFA FIRE MASTER PLAN SHALL BE AVAILABLE ON-SITE AT TIME OF INSPECTION.
6. ACCESS ROADS AND HYDRANTS SHALL BE MAINTAINED AND REMAIN CLEAR OF OBSTRUCTIONS AT ALL TIMES DURING AND AFTER CONSTRUCTION. AREAS WHERE PARKING IS NOT PERMITTED SHALL BE CLEARLY IDENTIFIED AT ALL TIMES. OBSTRUCTION OF FIRE LANES AND HYDRANTS MAY RESULT IN CANCELLATION OR SUSPENSION OF INSPECTIONS.
7. TEMPORARY FUEL TANKS OF 60 OR MORE GALLONS SHALL BE REVIEWED, INSPECTED, AND PERMITTED BY THE OCFA PRIOR TO USE.
8. THE PROJECT ADDRESS SHALL BE CLEARLY POSTED AND VISIBLE FROM THE PUBLIC ROAD DURING CONSTRUCTION.
9. ALL GATES IN CONSTRUCTION FENCING SHALL BE EQUIPPED WITH EITHER A KNOX OR BREAKAWAY PADLOCK.
10. BUILDINGS OF FOUR OR MORE STORIES SHALL BE PROVIDED WITH STAIRS AND A STANDPIPE BEFORE REACHING 40 FEET IN HEIGHT.

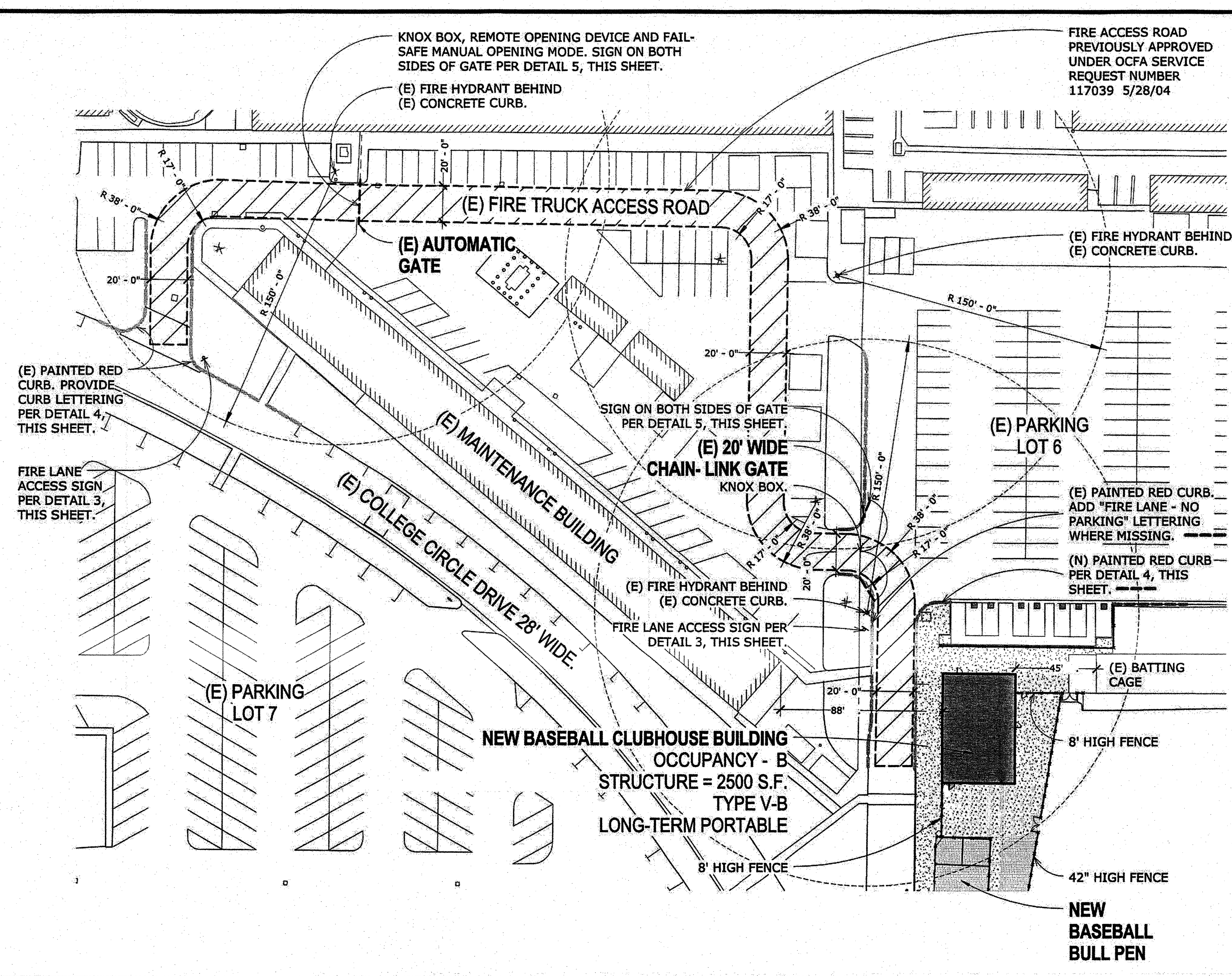
GENERAL REQUIREMENTS

11. FIRE LANE WIDTHS SHALL BE MEASURED FROM TOP FACE OF THE CURB TO TOP FACE OF THE CURB FOR FIRE LANES WITH STANDARD CURBS AND GUTTERS AND FROM FLOW-LINE TO FLOW-LINE FOR FIRE LANES WITH MODIFIED CURB DESIGNS (E.G., ROLLED, RAMPED, ETC). THE DEVELOPER IS RESPONSIBLE TO VERIFY THAT ALL APPROVED PUBLIC WORKS OR GRADING DEPARTMENT STREET IMPROVEMENT PLANS OR PRECISE GRADING PLANS CONFORM TO THE MINIMUM STREET WIDTH MEASUREMENTS PER THE APPROVED OCFA FIRE MASTER PLAN AND STANDARDS IDENTIFIED IN OCFA GUIDELINE B-09 FOR ALL PORTIONS OF THE FIRE ACCESS ROADS.
12. PERMANENT, TEMPORARY, AND PHASED EMERGENCY ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT AN IMPOSED LOAD OF 68,000 LBS. AND SURFACED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
13. FIRE LANE SIGNS AND RED CURBS SHALL MEET THE SPECIFICATIONS SHOWN IN OCFA GUIDELINE B-09 AND SHALL BE INSTALLED AS DESCRIBED THEREIN. ADDITIONAL FIRE LANE MARKINGS MAY BE REQUIRED AT THE TIME OF INSPECTION DEPENDING ON FIELD CONDITIONS.
14. ALL FIRE HYDRANTS SHALL HAVE A "BLUE REFLECTIVE PAVEMENT MARKER" INDICATING THEIR LOCATION PER THE OCFA STANDARD. ON PRIVATE PROPERTY MARKERS ARE TO BE MAINTAINED IN GOOD CONDITION BY THE PROPERTY OWNER.
15. ADDRESS NUMBERS SHALL BE LOCATED AND BE OF A COLOR AND SIZE SO AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE ROADWAY FROM WHICH THE BUILDING IS ADDRESSED IN ACCORDANCE WITH OCFA GUIDELINE B-09. WAYFINDING SIGNS, WHEN REQUIRED BY THE LOCAL AHJ, SHALL COMPLY WITH THE STANDARDS OF THAT AGENCY. WHEN WAYFINDING SIGNS ARE ALSO REQUIRED BY THE OCFA, THEY MAY BE DESIGNED TO LOCAL AHJ REQUIREMENTS PROVIDED THAT SUCH STANDARDS FACILITATE LOCATION OF STRUCTURES, SUITES, AND DWELLING UNITS BY EMERGENCY PERSONNEL.
16. ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH CHAPTER 5 OF THE CFC AND OCFA GUIDELINES.
17. APPROVED ACCESS WALKWAYS SHALL BE PROVIDED TO ALL REQUIRED OPENINGS AND ALL RESCUE WINDOWS.
18. VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO ALL HYDRANTS, VALVES, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS, AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES.
19. FIRE ACCESS ROADWAYS SHALL BE DESIGNED, CONSTRUCTED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF OCFA FIRE APPARATUS WITH A TOTAL WEIGHT OF 68,000 POUNDS. APPARATUS WEIGHT IS DISTRIBUTED AS 46,000 POUNDS ON TANDUM REAR AXLES AND 22,000 POUNDS ON THE FRONT AXLE. THE SURFACE SHALL BE DESIGNED, CONSTRUCTED AND MAINTAINED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.

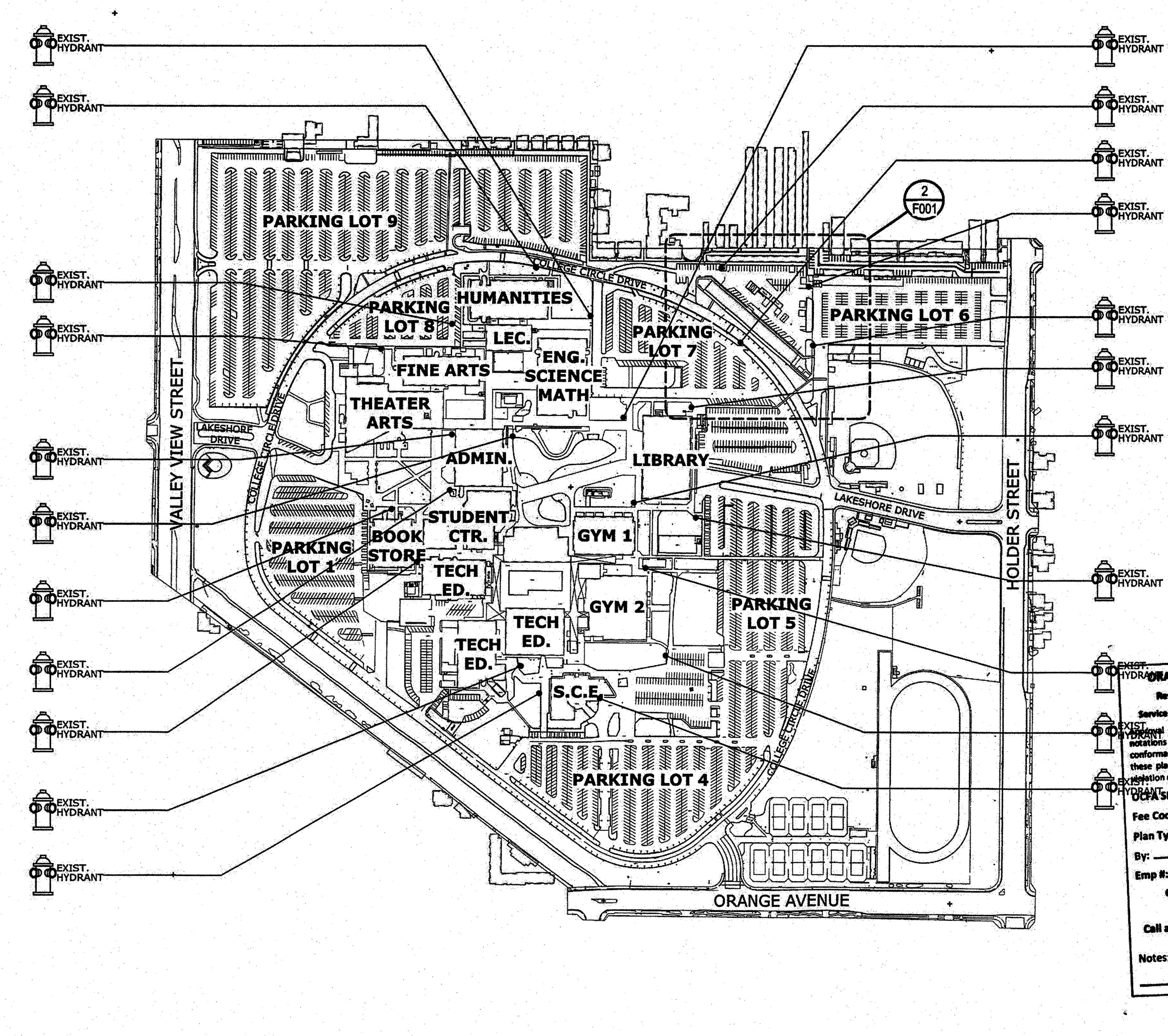
PUBLIC SCHOOL FIRE MASTER PLAN NOTES

20. ALL VEGETATION AND OTHER OBSTRUCTIONS OVERHANGING A FIRE ACCESS ROADWAY SHALL BE MAINTAINED TO A CLEAR HEIGHT OF 13'-6".
21. ALL POLES, BACKBOARDS, AND OTHER OBSTRUCTIONS ON PLAYGROUNDS NEAR A FIRE ACCESS ROADWAY SHALL BE PROVIDED WITH REFLECTIVE TAPE OR PAINT.
22. KNOX KEY SWITCHES, KNOX LOCKS, OR FRANGIBLE PADLOCKS/CHAINS SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIREFIGHTER ACCESS.
23. THE CAMPUS IS IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS EASILY VISIBLE FROM THE PUBLIC ROAD FRONTING THE PROPERTY. INDIVIDUAL STRUCTURES ARE IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS OR LETTERS EASILY VISIBLE FROM THE PUBLIC WAY OR FIRE ACCESS ROADWAY.
24. ALL-WEATHER ACCESS ROADWAYS AND ALL FIRE HYDRANTS SHALL BE IN PLACE AND OPERATIONAL BEFORE BRINGING COMBUSTIBLE BUILDING MATERIALS OR PORTABLE UNITS ON-SITE.
25. PIVS, DDCS, FDCS SHALL BE UNOBSTRUCTED AND VISIBLE FROM THE FIRE LANE OR PUBLIC ROAD. THEY SHALL BE PAINTED OSHA SAFETY RED.

LOCAL FIRE AUTHORITY NOTES



FIRE ACCESS SITE PLAN 1" = 40'-0" 2



ORANGE COUNTY FIRE AUTHORITY
Reviewed by Planning & Development
Service Request Expires After 6 Months of Inactivity
Approval subject to field inspection and required test, notations hereon, conditions in correspondence and conformance with applicable regulations. The stamping of these plans shall not be held to permit or approve the violation of any law.
OCFA SR #: 217032
Fee Codes: PR450
Plan Type: public school
By: [signature]
Emp #: 1413 Date: 7 / 1 /20 18
ONLY STAMPED SHEETS REVIEWED BY ORANGE COUNTY FIRE AUTHORITY
Call at least 48 hours in advance to schedule inspections: (714) 573-6150
Notes:

CAMPUS PLAN 1" = 20'-0" 1

1. ASSESSOR'S PARCEL NUMBERS: XXX-XXX-XXX
2. AN UNDERGROUND FIRE PROTECTION PLAN SUBMITTAL IS REQUIRED FOR THE INSTALLATION OF AN AUTOMATIC FIRE SPRINKLER SYSTEM OR FOR PRIVATE FIRE HYDRANT SYSTEM.
3. THE REQUIRED FIRE FLOW SHALL BE VERIFIED.
4. EMERGENCY ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT AN IMPOSED LOAD OF 68,000 POUNDS AND WILL HAVE A SURFACE THAT PROVIDES ALL-WEATHER DRIVING CAPABILITIES.
5. ALL-WEATHER ACCESS ROADS AND HYDRANT LOCATIONS SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY AND SHALL BE IN PLACE AND OPERATIONAL BEFORE ANY COMBUSTIBLE MATERIALS ARE PLACED ON SITE. ACCESS ROADS AND HYDRANTS SHALL BE MAINTAINED AND REMAIN CLEAR OF OBSTRUCTIONS AT ALL TIMES.
6. THE GRADE OF FIRE DEPARTMENT ACCESS ROADS SHALL NOT EXCEED 10% FOR UNSPRINKLERED STRUCTURES. A MAXIMUM OF 15% GRADE, AS APPROVED BY THE LOCAL FIRE AUTHORITY, MAY BE ALLOWED FOR STRUCTURES WITH AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM.
7. FIRE LANE WIDTHS SHALL BE MEASURED FROM TOP OF FACE OF THE CURB TO TOP FACE OF THE CURB FOR FIRE LANES WITH CURBS AND GUTTERS AND FROM THE FLOWLINE TO FLOWLINE FOR FIRE LANES WITH MODIFIED CURB DESIGNS (E.G., ROLLED, RAMPED, ETC...). CFC 902.2.2.1, AS AMENDED
8. ALL VEGETATION AND OTHER OBSTRUCTIONS OVERHANGING A FIRE ACCESS ROADWAY SHALL BE MAINTAINED TO A CLEAR HEIGHT OF 13'-6".
9. ALL POLES, BACKBOARDS AND OTHER OBSTRUCTIONS ON PLAYGROUNDS NEAR A FIRE ACCESS ROADWAY SHALL BE PROVIDED WITH REFLECTIVE TAPE OR PAINT.
10. ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH SECTION 902 OF THE 2001 CFC AND LOCAL FIRE AUTHORITY GUIDELINES. ACCESS GATE(S) SHALL BE OPERABLE WITH AN LOCAL FIRE AUTHORITY KNOX KEY.
11. KNOX KEY SWITCHES, KNOX LOCKS, OR FRANGIBLE PADLOCKS/CHAINS SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIRE FIGHTER ACCESS.
12. PRIVATE FIRE HYDRANTS, SPRINKLER CONTROL AND POST INDICATOR VALVES, RISERS AND FIRE DEPARTMENT CONNECTIONS SHALL BE PAINTED OSHA SAFETY RED. ALL FIRE HYDRANTS SHALL HAVE A "BLUE REFLECTIVE PAVEMENT MARKER" INDICATING THE LOCATION. ON PRIVATE PROPERTY MARKERS ARE TO BE MAINTAINED IN GOOD CONDITION BY THE PROPERTY OWNER.
13. APPROVED ACCESS WALKWAYS SHALL BE PROVIDED TO ALL REQUIRED OPENINGS AND ALL RESCUE WINDOWS. VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW ACCESS TO AND THE LADDERING OF RESCUE WINDOWS AND STRUCTURES. CFC 902.3
14. ALL-WEATHER ACCESS ROADWAYS AND ALL FIRE HYDRANTS SHALL BE IN PLACE AND OPERATIONAL BEFORE BRINGING COMBUSTIBLE BUILDING MATERIALS OR PORTABLE UNITS ON-SITE.
15. ANY FUTURE MODIFICATION TO THE APPROVED FIRE MASTER PLAN OR APPROVED PLAN, INCLUDING BUT NOT LIMITED TO ROAD WIDTH, GRADE, SPEED HUMPS, TURNING RADII, GATES OR OTHER OBSTRUCTIONS, SHALL REQUIRE REVIEW AND APPROVAL BY THE LOCAL FIRE AUTHORITY.
16. THE CAMPUS IN IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS EASILY VISIBLE FROM THE PUBLIC ROAD FRONTING THE PROPERTY. INDIVIDUAL STRUCTURES ARE IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS OR LETTERS EASILY VISIBLE FROM THE PUBLIC WAY OR FIRE ACCESS ROADWAY.
17. KNOX BOX ACCESS SHALL BE PROVIDED TO ALL BUILDINGS
18. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AS REQUIRED BY SECTION 1008.1.8 OF THE 2007 CBC.
19. EXIT DOORS SHALL BE CLEARLY IDENTIFIED WITH EXIT SIGNS. SUCH SIGNS MUST HAVE EMERGENCY POWER BACK-UP.
20. THE EXIT PATH FROM OCCUPIED SPACES SHALL BE ILLUMINATED AT ALL TIMES IN ACCORDANCE WITH CBC 1006
21. PANIC HARDWARE SHALL BE PROVIDED FOR ALL EXIT DOORS FROM ROOMS WITH 50 OR MORE OCCUPANTS AND ON ALL CORRIDOR DOORS.
22. SMOKE DETECTORS SHALL BE REQUIRED IN ROOMS WITH A COMMON ATMOSPHERE WHEN THE SINGLE REQUIRED EXIT PATH OF ONE ROOM PASSES THROUGH ANOTHER.
23. DUMPSTERS AND TRASH CONTAINERS LARGER THAN 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM.

FIRE PROTECTION NOTES

DSA FORM 810 - LOCAL FIRE AUTHORITY REVIEW
FOR INSTRUCTIONS, SEE DSA 810 INSTRUCTIONS AND DSA POLICY 09-01 **DSA APPLICATION #:** ____________

PROJECT INFORMATION
SCHOOL DISTRICT/OWNER:
PROJECT NAME/SCHOOL:
PROJECT ADDRESS:

PROJECT INFORMATION
LFA AGENCY NAME:
LFA REVIEWER NAME: **TITLE:**
EMAIL: **TELEPHONE NUMBER:**

I HAVE REVIEWED AND RESPONDED TO THE APPLICABLE ITEMS FOR THIS PROJECT AS LISTED BELOW.
NOTE: ONLY SIGN THE DSA-810 WHEN IMAGED ONTO THE SITE PLAN. LOOSE FORM NOT ACCEPTABLE TO DSA.

[signature] 7/1/18
LFA REVIEWER'S SIGNATURE (DATE)

LOCAL FIRE AUTHORITY IS TO COMPLETE SECTIONS 1-7 AS APPLICABLE TO THIS PROJECT, SIGNATURE REQUIRE BELOW.

KEY: "Y" = COMPLIES WITH LFA REQUIREMENTS
"NR" = LFA ELECTS NOT TO REVIEW
"N/A" = NOT APPLICABLE TO THIS PROJECT
"N" = NOT APPROVED (COMPLETE SECTION 8)

		YES	N	N/A	NR
1	WHERE AN ELEVATOR DOES NOT MEET MEDICAL EMERGENCY SERVICE CAB SIZE, PER CALIFORNIA BUILDING CODE, THE LOCAL FIRE AUTHORITY APPROVES THE USE OF STAIRWAYS FOR EMERGENCY RESCUE AND PATIENT TRANSPORT.	☐	☐	☑	☐
2	ACCESS ROADS, FIRE LANE MARKINGS, PAVERS AND GATE ENTRANCES ARE IN ACCORDANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS AND THE CALIFORNIA FIRE CODE, CHAPTER 5.	☑	☐	☐	☐
3	FIRE HYDRANT LOCATION AND DISTRIBUTION COMPLIES WITH CALIFORNIA FIRE CODE, CHAPTER 5.	☑	☐	☐	☐
4	FIRE HYDRANT LOCATION AND DISTRIBUTION COMPLIES WITH 2013 CFC. NFPA 1142 (ALTERNATE MEANS) WHEN NR IS CHECKED, DSA CAN ONLY REVIEW ON-SITE WATER STORAGE AS AN ALTERNATE MEANS. SIGNATURE OF THE SCHOOL DISTRICT OFFICIAL IS REQUIRED TO ACKNOWLEDGE USE OF NFPA 1142 AS LFA ALTERNATE MEANS. SIGNATURE OF SCHOOL DISTRICT OFFICIAL: (SIGN AND PRINT NAME AND TITLE) (DATE) PRINT THE SCHOOL DISTRICT OFFICIAL'S NAME	☑	☐	☐	☐
5	THE LOCATION(S) OF THE PROPOSED POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION MEET THE REQUIREMENTS OF THIS JURISDICTION.	☐	☐	☑	☐
6	THE LOCATION(S) OF THE DETECTOR CHECK VALVE ASSEMBLY MEET THE REQUIREMENTS OF THIS JURISDICTION.	☐	☐	☑	☐
7	**IS PROJECT LOCATED IN A HAZARD SEVERITY ZONE AREA?** (2013 CBC, CHAPTER 7A, SECTION 701A) YES☐ NO☑ IF YES, TYPE (CHECK ONE): MODERATE ☐ HIGH ☐ VERY HIGH ☐ WIFA ☐ (IF ONE OF THESE BOXES IS CHECKED THE PROJECT DESIGN MUST MEET REQUIREMENTS OF CHAPTER 7A)				
8	**COMMENTS** (NOTE DEFICIENCIES)				

LOCAL FIRE AUTHORITY REVIEW

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

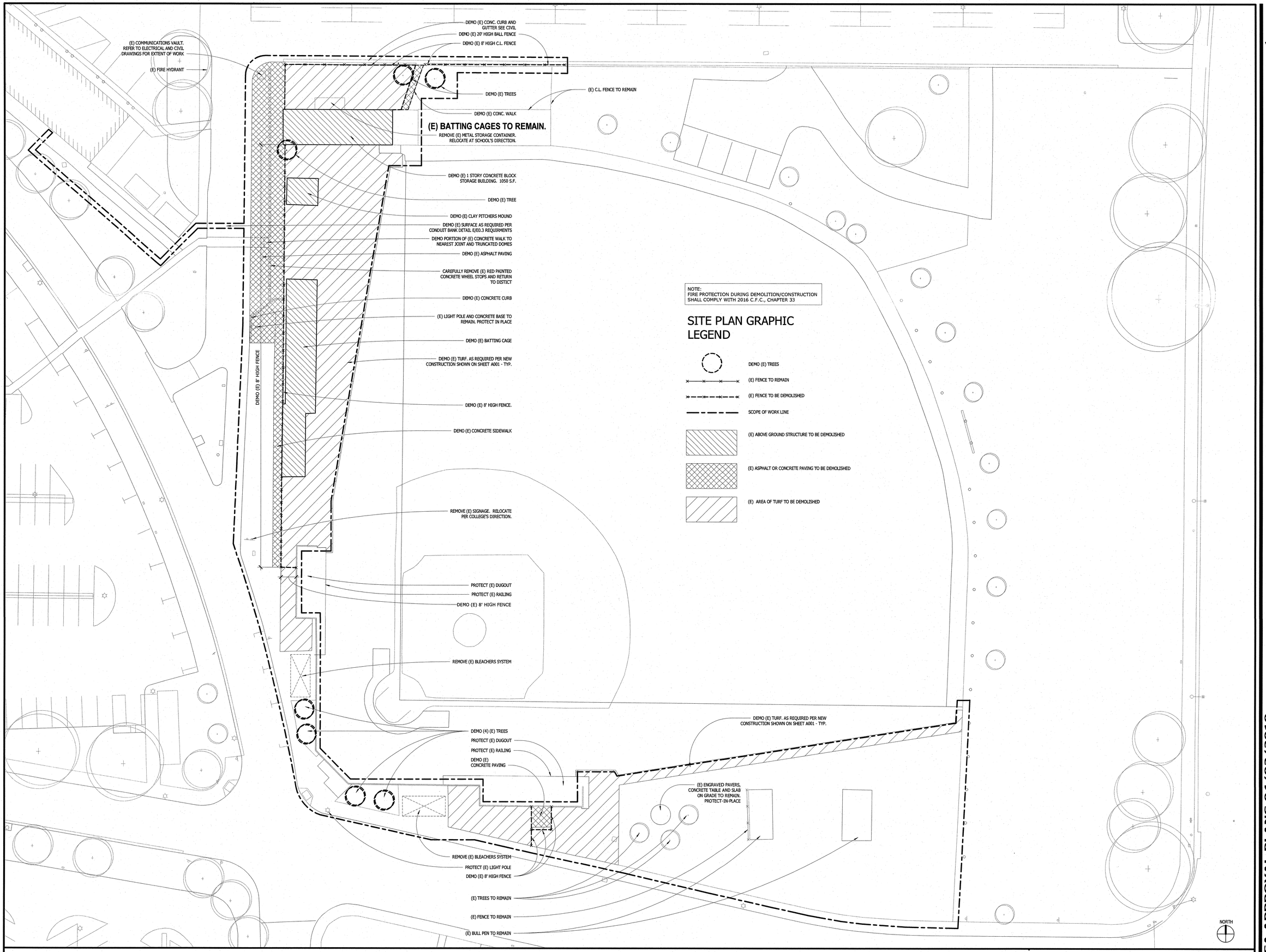
JOB NO: 16034
DATE:
DRAWN:
CHECK:
ARCHITECT: PDW
ENGINEER:
ARCHITECT:
LICENSED ARCHITECT PAUL WESTBERG STATE OF CALIFORNIA

CONSULTANT:

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS DT SS
DATE APR 0 2 2019

SHEET DESCRIPTION:
SITE FIRE PROTECTION PLAN

SHEET NO:
F001



DEMOLITION SITE PLAN 1" = 20'-0" 1

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architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
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(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

DSA APPROVAL PLANS 04/02/2019

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04-02-19
DRAWN: CA / RR
CHECK: SW
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO:04-117630
FILE NO:30-C1
AC FLS DT SS
DATE APR 02 2019

SHEET DESCRIPTION:
DEMOLITION SITE PLAN

SHEET NO:
D001

(E) 20' WIDE FIRE TRUCK ACCESS LANE

FIRE TRUCK TURNNING RADII. 17' INTERNAL RADIUS, 38' EXTERNAL RADIUS.

(E) CONC. CURB AND GUTTER TO REMAIN

(E) CHAINLINK FENCING TO REMAIN

ACCESSIBLE VAN STALL

(E) PARKING LOT 6

(E) COMM. VAULT, SEE CIVIL PLANS

(E) ELECT PULL BOX, SEE CIVIL PLANS

(E) FIRE HYDRANT

ASSUMED PROPERTY LINE

NEW CONCRETE SIDEWALK

NEW CONCRETE CURB

NEW 8' HIGH C.L. FENCE W/ BLUE WINDSCREEN (2/A005)

LIMIT OF WORK LINE

ASSUMED PROPERTY LINE

NEW CONCRETE SIDEWALK

NEW CONCRETE CURB

NEW 8' HIGH C.L. FENCE W/ BLUE WINDSCREEN (2/A005)

NEW CONCRETE CURB

(3/A002)

(E) ACCESSIBLE PATH FROM PARKING LOT #7 AND MAIN CAMPUS

College Circle Drive

NEW HOSE BIB, REFER TO CIVIL PLANS

NEW PITCHING RUBBERS

NEW PITCHER'S MOUND - CLAY BASE WITH CONC CURB 3 SIDES

PROVIDE NEW CONCRETE CURB LOCATED IN ORIGINAL LOCATION

(E) LIGHT POLE TO REMAIN. PROTECT IN PLACE

NEW CONCRETE SLAB WITH SYNTHETIC TURF OVERLAY AT PITCHING BULLPEN

NEW 14' HIGH C.L. FENCE W/ BLUE WINDSCREEN (11/A005)

TO MAIN CAMPUS. CONNECTS TO BUS STOP AT VALLEY VIEW STREET. APPROVED PATH OF TRAVEL A# 107213

NEW CONCRETE SLAB WITH SYNTHETIC TURF OVERLAY AT BATTING CAGES

NEW 14' HIGH C.L. FENCE W/ NYLON FABRIC NETTING

SOFT TOSS

NEW 8' HIGH C.L. FENCE WITH WINDSCREEN

NEW CONCRETE PAVING

(N) 8' HIGH C.L. FENCE WITH WINDSCREEN

(E) CONCRETE PAVING TO REMAIN.

VAN PARKING STALL

(E) ACCESSIBLE PARKING STALL LOCATIONS TO REMAIN. PROVIDE NEW STRIPING AND ISA SIGNS PER DETAIL 9/A004 Per A# 04-109302

(E) TOILET TO RECEIVE ADA UPGRADES PER DETAIL 1/A101

PROVIDE (1) NEW "MINIMUM FINE $250" SIGN UNDER (E) SIGN. EXISTING ADA PARKING STALL TO BE RAISED TO MEET THE MIN. HEIGHT REQUIREMENTS (3/A004, 11/A002)

NEW DRINKING FOUNTAIN AND SLAB ON GRADE

(E) ACCESSIBLE PATH OF TRAVEL TO REMAIN. (Documentation Per civil)

(E) CONCRETE PAVING TO REMAIN

Lakeshore Drive

(E) PARKING LOT 7
A# 04-109304
#1-Certification & Close of File 7/14/2010

(E) MAINTENENCE BUILDING
A# 04-105920
#1-Certification & Close of File 7/1/2010

(E) TOILET BUILDING TO REMAIN
A# 04-109302
#1-Certification & Close of File 12/02/2009

PARKING LOT 5

College Circle Drive

MODULAR BASEBALL CLUBHOUSE A# 04-117866

(E) BATTING CAGES TO REMAIN.

NEW 20' HIGH C.L. FENCE

NEW 8' HIGH C.L. FENCE

NEW 20' HIGH C.L. FENCE

G01 G02 G04 G05 G06 G07 G08 G09 G10 G11 G12 G13 G14 G15 G16 G17

(E) CONCRETE PAVING TO REMAIN.

(E) C.L. FENCE TO REMAIN.

NEW MODULAR BUILDING FOUNDATION. REFER TO ATTACHED FOUNDATION PLAN SHEET F-4 AND CIVIL PLANS

SKC TO PROVIDE ALL MODULAR BUILDING SIGNAGE. REFER TO APPROVED PC A#04-117866 FOR SIGNAGE LOCATION AND DETAILS. SEE ROOM SIGNAGE DETAIL 17/A002 FOR DESIGN

NEW CONCRETE PAVING

NEW 14' HIGH C.L. FENCE WITH BLUE WINDSCREEN WITH 4-COLOR GRAPHICS

NEW NATURAL TURF TO MATCH EXISTING

ASSUMED PROPERTY LINE

NEW CONCRETE WALK

NEW HOSE BIB, REFER TO CIVIL PLANS

NEW 14' HIGH C.L. FENCE. REFER TO DETAIL (11/A005)

42" HIGH FENCE W/ PADDED TOP RAIL

NEW 14' HIGH C.L. FENCE. REFER TO DETAIL (11/A005)

NEW CONCRETE SLAB WITH SYNTHETIC TURF OVERLAY AT SOFT TOSS AREA

NEW CONCRETE PAVING

(E) BASEBALL FIELD. PROTECT -IN-PLACE.

EXISTING PLAY FIELD NEEDS TO BE MAINTAINED AT ALL TIMES

(E) DUGOUT

(E) CONCRETE PAVING

(E) ROOF EDGE OF DUGOUT

(E) PADDED HANDRAIL TO REMAIN

NEW SURFACE MAT TO MATCH (E)

NEW HANDRAIL W/ NYLON FABRIC NETTING AND PADDED TOP RAIL TO MATCH (E), REFER TO DETAIL 19/A005

(E) CONCRETE PAVING TO REMAIN. PATCH, REPAIR AS REQUIRED FROM (E) BLEACHER REMOVAL

(E) LOW CMU WALL WITH C.L. FENCING AND WINDSCREEN

NEW HANDRAIL W/ NYLON FABRIC NETTING AND PADDED TOP RAIL TO MATCH (E), REFER TO DETAIL 19/A005

NEW SURFACE MAT TO MATCH (E)

(E) PADDED HANDRAIL TO REMAIN

(E) CONCRETE TO REMAIN

NEW CONCRETE PAVING

(E) DUGOUT

(E) CONCRETE SIDEWALK

PROVIDE NEW C.L. ON ROOF OF GROOMER STORAGE

GROOMER STORAGE

(E) CONCRETE PAVING TO REMAIN. PATCH, REPAIR AS REQUIRED FROM (E) BLEACHER REMOVAL

(E) BULL PEN. PROTECT-IN-PLACE

(E) 10' HIGH CHAIN LINK FENCE

NEW HOSE BIB. REFER TO CIVIL PLANS

(E) TURF, PROTECT IN PLACE

(E) GATE TO REMAIN

(E) CONCRETE SLAB ON GRADE

(E) 8' HIGH C.L. FENCE TO REMAIN

Holder Street

Baseball Clubhouse CODE ANALYSIS

CLUBHOUSE BUILDING

OCCUPANCY: B

CONSTRUCTION TYPE: V-B

NON-SPRINKLERED

ALLOWABLE AREA: 9,000S.F.

ACTUAL AREA: 2,400S.F. (CLUBHOUSE)

Parking Lot 6 PARKING ANALYSIS

CURRENT TOTAL PARKING SPACES : 294

ACCESSIBLE PARKING SPACES REQUIRED : 7

VAN SPACES REQUIRED : 2

SITE PLAN GRAPHIC LEGEND

- EXISTING ACCESSIBLE PATH OF TRAVEL Per A#04-109302
- NEW ACCESSIBLE PATH OF TRAVEL
- (E) FENCE
- NEW FENCE
- SCOPE OF WORK LINE
- GATE TAG - SEE GATE SCHEDULE SHEET A002
- MODULAR BUILDING UNDER SEPARATE CONTRACT: A# 04-117364 SERIAL NUMBERS: P-18-1896A / P-18-1896B / P-18-1896C / P-18-1896D
- NEW CONCRETE PAVING
- NEW NATURAL TURF
- EXISTING 20' WIDE FIRE TRUCK ACCESS ROAD
- (E) TOILET BUILDING. FOR ACCESSIBILITY UPGRADES SEE SHEET A101.
- NEW ASPHALT PAVING
- CLAY BASE PITCHER'S MOUND

NORTH

SITE PLAN 1" = 20'-0" 1

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architecture
westbergwhite
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(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04-02-19
DRAWN: RR / SW
CHECK: JG
ARCHITECT: PDW
ENGINEER:

ARCHITECT:

LICENSED ARCHITECT PHILIP D. WESTBERG STATE OF CALIFORNIA

CONSULTANT:

STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO.04-117630
FILE NO.30-C1
AC FLS DT SS
DATE APR 02 2019

SHEET DESCRIPTION: SITE RENOVATION PLAN

SHEET NO: A001

DSA APPROVAL PLANS 04/02/2019

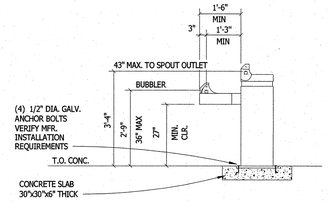
SITE GATES

GATE DESCRIPTION					FRAME AND HARDWARE				DETAILS	
NO.	SIZE	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	CLOSER	PANIC HDWR.		COMMENTS
G01	3'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	24/A005	
G02	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G03	3'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	24/A005	
G04	6'-0" X 3'-6"	CL	CL	F	STL	F	NO	NO	18/A005	
G05	12'-0" X 3'-6" ROLLING	CL	CL	F	STL	F	NO	NO	13/A005	
G06	3'-0" X 3'-6"	CL	CL	F	STL	F	NO	NO	3/A005	
G07	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G08	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G09	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G10	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G11	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G12	6'-0" X 8'-0"	CL	CL	F	STL	F	YES	YES	18/A005	
G13	6'-0" X 8'-0"	CL	CL	F	STL	F	NO	NO	18/A005	
G14	8'-0" X 3'-6"	CL	CL	F	STL	F	NO	NO	18/A005	
G15	30'-0" X 3'-6" PR ROLLING	CL	CL	F	STL	F	NO	NO	13/A005	
G16	3'-8" X 3'-6"	CL	CL	F	STL	F	NO	NO	3/A005	
G17	12'-0" X 3'-6" ROLLING	CL	CL	F	STL	F	NO	NO	13/A005	

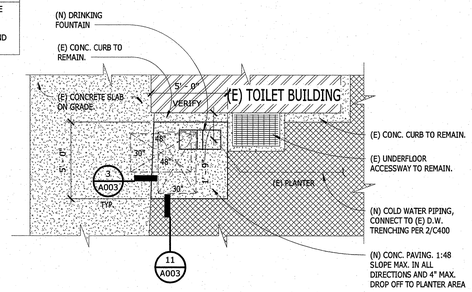
NOTE:
FOR GATE HARDWARE SEE SPECIFIED DETAIL

GATE SCHEDULE

FIXTURE	CONNECTION COLD WATER	DESCRIPTION
DRINKING FOUNTAIN (ACCESSIBLE)	3/4" SCH 80 PVC (IAPMO IS 3-93 E1)	HAWS co model 3150FR, DUAL HEIGHT, LEAD-FREE STAINLESS STEEL BUBBLER, BARRIER FREE, TAN CONCRETE AGG. PEDESTAL D.F., COMPLETE W/ VANDAL RESISTANT HOSE BIBB VACUUM BREAKER AND LOOSE "TEE" KEY.

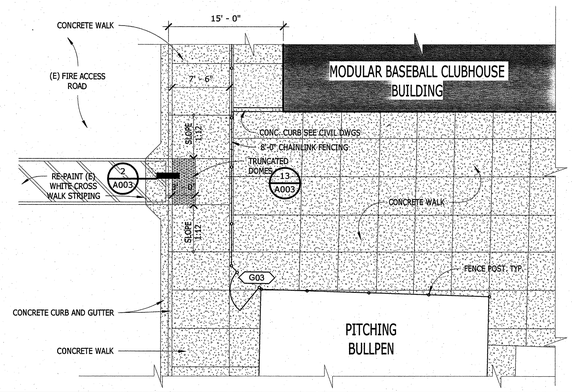


ACC. DRINKING FOUNTAIN



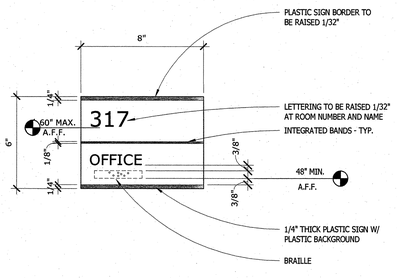
N.T.S.

DRINKING FOUNTAIN 1/4" = 1'-0" 11



NOTE:
REFER TO CIVIL PLANS FOR GRADING AND DRAINAGE PLANS AND DETAILS

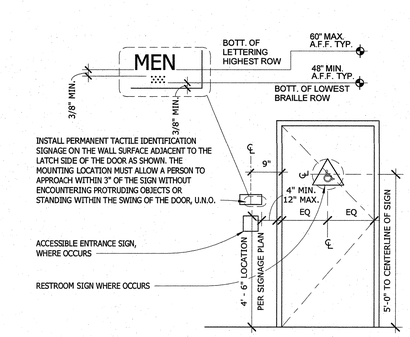
ENLARGED CURB RAMP PLAN 1/8" = 1'-0" 3



A

NOTE: REFER TO DETAIL 13/A002 AND ATTACHED APPROVED PC A# 04-117866 FOR ALL SIGN DESIGN AND ACCESSIBILITY REQUIREMENTS

ROOM SIGNAGE 3" = 1'-0" 17

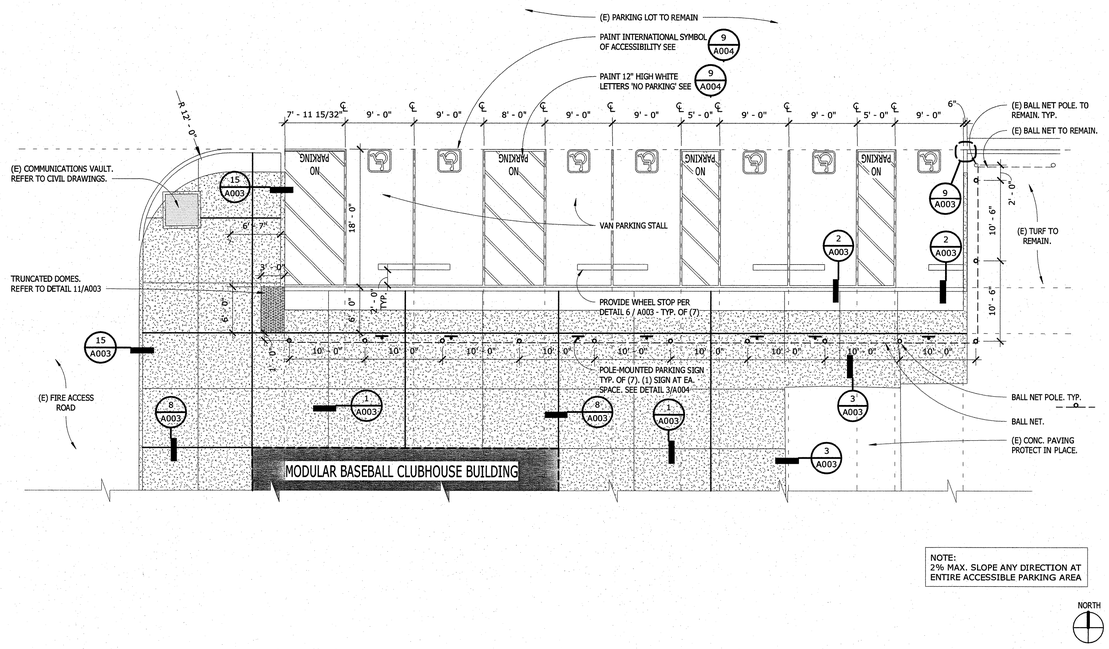


NOTES:

1. SIGN MATERIAL SHALL BE MIN. 1/4" THICK ACRYLIC PLASTIC WITH SURFACE PAINTED FINISH. SIGN GRAPHICS, NUMBERS AND LETTERS SHALL BE RAISED 1/32" .
2. LETTERS SHALL BE BETWEEN 5/8" MIN. AND 2" MAX. HIGH UPPER CASE ARIAL NARROW REGULAR FONT TYPE.
3. TACTILE SIGN LOCATIONS SIGN SHALL BE ACCOMPANIED BY CALIF. CONTRACTED GRADE 2 BRAILLE WITH CHARACTER TYPE AND HEIGHT PER APPROVED PC A#04-117866.
4. INSTALL ALL ROOM NAME/NUMBER SIGNAGE ON WALL AT EXTERIOR SIDE OF ROOM U.N.O.
5. SIGN BACKGROUND SHALL HAVE A 70% MIN. CONTRAST COLOR W/ TEXT LETTERS AND BORDER W/ NON GLARE FINISH.
6. VERIFY SIGN COLOR, ROOM NAME AND ROOM NUMBER WITH OWNER.

SEE ATTACHED DSA APPROVED PC A#04-117866 FOR SIGNAGE LOCATIONS NOTED ON FLOOR PLAN

ROOM SIGNAGE NOTES 1/2" = 1'-0" 13



NOTE:
2% MAX. SLOPE ANY DIRECTION AT ENTIRE ACCESSIBLE PARKING AREA

NORTH

ENLARGED ACCESSIBLE PARKING SITE PLAN 1/8" = 1'-0" 1

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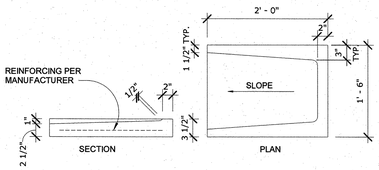
AC 00 FLS 01 SS
DATE APR 02 2019

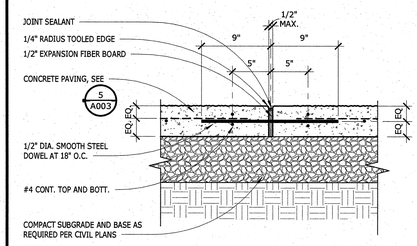
SHEET DESCRIPTION:
ENLARGED PLANS, GATE SCHEDULE AND DETAILS

SHEET NO:
A002

DSA APPROVAL PLANS 04/02/2019



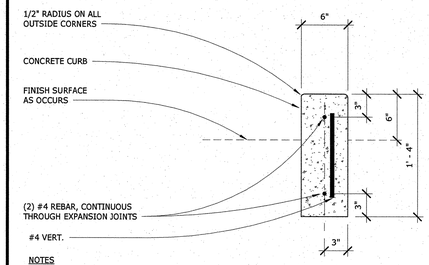
CONC. SPLASH BLOCK 1" = 1'-0" 16



NOTES:

1. DOWELED CONSTRUCTION JOINT NOT TO EXCEED 15' O.C.
2. DOWELS SHALL BE GREASED TO PREVENT CONCRETE BOND
3. DOWELS SHALL BE HELD LEVEL AND PARALLEL TO ONE ANOTHER BY POSITIVE MECHANICAL MEANS
4. DOWEL SHALL BE SMOOTH CUT, NOT SHEARED

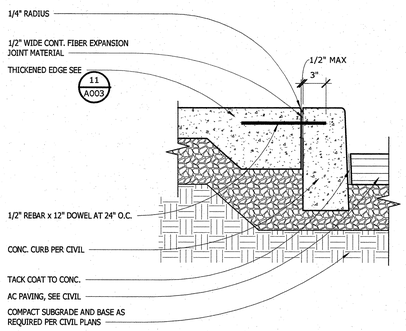
EXPANSION JOINT - TYP. 1 1/2" = 1'-0" 8



NOTES

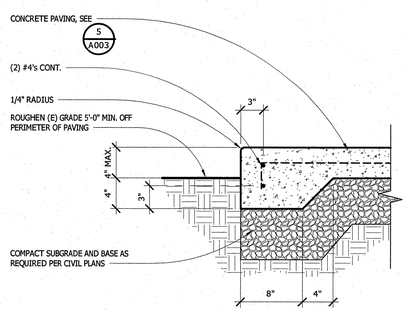
1. INSTALL 1/2" FIBER EXPANSION JOINTS AT 24'-0" MAX., INCLUDING ALL CURVES, TANGENTS, AND CORNERS.
2. SACK FINISH ALL EXPOSED SURFACES SMOOTH.

CONCRETE CURB (STRAIGHT) 1 1/2" = 1'-0" 4

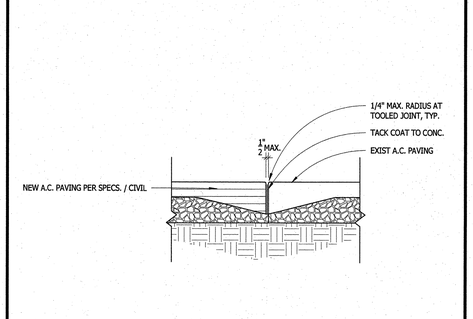


REFER TO CIVIL DETAILS FOR MORE INFORMATION

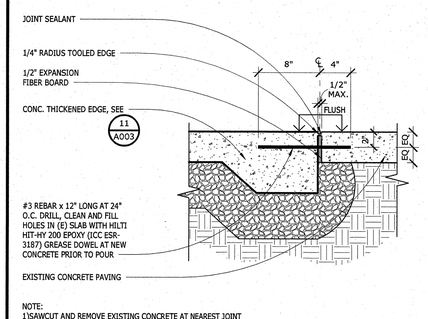
CONC. PAVING AT CURB 1 1/2" = 1'-0" 15



THICKENED EDGE AT PLANTER 1 1/2" = 1'-0" 11

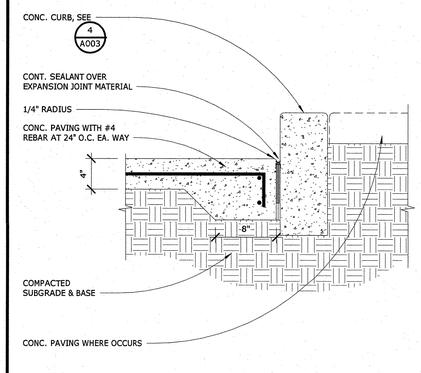


(N) A.C. PAVING TO (E) A.C. PAVING 1" = 1'-0" 7

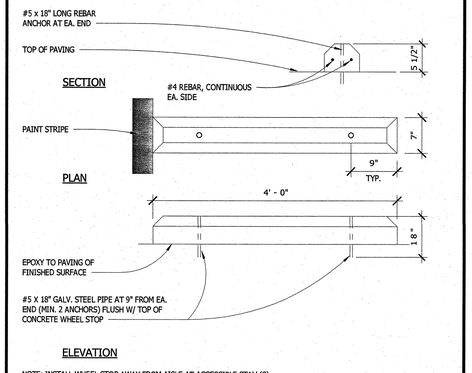


NOTE:
1)SAWCUT AND REMOVE EXISTING CONCRETE AT NEAREST JOINT
2) SURFACE 2% MAX. IN ALL DIRECTIONS

(N) CONCRETE TO (E) 1 1/2" = 1'-0" 3

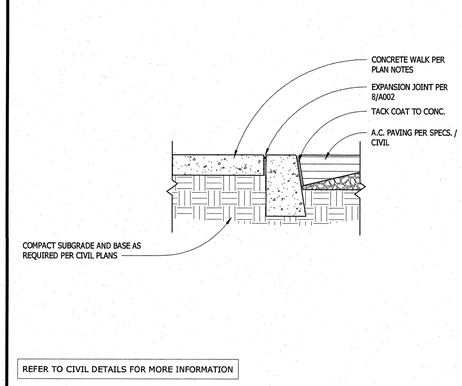


CONC. CURB AT SIDEWALK 1 1/2" = 1'-0" 10



NOTE: INSTALL WHEEL STOP AWAY FROM AISLE AT ACCESSIBLE STALL(S)

CONC. WHEEL STOP 1" = 1'-0" 6



REFER TO CIVIL DETAILS FOR MORE INFORMATION

A.C. TO CONC. PAVING (ZERO CURB) 1" = 1'-0" 2

TRUNCATED DOMES WARRANTY

DSA WILL PROVISIONALLY ACCEPT A WRITTEN FIVE (5) YEAR PRODUCT WARRANTY PROVIDED BY THE MANUFACTURER OF DETECTABLE WARNINGS AND DIRECTIONAL SURFACE PRODUCTS AS EQUIVALENT TO THE EVALUATION AND PRODUCT APPROVAL PROGRAM.

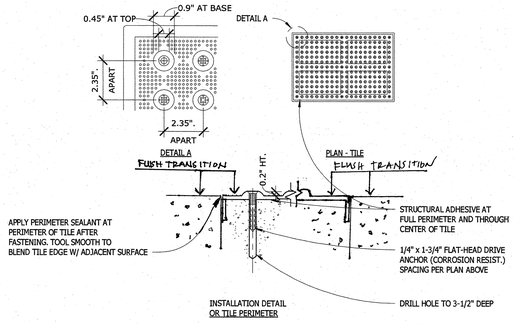
SUCH WARRANTY SHALL INDICATE COMPLIANCE WITH ARCHITECTURAL STANDARDS AS PUBLISHED IN THE CURRENT EDITION OF THE CALIFORNIA BUILDING STANDARDS CODE, AND ALSO INCLUDE DURABILITY CRITERIA WHICH INDICATES THAT THE SHAPE, COLOR FASTNESS, CONFIRMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE AND ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY FOR AT LEAST FIVE(5) YEARS AFTER INITIAL INSTALLATION.

"NOT DEGRADE SIGNIFICANTLY" MEANS THAT THE PRODUCT MAINTAINS AT LEAST 90 PERCENT OF ITS APPROVED DESIGN CHARACTERISTICS, AS DETERMINED BY THE ENFORCING AGENCY.

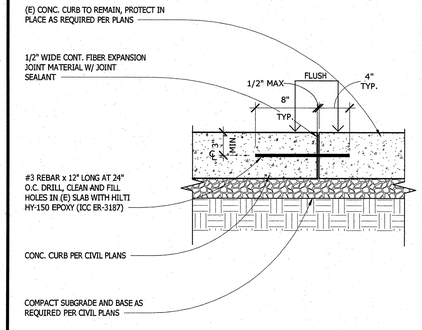
NOTES:

1. WHEN USING TRUNCATED DOME TILE PRODUCTS; DEMONSTRATE THAT DOME SPACING WILL BE CONSISTENT AS SPECIFIED ACROSS TILE JOINTS WHEN THE PRODUCT IS INSTALLED. THE ACCEPTED RANGE FOR IN-LINE TRUNCATED DOMES IS 2.35" ON CENTER.

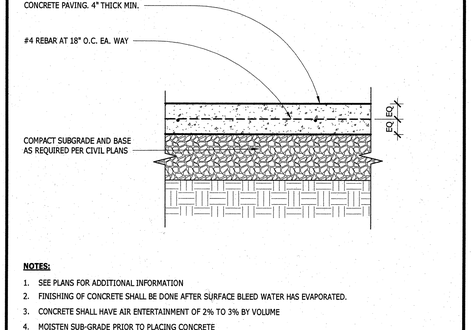
2. PROVIDE YELLOW COLOR #33538 PER FED STD 595C



TACTILE WARNING SURFACING — INSET 3" = 1'-0" 13



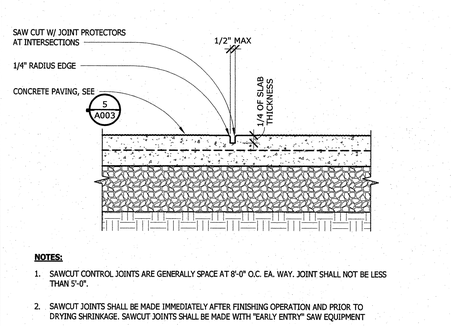
(N) CONC. CURB TO (E) CURB 1 1/2" = 1'-0" 9



NOTES:

1. SEE PLANS FOR ADDITIONAL INFORMATION
2. FINISHING OF CONCRETE SHALL BE DONE AFTER SURFACE BLEED WATER HAS EVAPORATED.
3. CONCRETE SHALL HAVE AIR ENTERTAINMENT OF 2% TO 3% BY VOLUME
4. MOISTEN SUB-GRADE PRIOR TO PLACING CONCRETE
5. FILLS SHALLS BE COMPACTED THROUGHOUT TO A MINIMUM RELATIVE COMPACTION OF 90%.

CONCRETE PAVING 1 1/2" = 1'-0" 5



NOTES:

1. SAWCUT CONTROL JOINTS ARE GENERALLY SPACE AT 8'-0" O.C. EA. WAY. JOINT SHALL NOT BE LESS THAN 5'-0".
2. SAWCUT JOINTS SHALL BE MADE IMMEDIATELY AFTER FINISHING OPERATION AND PRIOR TO DRYING SHRINKAGE. SAWCUT JOINTS SHALL BE MADE WITH "EARLY ENTRY" SAW EQUIPMENT

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

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JOB NO: 16034
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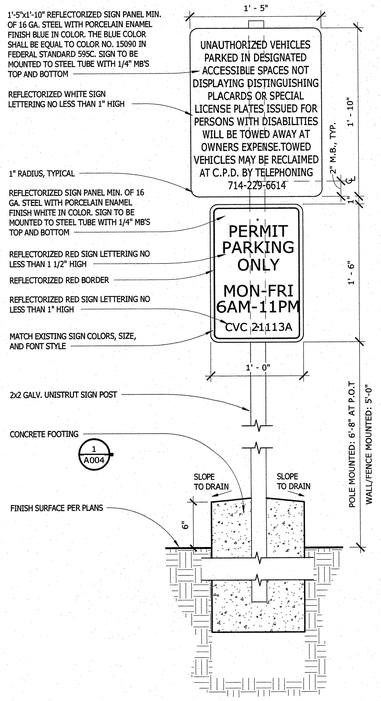
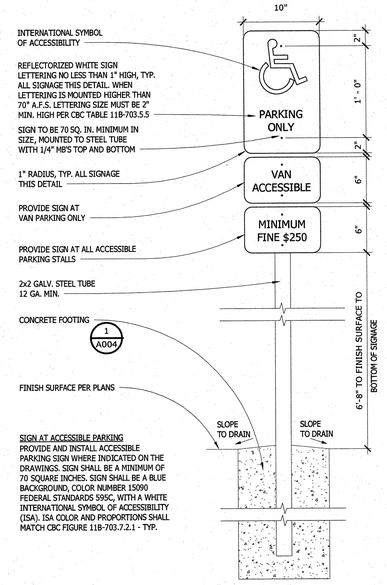
AC 5 FLS DT SS
DATE APR 02 2019

SHEET DESCRIPTION:
SURFACE DETAILS

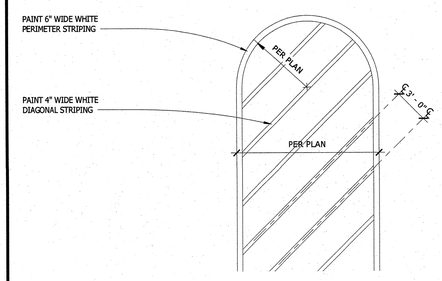
SHEET NO:
A003



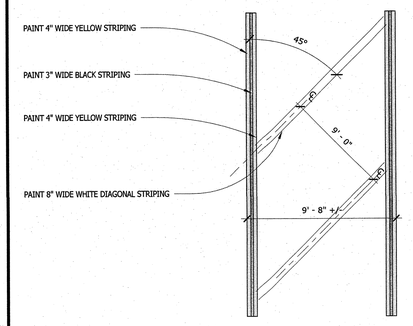
SITE ENTRY TOW-AWAY SIGN 1 1/2" = 1'-0" 7



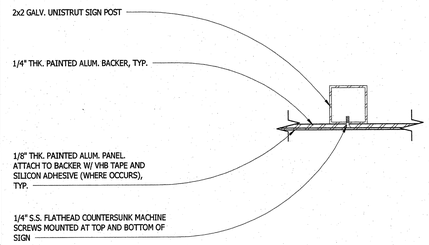
ACCESSIBLE PARKING SIGN 1 1/2" = 1'-0" 3



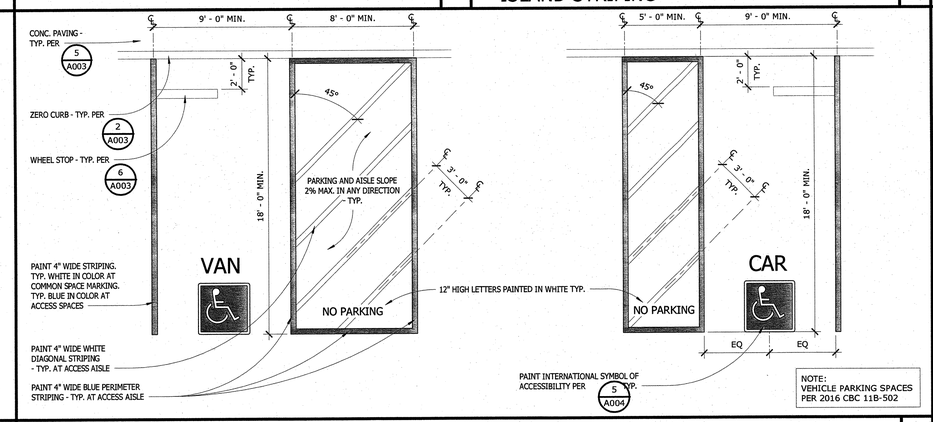
ISLAND STRIPING 3/16" = 1'-0" 10



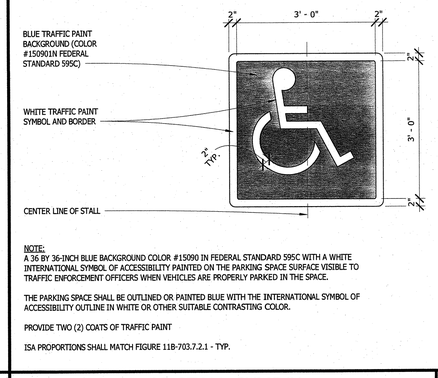
CROSSWALK STRIPING 3/16" = 1'-0" 6



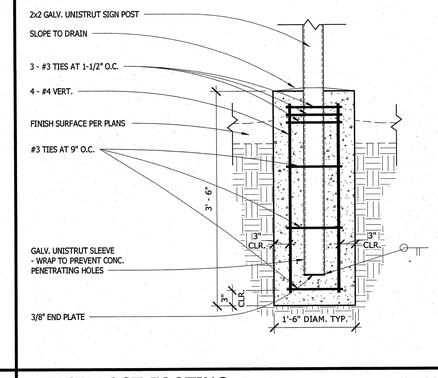
SIGN MOUNTING 3" = 1'-0" 2



TYPICAL ACCESSIBLE PARKING PLAN 1/4" = 1'-0" 9



ACCESS. PRK'G STALL SYMBOL 3/4" = 1'-0" 5



SIGN POST FOOTING 1" = 1'-0" 1

westbergwhite architecture
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LICENSED ARCHITECT PAUL D. WESTBERG JR. STATE OF CALIFORNIA

CONSULTANT:

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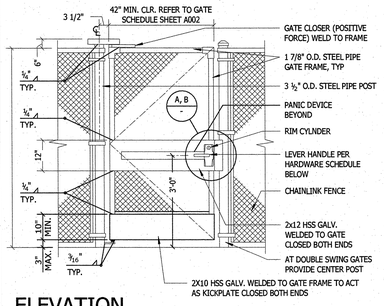
DATE APR 0 2 2019

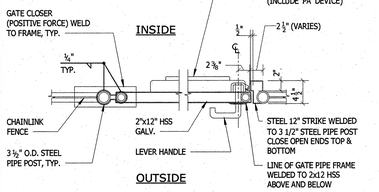
SHEET DESCRIPTION:
SURFACE STRIPING AND SIGNAGE DETAILS

SHEET NO:
A004

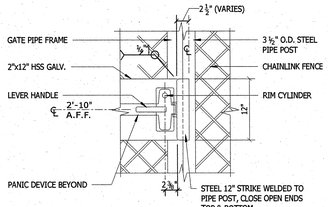
DSA APPROVAL PLANS 04/02/2019



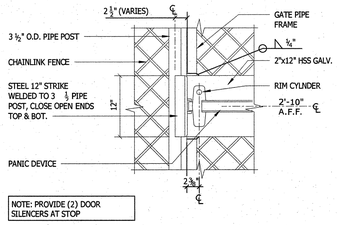
ELEVATION



PLAN



B. OUTSIDE STRIKE ELEV.



NOTE: PROVIDE (2) DOOR SILENCERS AT STOP

A. INSIDE STRIKE ELEV.

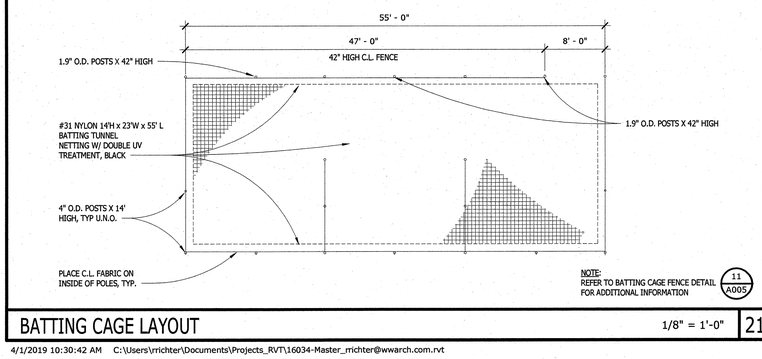
HARDWARE SCHEDULE

SINGLE SWING GATES:					
1	EA	PANIC HARDWARE	AX-98L x 996L 06 x WH-PA	630	VON DUPRIN
1	EA	RIM CYLINDER	20-022	630	SCHLAGE
DOUBLE SWING GATES:					
2	EA	PANIC HARDWARE	AX-98L x 996L 06 x WH-PA	630	VON DUPRIN
2	EA	RIM CYLINDER	20-022	630	SCHLAGE

REFER TO SECTION 32 1313 FOR STANDARD GATE HINGES AND SELF-CLOSING HINGE

NOTES:
1. DOOR CLOSER (CLOSER SHALL BE 5 LBS MAX, PRESSURE, 3 SECOND DELAYS FROM 90-70 DEG.)
2. GATE FRAME, SUPPORTS AND FENCING TO BE GALVANIZED
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR FENCE AND GATE MATERIALS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
4. GATE PANIC HARDWARE RELEASE PER 23/-
5. REFER TO 3/- FOR DETAIL INFORMATION NOT PROVIDED WITHIN THIS DETAIL

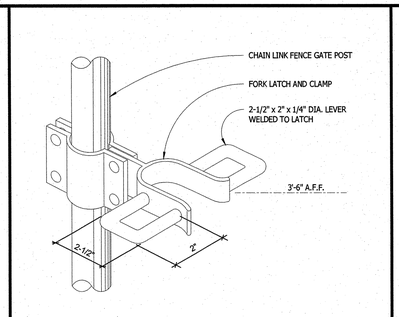
ACCESSIBLE CHAINLINK GATE 1" = 1'-0" | 24



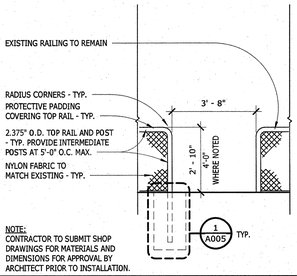
GATE PANIC HARDWARE RELEASE 3" = 1'-0" | 23

PITCHERS MOUND 1/4" = 1'-0" | 22

BATTING CAGE LAYOUT 1/8" = 1'-0" | 21



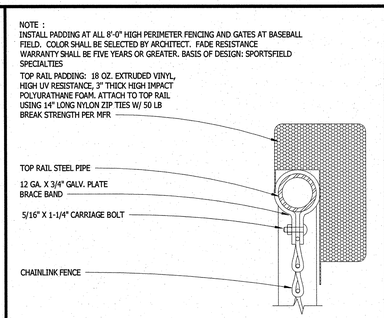
FORK LATCH DETAIL 12" = 1'-0" | 20



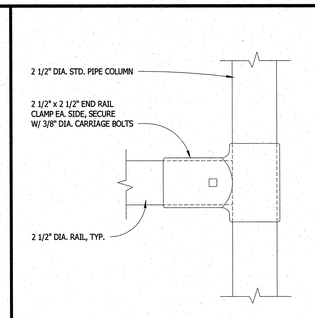
HANDRAIL AT DUGOUT 3/8" = 1'-0" | 19

CHAIN LINK DOUBLE GATE 3/8" = 1'-0" | 18

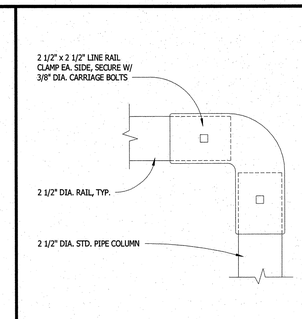
PITCHING BULLPEN LAYOUT 1/8" = 1'-0" | 16



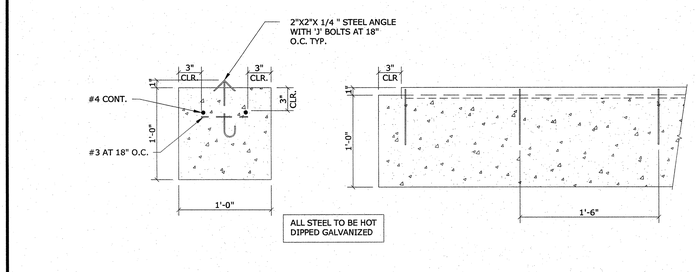
CHAINLINK TOP RAIL PROTECTION 3" = 1'-0" | 15



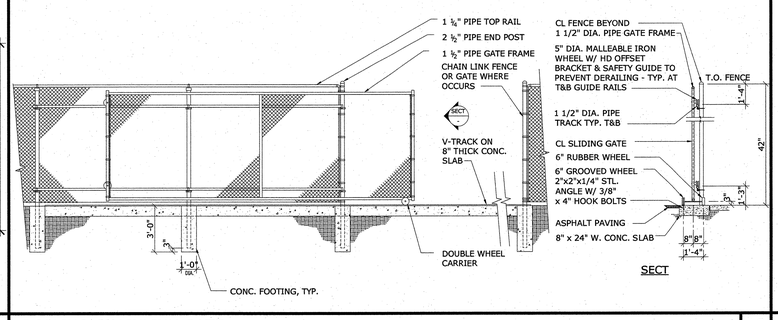
CHAINLINK MID RAIL CONNECTION 3" = 1'-0" | 10



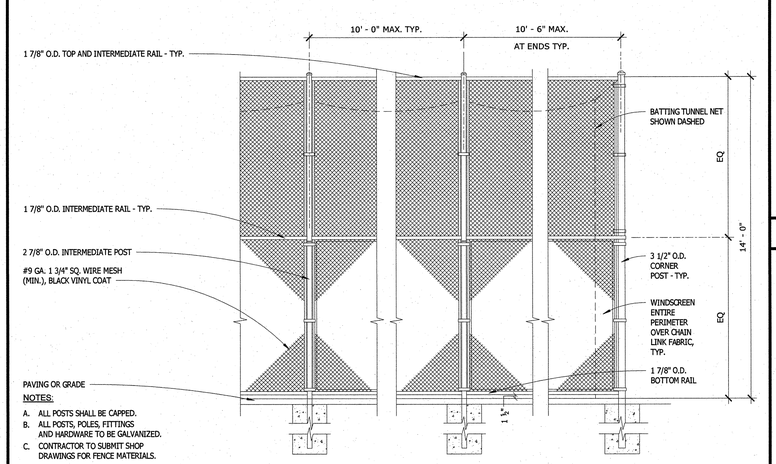
CHAINLINK CORNER CONNECTION 3" = 1'-0" | 5



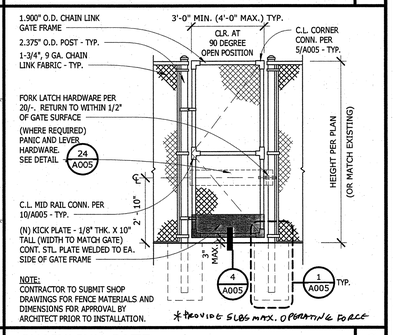
ROLLING GATE V-TRACK 1 1/2" = 1'-0" | 9



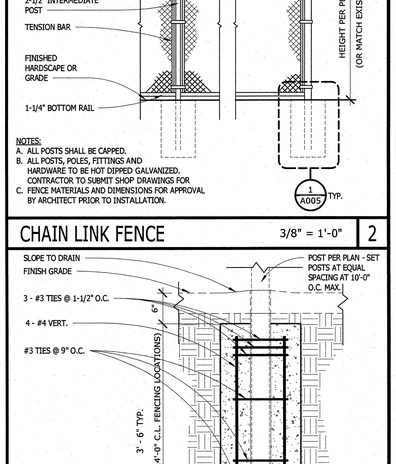
ROLLING CHAINLINK GATE 1/4 N.T.S. | 13



CHAIN LINK FENCE AND GATE (AT PITCHING CAGE) 3/8" = 1'-0" | 11



CHAINLINK GATE 3/8" = 1'-0" | 3



CHAIN LINK FENCE 3/8" = 1'-0" | 2

FENCE POST FOOTING 1" = 1'-0" | 1

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04-02-19
DRAWN:
CHECK:
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

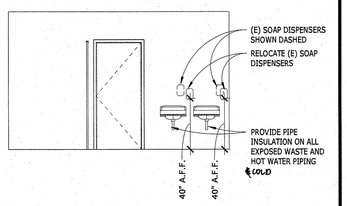
CONSULTANT:

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS RT SS
DATE APR 02 2019

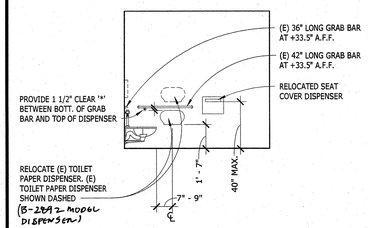
SHEET DESCRIPTION:
SITE CHAINLINK DETAILS

SHEET NO:
A005

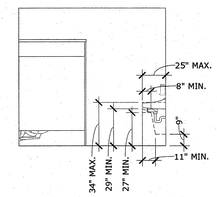
DSA APPROVAL PLANS 04/02/2019



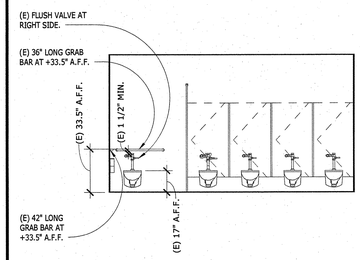
MEN 1/4" = 1'-0" 9



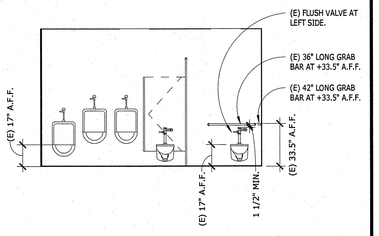
MEN 1/4" = 1'-0" 8



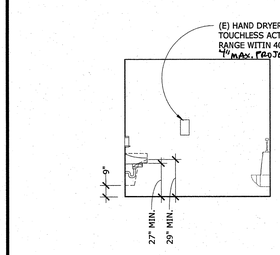
WOMEN 1/4" = 1'-0" 5



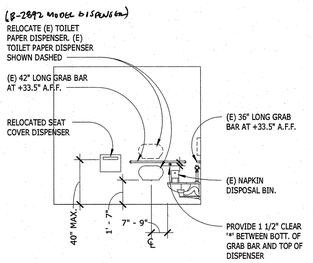
WOMEN 1/4" = 1'-0" 4



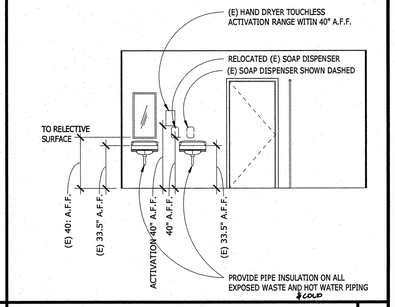
MEN 1/4" = 1'-0" 7



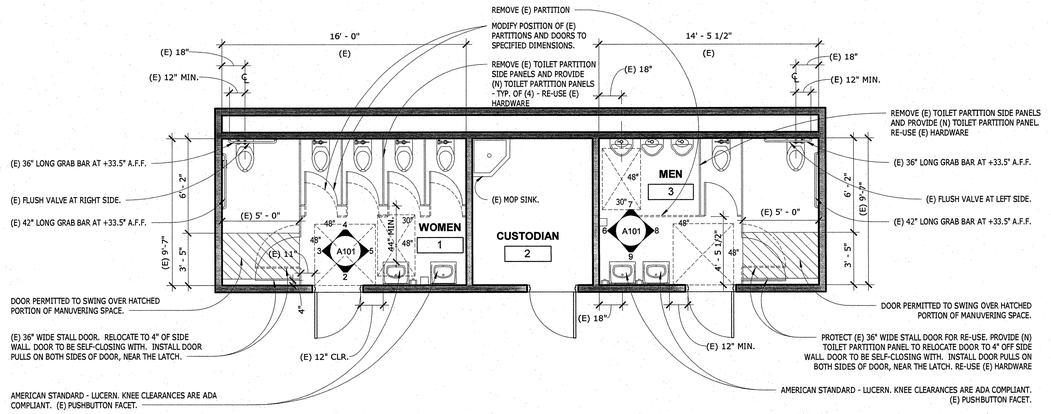
MEN 1/4" = 1'-0" 6



WOMEN 1/4" = 1'-0" 3



WOMEN 1/4" = 1'-0" 2



NOTE:
ADJUST (E) DOOR CLOSER(S) TO PROVIDE 5 LBS MAX. OPERATION FOR (2) (E) RESTROOM DOORS.

EXISTING TOILET BUILDING FLOOR PLAN 1/4" = 1'-0" 1

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
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CONSULTANT:

PROJECT NAME:

Cypress College
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STATE:

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OFFICE OF REGULATION SERVICES
APP NO:04-117630
FILE NO:30-C1
AC FLS SS
DATE APR 02 2019

DSA APPROVAL PLANS 04/02/2019

SHEET DESCRIPTION:
EXISTING TOILET BUILDING ACCESSIBILITY FLOOR PLAN

SHEET NO:
A101

SKC COMPANY

18966 SEATON AVE

PERRIS, CA. 92570

CONCRETE FOUNDATION PLANS FOR 40'X60' (SINGLE STORY)

NORTH ORANGE COUNTY CCD CYPRESS COLLEGE

SYMBOLS LEGEND

GRID LINE

SECTION
SECTION IDENTIFICATION
SHEET WHERE SECTION IS DRAWN

ELEVATION
ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS DRAWN

DETAIL
DETAIL IDENTIFICATION
SHEET WHERE DETAIL IS DRAWN

INTERIOR ELEVATIONS
ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS DRAWN

DOOR SYMBOL
DOOR DESIGNATION
SPACE

WINDOW SYMBOL
WINDOW TYPE

ROOM NUMBER
ROOM NUMBER
FLOOR NUMBER (IF MORE THAN ONE)

REVISION
CLOUD AROUND REVISED AREA OPTIONAL

DATUM POINT

KEYNOTE

WALL TYPE

APPLICABLE CODES

BUILDING CODE:

ALL WORK SHALL COMPLY AND CONFORM TO THE REQUIREMENTS OF THE 2016 CBC AND ORDINANCES OF ALL LOCAL CODES AND AUTHORITIES

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS:

- 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.(2015 INTERNATIONAL BUILDING CODE VOLUMES 1–2 AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2016 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R (2016 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

DESIGN DATA

DESIGN DATA:

ROOF LIVE LOAD = 20 PSF REDUCIBLE FOR TRIBUTARY AREA

FLOOR LIVE LOAD = 150 PSF

WIND LOAD DATA:

1. ULTIMATE DESIGN WIND SPEED = 110MPH
2. RISK CATEGORY = II
3. WIND EXPOSURE = C
4. INTERNAL PRESSURE COEFFICIENT = ± 0.18
5. Kzt = 1.0

SEISMIC DESIGN DATA:

1. RISK CATEGORY II
2. I_E = 1.0
3. S_S = 1.5 F_a=1.0 S_{MS}=1.5
4. S_1 = 0.563 F_V=1.5 S_{M1}=0.844
5. SITE CLASS = D
6. S_{DS} = 1.0
7. S_{D1} = 0.563
8. C_S = 0.286
9. R = 3.5
10. ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE
11. SEISMIC DESIGN CATEGORY = D
12. BASIC SEISMIC–FORCE–RESISTING SYSTEM = STEEL MOMENT FRAME
13. BASE SHEAR = 32,430 POUNDS
14. NO HORIZONTAL OR VERTICAL IRREGULARITIES PRESENT

SOIL DATA:

1. ALLOWABLE SOIL BEARING: 1500 PSF
2. MODULUS OF SUBGRADE REACTION: 100 PCI

FLOOD DESIGN DATA:

PROJECT IS NOT LOCATED IN A FLOOD ZONE. COMPLY WITH DSA PR–14–01 SECTION 2.2 FOR REQUIRED DOCUMENTATION.

WILDLAND URBAN INTERFACE (WUI) AREAS:
CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, 14AS REQUIRED BY SECTION 4–338, PART 1, TITLE 24, CCR.

SHEET INDEX

SHEET INDEX

F–1	COVER SHEET / DESIGN CODES APPLICABLE DATA / LEGENDS AND SYMBOLS BUILDING DATA / GENERAL NOTES
F–2	STRUCTURAL NOTES
F–3	STRUCTURAL NOTES
F–4	FOUNDATION PLAN FOR 40'X60' (SINGLE–STORY)
F–5	TYPICAL CONCRETE DETAILS
F–6	TYPICAL CONCRETE DETAILS
F–7	TYPICAL CONCRETE DETAILS

GENERAL NOTES

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND ARE A REPRESENTATION OF EXISTING CONDITIONS AT A DETAIL REQUIRED BY THE SCOPE OF THE ARCHITECT'S SERVICES. THE ARCHITECT HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION INCLUDING BORING OR CORING OF STRUCTURAL AND/OR NON–STRUCTURAL ELEMENTS, MEASUREMENTS, ETC. AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT. THE ARCHITECT HAS NOT CONDUCTED ANY CODE COMPLIANCE ANALYSIS, STRUCTURAL ANALYSIS, ASBESTOS INVESTIGATION, LIFE SAFETY EVALUATION ENGINEERING STUDIES OF ANY KIND TO DETERMINE THE SUITABILITY OF THIS BUILDING FOR ITS INTENDED USE. SUBSEQUENTLY THE ARCHITECT DOES NOT REPRESENT THAT THESE DOCUMENTS ILLUSTRATE EXISTING CONDITIONS THAT COMPLY WITH ANY OR ALL APPLICABLE CODES. THE DISCOVERY OF ANY DEFICIENCY IN THE BUILDING AND/OR SITE, INCLUDING THE PRESENCE OF ASBESTOS, SHALL BE IMMEDIATELY REPORTED TO THE PROPERTY OWNER WHO SHALL BE RESPONSIBLE TO DIRECT HIS CONTRACTOR AND/OR CONSULTANTS IN THE APPROPRIATE MANNER.

LIST OF APPLICAPBEL STANDARDS

NFPA STANDARDS:

- 2016 CALIFORNIA BUILDING CODE (FOR SFM) NATIONAL STANDARDS SECTION 3504.13
- 2016 EDITION NFPA 13–AUTOMATIC SPRINKLER SYSTEMS
- 2016 EDITION NFPA 14–STANDPIPE SYSTEMS
- 2013 EDITION NFPA 17A–WET CHEMICAL SYSTEMS
- 2016 EDITION NFPA 24–PRIVATE FIRE MAINS
- 2016 EDITION NFPA 72 (CALIFORNIA AMENDED) NATIONAL FIRE ALARM CODES
- 2016 EDITION NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES
- 2016 EDITION NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS
- 2015 EDITION NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS
- 2015 EDITION ICC 300 ICC STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS
- 2005 EDITION UL300 FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREA
- 2003 EDITION UL 464 AUDIBLE SIGNAL APPLIANCES
- 1999 EDITION UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

REFERENCE CODE SECTION FOR NFPA STANDARDS 2016 CBC (SFM) CHAPTER 35, SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS BT SS
DATE: APR 02 2019

SKC COMPANY
13517 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279906 DEALER # DLC279906
SC LIC # 992118 SBE CERTIFIED

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PROJECT NAME:
NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:
COVER SHEET

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD
M.R.H.
STRUCTURAL ENGINEERS
3400 Irvine Ave., Ste. 101
Newport Beach, CA 92660
MRH_SE@SBCGLOBAL.NET
T: (714) 633-6302

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. MAHTI
NO. 3545
STRUCTURAL
STATE OF CALIFORNIA
03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1 -
2 -
3 -
4 -
5 -
6 -
7 -
8 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 03-29-2019

SHEET NUMBER
F-1

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360–10 AND THE "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" AISC 341–10.

2. STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS (U.N.O.):

   A. ANGLES AND CHANNELS – ASTM 36, GRADE 36, Fy=36 KSI
   B. PLATES – ASTM 572, GRADE 50, Fy=50 KSI
   C. WIDE FLANGES – ASTM A992 OR ASTM A572 GRADE 50, Fy=50 KSI
   D. STRUCTURAL TUBES (HSS) – ASTM A500, GRADE B, Fy=46 KSI
   E. STRUCTURAL BOLTS – ASTM A325–PT (PRE–TENSIONED)
   F. NUTS – ASTM A563 GALV., GRADE DH
   H. WASHERS – ASTM F436 GALV., TYPE 1
   G. ANCHOR BOLTS – ASTM F1554 GALV, GRADE 55

3. ALL WELDING SHALL BE PERFORMED BY EXPERIENCED, CERTIFIED WELDERS USING THE ELECTRIC ARC WELDING PROCESS, E70XX SERIES ELECTRODES FOR WELDING STRUCTURAL STEEL. WELDING SHALL CONFORM TO AISC AND AWS STANDARDS.

4. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELD SHALL BE BASED ON AISC STANDARDS FOR THINNER PART JOINED.

5. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED.

6. ALL COPES SHALL BE SAWCUT, UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER IN WRITING.

7. ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND CONNECTORS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. WHERE THE HOT DIP GALVANIZING IS DAMAGED OR REMOVED DURING CONSTRUCTION, REPAIR WITH AN APPROVED COLD GALVANIZING PAINTING SYSTEM IN ACCORDANCE WITH ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

8. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS OF ALL STEEL FOR STRUCTURAL ENGINEER–OF–RECORD REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION SHALL BE PERFORMED IN A SHOP APPROVED BY CITY OF WHITTIER. CONTRACTOR SHALL NOT ERECT ANY STRUCTURAL STEEL UNTIL THE SHOP DRAWINGS APPROVED BY THE STRUCTURAL ENGINEER–OF–RECORD ARE RECIEVED AT THE JOB SITE. SHOP AND ERECTION DRAWINGS SHALL CONTAIN ALL INFORMATION NECESSARY TO ERECT ALL STRUCTURAL STEEL IN THE FIELD WITHOUT HAVING TO REFER TO STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTION OF THE STRUCTURAL DRAWINGS.

9. SUBMITTALS: STRUCTURAL STEEL SHOP DRAWINGS, WELDING PROCEDURE SPECIFICATIONS (WITH CWI STAMP AND SIGNATURE), MATERIAL MILL CERTIFICATES, AND WELDER QUALIFICATIONS.

10. WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V–NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION:
    LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT–LB AT 0 DEGREE F
    COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT–LB AT 40 DEGREE F
    SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

11. WELD INSPECTION:
    A. PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS.
    B. CONTINUOUS INSPECTION FOR OTHER WELDS.
    C. NONDESTRUCTIVE TESTING (NDT):
       ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT REQUIRED FOR MATERIALS LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED PROVISIONS SET FORTH IN SECTION N5.5e, AISC–360 IS MET.
       MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM–TO–COLUMN CJP GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS SET FORTH IN J6.2g, AISC–341 IS MET.

CAST–IN–PLACE CONCRETE

1. CONCRETE PLACEMENT AND QUALITY SHALL BE DESIGNED IN ACCORDANCE WITH CHAPTER 19A OF THE 2016 CBC ACI 318–14 AND ACI 336.3.

2. ALL CEMENT SHALL CONFORM TO ASTM C–150, TYPE II/V.

3. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C–33 FOR NORMAL WEIGHT CONCRETE. PEA GRAVEL IS NOT ACCEPTABLE UNLESS NOTED OTHERWISE.

4. ALL AGGREGATE SHRINKAGE SHALL BE IN ACCORDANCE WITH ASTM C–157 WITH AN AVERAGE DRYING SHRINKAGE AT 28 DAYS NOT EXCEEDING 0.06%.

5. CONCRETE QUALITY:

CONCRETE USE	CONC. STRENGTH f'c AT 28 DAYS	MAXIMUM WATER/ CEMENT	MAX. SLUMP	MAXIMUM AGGRE. SIZE	WEIGHT
STEM WALL PEDESTALL, MAT FOUNDATION AND FOUNDATION	5000 PSI	0.4	4"	3/4"	NORMAL WEIGHT (145 PCF)
ALL OTHER STRUC–TURAL CONCRETE	5000 PSI	0.4	4"	3/4"	NORMAL WEIGHT (145 PCF)

   5.1. CONCRETE MIX DESIGN SHALL BE PER THE 2016 CBC AND ACI 318–14.MIXING AND TRANSPORTING SHALL COMPLY WITH REQUIREMENTS FOR TRUCK–MIXED CONCRETE.

6. WATER CONTENT SHALL NOT EXCEED FIVE (5) GALLONS PER SACK OF CEMENT.

7. FLYASH IS NOT ACCEPTABLE UNLESS PREVIOUSLY REVIEWED BY THE STRUCTURAL ENGINEER.

8. GROUTING UNDER STEEL BASE PLATES AND TOP PLATES SHALL BE "MASTERFLOW 928," PRECISION NON–SHRINK GROUT MANUFACTURED BY MASTER BUILDERS, INC. OR APPROVED EQUAL. MATERIAL APPLICATION PER MANUFACTURER'S RECOMMENDATION.

9. ANCHOR BOLTS, DOWELS, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO FOUNDATION INSPECTION AND PLACING CONCRETE.

10. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION CONTINUOUSLY FOR THE FIRST 10 DAYS AFTER PLACEMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

11. WHERE NEW CONCRETE IS TO BE PLACED AGAINST HARDENED CONCRETE, CONCRETE SURFACES SHALL BE ROUGHENED TO AN AMPLITUDE OF 1/4–INCH CLEAN EXPOSED AGGREGATE AND FREE OF LAITANCE PRIOR TO SECOND POUR. TYPICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS.

12. CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.

13. ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. WHEN 'SUCH CONSENT IS ROVIDED, ADMIXTURES SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

14. READY–MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94.

15. ALL CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS,

16. PIPES, DUCTS, SLEEVES, CONDUITS, ETC. SHALL NOT BE PLACED THROUGH CONCRETE UNLESS SHOWN ON THE STRUCTURAL PLANS OR WITH WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

17. SUBMITTALS: FOR ALL CONCRETE MIX DESIGNS AND CYLINDER TEST REPORTS. CONCRETE MIX DESIGN SHALL BE STAMPED AND SIGNED BY A LICENSED CIVIL ENGINEER.

POST–INSTALLED ANCHOR TESTING

1. ALL POST INSTALLED ANCHORS SHALL BE INSTALLED PER THEIR CORRESPONDING ICC AND RESEARCH REPORT.

2. ALL POST INSTALLED ANCHORS EXCEPT UNDERCUT ANCHORS SHALL BE TESTED.

3. TEST LOADS: REQUIRED TEST LOADS SHALL BE DETERMINED BY ONE OF THE FOLLOWING METHODS:
   A. TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1 1/4) TIMES THE MAXIMUM DESIGN STRENGTH OF ANCHORS AS PROVIDED IN INTERNATIONAL CODE COUNCIL – EVALUATION SERVICE REPORT (ICC–ESR) OR DETERMINED IN ACCORDANCE WITH APPENDIX D OF ACI 318. TENSION TEST LOAD NEED NOT EXCEED 80 PERCENT OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT (=$0.8A_{se}$ f_{ya}).
   B. THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED IN AN ICC–ESR.

4. TEST ACCEPTANCE CRITERIA: ACCEPTANCE CRITERIA FOR POST–INSTALLED ANCHORS SHALL BE BASED ON ICC–ESR OR MANUFACTURER'S WRITTEN INSTRUCTION, ACCEPTABLE TO THE ENFORCEMENT AGENCY. FIELD TEST SHALL SATISFY FOLLOWING MINIMUM REQUIREMENTS.
   A. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, e.g. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURRING.
   B. TORQUE WRENCH METHOD: 1 ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 2 TURN OF THE NUT. EXCEPTIONS:
      a. WEDGE OR SLEEVE TYPE: ONE QUARTER (1/4) TURN OF THE NUT OR 3/8" SLEEVE ANCHOR ONLY.
      b. THREADED TYPE: ONE QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

5. THE TEST PROCEDURES FOR EXPANSION–TYPE ANCHORS SHALL ALSO BE USED FOR EPOXY–TYPE (ADHESIVE) ANCHORS. TORQUE TESTING OF EPOXY–TYPE (ADHESIVE) ANCHORS AND UNDERCUT ANCHORS IS NOT PERMITTED.

6. THE TENSION TESTING OF THE POST–INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHORS FAIL THE TENSION–TESTING REQUIREMENTS, REFER TO THE ACI 318 APPENDIX D, APPROVED ICC EVALUATION REPORTS.

7. ALL POST INSTALLED ANCHORS SHALL HAVE SPECIAL INSPECTION.

FOUNDATION NOTES

1. ALL SITE WORK, EXCAVATION, RECOMPACTION, AND GRADING SHALL BE PERFORMED IN COMPLIANCE WITH THE SOILS REPORT AND OBSERVED BY GEOTECHNICAL SOLUTIONS INC., REPORT # SC–4842–06 . ALL RECOMMENDATION OF SOIL REPORT SHALL BE FOLLOWED EXACTLY.

2. FOOTINGS SHALL BE FOUNDED AT LEAST 24 INCHES BELOW THE LOWEST ADJACENT SOIL GRADE.

3. FOUNDATION SHALL BE PLACED ON 12 INCHES OF 95% COMPACTED FILL OVER 12 INCHES OF CRUSH ROCK AND INSPECTED PER THE SOILS REPORT.

4. ALL FILL OVER 8" IN DEPTH SHALL BE TESTED BY A LICENSED GEOTECHNICAL ENGINEER WITH A COMPACTION REPORT SUBMITTED TO THE BUILDING OFFICIAL.

5. MAXIMUM ALLOWABLE DESIGN SOIL BEARING CAPACITY IS 1500 PSF. A ONE–THIRD INCREASE ALLOWED FOR SHORT TERM LOADING.

6. EXCAVATIONS ADJACENT TO EXISTING BUILDINGS OR WALLS WHICH EXTEND BELOW AN ANGLE OF 2:1 (HORIZONTAL : VERTICAL) FROM THE BOTTOM OF THE FOOTINGS SHALL BE ADEQUATELY SHORED BY THE CONTRACTOR.

7. SEE ARCHITECTURAL AND OTHER PROJECT DRAWINGS AND COORDINATE WORK WITH OTHER TRADES WITH REGARDS TO CONDUIT AND PIPING LOCATIONS BEFORE BEGINNING EXCAVATION AND BEFORE PLACING CONCRETE.

8. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH FOOTINGS, MATS, GRADE BEAMS, AND CAISSONS.

9. COMPACTION REPORT SHALL BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOOTING INSPECTION.

10. PERIMETER WALLS ARE NOTE TO BE BACKFILLED UNTIL THE FLOOR SLABS ARE POURED AND CURED.

11. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE CONTRACTOR / GEOTECHNICAL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
    – THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT (IF APPLICABLE) OR JURISDICTIONAL STANDARDS
    – THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED
    – THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE GEOTECHNICAL REPORT (IF APPLICABLE) OR JURISDICTIONAL STANDARDS

12. THE DISTRICT SHALL BE RESPONSIBLE FOR EXCAVATION, BACKFILL, SETTING ELEVATIONS, CRANING AND RIGGING. PROVIDE SHIMS TO LEVEL BUILDING WITHIN 1/2" TOLERANCE.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A–706, GRADE 60, U.N.O.

2. ALL WELDED REINFORCING STEEL SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A1064 OR A1022.

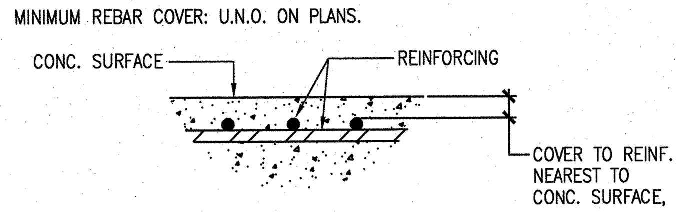
3. ALL BARS SHALL BE FREE OF LOOSE FLAKY RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND.

4. ALL BENDS SHALL BE MADE COLD.

5. SPLICING OF BARS SHALL BE IN CONFORMANCE WITH THE SCHEDULE SHOWN ON THE DRAWINGS. ALL REINFORCING STEEL SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.

6. ALL REINFORCING BARS SHALL BE ACCURATELY AND RIGIDLY HELD IN PLACE BEFORE PLACING CONCRETE. REINFORCING SUPPORTS AND SPACERS SHALL BE PROVIDED BY THE CONTRACTOR.

7. MINIMUM REBAR COVER: U.N.O. ON PLANS.



CONCRETE SECTION

SEE TABLE BELOW

DESCRIPTION	MINIMUM COVER	TOLERANCES (+ OR –)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	1/4"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS	1½"	1/4"
#6 AND LARGER BARS	2"	1/4"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: ROOF SLABS	1"	1/8"
STRUCTURAL SLABS AND WALLS	¾"	1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1½"	1/4"

8. SUBMITTALS: ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAI ANY REPRODUCTION OF THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE PLANS AND SHALL ALSO INCLUDE THE FOLLOWING INFORMATION:

   A. LAP SPLICE AND BEND LOCATIONS AS PERMITTED ON THE DRAWINGS.
   B. REINFORCING STEEL MATERIAL AND MILL TEST CERTIFICATIONS.
   C. REINFORCING STEEL LAYOUT SHALL BE COORDINATED WITH ANCHOR BOLT LOCATIONS TO AVOID CONFLICTS.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

2. DIMENSIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK.

3. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE LOCATED EITHER ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBER OTHERWISE LOCATED.

4. ALL WORK AND MATERIALS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

5. APPROVAL BY THE FIELD INSPECTOR DOES NOT MEAN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS UNCLEAR OR AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.

6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING.

7. ALL SHOP DRAWINGS SHALL BE CHECKED AND APPROVED BY THE CONTRACTOR BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER.

8. MATERIAL SUBMITTALS SHALL BE SUBMITTED TO AND APPROVED BY THE STRUCTURAL ENGINEER IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.

9. UNLESS OTHERWISE SHOWN, ALL TYPICAL DETAILS WHERE APPLICABLE, SHALL BE USED.

10. CONTRACTOR SHALL DETERMINE LOCATION OF ALL EXISTING UTILITIES IN THE AREA TO BE EXCAVATED PRIOR TO EXCAVATION AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE EXISTING UTILITIES.

11. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE SAFETY REQUIREMENTS.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS AND SEQUENCE OF CONSTRUCTION AND PERTAINING SHORING DESIGN.

13. CONTRACTOR SHALL VERIFY AND EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY ALTERATION OR CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES SHOWN IN THE DRAWINGS. CONTRACTOR SHALL AGREE TO MAKE MODIFICATIONS TO FIT EXISTING CONDITIONS. WORK SHALL BE OUTLINED AND APPROVED BY THE STRUCTURAL ENGINEER.

14. CONTRACTORS AND SUBCONTRACTORS SHALL REVIEW THIS SET OF STRUCTURAL DRAWINGS AND PROVIDE RFI'S (REQUEST FOR INFORMATION) DURING THE BIDDING PROCESS.

15. CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE ENGINEERING COST OF ANY CHANGES ON THIS SET OF DRAWINGS AND ANY NEW DETAILS DUE TO THEIR METHOD AND MEANS OF CONSTRUCTION.

SPECIAL INSPECTION

STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE IN CONFORMANCE WITH SECTION 1703A, 1704A, 1705A & 1706A OF THE BUILDING CODE. THE FOLLOWING CHECKED ITEMS SHALL REQUIRE SPECIAL INSPECTION:

ITEM	REQUIRED IF CHECKED	REMARKS
FOUNDATION OVER–EXCAVATION, COMPACTION, AND FILL. SEE SOILS REPORT.	☑	
CONCRETE REINFORCEMENT PLACEMENT	☑	
CONCRETE PLACEMENT	☑	
ANCHOR BOLT PLACEMENT AND EMBEDDED PLATES	☑	
FIELD WELDING	☑	

NOTE: IT IS THE OWNER'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHEN THESE TESTS ARE TO BE CONDUCTED. THE INSPECTOR SHALL BE EMPLOYED BY THE OWNER. ALL TEST & INSPECTIONS SHALL BE PAID FOR BY THE OWNER.

STRUCTURAL OBSERVATION PROGRAM

STRUCTURAL OBSERVATION STAGES*	
CONSTRUCTION STAGE	ELEMENTS TO BE OBSERVED
PRIOR TO START OF CONSTRUCTION	PRE–CONSTRUCTION MEETING AS INDICATED IN THE STRUCTURAL OBSERVATION NOTES ABOVE
PLACEMENT OF EMBEDMENT PLATES	ALL EMBED PLATES
PRIOR TO FOUNDATION CONCRETE POUR	STEM WALL PEDESTAL, MAT FOUNDATION REINFORCING AND ANCHOR BOLTS

*PROVIDE MINIMUM 72 HOURS ADVANCE NOTICE TO THE STRUCTURAL OBSERVER ONCE ELEMENTS ARE READY FOR OBSERVATION.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS ✓ SS
DATE APR 02 2019

SKC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
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MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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PROJECT NAME:
NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:
STRUCTURAL NOTES

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD
M.R.H.
STRUCTURAL ENGINEERS
3400 Irvine Ave., Ste. 101
Newport Beach, CA 92660
MRH_SE@SBCGLOBAL.NET
T: (714) 633-6302

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HARIRI
NO. 3545
STRUCTURAL
STATE OF CALIFORNIA
03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1 -
2 -
3 -
4 -
5 -
6 -
7 -
8 -

PROJECT NO.:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	03-29-2019

SHEET NUMBER
F-2

ABBREVIATIONS

THIS LIST IS FOR INFORMATION ONLY: OTHER ABBREVIATIONS MAY BE USED. ABBREVIATIONS THAT ARE UNCLEAR SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.

AB	ANCHOR BOLT
ABV	ABOVE
ADD'L	ADDITIONAL
ADJ	ADJACENT
ALT	ALTERNATE
ANCH	ANCHOR
APX	APPROXIMATE
ARCH'L	ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BEL	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BOTT	BOTTOM
BP	BUTTON PUNCH
BR'G	BEARING
BBSMNT	ASEMENT
BTWN	BETWEEN
BU	BACK UP
C	CHANNEL, C-STUD or CAMBER
CANT	CANTILEVER
CBC	CALIFORNIA BUILDING CODE
CIP	CAST-IN-PLACE CONCRETE
CJ	CONSTRUCTION JOINT or CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	COMPLETE PENETRATION
CSK	COUNTERSINK
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEP	DEPRESSED
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO	DITTO (REPEAT)
DSA	DIVISION OF THE STATE ARCHITECT
DTL	DETAIL
DRWGS	DRAWINGS
DWL	DOWEL
(E)	EXISTING CONDITION
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATOR or ELEVATION
EN	EDGE NAIL
ENG	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EQUIVALENT
ES	EACH SIDE or ENDS STAGGERED
EW	EACH WAY
EXIST	EXISTING
EXPAN	EXPANSION
EXT	EXTERIOR
FBW	FLARE BEVEL WELD
(A)	FUTURE CONDITION
f'c	MIN. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE
f'm	MIN. ULTIMATE COMPRESSIVE STRENGTH OF MASONRY
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
FRM'G	FRAMING
FS	FAR SIDE
FT	FOOT or FEET
FTG	FOOTING
FW	FILLET WELD
GA	GAGE or GAUGE
GALV	GALVANIZED
G.B.	GLU-LAMINATED
GRD	GRADE
HDR	HEADER
HNGR	HANGER
HORIZ	HORIZONTAL
HS	HORIZONTAL SLOT
HSB	HIGH-STRENGTH BOLT (A325)
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
J	JOIST
JH	JOIST HANGER
JT	JOINT
L	ANGLE or ANGLE IRON
LB	LAG BOLT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL

LONGIT.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LIGHT-WEIGHT CONCRETE
MACH	MACHINE
MATL	MATERIAL
MANUF	MANUFACTURER
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELANEOUS CHANNEL
MD	METAL DECKING
MECH'L	MECHANICAL
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	METAL STUD
MSW	METAL STUD WALL
(N)	NEW CONDITION
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
O	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OWG	OPEN WEB GIRDER
OWJ	OPEN WEB JOIST
P	UNISTRUT PRODUCT
P/C	PRE-CAST CONCRETE
PERP	PERPENDICULAR
PF	PAD FOOTING
PL	PLATE, or PROPERTY LINE
PLCS	PLACES
PLYWD	PLYWOOD
PP	PARTIAL PENETRATION
PSL	TRUSS JOIST PARALLAM
QTY	QUANTITY
R	RAFTER
RAD	RADIUS
REF	REFER, or REFERENCE
REINF	REINFORCING
REG'D	REQUIRED
REV	REVISED, or REVISION
RO	ROUGH OPENING
SB	SOLID BLOCKING
SC	SLIP CRITICAL CONNECTION
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SHT'G	SHEATHING
SIM	SIMILAR
SLTD	SLOTTED
SMD	SEE MECHANICAL DRAWING
SOG	SLAB ON GRADE
SPC	STANDARD PIPE COLUMN
SPEC	SPECIFICATION
SQ	SQUARE
SSL	SHORT-SLOTTED HOLES
STAGG	STAGGER
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE, or STRUCTURAL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
THK	THICK
THRD	THREAD, or THREADED
TN	TOE NAIL
TNS	THREADED NELSON STUD
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PLYWOOD
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TS	TUBE STEEL
TSW	TOP SEAM WELD
TYP	TYPICAL
UBS	UNIFORM BUILDING CODE
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
VIF	VERIFY IN FIELD
VS	VERTICAL SLOT
VSC	VERTICAL SIDE CLIP
W	WIDE FLANGE, or WEST
W/	WITH
W/O	WITHOUT
WP	WORK POINT, or WATERPROOF
WWF	WELDED WIRE FABRIC
&	AND
@	AT
x	BY
C	CENTERLINE
ø	DIAMETER
=	EQUALS
#	NUMBER, or POUNDS
P	PLATE
>	GREATER THAN
<	LESS THAN
JL	DOUBLE ANGLE
⊥	PERPENDICULAR

STATEMENT OF SPECIAL INSPECTION

DESCRIPTION & TYPE OF INSPECTION REQUIRED

1. REBAR PLACEMENT (REFER TO SPECIAL INSPECTION FOR CONCRETE).
2. WELDING (REFER TO WELDING NOTES AND SPECIAL INSPECTION REQUIREMENTS SECTIONS)
3. POST-INSTALLED ANCHOR BOLTS
4. SOILS (REFER TO SPECIAL INSPECTION REQUIREMENTS SECTION)

SPECIAL INSPECTION NOTES:

A. SPECIAL INSPECTIONS ARE IN ADDITION TO THOSE REQUIRED BY DSA. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTIONS BY THE INSPECTOR.

B. THE DUTIES OF THE SPECIAL INSPECTOR SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE 2016 CALIFORNIA BUILDING CODE.

C. THE SPECIAL INSPECTOR MUST BE APPROVED BY DSA TO PERFORM THE INSPECTION SPECIFIED, EXCEPT WHERE SPECIFICALLY STATED OTHERWISE.

D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE THE SPECIAL INSPECTOR. FAILURE OF NOTIFICATION FOR INSPECTION MAY RESULT IN COMPLETE REMOVAL AND REPLACEMENT OF ALL WORK SPECIFIED AS NEEDING SPECIAL INSPECTION AT CONTRACTOR'S EXPENSE.

E. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING, AND STRUCTURAL OBSERVATION MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD, OR ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.

F. NOTICE TO THE APPLICANT / OWNER / OWNER'S AGENT / ARCHITECT OR ENGINEER OF RECORD: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION / INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING JURISDICTION FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING, AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

G. NOTICE TO THE CONTRACTOR / BUILDER / INSTALLER / SUB-CONTRACTOR / OWNER-BUILDER: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION / INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS OF THE GOVERNING JURISDICTION FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING, AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

H. ALL WELDS SHALL BE INSPECTED.

I. FIELD SITE VISITS AND STRUCTURAL OBSERVATIONS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN INSPECTION.

SPECIAL INSPECTION REQUIREMENTS

REQUIRED VERIFICATION & INSPECTION OF SOILS

	VERIFICATION & INSPECTION	CONTINOUS	PERIODIC
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN CAPACITY.		X
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
3	PERIODIC CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL.		X
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	
5	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

SPECIAL INSPECTION REQUIREMENTS

CONCRETE CONSTRUCTION CODE TABLE 1705A.3

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1	INSPECT REINFORCMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	–	X	ACI318: CH20, 25.2, 25.3, 26.5.1–26.5.3	1908.4
2	REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5 c. INSPECT ALL OTHER WELDS	 – – X	 X X –	AWSD1.4 ACI318: 26.5.4	–
3	INSPECT ANCHORS CAST IN CONCRETE	–	X	ACI318: 17.8.2	–
4	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS[b, c] a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	 X X		ACI318: 17.8.2.4 ACI318: 17.8.2	– –
5	VERIFY USE OF REQUIRED MIX DESIGN	–	X	ACI318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–	ACTMC 172 ASTM C 31 ACI318: 26.4.5, 26.12	1908.10
7	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–	ACI318:26.5	1908.6, 1908.7, 1908.8
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI318: 26.4.7–26.4.9	1908.9
9	9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	 X X	 – –	ACI 318: 26.10	–
10	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	–	X	ACI 318: Ch. 26.8	–
11	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	–	X	ACI 318: 26.11.2	–
12	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X	ACI318: 26.10.1 (b)	–

FOR SI: 1 inch = 25.4 mm.

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

c. INSTALLATION OF ALL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE FACTORED DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 LBS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS ✓ SS
DATE APR 02 2019

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GC LIC # 992118 SBE CERTIFIED

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PROJECT NAME:

NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:

STRUCTURAL NOTES

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HARIRI
NO. 3545
STRUCTURAL
STATE OF CALIFORNIA
03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

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3 -
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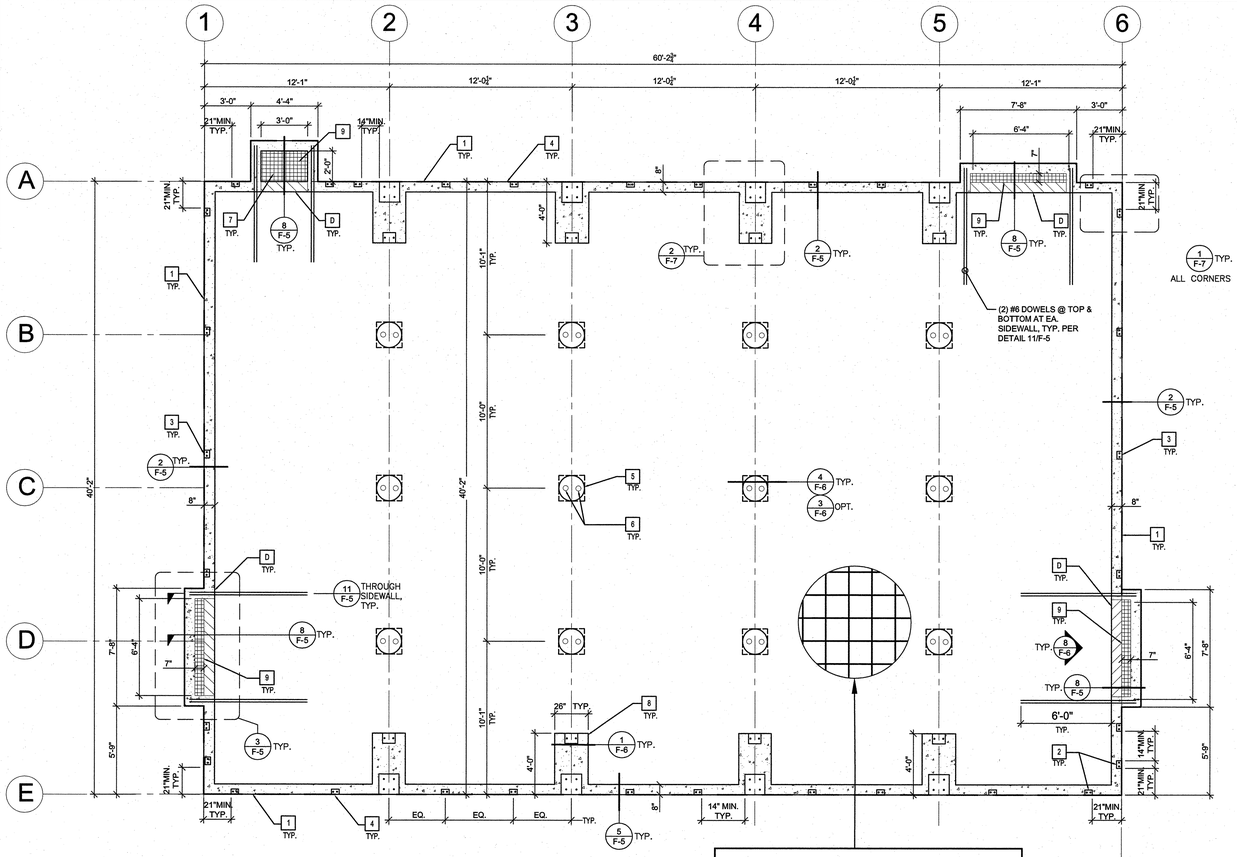
PROJECT NO.:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	03-29-2019

SHEET NUMBER

F-3



FOUNDATION PLAN

1/4" = 1'-0"

24" THICK MAT FOUNDATION. W/ #8 @ 9" O.C. AT TOP & BOTTOM EACH WAY TYPICAL, SEE DETAILS FOR ADDITIONAL REINFORCEMENT.

FOUNDATION NOTES

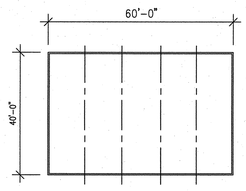
1. THE FOUNDATION DESIGN CONSIDERS AND ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF FOR LOCATIONS THAT DO NOT REQUIRE A SOILS REPORT.
2. THE DISTRICT SHALL BE RESPONSIBLE IN ISSUING AND CONTRACTING A SOILS INVESTIGATION THROUGH A QUALIFIED GEOTECHNICAL ENGINEER FOR LOCATIONS QUALIFIED BY CBC 1803A.2.
3. WELD PLATES WITHIN PER PLAN 21"MIN. FROM BUILDING CORNERS AND 14"MIN. FROM ADJACENT WELD PLATE.
4. WELD PLATE WITHIN 21" FROM VENT SHALL REQUIRE REINFORCEMENT HAIRPIN REINFORCEMENT AROUND THE ANCHOR BOLT CLOSEST TO THE VENT.
5. FOUNDATION OVERALL CONSIDERS A 1/4" GAP AT EVERY MOD LINE AND 6" SEISMIC SEPARATION GAP WIN APPLICABLE.
6. SIZE OF UNDER-FLOOR VENTILATION CONSIDERS A RATIO OF 1:150 FOR THE TOTAL AREA OF OPENINGS TO CRAWL SPACE AREA. CRAWL SPACE AREAS FITTED WITH A VAPOR BARRIER IN ACCORDANCE WITH IBC 1203.3.2 SHALL BE PERMITTED A RATIO ADJUSTMENT TO 1:1500.
7. VENTILATION OPENING SHALL BE COVERED WITH CORROSION RESISTANT WIRE WITH THE LEAST DIMENSION NOT GREATER THAN 1/8".
8. SEE SHEET F-5 THROUGH F-7 FOR TYPICAL FOUNDATION DETAILS.
9. REFER TO SHEET F-2 AND F-3 FOR STRUCTURAL NOTES AND INFORMATION.
10. CONTRACTORS AND SUB-CONTRACTORS SHALL VERIFY AND COORDINATE WITH BUILDING MANUFACTURER FOR ALL FOUNDATION DIMENSIONS, ANCHOR POINTS, ANCHOR PLATES AND CONDITIONS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER FOR ANY DISCREPANCIES AND UNUSUAL CONDITIONS.
11. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND GRADING PLANS FOR DETAILED DIMENSIONS AND OTHER INFORMATION NOT SHOWN ON THIS PLAN.
12. CONTRACTOR TO VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK AND FABRICATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR SITE CONDITIONS SO PROPER CLARIFICATIONS CAN BE MADE BEFORE WORK IS STARTED.
13. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO STARTING WORK AND FABRICATION. NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DRAWINGS OR SITE CONDITIONS SO PROPER CLARIFICATIONS CAN BE MADE BEFORE WORK IS STARTED.
14. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PREPARATION OF THE STRUCTURAL STEEL SHOP DRAWINGS AND START OF FOUNDATION WORK SO THAT PROPER CLARIFICATIONS MAY BE MADE WHERE CONFLICTS ARE FOUND.
15. MAT FOUNDATION SHALL BE PLACED ON 12 INCHES OF 95% COMPACTED FILL OVER 12 INCHES OF CRUSH ROCK AND INSPECTED PER THE SOILS REPORT.
16. GRADING AND FOUNDATION TO BE INSPECTED AND CERTIFIED BY THE SOIL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

FOUNDATION KEY AND VENT NOTES

1. 8" STEM WALL W/ #4 @12" O.C. EA. WAY @ CENTER TYPICAL U.N.O.
2. MINIMUM (2) WELD ANGLES AT EA. CORNER PER DETAIL 1/F-7.
3. ADDITIONAL (4) WELD ANGLES AT SIDE WALLS SPACED EQUALLY BETWEEN CORNER WELD PLATES PER 3A/-. SEE DETAIL 5/F7 FOR CONNECTION TO FLOOR BEAMS.
4. MINIMUM OF (2) WELD ANGLES EQUALLY SPACED AT END WALL WITHOUT VENT BETWEEN RETURN FOOTINGS, PER 3A/- (TOTAL OF (10)), ALONG EACH LINE OF A & E). SEE DETAIL 5/F7 FOR CONNECTION TO FLOOR BEAMS.
5. 20" DIA. OR SQ. PEDESTAL PER DETAILS 5 AND 6 ON SHEET F-6.
6. ANCHORAGE LOCATIONS ON PEDESTAL PER DETAILS 3/F-6 & 4/F-6.
7. ACCESS BELOW GRADE FOUNDATION VENT.
8. RETURN FOOTING AT MODLINE WITH TYPE [B] & [C] WELD PLATE PER 3/-..
9. VENTING FOR ABOVE GRADE FOUNDATION IS PROVIDED PER VENTING CALCULATION 2/- AND AS SHOWN.

FOUNDATION REFERENCE DATA AND NOTES 1

VENTING CALCULATIONS 2



VENT AREA REQUIRED = $\frac{2400}{150}$ SQ.FT = 16 SQ.FT.

VENT AREA PROVIDED = (3) 3.7 SQ.FT. + (1) 6 SQ.FT. = 17.1 SQ.FT.

FOUNDATION WELD PLATES SYMBOLS 3

A — L 6X4X1/2, 14" LONG WELD ANGLE PER SCHEDULE AND PER DETAIL 6/F-7

B — 10"x8"x1/2" WELD PLATE AT PEDSTALS PER DETAIL 4/F-7

C — 16"X16"X1/2" WELD PLATE PER DETAIL 4/F-7

D — UNDER FLOOR VENTILATION VENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 11763 0
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DATE APR 02 2019

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PROJECT NAME:

NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:

FOUNDATION PLAN FOR 40'X60' (SINGLE STORY)

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HAFIRI
NO. 3545
STRUCTURAL
STATE OF CALIFORNIA

03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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9 -

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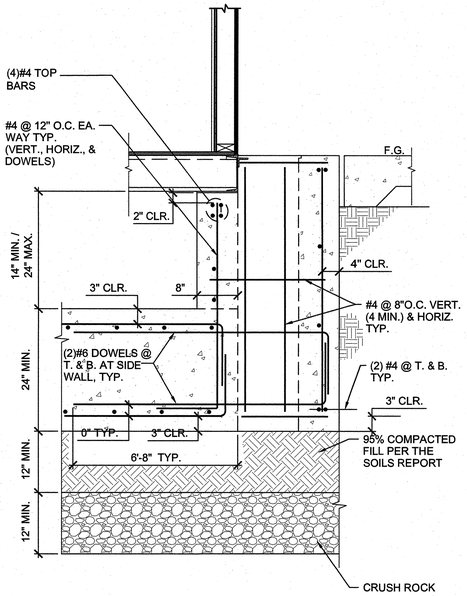
DRAWN BY:	
SCALE:	AS NOTED
DATE:	03-29-2019

SHEET NUMBER

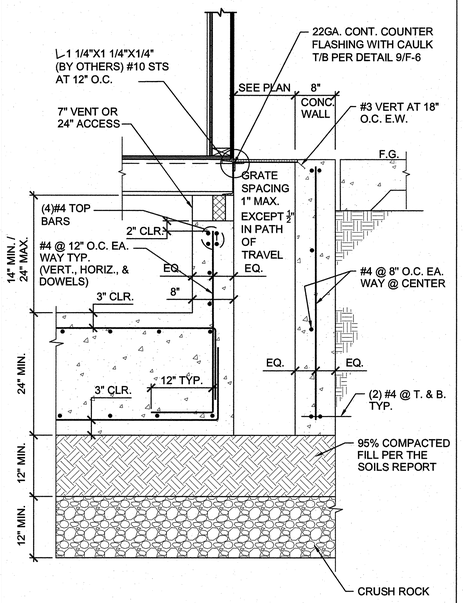
F-4



SECTION THROUGH SIDE WALLS

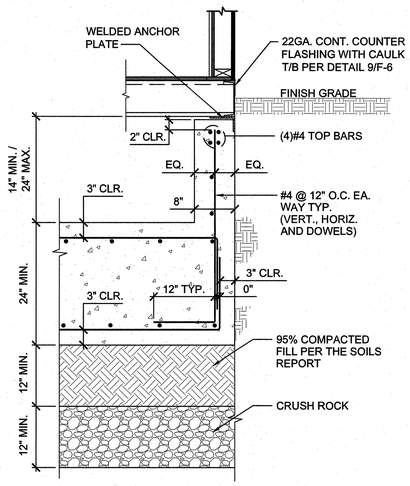
VENT/ACCESS SECTION ABOVE GRADE N.T.S. | 11

AREA VENTILATION OPENINGS SHALL BE FULLY COVERED WITH CORROSION RESISTANT WIRE MENS, OPENING SHALL BE 1/16"MIN. AND NOT TO EXCEED 1/8" MAX. PER CBC SECTION 706A



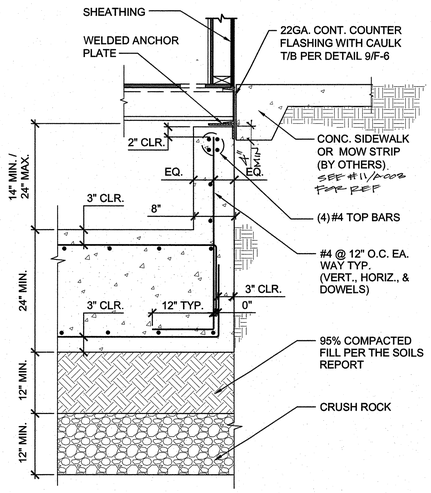
VENT/ACCESS SECTION ABOVE GRADE N.T.S. | 8

DIMENSIONS OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTIONS IS REQUIRED)

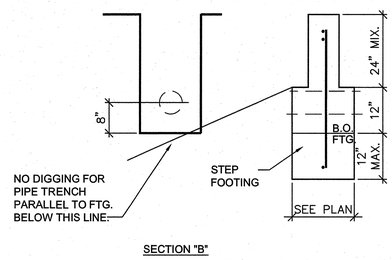


SIDE WALL FOOTING BELOW GRADE N.T.S. | 5

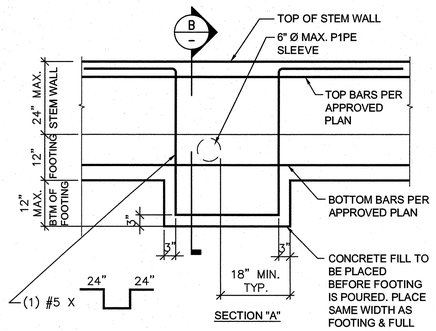
DIMENSIONS OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTIONS IS REQUIRED)



END WALL FOOTING BELOW GRADE N.T.S. | 2



SECTION "B"



SECTION "A"

NOTES:
1. ALL PIPES SHALL BE ENCASED IN SLEEVES VW 1" CLEAR SPACE AROUND PIPE SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF GPC SECTION 313.10 SLEEVES)

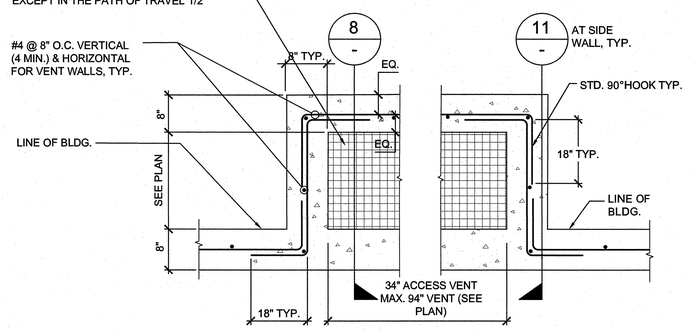
FD-CONC02 3/22/19

PIPE SLEEV THRU FOUNDATION DETAILS | 9

NOTE:

OPENING IN GRATE MUST BE ORIENTED PERPENDICULAR TO PATH OF TRAVEL.

GRATE:
TYPE W11-4 ADA TYPE W19-4 STD W/1"X3/16" BARS. GRATE SPACING 1" MAX. EXCEPT IN THE PATH OF TRAVEL 1/2"



TYPICAL VENT AND ACCESS DETAIL | 3

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:

TYPICAL CONCRETE DETAILS

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MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HAERI NO. 3545 STRUCTURAL STATE OF CALIFORNIA

03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

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2	-
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4	-
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PROJECT NO.:	
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SCALE:	AS NOTED
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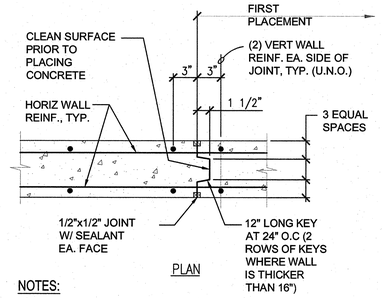
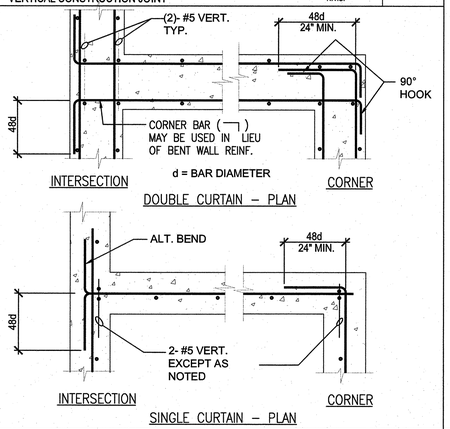


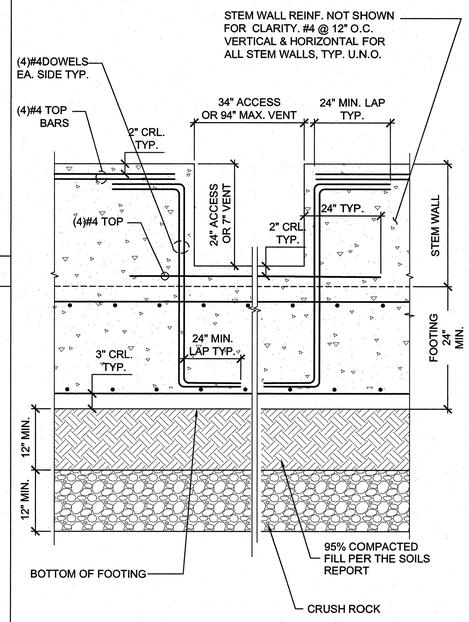
NOTES:

1. PROVIDE CONSTRUCTION JOINT AT 20'-0" O.C. MAXIMUM.
2. LOCATION AND DETAIL OF JOINTS SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTING FORMS.

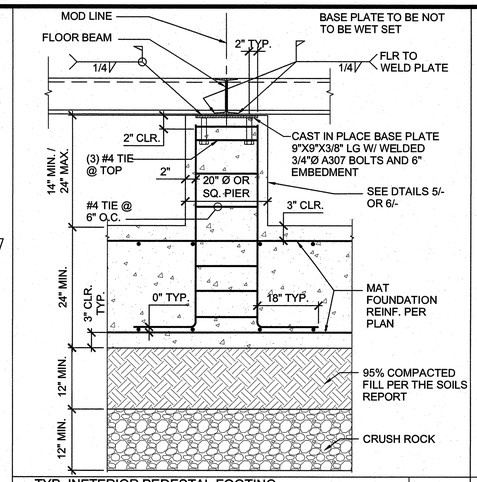
TYPICAL WALL & STEM WALL VERTICAL CONSTRUCTION JOINT N.T.S. **10**



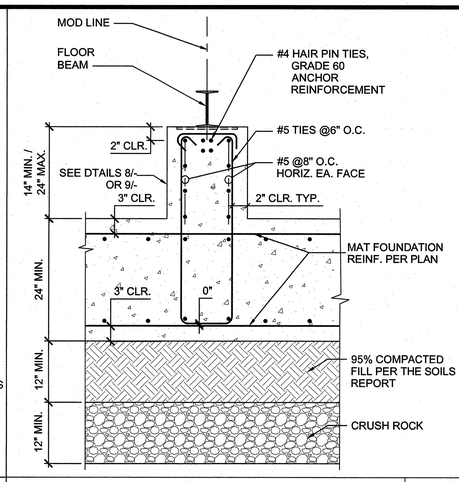
TYP. CONCRETE WALL REINFORCING AT INTERSECTIONS N.T.S. **11**



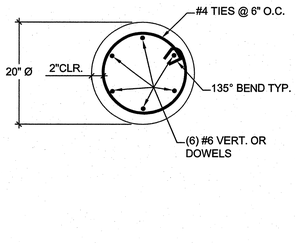
VENT OPENING N.T.S. **8**



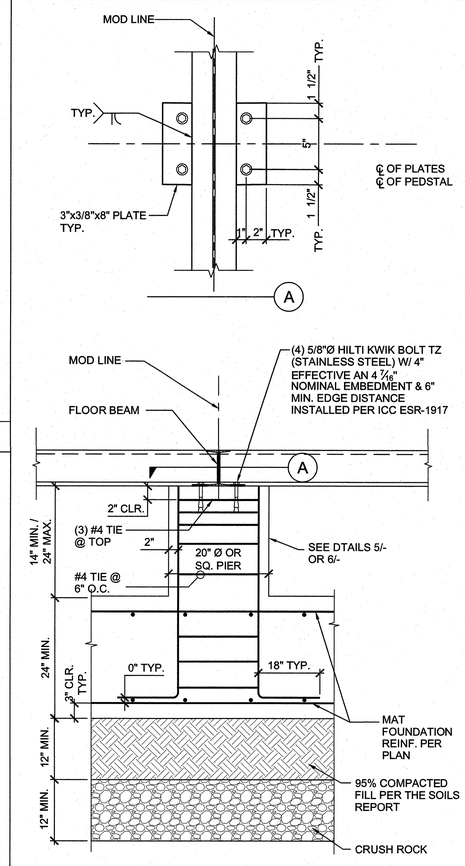
TYP. INETERIOR PEDESTAL FOOTING (ATTACHMENT AT PLATE) N.T.S. **4**



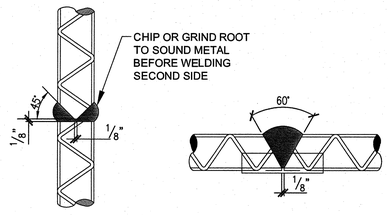
TYP. INTERIOR RETURN FOOTING N.T.S. **1**



ROUND PEDESTAL DETAIL N.T.S. **5**



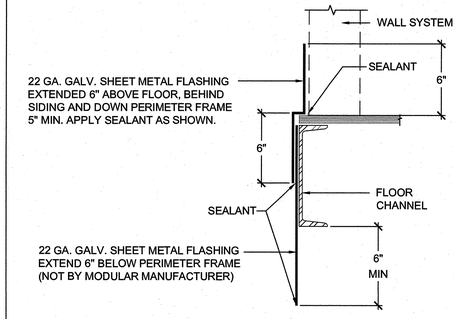
TYP. INTERIOR PEDESTAL FOOTING AT SEPERATION (OPTIONAL) N.T.S. **3**



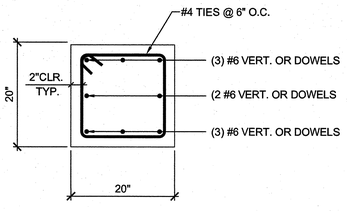
NOTES:

1. A PRE-QUALIFICATION TEST SHALL BE MADE BY AN APPROVED TESTING LABORATORY ON SAMPLES OF EACH SIZE BAR BEING WELDED AND SUBMITTED TO STRUCTURAL ENGINEER OF RECORD.
2. WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E90XX AND SHALL CONFORM TO AWS-D1.4.
3. ALL WELDING SHALL BE SUBJECT TO CONTINUOUS INSPECTION.
4. REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENT OF ASTM A706.

TYPICAL REINFORCING BAR WELDED SPLICE N.T.S. **12**



TYPICAL FLASHING DETAIL N.T.S. **9**



SQUARE PEDESTAL DETAIL N.T.S. **6**

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS ✓ SS
DATE APR 02 2019

KSC COMPANY
13617 12 STREET, SUITE #9, CHINO, CA 91710
OFFICE: (909) 742-3120, FAX: (909) 726-0470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MP1379956 DEALER #DLG79966
SC LIC # 952118 SBE CERTIFIED

ALL DESIGNS INDICATED ON THESE PLANS/DRAWINGS ARE PROPERTY OF SKC, INC AND ARE FOR THE USE BY SKC IN THE SPECIFIED JOB ONLY. THEY SHALL NOT BE USED AND/OR DUPLICATED OR TRANSMITTED IN ANY FORM, FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SKC, INC. ANY UNAUTHORIZED USE OF THESE PLANS SHALL SUBJECT THE OWNER OF SAID PROPERTY TO LIQUIDATED DAMAGES OF $75,000.00. THESE PLANS ARE PROTECTED UNDER THE PROVISIONS OF THE 1976 COPYRIGHT ACT COPYRIGHT SKC, C ALL RIGHTS RESERVED.

PROJECT NAME:

NORTH ORANGE COUNTY CCD
CYPRESS COLLEGE

SHEET TITLE:

TYPICAL CONCRETE DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

M.R.H.
STRUCTURAL ENGINEERS
3400 Irvine Ave., Ste. 101
Newport Beach, CA 92660
MRH_SE@SBCGLOBAL.NET
T: (714) 633-6302

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MAHATI NO. 3545 STRUCTURAL STATE OF CALIFORNIA
03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

1	-
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3	-
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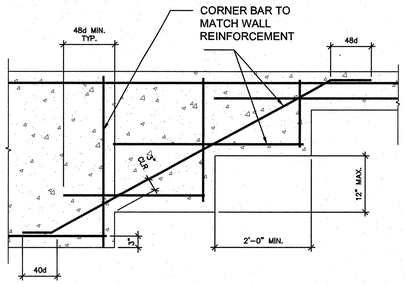
PROJECT NO.:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	03-29-2019

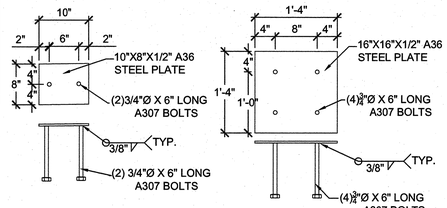
SHEET NUMBER

F-6

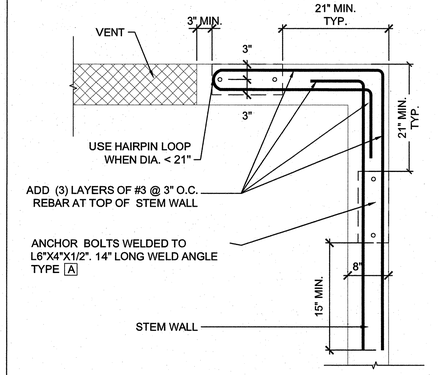


TYPICAL STEPPED FOOTING DETAIL **10**

NOT USED



TYP. EMBEDDED PLATE DETAILS N.T.S. **4**



FD-CONC16

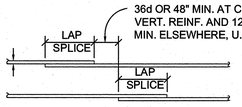
TYP. TYP. WELD PLATE AT CORNER N.T.S. **1**

LAP SPLICE SCHEDULE

BAR		AREA (sq. in.)	0.11		0.20		0.31		0.44		0.60		0.79		1.00		1.27		1.56	
		DIAMETER db	0.375		0.500		0.625		0.750		0.875		1.000		1.128		1.270		1.410	
LAP CLASS	CATEGORY	DESCRIPTION	NORMAL WEIGHT CONCRETE f'c (psi)	#3		#4		#5		#6		#7		#8		#9		#10		#11	
				TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.
CLASS B	1	COVER ≥2db AND CLEAR SPACING ≥4db	3000	21	16	23	18	28	22	34	26	49	38	56	43	63	49	71	55	79	61
			4000	21	16	21	16	25	19	29	23	43	33	49	37	55	42	62	47	68	53
			5000	21	16	21	16	22	17	26	20	38	29	44	34	49	38	55	43	61	47
			6000	21	16	21	16	21	16	24	19	35	27	40	31	45	34	50	39	56	43
	2	ALL OTHERS	3000	28	22	38	29	47	36	56	43	81	63	93	72	105	81	118	91	131	101
			4000	25	19	33	25	41	31	49	37	71	54	81	62	91	70	102	79	114	87
			5000	22	17	29	23	36	28	44	34	63	49	72	56	81	63	92	71	102	78
			6000	21	16	27	21	33	26	40	31	58	45	66	51	74	57	84	64	93	71
	3	COVER <db AND CLEAR SPACING <2db	3000					70	54	84	64	122	94	139	107	157	121	177	136	196	151
			4000					61	47	73	56	106	81	121	93	136	105	153	118	170	131
			5000					54	42	65	50	95	73	108	83	121	94	137	105	152	117
			6000					50	38	59	46	86	67	99	76	111	85	125	96	139	107

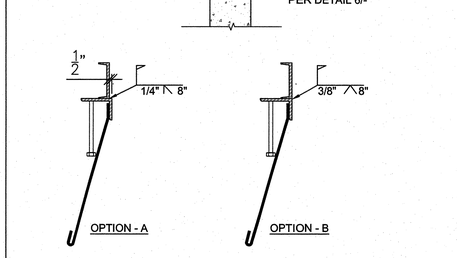
NOTES:

1. ALL VALUES SHOWN IN THE SCHEDULE ARE IN INCHES, U.N.O.
2. WHERE THE PROJECT DESIGN CONCRETE STRENGTH IS NOT SPECIFICALLY IDENTIFIED IN THE TABLE, UTILIZE THE LAP SPLICE REQUIREMENTS FOR THE NEAREST CONCRETE STRENGTH LISTED IN THE TABLE LOWER THAN THE SPECIFIED DESIGN CONCRETE STRENGTH.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. BOTTOM BARS ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS.
5. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE LENGTHS IN THE SCHEDULE BY 1.3.
6. ALL LAP SPLICES SHALL BE STAGGERED AS SHOWN BELOW.



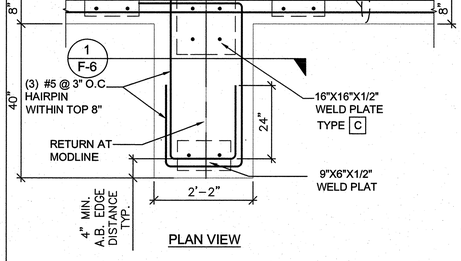
STAGGERED SPLICING

TYPICAL REINFORCING LAP SCHEDULE **8**

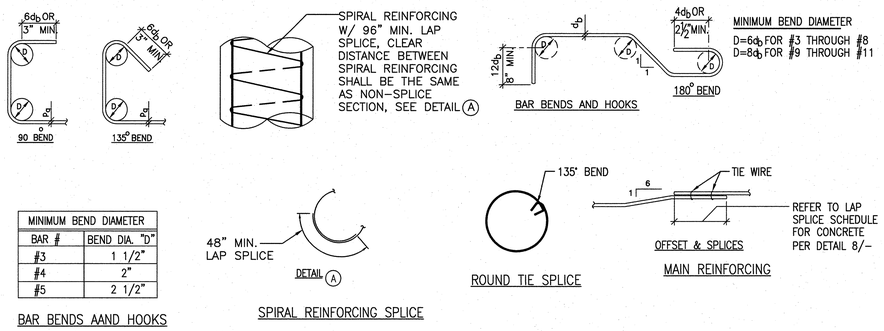


FD-CONC19

TYP. WELDED FOUNDATION PLATE N.T.S. **5**



TYP. WELD PLATE AT MODLINE N.T.S. **2**



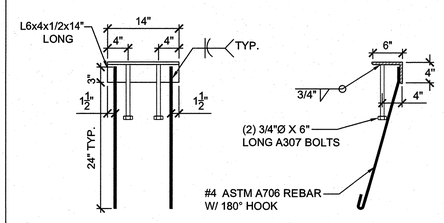
MINIMUM BEND DIAMETER	
BAR #	BEND DIA. "D"
#3	1 1/2"
#4	2"
#5	2 1/2"

BAR BENDS AAND HOOKS

SPIRAL REINFORCING SPLICE

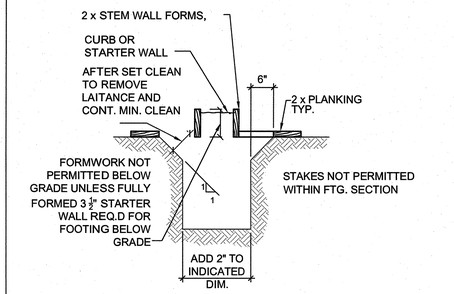
TYPICAL BAR BENDS AND SPLICES N.T.S. **9**

SEE DETAIL 5/- FOR FLOOR BEAM TO WELD ANGLE WELD.



FD-CONC20 3/22/19

TYP. WELD ANGLE DETAILS N.T.S. **6**



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

FD-CONC21 3/22/19

MANDATORY MINIMUM FORMWORK UNLESS FULLY FORMED N.T.S. **3**

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS FLS SS
DATE APR 02 2019

KSC COMPANY
13617 12 STREET, SUITE #9, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MFG70908 DEALER #'S: CS70908
GC LIC # 992118 SBE CERTIFIED

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PROJECT NAME:

NORTH ORANGE COUNTY CCD
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SHEET TITLE:

TYPICAL CONCRETE DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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Newport Beach, CA 92660
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T: (714) 633-6302

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HAYATI NO. 3545 STRUCTURAL STATE OF CALIFORNIA

03/29/2019

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
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REVISIONS

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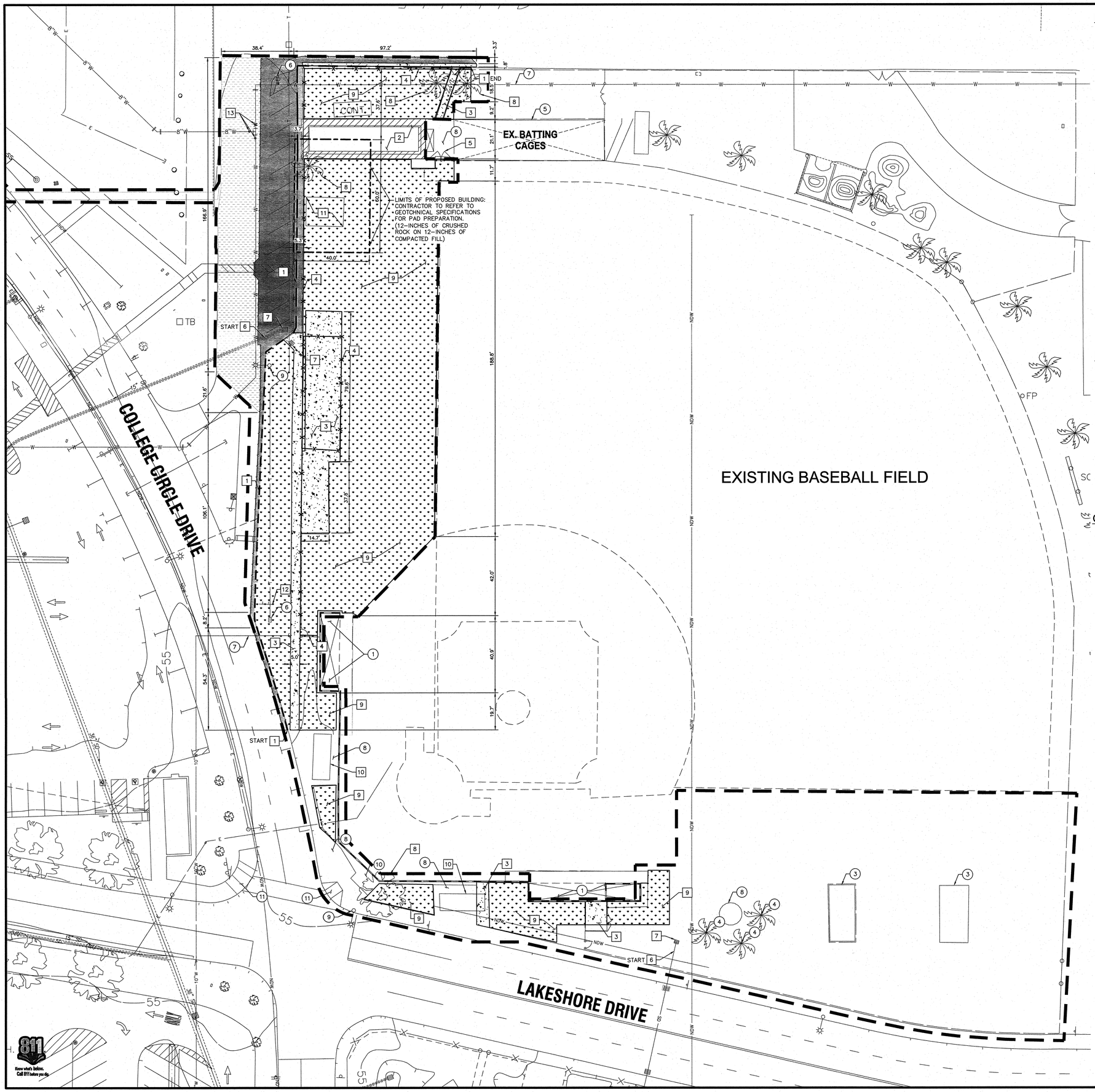
PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 03-29-2019

SHEET NUMBER

F-7



LEGEND

- DEMO LIMIT LINE
- EXISTING CURB TO BE REMOVED
- LIMITS OF PROPOSED BUILDING
- SAWCUT LINE
- EXISTING FENCE TO BE REMOVED
- EXISTING LANDSCAPING TO BE REMOVED
- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- FULL DEPTH ASPHALT REMOVAL
- 1" MILL AT EDGES, ROUGHEN ON CENTER

DEMOLITION NOTES

1. REMOVE EXISTING CURB.
2. REMOVE EXISTING BUILDING AND FOOTINGS.
3. REMOVE EXISTING CONCRETE.
4. REMOVE EXISTING FENCE.
5. REMOVE EXISTING GATE.
6. REMOVE EXISTING STORM DRAIN PIPE.
7. REMOVE EXISTING CATCH BASIN.
8. REMOVE EXISTING TREE AND ROOT BALL..
9. REMOVE EXISTING LANDSCAPING.
10. REMOVE EXISTING BLEACHERS.
11. REMOVE EXISTING DIRT MOUND.
12. RELOCATE EXISTING MONUMENT SIGN. SEE SHEET C301 FOR MORE INFORMATION.
13. RAISE EXISTING WATER VALVES TO PROPOSED GRADE.

PROTECTION NOTES

1. PROTECT-IN-PLACE EXISTING DUGOUT.
2. NOT USED.
3. PROTECT-IN-PLACE EXISTING FENCE AND BULLPEN.
4. PROTECT-IN-PLACE EXISTING PALM TREES.
5. PROTECT-IN-PLACE EXISTING BATTING CAGES.
6. PROTECT-IN-PLACE EXISTING UTILITY VAULT. TO BE RECONSTRUCTED AND ADJUSTED TO GRADE.
7. PROTECT-IN-PLACE EXISTING WATER PIPE.
8. PROTECT-IN-PLACE EXISTING CONCRETE.
9. PROTECT-IN-PLACE LIGHT POLE.
10. PROTECT-IN-PLACE EXISTING CONCRETE PAD AND RAMP.
11. PROTECT-IN-PLACE EXISTING CURB RAMP.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL CLEAR THE PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL CAP IN PLACE ALL EXISTING UTILITIES AT THE DEMOLITION LIMIT LINE, UNLESS NOTED ON THE PLAN. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITY STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF DEMOLITION WORK.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
7. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
8. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
9. DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING DEMOLITION.
10. DEMOLITION IS LIMITED TO WITHIN THE DEMOLITION LIMIT LINE UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL REMOVE DEMOLISHED MATERIALS FROM THE SITE AS WORK PROGRESSES.
12. THE DRAWINGS MAY NOT INDICATE IN DETAIL ALL DEMOLITION WORK TO BE PERFORMED. THE CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS TO DETERMINE THE FULL EXTENT OF DEMOLITION.
13. ALL DEMOLITION SHALL COMPLY WITH CHAPTER 24 AND ARTICLE 87 OF THE CALIFORNIA FIRE CODE.
14. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
15. SEE EROSION CONTROL PLAN FOR REMAINING INLET PROTECTION AND EROSION PREVENTION.
16. CONTRACTOR TO INSTALL CHAIN LINK FENCE WITH MESH SCREEN TO PROTECT PUBLIC FROM ENTERING CONSTRUCTION AREA.
17. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES.
18. MONITORING WELLS TO BE REMOVED PRIOR TO BEGINNING OF CONSTRUCTION.
19. CONTRACTOR TO PROTECT IN PLACE EXISTING ONSITE STORM DRAIN LINES. CONTRACTOR TO FIX/RELOCATE IF ANY DAMAGE OCCURS DURING DEMOLISHION/CONSTRUCTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE (30" X 42")

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:
Kimley»Horn

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765 THE CITY DRIVE, SUITE 200, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488
WWW.KIMLEY-HORN.COM

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO:	094842016
DATE:	04-01-2019
DRAWN:	NG
CHECK:	RC
ARCHITECT:	PDW
ENGINEER:	DAL

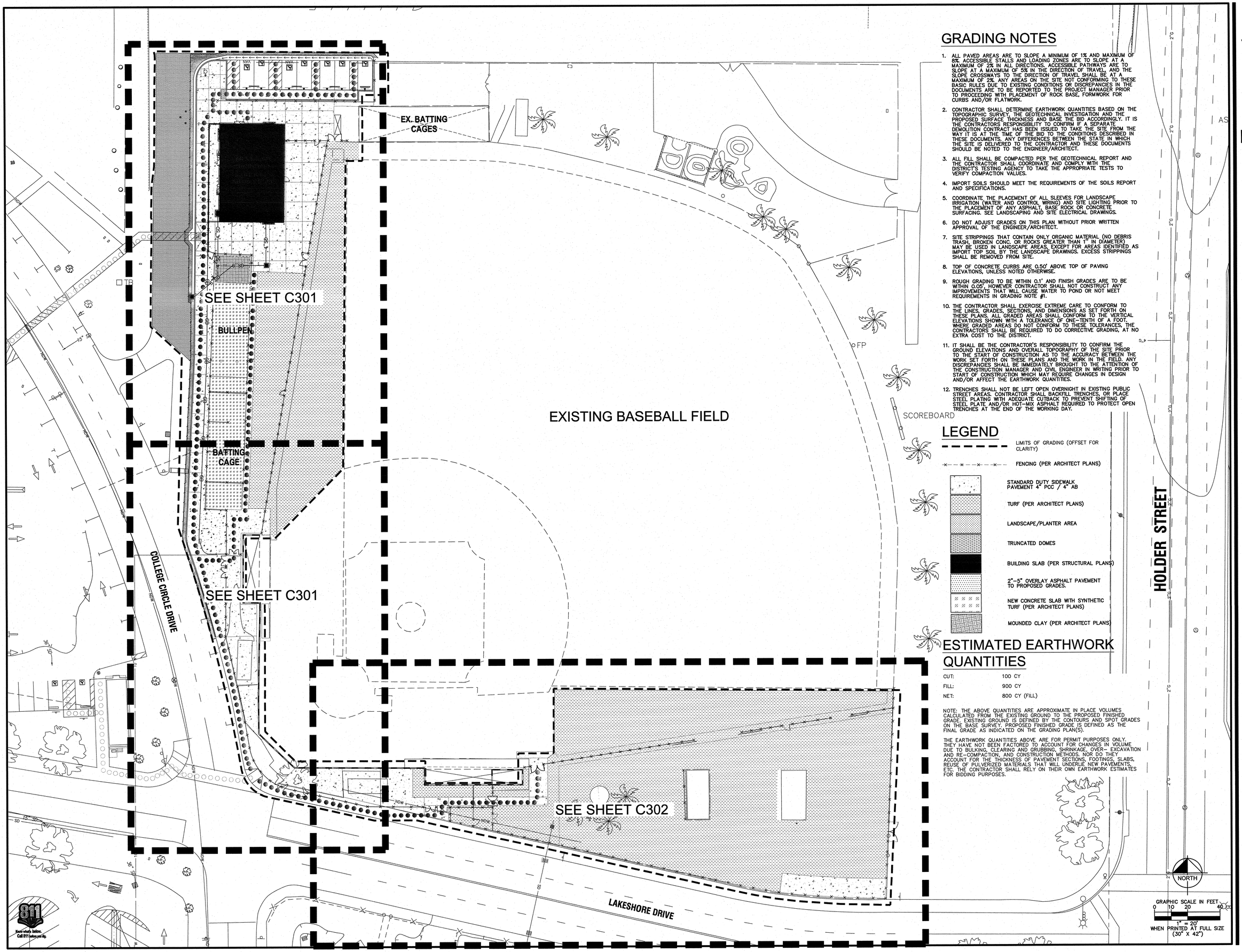
ARCHITECT:

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER — MATTHEW A. LUZUIRIAGA — No. 56734 — CIVIL — STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC ___ FLS DT SS
DATE 04-02-2019

SHEET DESCRIPTION:
DEMOLITION PLAN

SHEET NO:
C200



GRADING NOTES

1. ALL PAVED AREAS ARE TO SLOPE A MINIMUM OF 1% AND MAXIMUM OF 8%. ACCESSIBLE STALLS AND LOADING ZONES ARE TO SLOPE AT A MAXIMUM OF 2% IN ALL DIRECTIONS. ACCESSIBLE PATHWAYS ARE TO SLOPE AT A MAXIMUM OF 5% IN THE DIRECTION OF TRAVEL, AND THE SLOPE CROSSWAYS TO THE DIRECTION OF TRAVEL SHALL BE AT A MAXIMUM OF 2%. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE PROJECT MANAGER PRIOR TO PROCEEDING WITH PLACEMENT OF ROCK BASE, FORMWORK FOR CURBS AND/OR FLATWORK.
2. CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL INVESTIGATION AND THE PROPOSED SURFACE THICKNESS AND BASE THE BID ACCORDINGLY. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM IF A SEPARATE DEMOLITION CONTRACT HAS BEEN ISSUED TO TAKE THE SITE FROM THE WAY IT IS AT THE TIME OF THE BID TO THE CONDITIONS DESCRIBED IN THESE DOCUMENTS. ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS SHOULD BE NOTED TO THE ENGINEER/ARCHITECT.
3. ALL FILL SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE DISTRICT'S TESTING AGENCY TO TAKE THE APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
4. IMPORT SOILS SHOULD MEET THE REQUIREMENTS OF THE SOILS REPORT AND SPECIFICATIONS.
5. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND SITE LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASE ROCK OR CONCRETE SURFACING. SEE LANDSCAPING AND SITE ELECTRICAL DRAWINGS.
6. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
7. SITE STRIPPINGS THAT CONTAIN ONLY ORGANIC MATERIAL (NO DEBRIS TRASH, BROKEN CONC. OR ROCKS GREATER THAN 1" IN DIAMETER) MAY BE USED IN LANDSCAPE AREAS, EXCEPT FOR AREAS IDENTIFIED AS IMPORT TOP SOIL BY THE LANDSCAPE DRAWINGS. EXCESS STRIPPINGS SHALL BE REMOVED FROM SITE.
8. TOP OF CONCRETE CURBS ARE 0.50' ABOVE TOP OF PAVING ELEVATIONS, UNLESS NOTED OTHERWISE.
9. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05', HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1.
10. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE DISTRICT.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
12. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN EXISTING PUBLIC STREET AREAS. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING WITH ADEQUATE CUTBACK TO PREVENT SHIFTING OF STEEL PLATE AND/OR HOT-MIX ASPHALT REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF THE WORKING DAY.

LEGEND

- LIMITS OF GRADING (OFFSET FOR CLARITY)
- FENCING (PER ARCHITECT PLANS)
- STANDARD DUTY SIDEWALK PAVEMENT 4" PCC / 4" AB
- TURF (PER ARCHITECT PLANS)
- LANDSCAPE/PLANTER AREA
- TRUNCATED DOMES
- BUILDING SLAB (PER STRUCTURAL PLANS)
- 2"-5" OVERLAY ASPHALT PAVEMENT TO PROPOSED GRADES.
- NEW CONCRETE SLAB WITH SYNTHETIC TURF (PER ARCHITECT PLANS)
- MOUNDED CLAY (PER ARCHITECT PLANS)

ESTIMATED EARTHWORK QUANTITIES

CUT:	100 CY
FILL:	900 CY
NET:	800 CY (FILL)

NOTE: THE ABOVE QUANTITIES ARE APPROXIMATE IN PLACE VOLUMES CALCULATED FROM THE EXISTING GROUND TO THE PROPOSED FINISHED GRADE. EXISTING GROUND IS DEFINED BY THE CONTOURS AND SPOT GRADES ON THE BASE SURVEY. PROPOSED FINISHED GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN(S).

THE EARTHWORK QUANTITIES ABOVE ARE FOR PERMIT PURPOSES ONLY. THEY HAVE NOT BEEN FACTORED TO ACCOUNT FOR CHANGES IN VOLUME DUE TO BULKING, CLEARING AND GRUBBING, SHRINKAGE, OVER- EXCAVATION AND RE-COMPACTION, AND CONSTRUCTION METHODS. NOR DO THEY ACCOUNT FOR THE THICKNESS OF PAVEMENT SECTIONS, FOOTINGS, SLABS, REUSE OF PULVERIZED MATERIALS THAT WILL UNDERLIE NEW PAVEMENTS, ETC. THE CONTRACTOR SHALL RELY ON THEIR OWN EARTHWORK ESTIMATES FOR BIDDING PURPOSES.

NORTH

GRAPHIC SCALE IN FEET
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1" = 20'
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(619) 542-1188 542-1663 FAX

CONSULTANT:
Kimley»Horn

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PHONE: 714-939-1030 FAX: 714-938-9488
WWW.KIMLEY-HORN.COM

PROJECT NAME:
Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO:	094842016
DATE:	04-01-2019
DRAWN:	NG
CHECK:	RC
ARCHITECT:	PDW
ENGINEER:	DAL

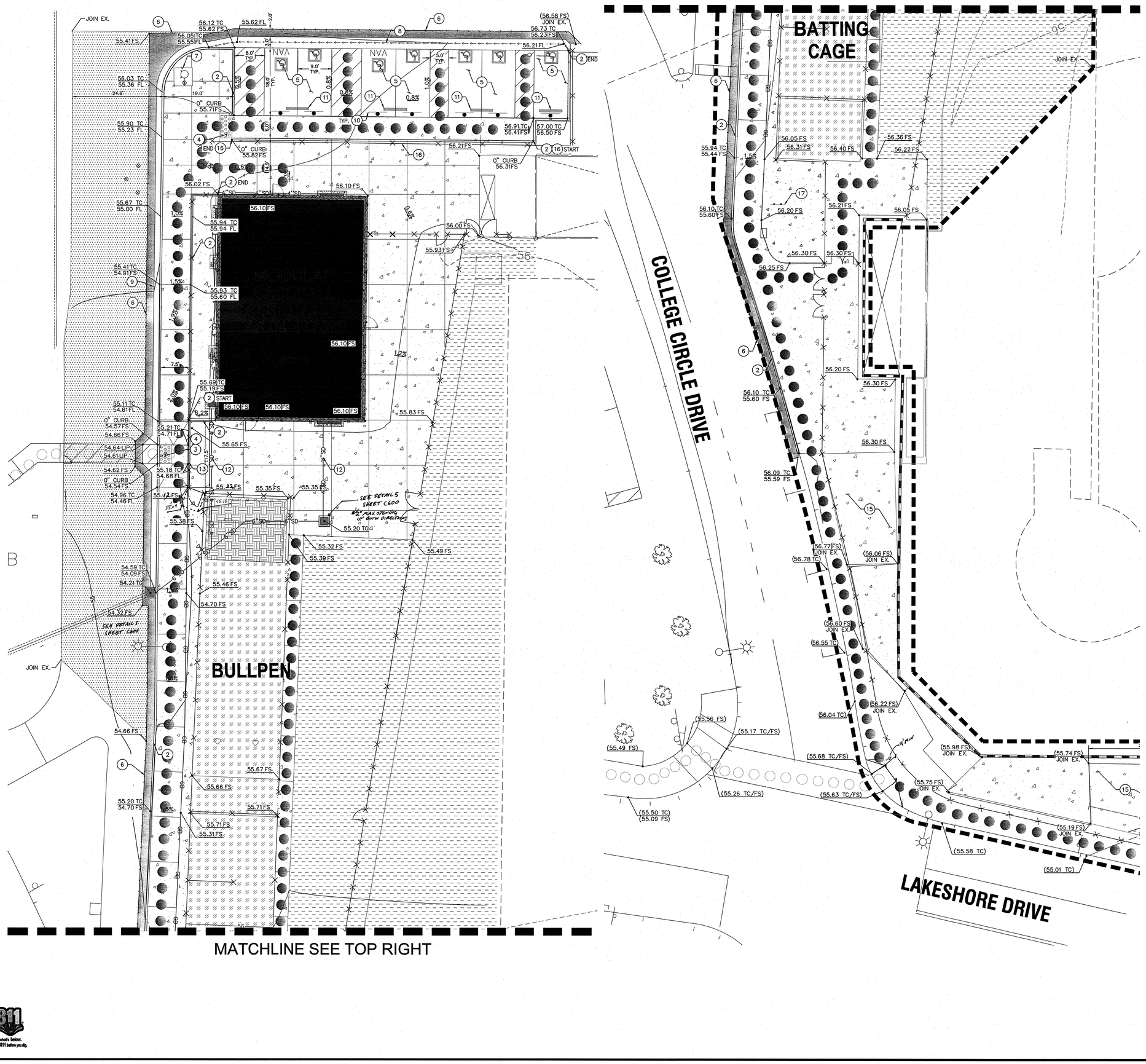
ARCHITECT:

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER DAVID A. LUDERER No. 56734 CIVIL STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC 11 FLS 07 SS
DATE 04-02-2019

SHEET DESCRIPTION:
GRADING AND DRAINAGE PLAN

SHEET NO:
C300



LEGEND

- LIMITS OF GRADING
- PATH OF TRAVEL
- SAWCUT LINE
- GB — GRADEBREAK LINE
- FENCING (PER ARCHITECT PLANS)
- STANDARD DUTY SIDEWALK PAVEMENT 4" PCC / 4" AB
- TURF (PER ARCHITECT PLANS)
- LANDSCAPE/PLANTER AREA
- TRUNCATED DOMES
- BUILDING SLAB (PER STRUCTURAL PLANS)
- 2"-5" OVERLAY ASPHALT PAVEMENT TO PROPOSED GRADES.
- NEW CONCRETE SLAB WITH SYNTHETIC TURF (PER ARCHITECT PLANS)
- MOUNDED CLAY (PER ARCHITECT PLANS)
- FULL DEPTH ASPHALT (MATCH EXISTING)

CONSTRUCTION NOTES

1. 10' HIGH CHAIN LINK FENCE PER ARCHITECT PLANS
2. 6" CURB PER DETAIL 6, SHEET C600
3. CURB RAMP PER DETAIL 9, SHEET C600
4. TRUNCATED DOMES PER ARCHITECTURAL PLANS
5. ADA PARKING PER ARCHITECTURAL PLANS
6. SAWCUT PAVEMENT
7. RECONSTRUCT AND ADJUST UTILITY BOX TO GRADE
8. 3' VALLEY GUTTER PER DETAIL 8, SHEET C600
9. 6" CURB AND GUTTER PER DETAIL 7, SHEET C600
10. INSTALL ADA SIGN PER DETAIL 10, SHEET C600. SEE 11, SHEET C600 FOR SIGN POST DETAIL.
11. 6' WHEEL STOP PER ARCHITECTURAL PLANS
12. 4" PVC STORM DRAIN LINE. CONNECT TO EXISTING STORM DRAIN LINE
13. HANDRAIL PER ARCHITECTURAL PLANS.
14. ROLLING GATE PER ARCHITECT PLANS
15. EXISTING CONCRETE TO REMAIN
16. FLUSH CURB (0") PER MODIFIED VERSION OF DETAIL 6, SHEET, C600.
17. RELOCATE EXISTING MONUMENT SIGN.

NORTH

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STATE:

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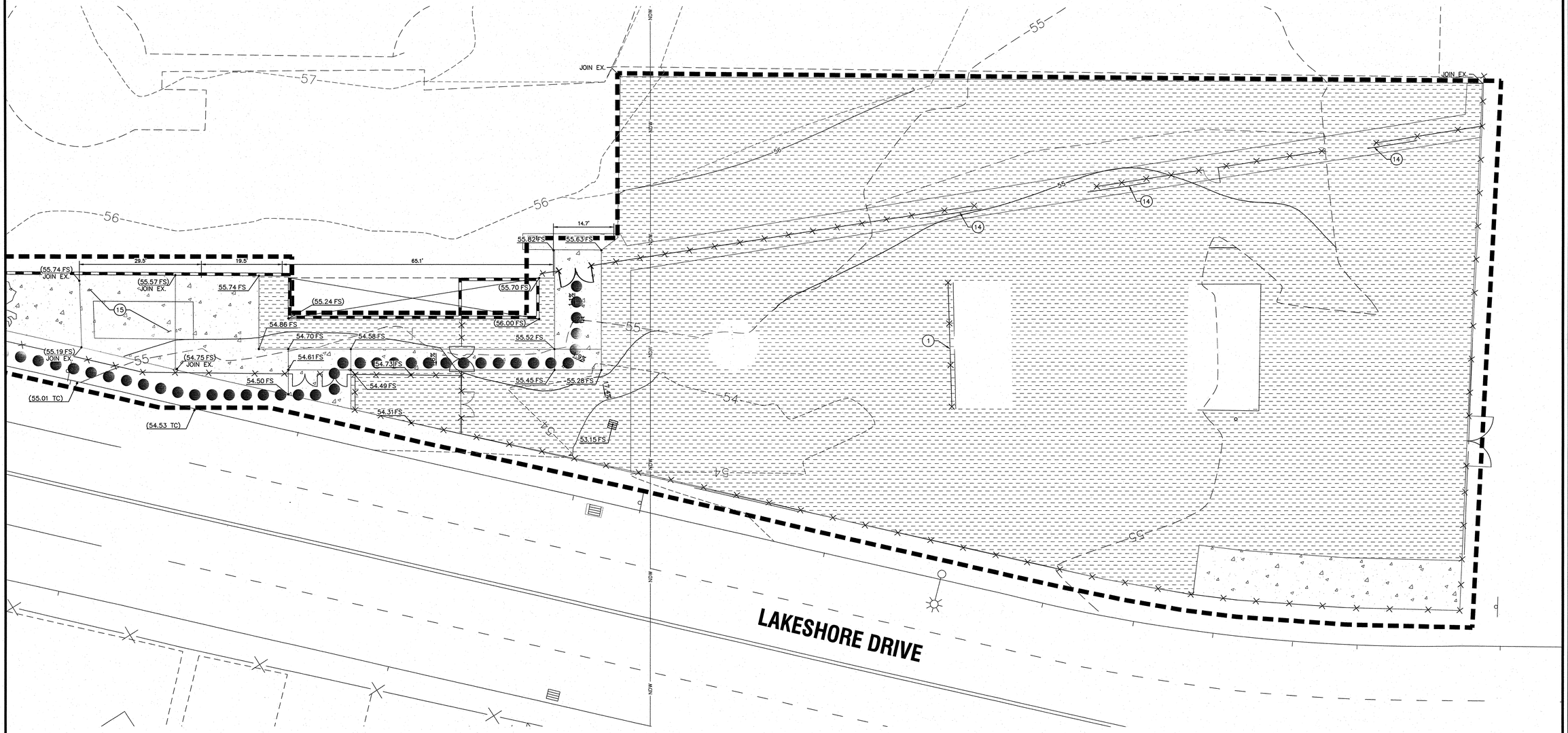
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS SS
DATE 04-02-2019

SHEET DESCRIPTION:
GRADING AND DRAINAGE PLAN

SHEET NO:
C301



LEGEND

- LIMITS OF GRADING
- PATH OF TRAVEL
- SAWCUT LINE
- GB — GRADEBREAK LINE
- FENCING (PER ARCHITECT PLANS)
- STANDARD DUTY SIDEWALK PAVEMENT 4" PCC / 4" AB
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- NEW CONCRETE SLAB WITH SYNTHETIC TURF (PER ARCHITECT PLANS)
- MOUNDED CLAY (PER ARCHITECT PLANS)

CONSTRUCTION NOTES

1. 10' HIGH CHAIN LINK FENCE PER ARCHITECT PLANS
2. 6" CURB PER DETAIL 6, SHEET C600
3. CURB RAMP PER DETAIL 9, SHEET C600
4. TRUNCATED DOMES PER ARCHITECTURAL PLANS
5. ADA PARKING PER ARCHITECTURAL PLANS
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7. RECONSTRUCT AND ADJUST UTILITY BOX TO GRADE
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9. 6" CURB AND GUTTER PER DETAIL 7, SHEET C600
10. INSTALL ADA SIGN PER DETAIL 10, SHEET C600. SEE 11, SHEET C600 FOR SIGN POST DETAIL.
11. 6' WHEEL STOP PER ARCHITECTURAL PLANS
12. CONCRETE CURB WALL. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
13. HANDRAIL PER ARCHITECTURAL PLANS.
14. ROLLING GATE PER ARCHITECT PLANS
15. EXISTING CONCRETE TO REMAIN
16. FLUSH CURB (0") PER MODIFIED VERSION OF DETAIL 6, SHEET, C600.
17. RELOCATE EXISTING MONUMENT SIGN.

NORTH

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CONSULTANT:
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CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER
DAVID A. LUZUNIS
56734
CIVIL
STATE OF CALIFORNIA

STATE:
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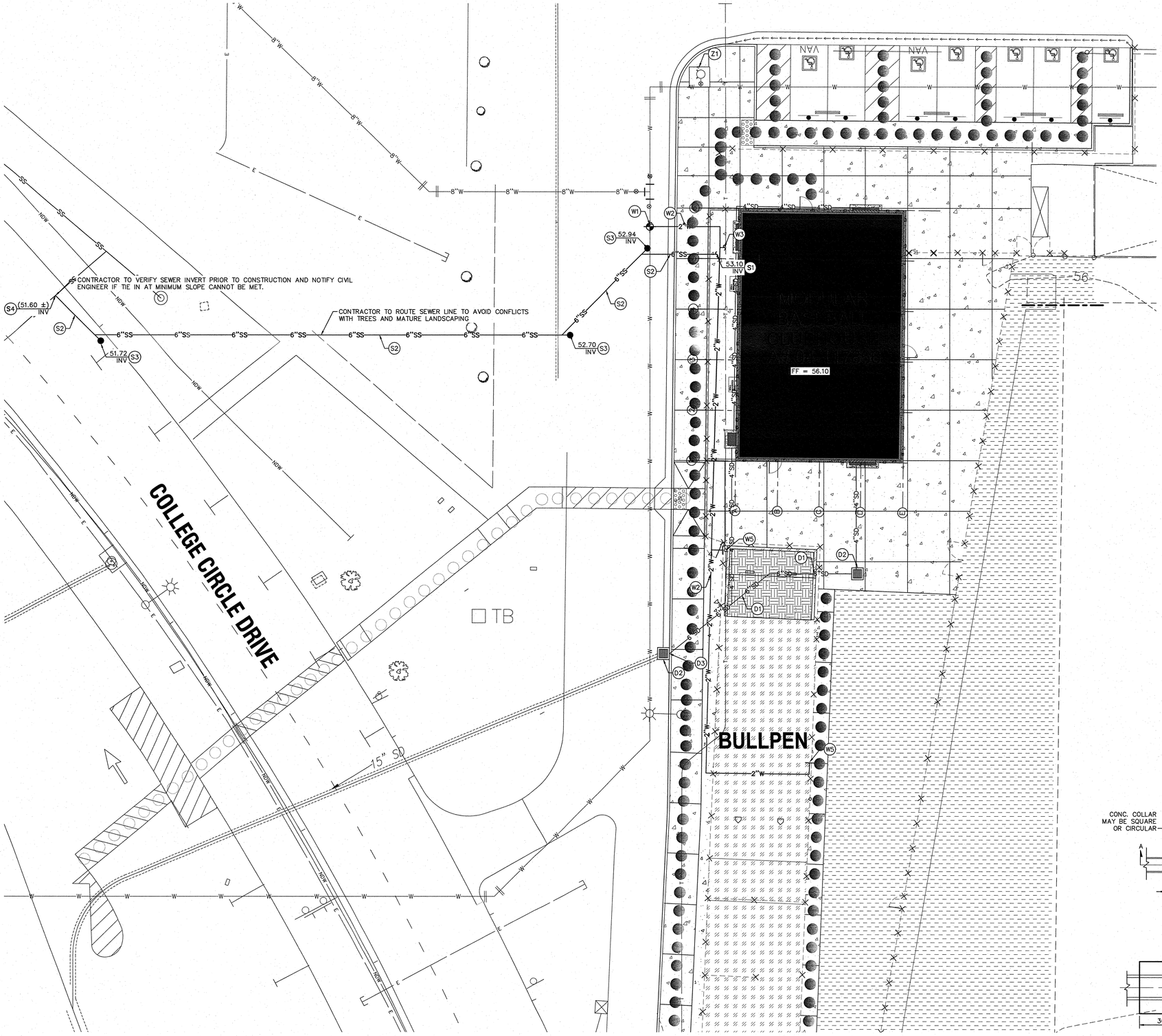
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS SS
DATE 04-02-2019

SHEET DESCRIPTION:
GRADING AND DRAINAGE PLAN

SHEET NO:
C302



LEGEND

6"SD	PROPOSED 6" STORM DRAIN PIPE
2"W	PROPOSED 2" WATER PIPE
4"SS	PROPOSED 4" SANITARY SEWER PIPE
W	EXISTING 10" WATER PIPE
8"W	EXISTING 8" WATER PIPE
	PROPOSED POINT OF CONNECTION (@ BLDG)
	PROPOSED POINT OF CONNECTION (TO EXISTING)
	FENCING

DOMESTIC WATER

- (W1) HOT TAP EXISTING WATER MAIN AND INSTALL 2" PVC SCH. 80 DOMESTIC WATER PIPE.
- (W2) INSTALL 2" PVC SCH. 80 DOMESTIC WATER PIPE. TRENCHING PER DETAIL 1, SHEET C400.
- (W3) BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO PLUMBING PLANS FOR CONTINUATION.
- (W4) NOT USED.
- (W5) CONNECT 2" WATER PIPE TO HOSE BIB.
- (W6) HOT TAP EXISTING WATER MAIN AND INSTALL 1" PVC SCH. 80 DOMESTIC WATER PIPE.
- (W7) INSTALL 1" PVC SCH. 80 DOMESTIC WATER PIPE. TRENCHING PER DETAIL 1, SHEET C400.
- (W8) CONNECT 1" WATER PIPE TO HOSE BIB.

SEWER

- (S1) BUILDING POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
- (S2) INSTALL 6" SDR-26 PVC SEWER. TRENCHING PER DETAIL 1, HEREON.
- (S3) INSTALL SEWER CLEANOUT. PER DETAIL 1, HEREON,
- (S4) CONNECT TO EXISTING SEWER LINE. CONTRACTOR TO POT HOLE AND CONFIRM THE EXISTING INVERT PRIOR TO CONSTRUCTION.

STORM DRAIN

- (D1) INSTALL 6" PVC PIPE. CONTRACTOR TO ENSURE MINIMUM SLOPE OF 0.50%.
- (D2) INSTALL 18" X 18" CATCH BASIN PER DETAIL 5, SHEET C600.
- (D3) CONNECT TO EXISTING STORM DRAIN LINE CONTRACTOR TO CONFIRM THE EXISTING INVERT PRIOR TO CONSTRUCTION.

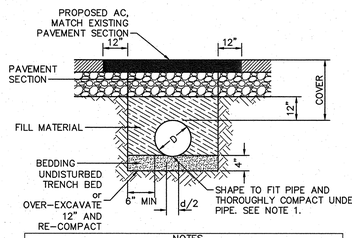
EXISTING UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON AVAILABLE RECORDS. THE CONTRACTOR MUST FIELD DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED UTILITIES TO ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.

MEP SITE UTILITIES

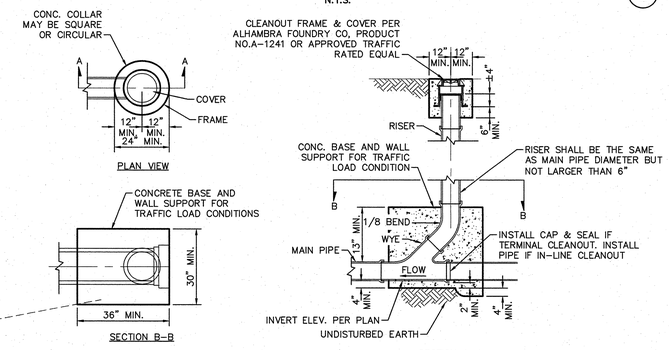
NOTE: MEP SITE UTILITES ARE SHOWN FOR REFERENCE ONLY. REFER TO MEP DRAWINGS AND SPECS FOR MORE INFORMATION. SHOWN FOR COORDINATION PURPOSES ONLY.

(Z1) RECONSTRUCT AND ADJUST UTILITY VAULT TO GRADE. DETAILS BY MEP ENGINEER.



NOTES	
BEDDING:	CLEAN COARSE SAND
FILL MATERIAL:	NATIVE MATERIAL – MAXIMUM SIZE NOT TO EXCEED 1 1/2"
COVER:	36" MINIMUM, OR MINIMUM OF AGENCY HAVING JURISDICTION
NOTE 1:	EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
NOTE 2:	REFER TO GEOTECHNICAL REPORT FOR BEDDING RECOMMENDATIONS

FLEXIBLE PIPE BEDDING AND TRENCH DETAIL (2)
N.T.S.



CLEANOUT DETAIL (1)
N.T.S.

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CONSULTANT:
Kimley»Horn

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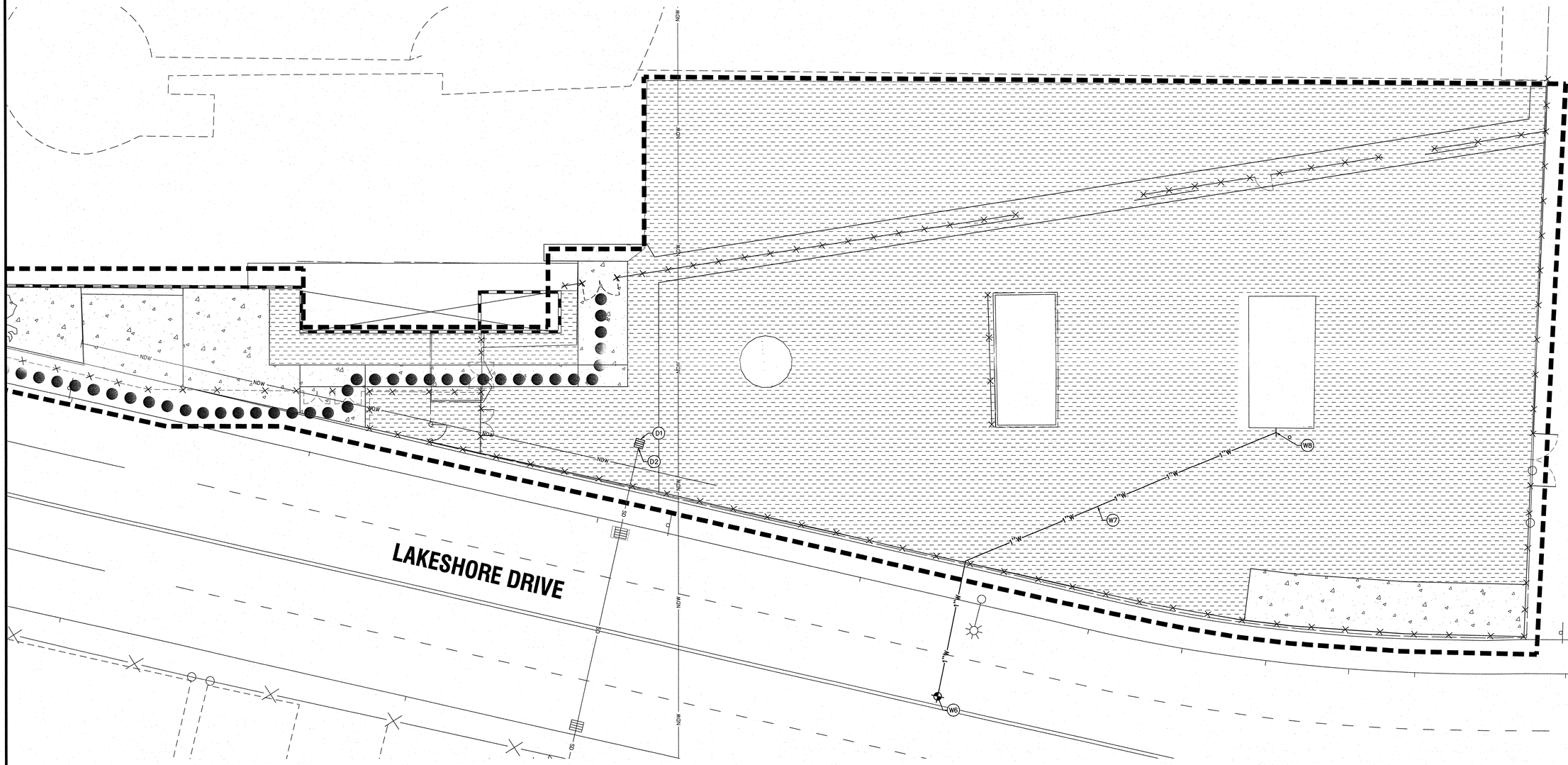
ENGINEER:	DAL
ARCHITECT:	

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER DAVID A. LUZURIAGA No. 56734 CIVIL STATE OF CALIFORNIA
Exp. 9/30/19

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS SS
DATE 04-02-2019

SHEET DESCRIPTION:
UTILITY PLAN

SHEET NO:
C400



LEGEND

6"SD	PROPOSED 6" STORM DRAIN PIPE
2"W	PROPOSED 2" WATER PIPE
4"SS	PROPOSED 4" SANITARY SEWER PIPE
W	EXISTING 10" WATER PIPE
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	PROPOSED POINT OF CONNECTION (@ BLDG)
	PROPOSED POINT OF CONNECTION (TO EXISTING)
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DOMESTIC WATER

- W1 HOT TAP EXISTING WATER MAIN AND INSTALL 2" PVC SCH. 80 DOMESTIC WATER PIPE.
- W2 INSTALL 2" PVC SCH. 80 DOMESTIC WATER PIPE. TRENCHING PER DETAIL 1, SHEET C400.
- W3 BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO PLUMBING PLANS FOR CONTINUATION.
- W4 NOT USED.
- W5 CONNECT 2" WATER PIPE TO HOSE BIB.
- W6 HOT TAP EXISTING WATER MAIN AND INSTALL 1" PVC SCH. 80 DOMESTIC WATER PIPE.
- W7 INSTALL 1" PVC SCH. 80 DOMESTIC WATER PIPE. TRENCHING PER DETAIL 1, SHEET C400.
- W8 CONNECT 1" WATER PIPE TO HOSE BIB.

EXISTING UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON AVAILABLE RECORDS. THE CONTRACTOR MUST FIELD DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED UTILITIES TO ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.

STORM DRAIN

- D1 INSTALL 18" X 18" CATCH BASIN PER DETAIL 5, SHEET C600.
- D2 CONNECT TO EXISTING STORM DRAIN LINE CONTRACTOR TO CONFIRM THE EXISTING INVERT PRIOR TO CONSTRUCTION.

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ARCHITECT:

CONSULTANT:

REGISTERED PROFESSIONAL ENGINEER
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56734
CIVIL
STATE OF CALIFORNIA

STATE:

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC ___ FLS ___ SS ___
DATE 04-02-2019

SHEET DESCRIPTION:
UTILITY PLAN

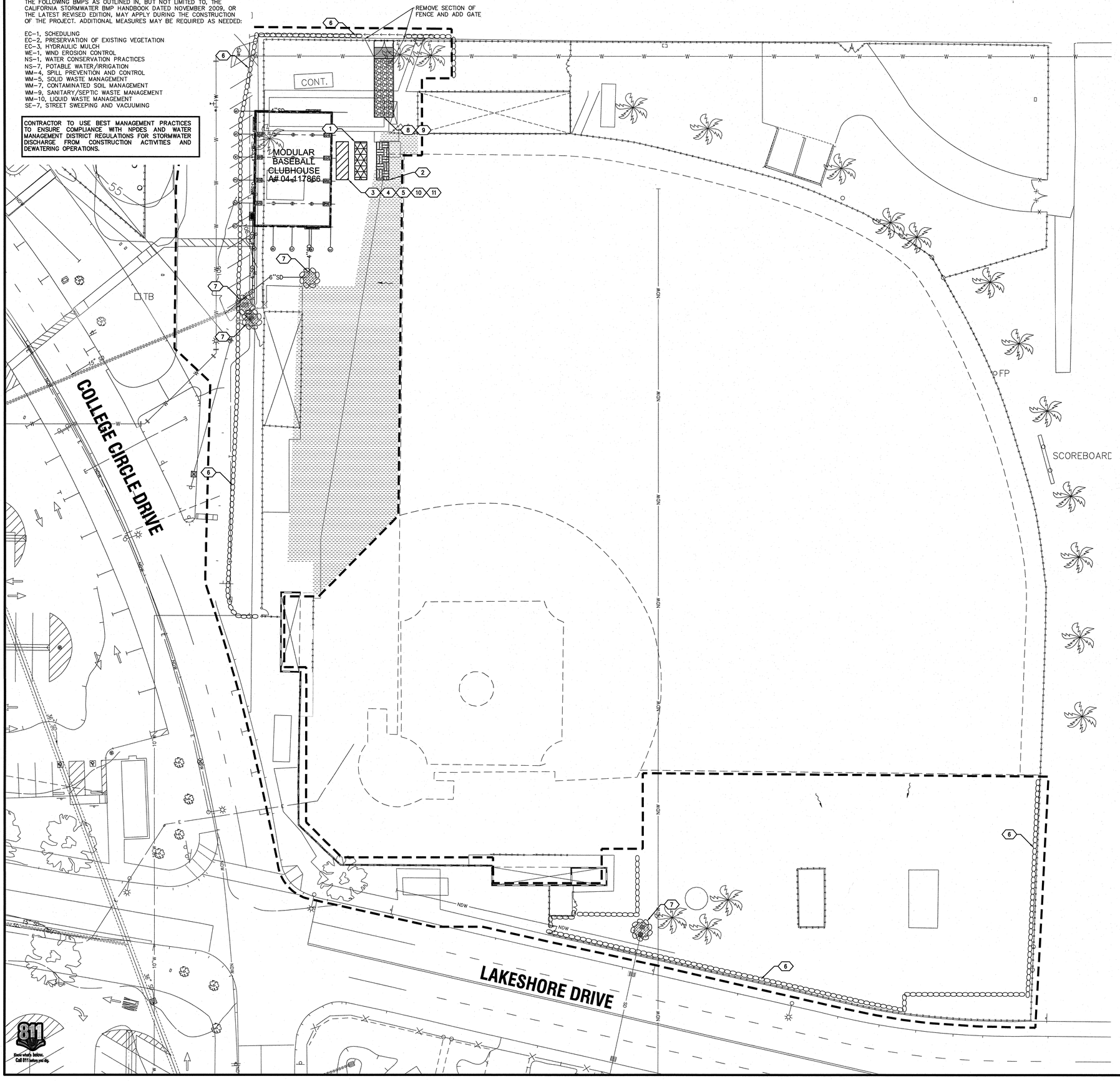
SHEET NO:
C401

BMP NOTES

THE FOLLOWING BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BMP HANDBOOK DATED NOVEMBER 2009, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED AS NEEDED:

EC-1, SCHEDULING
EC-2, PRESERVATION OF EXISTING VEGETATION
EC-3, HYDRAULIC MULCH
WE-1, WIND EROSION CONTROL
NS-1, WATER CONSERVATION PRACTICES
NS-7, POTABLE WATER/IRRIGATION
WM-4, SPILL PREVENTION AND CONTROL
WM-5, SOLID WASTE MANAGEMENT
WM-7, CONTAMINATED SOIL MANAGEMENT
WM-9, SANITARY/SEPTIC WASTE MANAGEMENT
WM-10, LIQUID WASTE MANAGEMENT
SE-7, STREET SWEEPING AND VACUUMING

CONTRACTOR TO USE BEST MANAGEMENT PRACTICES TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.



LEGEND

- PROPERTY LINE
- CIVIL LIMIT OF WORK LINE
- GRAVEL BAGS
- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- STOCKPILE AREA
- SANITARY AREA, TRASH STORAGE, HAZARDOUS MATERIAL, CONCRETE MANAGEMENT, VEHICLE MAINTENANCE AND EQUIPMENT STORAGE AREA
- MATERIAL STORAGE AND DELIVERY
- DIRECTION OF FLOW

GENERAL EROSION CONTROL NOTES

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND MUST NOT CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR ANY OTHER MEANS.
7. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
8. STORM WATER POLLUTION CONTROL REQUIREMENTS MUST BE INTEGRATED ONTO THE EROSION CONTROL PLANS FOR ANY CONSTRUCTION BETWEEN OCTOBER 1 AND APRIL 15. THE FOLLOWING NOTES AND BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORM WATER QUALITY TASK FORCE. SACRAMENTO, CALIFORNIA 1993, OR THE LATEST REVISED EDITION MAY APPLY DURING THE CONSTRUCTION OF PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTIONS).
9. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE CONTRACTOR AND/OR THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
10. ALL STANDARDS REFERENCED FROM 2009 CASQA CONSTRUCTION BMP BOOK.

MAINTENANCE NOTES

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
3. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
4. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

EROSION CONTROL NOTES

1. WM-1, MATERIAL DELIVERY AND STORAGE.
2. WM-3, STOCKPILE MANAGEMENT, CONTRACTOR TO SET UP STOCKPILE AREA.
3. WM-5, SANITARY AREA.
4. WM-6, HAZARDOUS WASTE MANAGEMENT.
5. WM-8, CONCRETE WASTE MANAGEMENT.
6. SE-6 – GRAVEL BAGS; REFER TO DETAIL 1, PER SHEET C600. CONTRACTOR TO MAINTAIN DURING ALL GRADING & MOBILIZATION ACTIVITIES.
7. SE-10, STORM DRAIN INLET PROTECTION. REFER TO DETAIL 2, PER SHEET C600.
8. TR-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT; REFER TO DETAIL 3, PER SHEET C600.
9. TR-3, ENTRANCE/OUTLET TIRE WASH; REFER TO DETAIL 4, PER SHEET C600.
10. NS-10, VEHICLE AND EQUIPMENT MAINTENANCE.
11. SD-32, TRASH STORAGE AREA.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1) AND CHAIN LINK FENCE WITH GREEN SCREEN AND THEN GRAVEL BAGS WHERE SHOWN ON PLAN.
2. INSTALL INLET PROTECTION AT EXISTING INLET(S).
3. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

PHASE 2:
4. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE (30" X 42")

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1790 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:
Kimley»Horn

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765 THE CITY DRIVE, SUITE 200, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488
WWW.KIMLEY-HORN.COM

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

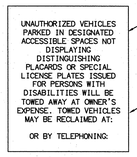
JOB NO:	094842016
DATE:	04-01-2019
DRAWN:	NG
CHECK:	RC
ARCHITECT:	PDW
ENGINEER:	DAL
ARCHITECT:	

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER DAVID A. LUDERITZER C 56734 CIVIL STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO. 04-117630
FILE NO. 30-C1
AC FLS SS
DATE 04-02-2019

SHEET DESCRIPTION:
EROSION CONTROL PLAN

SHEET NO:
C500

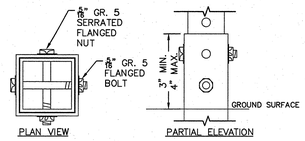


NOTES:

1. "POSTED AT EA. ENTRANCE TO OFF-STREET PARKING FACILITIES"
2. LETTERS AND SYMBOLS SHALL BE PORCELAIN ENAMEL PAINT (WHITE)
3. SIGNS SHALL BE 18" GA. MIN. (BLUE)
4. SIGNS WILL BE MOUNTED PER SIGH POST DETAIL SPECIFIED IN PLANS
5. SIGNS SHALL CONFORM WITH THE MOST CURRENT CALIFORNIA MUTCD STANDARDS

FOR REFERENCE ONLY: APPROVE ALL ALTERATIONS W/ LOCAL BUILDING AGENCY

UNAUTHORIZED VEHICLE PARKING SIGN DETAIL 13
N.T.S.



SQUARE TUBE BREAK AWAY POST

NOTES:

1. GALVANIZED SQUARE TUBE

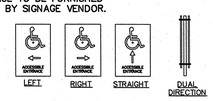
   POST TUBES – 2"x2"x3/16" 14ga
   POST TUBE SHALL MEET ASTM A1011 GRADE 50.
   POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

   ANCHOR TUBE – 2-1/4"x2-1/4"x3/16" 14ga
   HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B. STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

   THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.

SIGN BASE DETAIL 11
N.T.S. REV. DATE: 08.28.2015

NOTE:
ALL ADA SIGNAGE TO BE FURNISHED AND INSTALLED BY SIGNAGE VENDOR.



USE APPROPRIATE ARROWS TO INDICATE ACCESSIBLE PATH OF TRAVEL. USE WWW.COMPLIANCESIGNS.COM MODEL NUMBERS PKE-18498, PKE-18500, AND PKE-18501 OR APPROVED EQUAL.

NOTE: WHITE (REFLECTORIZED) SYMBOLS & BLUE BACKGROUND

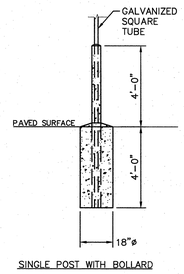
NOTE: SIGNS SHALL BE MOUNTED SO THEY DO NOT PROJECT PATH OF TRAVEL. IF THE SIGN PROJECTS INTO PATH OF TRAVEL, THE SIGN SHALL BE MOUNTED W/ BOTTOM EDGE AT 80" MIN ABOVE THE GROUND SURFACE. SIGN BASE PER DETAIL 4 HEREON.

FOR REFERENCE ONLY: APPROVE ALL ALTERATIONS W/ LOCAL BUILDING AGENCY.

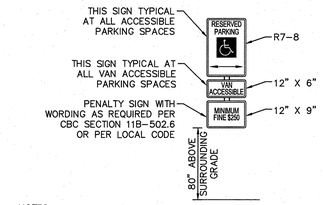
NOTES:

1. SIGNS SHALL MOUNTED ON A POST PER DETAIL 11.

ACCESSIBLE ROUTE SIGN DETAIL 12
N.T.S.



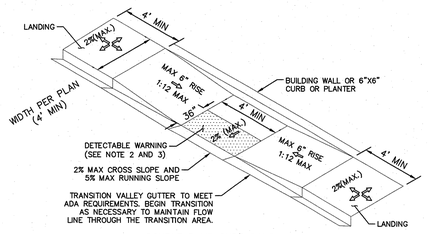
SINGLE POST WITH BOLLARD



NOTES:

1. SIGNS SHALL CONFORM WITH THE MOST CURRENT CALIFORNIA MUTCD STANDARDS.
2. SIGNS SHALL BE WALL MOUNTED OR MOUNTED ON A POST.

ACCESSIBLE PARKING SIGN DETAIL 10
N.T.S. 12.02.2015

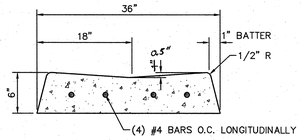


DOUBLE RAMP CURB RAMP

NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE CURB RAMP AND 3' DEEP. GROOVED SURFACES ON OUTDOOR CURB RAMPS ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT. REFER TO ARCHITECTURAL TRUNCATED DOMES DETAIL AND REQUIREMENTS IN THE CALIFORNIA BUILDING CODE.
3. PARALLEL ARCHITECTURAL CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING 36" DEEP ALONG THE FLUSH TRANSITION BETWEEN STREET AND SIDEWALK. REFER TO TRUNCATED DOMES DETAIL.
4. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT- OF -WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
5. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
6. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 3500 PSI.
7. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
10. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%
11. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
12. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

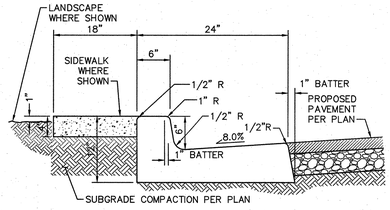
ACCESSIBLE RAMP DETAILS 9
N.T.S. 05.05.2016



NOTE:

CONCRETE SHALL BE 3500 PSI.

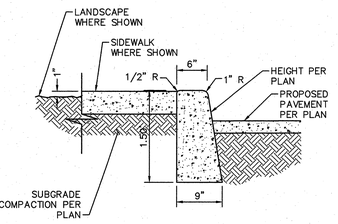
VALLEY GUTTER 8
N.T.S. 05.05.2016



NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

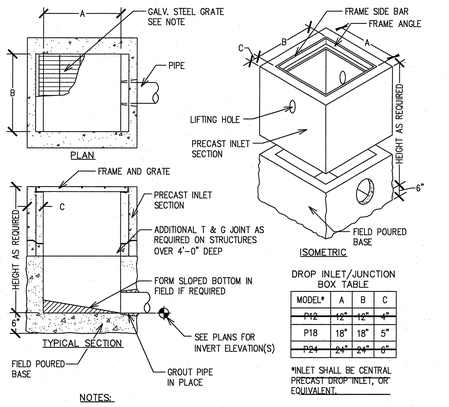
CONCRETE CURB & GUTTER 7
N.T.S. 08.28.2015



NOTES:

1. CONCRETE SHALL BE 2,750 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

CONCRETE CURB 6
N.T.S. 08.28.2015



DROP INLET/JUNCTION BOX TABLE

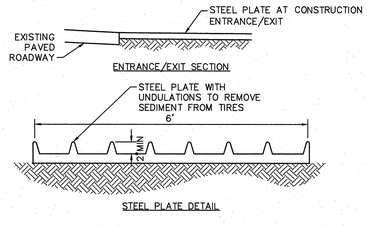
MODEL*	A	B	C
P12	12"	12"	4"
P18	18"	18"	5"
P24	24"	24"	6"

*INLET SHALL BE CENTRAL PRECAST DROP INLET, OR EQUIVALENT.

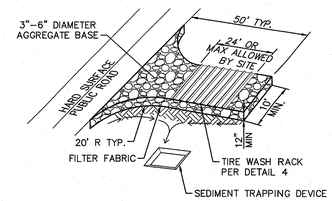
NOTES:

1. FRAMES AND GRATES WITHIN SIDEWALK SHALL BE DESIGNED FOR PEDESTRIAN LOADING.
2. GRATE IN CONCRETE TO BE ADA COMPLIANT. GRATES IN TURF/LANDSCAPE AREAS SHALL BE BICYCLE PROOF. FRAMES AND GRATES WITHIN DRIVE AISLES SHALL BE DESIGNED FOR H20 HIGHWAY LOADS. ½" x 4" BAR SPACING
3. GRATE TO BE ADJUSTED TO PROPOSED GRADE AS SHOWN ON SHEET C301 AND C302.

CATCH BASIN 5
N.T.S.



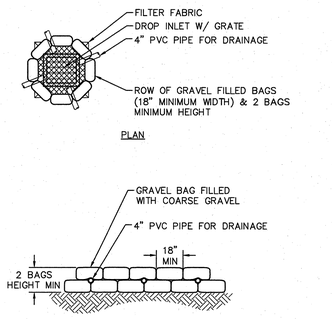
TIRE WASH RACK 4
N.T.S.



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP.

STABILIZED CONSTRUCTION ENTRANCE 3
N.T.S.

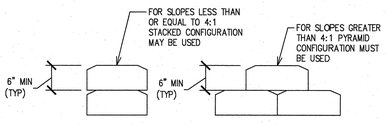


NOTES:

1. GRAVEL BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%
2. GRAVEL BAG SHALL BE FILLED WITH 3/4" ROCK OR 1/4" PEA GRAVEL.
3. PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
4. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.
5. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE.
6. PLACE FILTER FABRIC OVER WIRE MESH. FILTER FABRIC SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ. FT.
7. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

DROP INLET SEDIMENT BARRIER 2
N.T.S.

NOTE:
INSTALL AT LOCATIONS AS SHOWN ON EROSION CONTROL PLAN, AND IN ADDITION, PROTECT ALL EXISTING AND PROPOSED STORM DRAIN STRUCTURES WITH GRAVEL BAGS



GRAVEL BAG BERM (SE-6) 1
N.T.S.

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

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:
Kimley»Horn
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DRAWN:	NG
CHECK:	RC
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ARCHITECT:	

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER DAVID A. LUDERITZ 56734 CIVIL STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS DT SS
DATE 04-02-2019

SHEET DESCRIPTION:
CIVIL DETAILS

SHEET NO:
C600

FIRE ALARM NOTES

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH PROJECT SUBMITTAL GUIDELINE, GL-2 (FLS) DATED 2/10/11

ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL,PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 BC,SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE7-10 CHAPTER 13,26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY,GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THE 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

A. 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.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS ,LESS THAN 5 POUNDS PER FOOT,WHICH ARE SUSPENDED FROM 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 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING.DUCTWORK,AND ELECTRICAL DISTRIBUTIN SYSTEM 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 13.6.5.3,13.6.7,13.6.8,AND 2016 CBC, SECTIONS 1616A. 1.24,1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA 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 PIPIMG (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

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

MP☐ MD☐ PP☐ -OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009) ,INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL_______ AND CONNECTION LEVEL ______ FOR THE PROJECT AND CONDITIONS.

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

2. THIS PROJECT IS A COMPLETE REMODEL OF AN EXISTING BASEBALL FIELD AND BUILDINGS. NEW POWER DISTRIBUTION, LIGHTING, AND FIRE ALARM AT THE DUG OUT TO BE INTERCONNECTED TO EXISTING POWER AND SIGNAL SYSTEMS. REFER TO THE ARCHITECTURAL DRAWINGS FOR NOTES AND OTHER ELECTRICAL REQUIREMENTS NOT SHOWN ON THE ELECTRICAL DRAWINGS AND TO DETERMINE EXISTING CONSTRUCTION TO REMAIN AS WELL AS NEW CONSTRUCTION. IF THERE ARE OMISSIONS OR CONFLICTS BETWEEN THE ELECTRICAL DOCUMENTS AND THE DOCUMENTS OF OTHER TRADES, CLARIFY THESE POINTS WITH THE ARCHITECT BEFORE SUBMITTING A BID. NO EXTRA PAYMENT WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.

3. THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:
   a. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2013 EDITION.
   b. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2013 EDITION.
   c. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2013 EDITION.
   d. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2013 EDITION.
   e. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
   f. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
   g. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
   h. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

4. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

5. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.

6. IN INTERPRETATING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   a. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
   b. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.

7. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   a. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
   b. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES..

8. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY STANDARD PROTOCOL SET FORTH IN A1A DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

9. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

10. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECEIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

11. REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.

12. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE EXISTING BUILDING, AND ALL BUILDING DRAWINGS WHICH MAY AFFECT THE EXECUTION OF THE WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.

13. PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.

14. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER,THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE, AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

15. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

16. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EXISTING CONDUITS. THE EXACT ROUTING SHALL BE VERIFIED IN FIELD AND LENGTH OF CONDUCTORS SHALL BE ADJUSTED TO THE LENGTH REQUIRED.

17. PERFORM CUTTING AND PATCHING ON THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. PATCHING SHALL BE OF THE SAME MATERIAL, WORKMANSHIP AND FINISH AS SPECIFIED AND ACCURATELY MATCH SURROUNDING WORK TO SATISFACTION OF THE ARCHITECT.

18. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.

19. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.

20. PROVIDE COORDINATED SHOP DRAWINGS. INDICATING DIMENSIONED LOCATIONS AND SIZES OF ALL CORE DRILLS FOR REVIEW AND APPROVAL. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED AND APPROVED WITH OWNERS REPRESENTATIVE, STRUCTURAL AND ARCHITECT PRIOR TO CORE DRILL. UTILIZE X-RAY EQUIPMENT TO LOCATE AND VERIFY EXISTING STRUCTURAL ELEMENTS WITHIN SLAB.

21. WHERE EXISTING CIRCUITS ARE SHOWN ON PLANS, THE INFORMATION WAS OBTAINED FROM RECORD DRAWINGS. WHERE NEW CIRCUITS ARE SHOWN IN EXISTING PANELBOARD(S), THE CONTRACTOR SHALL VERIFY THAT THE INDICATED CIRCUITS ARE AVAILABLE IN THE EXISTING PANELBOARD(S), THE CONTRACTOR SHALL RELOCATE SUCH CIRCUITS TO AN AVAILABLE SPACE IN THE EXISTING PANELBOARD(S), AND "AS BUILT" PLANS. IF NO CIRCUIT SPACE IS AVAILABLE IN THE EXISTING PANELBOARD(S), THE CONTRACTOR SHALL REPORT THE DISCREPANCY TO THE ARCHITECT.

22. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.

23. PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.

24. WHERE CIRCUIT CHANGES OR ADDITIONS OCCUR IN PANELBOARDS UPDATE PANEL DIRECTORY CARDS WITH NEW TYPEWRITTEN CARDS INDICATING DESCRIPTION OF ALL CIRCUITS.

25. PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL.

26. UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.

27. UNLESS NOTED OTHERWISE ALL 277 VOLT HOMERUNS OVER 200 FEET SHALL BE #10 AWG MINIMUM, OVER 300 FEET SHALL BE #8 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.

28. CONDUIT FOR TELEPHONE/DATA CABLING SHALL COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
   a. INSIDE BEND RADIUS SHALL BE AT LEAST 10 TIMES ITS INTERNAL DIAMETER.
   b. PROVIDE PULL BOXES WHENEVER CONDUIT LENGTH EXCEEDS 150 FEET AND WHEN COMBINED BENDS ARE GREATER THAN 180 DEGREES.
   c. ALL CONDUIT SHALL BE PROVIDED WITH INSULATED BUSHINGS.
   d. MAINTAIN A MINIMUM CLEARANCE OF 4 FEET FROM MOTORS AND TRANSFORMERS.
   e. MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES FROM POWER CIRCUITS.

29. COORDINATE MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, A/V DEVICES, SECURITY DEVICES, ETC. MOUNTED ON COMMON WALLS SO THAT ALL OUTLETS ARE MOUNTED TO ALIGN HORIZONTALLY.

30. ALL EXISTING ELECTRICAL WITHIN THE DEMOLITION AREAS OF THE BUILDING SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL WALL DEMOLITION DRAWINGS INCLUDED IN THIS SET FOR DEMOLITION AREAS, AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL NOT INDICATED AS BEING REUSED. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
   a. ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.
   b. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.
   c. REMOVE ALL EXISTING EXPOSED CONDUIT, SURFACE RACEWAYS AND CONDUIT CONCEALED IN EXISTING CONSTRUCTION THAT IS TO BE REMOVED. RECONNECT OUTLETS AND LIGHTING FIXTURES WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.
   d. REMOVE ALL EXPOSED CONDUIT, WIRE, OUTLETS, DISCONNECT SWITCHES AND ELECTRICAL MOUNTING HARDWARE FOR MECHANICAL EQUIPMENT BEING REMOVED. PROVIDE WEATHERPROOF CAPS ON ALL CONDUIT PENETRATING ROOF AND ABANDON CONDUIT. REPAIR ROOFING DAMAGED BY REMOVAL OF EXISTING ELECTRICAL.
   e. EXCEPT WHERE EXPOSED CONDUITS ARE SHOWN ON PLANS, INSTALL ALL NEW CONDUITS CONCEALED IN WALLS, FURRED CEILING, OR UNDER FLOOR SPACE.
   f. LIGHT FIXTURES AND ELECTRICAL DEVICES INDICATED TO BE REMOVED AND REINSTALLED SHALL BE REMOVED AND PROPERLY STORED TO PROTECT FROM DAMAGE UNTIL SUCH TIME THAT IT IS REINSTALLED. ALL FIXTURES TO BE REINSTALLED SHALL BE FULLY OPERABLE AND SHALL FIRST BE CLEANED, RELAMPED, DEFECTIVE BALLASTS REPLACED AND CRACKED OR BROKEN DIFFUSERS/LENSES REPLACED.
   g. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.
   h. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

31. NOTIFY THE ARCHITECT IN WRITING WHEN INSTALLATION IS COMPLETE AND THAT A FINAL INSPECTION OF THIS WORK CAN BE PERFORMED. IN THE EVENT DEFECTS OR DEFICIENCIES ARE FOUND DURING THIS FINAL INSPECTION, THEY SHALL BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT BEFORE FINAL ACCEPTANCE CAN BE ISSUED.

SYMBOL LIST

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS)
ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS.
VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

- (A / E-1) PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-1 FOR PANEL SCHEDULE.
- TERMINAL CABINET OR EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.
- (A / E-1) FLOOR STANDING SWITCHGEAR ADJACENT BALLOON INDICATES EQUIPMENT DESIGNATION "DBA", SEE DRAWING E-1 FOR SINGLE LINE DIAGRAM AND/OR SCHEDULE.
- CIRCUIT BREAKER STATIONARY (NON-DRAWOUT), SECONDARY VOLTAGE.
- FUSIBLE SWITCH AND FUSE DEVICE. STATIONARY SWITCH (NON- DRAWOUT) REMOVABLE FUSES, SECONDARY VOLTAGE.
- TRANSFORMER; KVA, LINE AND LOAD VOLTAGE RATINGS AS INDICATED.
- FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED. MOUNT ON WALL +45", OR ONEQUIPMENT +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.
- MOTOR CONNECTION. PROVIDE FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED, WALL MOUNTED, +45" OR EQUIPMENT MOUNTED, +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.
- MCA-11 — HOME RUN TO MCA-11, INDICATES MOTOR CONTROL CENTER "MCA" CIRCUIT NO. 11. SEE RESPECTIVE SCHEDULE FOR WIRE AND CONDUIT.
- (3) ☒ MAGNETIC MOTOR STARTER: NUMBER INDICATES "NEMA" SIZE "3".
- (3) ☒ COMBINATION MAGNETIC MOTOR STARTER: NUMBER INDICATES "NEMA" SIZE "3".
- CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.
  - 1/2" C - 2 #12, 1#12(GRD)
  - 1/2" C - 3 #12, 1#12(GRD)
  - 3/4" C - 4 #12, 1#12(GRD)
  - 3/4" C - 5 #12, 1#12(GRD)
  - 3/4" C - 6 #12, 1#12(GRD)
  - 1" C - 7 #12, 1#12(GRD)
  - 1" C - 8 #12, 1#12(GRD)
  - 1 1/4" C - 9 #12, 1#12(GRD)
- CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.
- CONDUIT, INSTALLED EXPOSED.
- —E— EXISTING CONDUIT TO REMAIN.
- —R— EXISTING CONDUIT TO BE REMOVED.
- B-5,7 HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7 WITH SEPARATE NEUTRAL.
- UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.
- +45" MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE
- (1) PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
- INDICATES CONDUIT SLEEVE(S) THROUGH WALL ABOVE THE CEILING. NUMBER AND SIZE OF CONDUITS AS NOTED.
- (C / E-2) DETAIL CALLOUT, "C" INDICATES DETAIL, "E-2" INDICATES DRAWING WHERE DETAIL OCCURS.
- 2,P / a,b SINGLE POLE TOGGLE SWITCH, ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:
  2 - DOUBLE POLE 4 - FOUR WAY M - MANUAL MOTOR STARTERS
  3 - THREE WAY P - PILOT LIGHT K - KEY OPERATED
  R - SPDT MOMENTARY CONTACT RELAY SWITCH V - VAPOR PROOF
  a,b,c,d, ETC. - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED.
- DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.
- DUPLEX CONVENIENCE RECEPTACLE HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER SPLASH.
- DUPLEX CONVENIENCE RECEPTACLE SPLIT WIRED, ON FLUSH WALL MOUNTED OUTLET BOX, +18".
- DOUBLE DUPLEX (FOUR-PLEX) CONVENIENCE RECEPTACLE ON ONE FLUSH WALL MOUNTED OUTLET BOX +18".
- DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX +18".
- DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER SPLASH.
- WP DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, IN FLUSH WALL MOUNTED ENCLOSURE WITH HINGED DOOR, LOCK AND KEY, +18".
- WP DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, ON FLUSH WALL MOUNTED OUTLET BOX WITH SPRING DOOR COVER, +18".
- CONNECTED TO SOLID GROUND REFERENCE POINT
- 2D COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON FLUSH IN WALL OUTLET BOX, +18" U.N.O. PROVIDE OUTLET BOX, DATA JACKS, FACE PLATE, ETC. AND 1" CONDUIT TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- 1D COMPUTER/DATA OUTLET WITH ONE (1) DATA OUTLET CONNECTOR, ON FLUSH IN WALL OUTLET BOX, +18" U.N.O. PROVIDE OUTLET BOX, DATA JACKS, FACE PLATE, ETC. AND 1" CONDUIT TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE ONE (1) CAT 6E DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- WAP COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON CEILING MOUNTED OUTLET BOX, FOR WIRELESS ACCESS POINT. PROVIDE OUTLET BOX, DATA JACK, FACE PLATE, ETC. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- AV AUDIO/VIDEO OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX WITH COVERPLATE AND GROMETTED OPENING PROVIDE OUTLET BOX, COVERPLATE AND 2" CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECT/COLLEGE REPRESENTATIVE PRIOR TO ROUGH-IN.
- V AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45"A.F.F. LOCATED AT TEACHER'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL DOWN TO AV CONNECTOR PLATE. AT +18"A.F.F. VERIFY EXACT LOCATION WITH ARCHITECT/COLLEGE REPRESENTATIVE PRIOR TO ROUGH-IN.
- TELECOMMUNICATIONS OUTLET ON FLUSH WALL MOUNTED OUTLET BOX +18", WITH DESK MOUNTED DEVICE. PROVIDE 1"C. WITH CONDUCTORS AS SPECIFIED STUBBED INTO ACCESSIBLE CEILING SPACE.

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ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
AF/AT	AMP FRAME, AMP TRIP
AS/AF	AMP SWITCH, AMP FUSE
AV	AUDIO VISUAL
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
C	CONDUIT
C.O.	CONDUIT ONLY
CONN	CONNECTED
DIA	DIAMETER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
R	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT
FT. OR '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN. OR "	INCHES
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
L.O.	LUGS ONLY
LTG, LTS	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MH	METAL HALIDE
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
PRIMARY	OVER 600 VOLTS
PH. OR	PHASE
PROVIDE	FURNISH, INSTALL AND CONNECT
PA	PUBLIC ADDRESS
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
	RELOCATED EXISTING EQUIPMENT
SECONDARY	600 VOLTS AND LESS
	INDICATES DEVICE ON SURFACE WALL MOUNTED OUTLET BOX.
TV	TELEVISION
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT AMPERES
WP	WEATHERPROOF
W	WIRE
DFCI	DISTRICT FURNISHED CONTRACTOR INSTALLED
DFDI	DISTRICT FURNISHED DISTRICT INSTALLED
BLDG.	BUILDING
IWB	INTERACTIVE WHITE BOARD
AVC	AUDIO/VIDEO CABINET
1P	SINGLE POLE
2P	DOUBLE POLE
3P	TRIPLE POLE
FACP	FIRE ALARM CONTROL PANEL

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949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 223.053

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER STEVEN R. ... No. E 10372 Exp. 09-30-20 ELECTRICAL STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS / FLS DT SS
DATE APR 0 2 2019

SHEET DESCRIPTION:
SYMBOL LIST, NOTES AND DETAILS

SHEET NO:
E-0.1

CYPRESS COLLEGE — PROJECT NO. 223 053

VOLTS 277/480, PHASE 3PH, 4W, MTG SURFACE — PANELBOARD L1 — LOCATION ELEC. RM — MAIN 350A BUS 400A

CKT	A	B	C	TYPE	BKR	QUAN	DESCRIPTION	CKT	A	B	C	TYPE	BKR	QUAN	DESCRIPTION
1		-----	-----				PROVISION	A 2	25000	-----	-----	G	125/3	1	TRANSFORMER "T1"
3	-----		-----				PROVISION	B 4	-----	25000	-----	G	--	--	-----
5	-----	-----					PROVISION	C 6	-----	-----	25000	G	--	--	-----
7		-----	-----				PROVISION	A 8		-----	-----				PROVISION
9	-----		-----				PROVISION	B 10	-----		-----				PROVISION
11	-----	-----					PROVISION	C 12	-----	-----					PROVISION
13		-----	-----				PROVISION	A 14		-----	-----				PROVISION
15	-----		-----				PROVISION	B 16	-----		-----				PROVISION
17	-----	-----					PROVISION	C 18	-----	-----					PROVISION
19		-----	-----				PROVISION	A 20		-----	-----				PROVISION
21	-----		-----				PROVISION	B 22	-----		-----				PROVISION
23	-----	-----					PROVISION	C 24	-----	-----					PROVISION
25		-----	-----				PROVISION	A 26		-----	-----				PROVISION
27	-----		-----				PROVISION	B 28	-----		-----				PROVISION
29	-----	-----					PROVISION	C 30	-----	-----					PROVISION
31		-----	-----				PROVISION	A 32		-----	-----				PROVISION
33	-----		-----				PROVISION	B 34	-----		-----				PROVISION
35	-----	-----					PROVISION	C 36	-----	-----					PROVISION
37		-----	-----				PROVISION	A 38		-----	-----				PROVISION
39	-----		-----				PROVISION	B 40	-----		-----				PROVISION
41	-----	-----					PROVISION	C 42	-----	-----					PROVISION

CONNECTED: VA / AMPS
PHASE A = 25000 / 90
PHASE B = 25000 / 90
PHASE C = 25000 / 90
TOTAL = 75000 / 90

L.C.L. @ 125% =
RECEPT. ( ) 10 kVA @ 50% =
KITCHEN @ 65% =
OTHER LOAD @ 100% = 75000
TOTAL VA = 75000
TOTAL AMPS = 90

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) MI - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

CYPRESS COLLEGE — PROJECT NO. 223 053

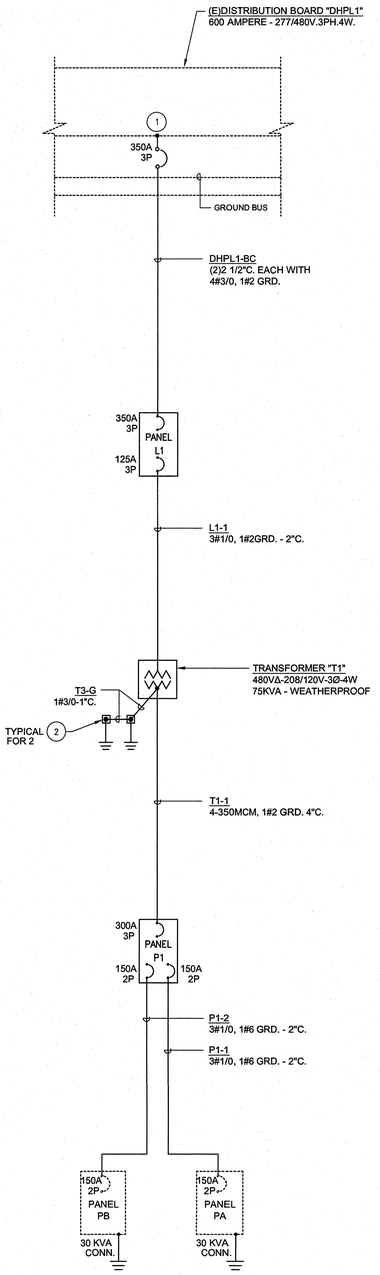
VOLTS 120/208, PHASE 3PH, 4W, MTG SURFACE — PANELBOARD P1 — LOCATION ELEC. RM — MAIN 300A BUS 400A

CKT	A	B	C	TYPE	BKR	QUAN	DESCRIPTION	CKT	A	B	C	TYPE	BKR	QUAN	DESCRIPTION
1	360	-----	----- R		20/1	2	FIELD RECEPTACLE	A 2	15000	-----	-----	G	150/2	1	PANEL "PM"
3	-----	360	----- R		20/1	2	FIELD RECEPTACLE	B 4	-----	15000	-----	G	--	--	-----
5	-----	-----	360 R		20/1	2	FIELD RECEPTACLE	C 6	-----	-----	15000	G	150/2	1	PANEL "PB"
7		-----	-----		20/1		SPARE	A 8	15000	-----	-----	G	--	--	-----
9	-----		-----		20/1		SPARE	B 10	-----		-----		20/1		SPARE
11	-----	-----			20/1		SPARE	C 12	-----	-----			20/1		SPARE
13		-----	-----		20/1		SPARE	A 14		-----	-----		20/1		SPARE
15	-----		-----		20/1		SPARE	B 16	-----		-----		20/1		SPARE
17	-----	-----			20/1		SPARE	C 18	-----	-----			20/1		SPARE
19		-----	-----		20/1		SPARE	A 20		-----	-----		20/1		SPARE
21	-----		-----		20/1		SPARE	B 22	-----		-----		20/1		SPARE
23	-----	-----			20/1		SPARE	C 24	-----	-----			20/1		SPARE
25		-----	-----				PROVISION	A 26		-----	-----				PROVISION
27	-----		-----				PROVISION	B 28	-----		-----				PROVISION
29	-----	-----					PROVISION	C 30	-----	-----					PROVISION
31		-----	-----				PROVISION	A 32		-----	-----				PROVISION
33	-----		-----				PROVISION	B 34	-----		-----				PROVISION
35	-----	-----					PROVISION	C 36	-----	-----					PROVISION
37		-----	-----				PROVISION	A 38		-----	-----				PROVISION
39	-----		-----				PROVISION	B 40	-----		-----				PROVISION
41	-----	-----					PROVISION	C 42	-----	-----					PROVISION

CONNECTED: VA / AMPS
PHASE A = 30360 / 253
PHASE B = 15360 / 128
PHASE C = 15360 / 128
TOTAL = 61080 / 170

L.C.L. @ 125% =
RECEPT. ( ) 10 kVA @ 50% = 1080
KITCHEN @ 65% =
OTHER LOAD @ 100% = 60000
TOTAL VA = 61080
TOTAL AMPS = 170

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) MI - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)



DETAIL NOTES:

1. PROVIDE NEW CIRCUIT BREAKER IN SPACE OF EXISTING MAIN SWITCHBOARD TO MATCH A.I.C. RATING OF DEVICES CURRENTLY USED. PROVIDE ALL REQUIRED MOUNTING HARDWARE.
2. PROVIDE 12" X 12" X 12"D. BOTTOMLESS CONCRETE PULLBOX WITH PEA GRAVEL BASE AND CHEMICAL ASSEMBLY GROUND ROD. MOUNT PULLBOX FLUSH ON GRADE AND ENGRAVE COVER "GROUND" QUANTITY AS REQUIRED TO ACHIEVE 25 OHMS TO GROUND MAXIMUM.

NOTE:

1. ALL EQUIPMENT SHOWN DASHED IS EXISTING. ALL OTHER EQUIPMENT SHALL BE PROVIDED UNDER THIS CONTRACT.
2. THE EXISTING ELECTRICAL SERVICE IS SUFFICENT TO SERVE THE NEW LOAD INDICATED.

PARTIAL SINGLE LINE DIAGRAM — SCALE NONE — A

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaeng.com
FBA Job Number: 223.053

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

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No.	Rev. Date	Description

JOB NO: 16023
DATE: 04-02-2019
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ENGINEER:
ARCHITECT:

CONSULTANT:

REGISTERED PROFESSIONAL ENGINEER — 16372 — RENEWAL 09-30-20 — ELECTRICAL — STATE OF CALIFORNIA

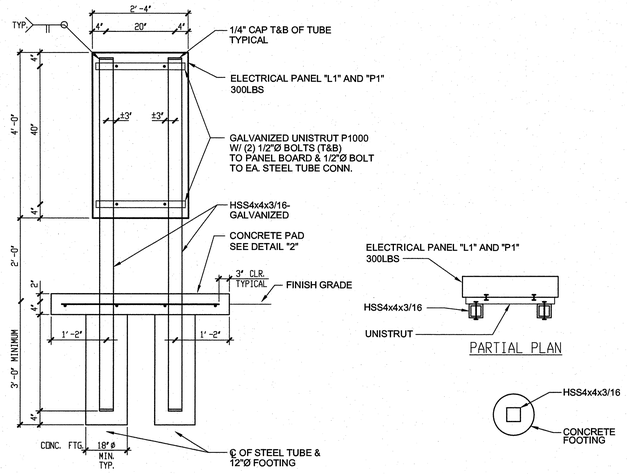
STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS FLS DSA
DATE APR 02 2019

SHEET DESCRIPTION:
FIXTURE SCHEDULE, SINGLE LINE DIAGRAM, DETAILS

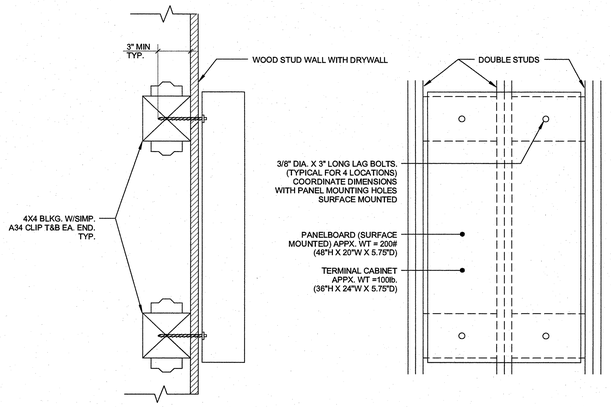
SHEET NO:
E-0.2

FBA Engineering / Plot Date: 3/26/2019 2:52 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053\E-0.2_223053.dwg



DISCONNECT SWITCH SUPPORT ASSEMBLY

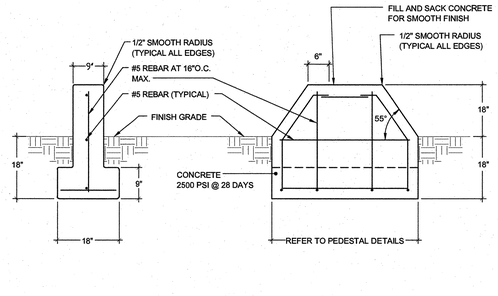
SCALE: NONE | G



WOOD STUD WALL

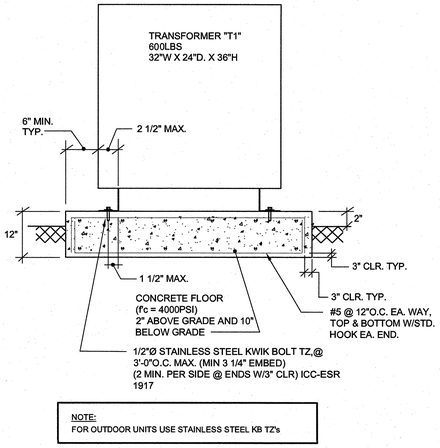
SURFACE MOUNTING PANELBOARD

SCALE: NONE | D



FIELD PEDESTAL REINFORCEMENT DETAIL

SCALE: NONE | A



NOTE:
FOR OUTDOOR UNITS USE STAINLESS STEEL KB TZ's

TRANSFORMER ANCHORAGE DETAIL

SCALE: NONE | H

NEW FINISH GRADE SHOULD MATCH AND BE FLUSH WITH EXISTING FINISH GRADE. IF PATCHES ARE MADE TO PEDESTRIAN PAVEMENT, THEY SHALL COMPLY WITH 11B-302.1 AND 11B-303 TYPICAL.

EXISTING FINISH GRADE

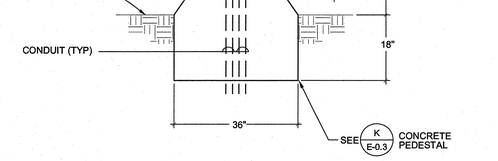
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

DUCT BANK NOTES:

1. NATIVE SOIL BACK FILL
2. 3" WIDE WARNING TAPE LOCATED 12" BELOW GRADE. TAPE SHALL INDICATE: CAUTION BURIED ELECTRICAL CONDUIT".
3. 3" BETWEEN IDENTICAL SYSTEM CONDUITS OR 24" BETWEEN DIFFERENT SYSTEM CONDUITS.
4. DAMP SAND BACK FILL TO WITHIN 12" OF FINISH GRADE.
5. 6" BED OF DAMP SAND.
6. 36" IN TRAFFIC AREAS, 24" IN NON-TRAFFIC AREAS.
7. CONCRETE ENCASEMENT.
8. 3" MINIMUM COVERAGE.
9. REFER TO PLANS FOR CONDUITS SIZE AND QUANTITIES.

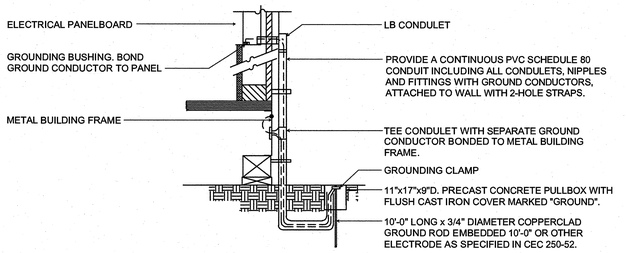
CONDUIT DUCT BANK DETAIL

SCALE: NONE | E



FIELD PEDESTAL REINFORCEMENT DETAIL

SCALE: NONE | B

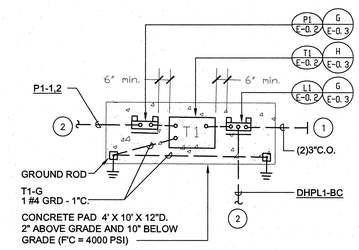


NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC. TABLE 250.66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250.52). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOTE ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN SIX FEET AWAY (CEC 250.56). ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL GROUND RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER CEC 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN CEC 250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.
8. SEE SPECIFICATIONS FOR TESTING OF GROUNDING REQUIRED.

MODULAR BUILDING GROUND DETAIL

SCALE: NONE | I

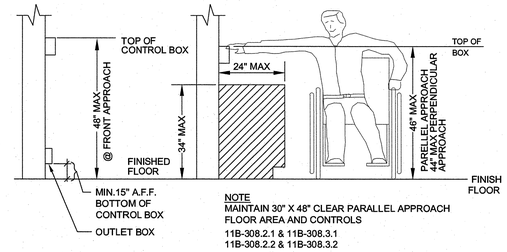


DUCT BANK NOTES:

1. STUB AND CAP CONDUITS BELOW GRADE. PROVIDE FLUSH IN GRADE MARKER.
2. REFER TO 1/E-2.1 FOR CONTINUATION.

ENLARGED SITE ELECTRICAL PLAN

SCALE: 1/4"=1'-0" | F



NOTE
MAINTAIN 30" X 48" CLEAR PARALLEL APPROACH FLOOR AREA AND CONTROLS
11B-308.2.1 & 11B-308.3.1
11B-308.2.2 & 11B-308.3.2

MOUNTING HEIGHT OVER OBSTRUCTION

SCALE: NONE | C

architecture
westbergwhite
16471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
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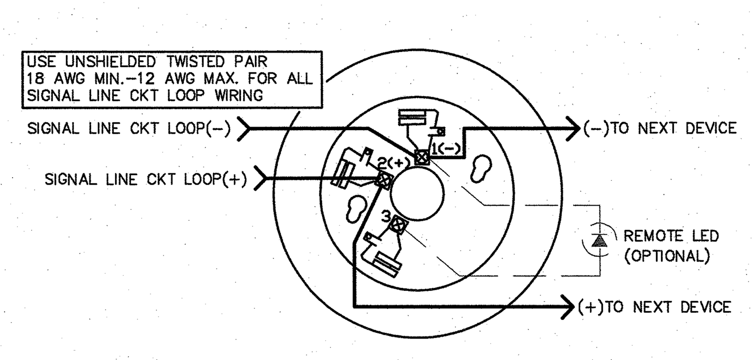
04 117630
ACS FLS SS
DATE APR 02 2019

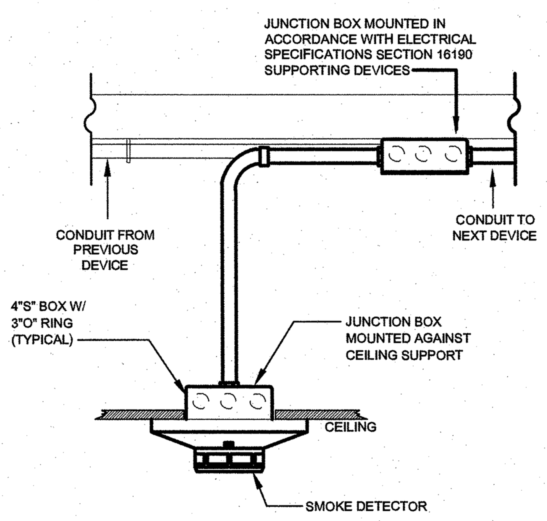
SHEET DESCRIPTION:
DETAILS

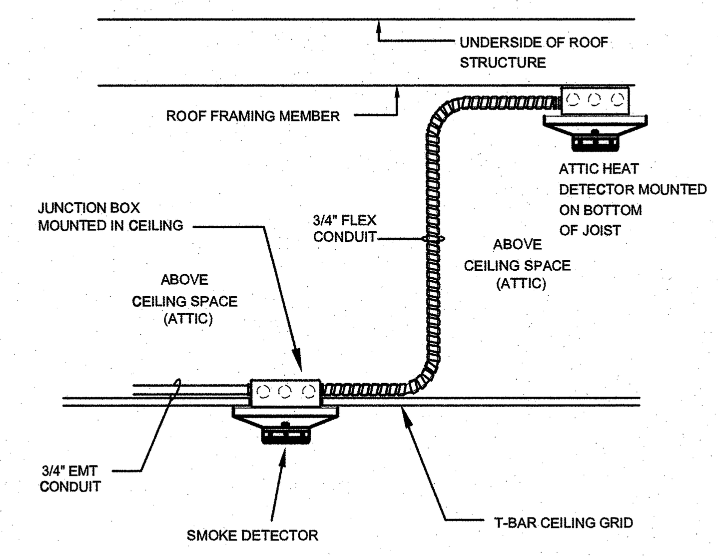
SHEET NO:
E-0.3

FBA Engineering / Plot Date: 3/26/2019 2:52 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053\E-0.3_223053.dwg

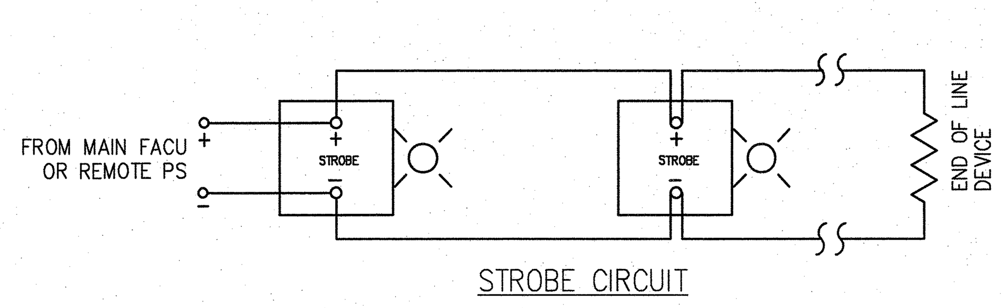


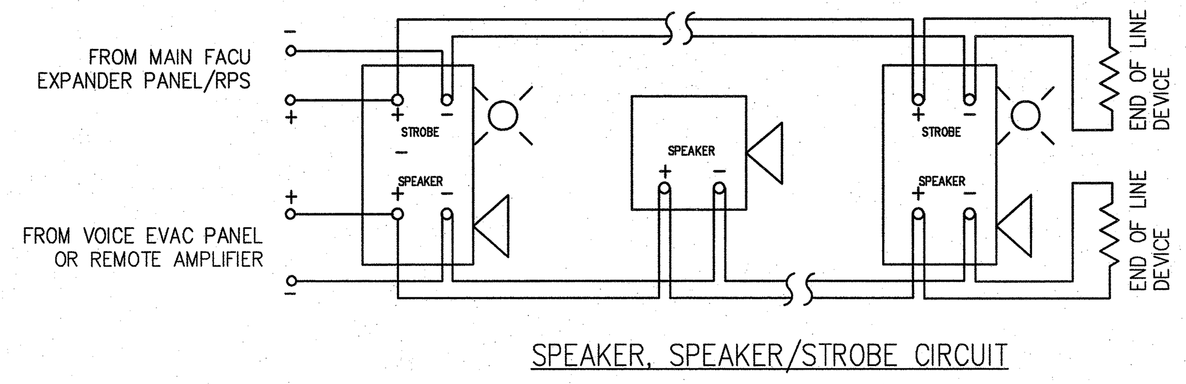
CONTRACTOR SHALL PROVIDE A HINGE, SPRING LOADED ACCESS PANEL OPENING IN ALL NON-ACCESSIBLE CEILING SPACES FOR NEW HEAT DETECTOR ACCESSIBILITY. ACCESS PANEL SHALL MAINTAIN INTEGRITY OF EXISTING CEILING. COORDINATE EXACT LOCATION WITH EXISTING LIGHTS, EXISTING HVAC EQUIPMENT AND EXISTING HVAC DUCT SYSTEM AS REQUIRED.





SMOKE DETECTOR / HEAT DETECTOR WIRING AND MOUNTING





NOTIFICATION APPLIANCE WIRING

SIMPLEX 4100ES "FACP" FIRE ALARM BATTERY CALCULATIONS

QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
1	4100-9111 MASTER CONTROLLER	0.373	0.470
1	74100-3102 MAPNET II MODULE	0.255	0.275
1	4100-5101 EXPANSION POWER SUPPLY	0.050	0.050
1	4100-5115 NAC EXPANSION MODULE	0.250	0.250
0	ANNUNCIATOR	0.000	0.000
10	SMOKE DETECTOR	0.003	0.280
11	HEAT DETECTOR	0.003	0.308
0	PULL STATION	0.000	0.000
5	15cd STROBE	0.000	0.375
1	30cd STROBE	0.000	0.125
1	75cd STROBE	0.000	0.233
1	110cd STROBE	0.000	0.316
3	0.5W SPEAKER	0.000	0.060
4	1W SPEAKER	0.000	0.160
	TOTAL CURRENTS	0.934	2.902

TOTAL STAND-BY CURRENT X 24 HOURS = 0.934 X 24 = 22.423 A-HR
TOTAL ALARM CURRENT X 15 MINUTES = 2.90 X 0.250 = 0.726 A-HR

TOTAL MINIMUM AMP HOURS OF BATTERIES = 23.149 A-HR
20% ADDITIONAL LOAD ABOVE TOTAL MINIMUM AMP HOURS OF BATTERIES = 27.778 A-HR

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STAND BY AND 15 MINUTES OF ALARM CURRENT
2. PROVIDE MINIMUM ADDITION 35 A-HOURS ADDITIONAL EMERGENCY BACKUP BATTERY POWER AND EXTERNAL BATTERY BACKBOX CABINET

VOLTAGE DROP CALCULATION

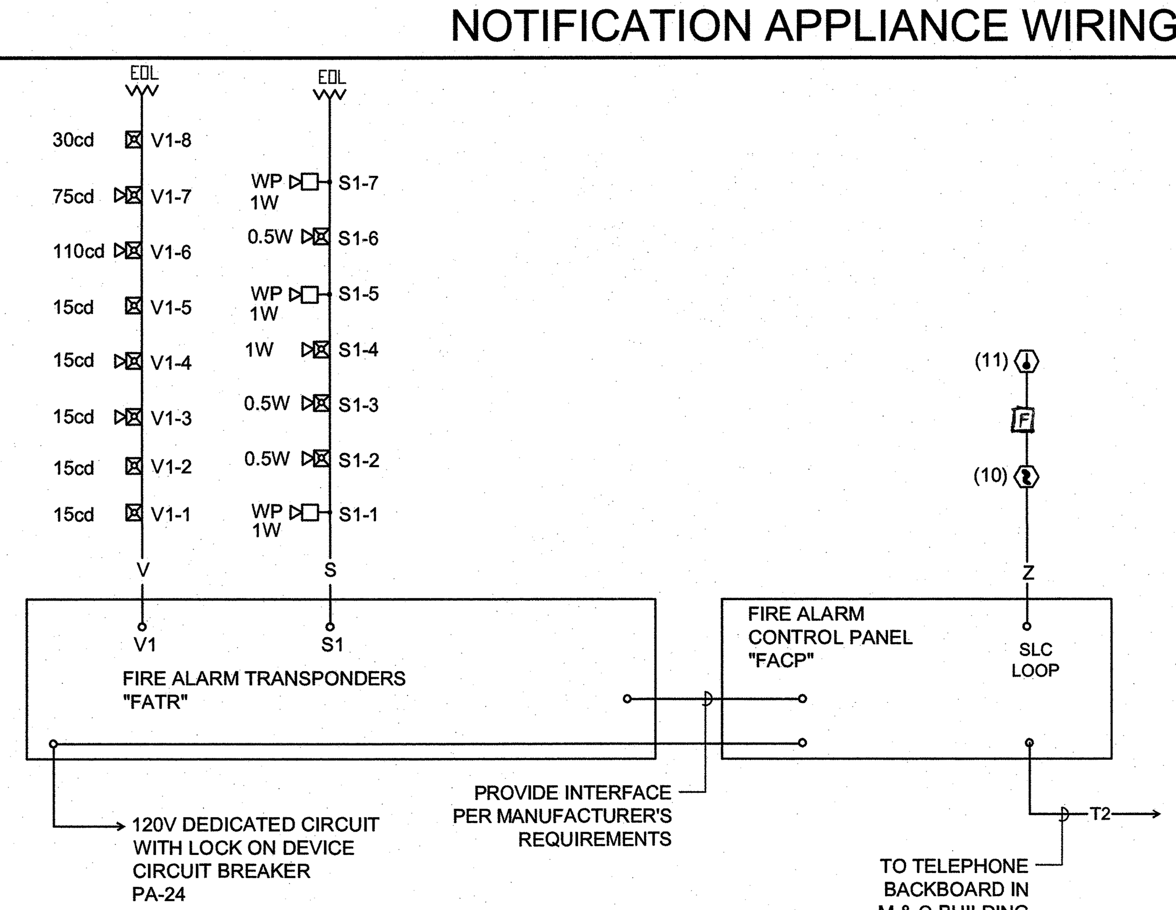
DEVICE	DEVICE CURRENT (AMPS)	SIGNAL V1 QTY	FROM FAT1 CURR	QTY TOTAL
Ceiling Strobes				
15cd	0.075	5	0.375	5
30cd	0.125	1	0.125	1
75cd	0.233	1	0.233	1
110cd	0.316	1	0.316	1
TOTAL CURRENT ON CIRCUIT		1.049	CURR. AMPS	
TOTAL WIRE LENGTH		250	FT.	
% VOLTAGE DROP		3.61	%	
WIRE SIZE	# AWG	12	6530	
CIRCUIT LOCATION		CLUBHOUSE		

Speaker
VOLTAGE DROP CALCULATION

DEVICE	DEVICE CURRENT (AMPS)	SIGNAL S1 QTY	FROM FAT1 CURR	QTY TOTAL
Speakers				
1/2 Watt Speaker (70.7v)	0.020	3	0.060	3
1 Watt Speaker (70.7v)	0.040	4	0.160	4
TOTAL CURRENT ON CIRCUIT		0.220	CURR. AMPS	
TOTAL WIRE LENGTH		250	FT.	
% VOLTAGE DROP		1.20	%	
WIRE SIZE	# AWG	14	4110	
CIRCUIT LOCATION		CLUBHOUSE		

CIRC. MILS	
18 AWG = 1620	VOLTAGE DROP = DISTANCE X TOTAL CURR. X 21.6 / CIRCULAR MILS
16 AWG = 2580	
14 AWG = 4110	% VOLTAGE DROP = VOLTAGE DROP X 100 / 24 VOLTS
12 AWG = 6530	

NOTIFICATION APPLIANCE WIRING



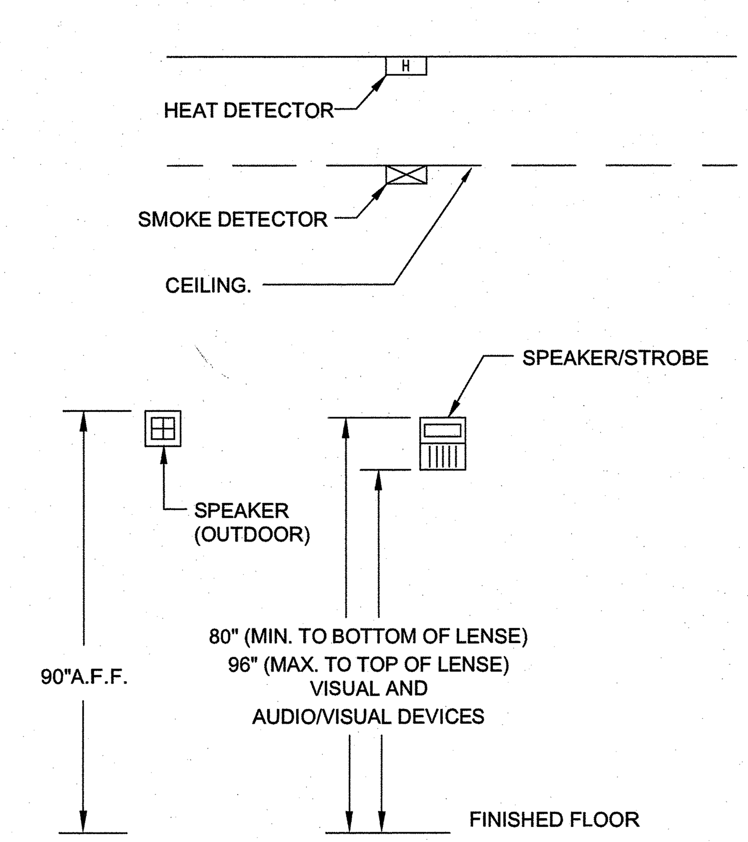
FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS THROUGH THE TELEPHONE LINES TO AN APPROVED MONITOR COMPANY IN ACCORDANCE WITH NFPA 72. THE MONITOR COMPANY SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC.

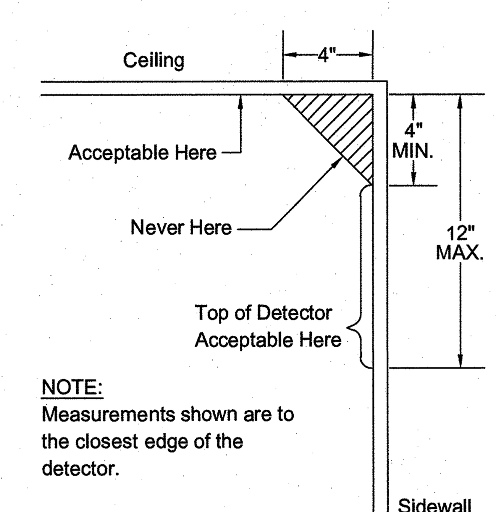
FIRE ALARM RISER DIAGRAM

FIRE ALARM EQUIPMENT SCHEDULE

ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING NUMBER	NOTES
FIRE ALARM CONTROL PANEL WITH BUILT IN DIGITAL VOICE COMMANDER, PAGING MICROPHONE, "FACP"		+48"	SIMPLEX 4100ES	7165-0026:0251	0.170A 0.248A
FIRE ALARM TRANSPONDERS WITH BUILT-IN POWER SUPPLY AND AMPLIFIER "FAT_"		+48"	SIMPLEX 4100-9600, 4100-1291 4100-5101, 4100-0634 4100-0622, 4100-1327	7165-0026:0251	0.050A 0.050A 0.242A 0.949A
PULLSTATION ON FLUSH WALL MOUNTED OUTLET	F	+48"	SIMPLEX 4099-9001	7150-0025:0224	
SMOKE DETECTOR PHOTOELECTRIC TYPE ON FLUSH CEILING MOUNTED OUTLET BOX		CEILING	SIMPLEX 4098-9714	7272-0026:0218	0.00027A 0.028A
HEAT DETECTOR 155° ON SURFACE MOUNTED OUTLET BOX IN ATTIC SPACE.		ATTIC	SIMPLEX 4098-9733	7270-0026:0216	0.00027A 0.028A
WEATHERPROOF SPEAKER ON FLUSH WALL MOUNTED WEATHERPROOF OUTLET BOX	WP 1W	+90"	SYSTEM SENSOR SPRK	7320-1653:0201	0.040A
ELECTRONIC VISUAL AND SPEAKER DEVICE ON FLUSH CEILING MOUNTED OUTLET BOX (#cd DENOTES CANDELA)	#cd	CEILING	SIMPLEX 4906-9254	7320-0026:0322	
ELECTRONIC VISUAL DEVICE ON FLUSH CEILING MOUNTED OUTLET BOX (#cd DENOTES CANDELA)	#cd	CEILING	SIMPLEX 4906-9102	7125-0026:0235	

FIRE ALARM DEVICE MOUNTING ELEVATIONS





NOTE:
Measurements shown are to the closest edge of the detector.

FIRE ALARM SYSTEM NOTES

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP

REFER TO ARCHITECTURAL DRAWINGS.

B. CONSTRUCTION TYPE

REFER TO ARCHITECTURAL DRAWINGS.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS
A. APPLICABLE CODES AS OF JANUARY 1, 2014

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.: (2012 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2016 CALIFORNIA ENERGY CODE (CEC),PART 6, TITLE 24 C.C.R.
2007 ASME A17.1 (W/A17.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14 STANDPIPE SYSTEMS	2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A WET CHEMICAL SYSTEMS	2016 EDITION
NFPA 20 STATIONARY PUMPS	2016 EDITION
NFPA 24 PRIVATE FIRE MAINS (INCLUDED IN 2002 NFPA 13)	2016 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2016 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILD DRAWINGS AND EQUIPMENT SPECIFICATIONS.

4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING AND MAINTENANCE (2013) COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

5.0 MANUAL FIRE ALARM BOXES SHALL COMPLY WITH CBC SECTIONS 907.4.2, 1117B.6 & 1118B.

FIRE ALARM NOTE:

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH CFC-901.1 AND 907.1.1

FIRE ALARM SEQUENCE OF OPERATIONS

ACTION \ DEVICE	SMOKE/HEAT DETECTOR	120V POWER FAILURE
SOUND ALARM AT EXISTING "FACP"	YES	NO
SOUND TROUBLE BUZZER AT EXISTING "FACP"	ON WIRING FAULT	YES
ACTIVATE AUDIBLE ALARM SIGNAL THROUGHOUT CAMPUS	YES	NO
ACTIVATE VISUAL ALARM SIGNAL THROUGHOUT CAMPUS	YES	NO

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SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:
FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 223.053

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:
REGISTERED PROFESSIONAL ENGINEER, No. E 10372, Exp. 09-30-20, ELECTRICAL, STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS DT SS
DATE APR 02 2019

SHEET DESCRIPTION:
FIRE ALARM NOTES, SCHEDULES, CALCULATIONS AND DETAILS

SHEET NO:
E-0.4

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 5 of 5

Project Name:	Date Prepared:
CYPRESS COLLEGE BASEBALL FIELD	08-23-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Stephan R. Zojkok PE	Documentation Author Signature:	
Company:	FBA Engineering	Signature Date:	08-23-2018
Address:	150 Pasarino Ave., Suite A120	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Stephan R. Zojkok PE	Responsible Designer Signature:	
Company:	FBA Engineering	Date Signed:	08-23-2018
Address:	150 Pasarino Ave., Suite A120	License:	E16372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 4 of 5

Project Name:	Date Prepared:
CYPRESS COLLEGE BASEBALL FIELD	08-23-2018

C. Voltage Drop

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(c).

	Enforcement Agency Check that the system complies
☐ The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.	☐
☐ Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

	Field Inspector Check that the system complies
☐ The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.	☐
☐ There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	☐
☐ For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.	☐
☐ Receptacles that are only for the following purposes are excepted from Section 130.5(d): - Receptacles specifically for refrigerators and water dispensers in kitchen areas. - Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. - Receptacles on circuits rated more than 20 amperes. - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 3 of 5

Project Name:	Date Prepared:
CYPRESS COLLEGE BASEBALL FIELD	08-23-2018

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).

☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-A.

☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System Information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
			☐

Field Inspector Notes:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 1 of 5

Project Name:	Date Prepared:
CYPRESS COLLEGE BASEBALL FIELD	08-23-2018

General Information

Project Address:	Climate Zone:	Conditioned Floor Area :
9200 VALLEY VIEW STREET, CYPRESS, CA. 90630	3	Unconditioned Floor Area : 2,400

Building Type:	[X] Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel
[X] Schools	☐ Relocatable Public Schools	☐ Conditioned Spaces	☐ Unconditioned Spaces
Phase of Construction:	[X] New Construction	☐ Addition	☐ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

☐ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 through 6 of table below.*

☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2H. *Fill out Column 1 through 6 of table below.*

☐ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
PANEL "PA"	17KVA	[X]	☐	☐	[X]	☐	☐
PANEL "PB"	17KVA	[X]	☐	☐	[X]	☐	☐
		☐	☐	☐	☐	☐	☐

SHORT CIRCUIT AND VOLTAGE DROP CALCULATIONS

FEEDERS

DESIGNATION	FEEDER LENGTH (ft)	PHASE ϕ	CONDUCTORS Cu	SIZE	PARALLEL RUNS	CONDUIT MAG=1 NON-2	L-L VOLTAGE	L-N VOLTAGE	STARTING Isc	FEEDER AMPACITY	BUS AVAILABLE Isc 3 ϕ	BUS AVAILABLE Isc 1 ϕ L-L	BUS AVAILABLE Isc 1 ϕ L-N	VOLTAGE DROP %
Panel "PA"	30	1	Cu	#1	1	2	240	120	65,000	71	N/A	20,513	12,989	0.28
Panel "PB"	30	1	Cu	#1	1	2	240	120	65,000	71	N/A	20,513	12,989	0.28

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(714) 508-1780 508-1790 FAX
1775 HANCOCK ST, SUITE 120
SAN DIEGO, CA 92110
(619) 542-1188 542-1663 FAX

CONSULTANT:

FBA Engineering
Consulting Electrical Engineers
150 Pasarino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 223.053

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

Rev.	Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:

REGISTERED PROFESSIONAL ENGINEER — STEPHAN R. ZOJKOK — No. 16372 — EXP. 06-30-19 — ELECTRICAL — STATE OF CALIFORNIA

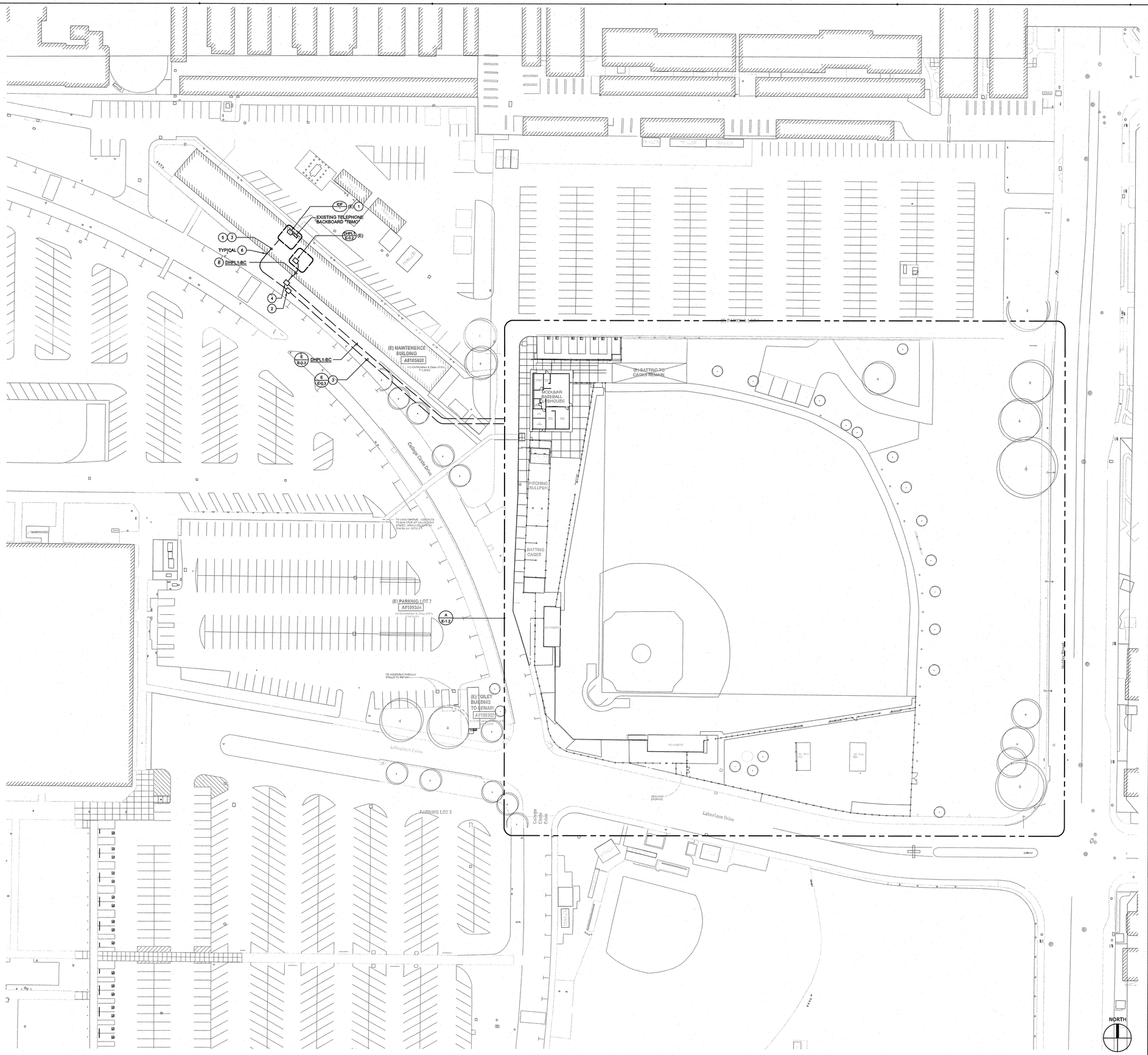
STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS ✓ SS
DATE APR 02 2019

SHEET DESCRIPTION:
ELECTRICAL POWER DISTRIBUTION TITLE 24

SHEET NO:
E-0.5

FBA Engineering / Plot Date: 3/26/2019 2:52 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053\E-0.5_223053.dwg



PLAN NOTES

1. MODIFY EXISTING INTERMEDIATE DATA FRAME AS REQUIRED TO SERVE THE NEW CONSTRUCTION. PROVIDE ADDITIONAL EQUIPMENT AS NEEDED FOR COMPLETE AND OPERABLE SYSTEM.
2. PROVIDE 2'X 3'X 3'D. CONCRETE PULLBOX WITH BOLT-DOWN COVER ENGRAVE "SIGNAL".
3. PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS WITH SPECIFIED SYSTEM CONDUCTORS:

   2"C. (DATA)
   2"C. (TELEPHONE)
   2"C.O. (SPARE)

4. PROVIDE 2'X 3'X 3'D. CONCRETE PULLBOX WITH BOLT-DOWN COVER ENGRAVE "POWER".
5. ROUTE CONDUITS ABOVE ACCESSIBLE CEILING SPACE.
6. ROUTE CONDUITS FROM BELOW GRADE EXPOSED ON BUILDING EXTERIOR TO AND ELEVATION ABOVE CEILING SPACE. PROVIDE WEATHERPROOF "LB" FITTING AND SEALED PENETRATION THROUGH BUILDINGS WALLS.

SITE PLAN GENERAL NOTES

1. GENERAL CONTRACTOR SHALL EXERCISE CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUITS, ETC., AND SHALL PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN, DETAILED OR INSTALLED BY THIS OR ANY OTHER CONTRACTS.THIS CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
2. NEW TRENCHES FOR CONDUITS SHALL BE EXCAVATED IN VICINITY OF EXISTING UNDERGROUND UTILITIES AND BOXES. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL SCAN SURROUNDING AREAS USING GROUND-PENETRATING RADAR OPERATED BY PERSONNEL REGULARLY ENGAGED IN THE BUSINESS OF UNDERGROUND UTILITY DETECTION. CAREFULLY HAND-TRENCH ALL AREAS WHERE THERE ARE EXISTING UNDERGROUND UTILITIES. ADJUST LOCATIONS OF NEW UTILITIES AND BOXES TO ACHIEVE BEST POSSIBLE INSTALLATION.

OVERALL SITE ELECTRICAL PLAN

SCALE 1"=30'-0" A

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SAN DIEGO, CA 92110
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FBA Job Number: 223.053

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Cypress College
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9200 Valley View Street
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CLIENT:

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

Rev.	Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:

REGISTERED PROFESSIONAL ENGINEER
RICHARD BRADY
No. 16372
Exp. 03-30-20
ELECTRICAL
STATE OF CALIFORNIA

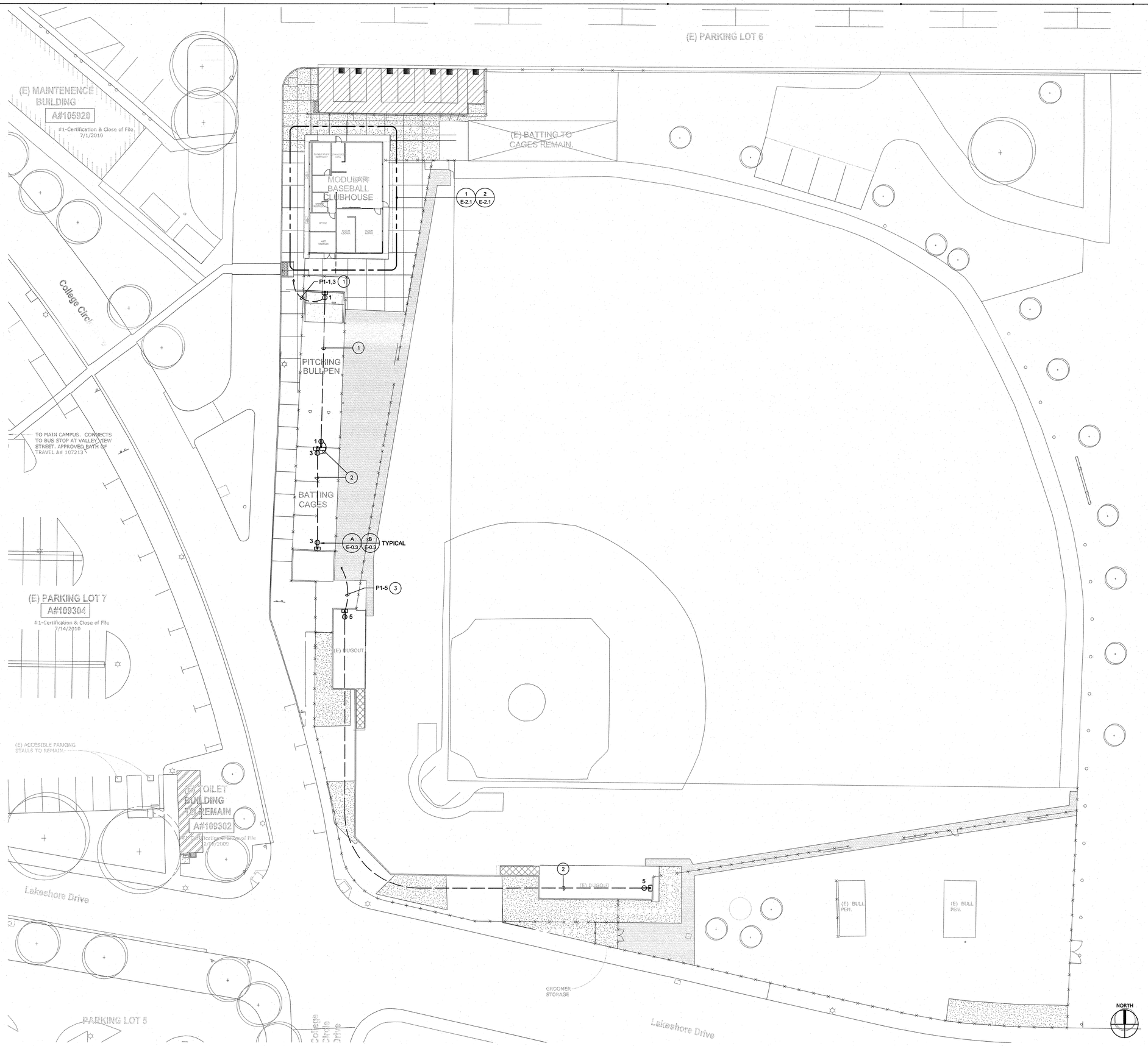
STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS ✓ FLS ✓ SS
DATE APR 02 2019

SHEET DESCRIPTION:
OVERALL SITE ELECTRICAL PLAN

SHEET NO:
E-1.1

FBA Engineering / Plot Date: 3/26/2019 2:52 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053E-1.1_223053.dwg



PLAN NOTES

1. PROVIDE 4 #10, 1 #10 GRD. - 1"C.
2. PROVIDE 2 #10, 1 #10 GRD. - 1"C.
3. PROVIDE 2 #8, 1 #10 GRD. - 1"C.

ENLARGED SITE ELECTRICAL PLAN

SCALE 1" =20' -0" A

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No.	Rev. Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

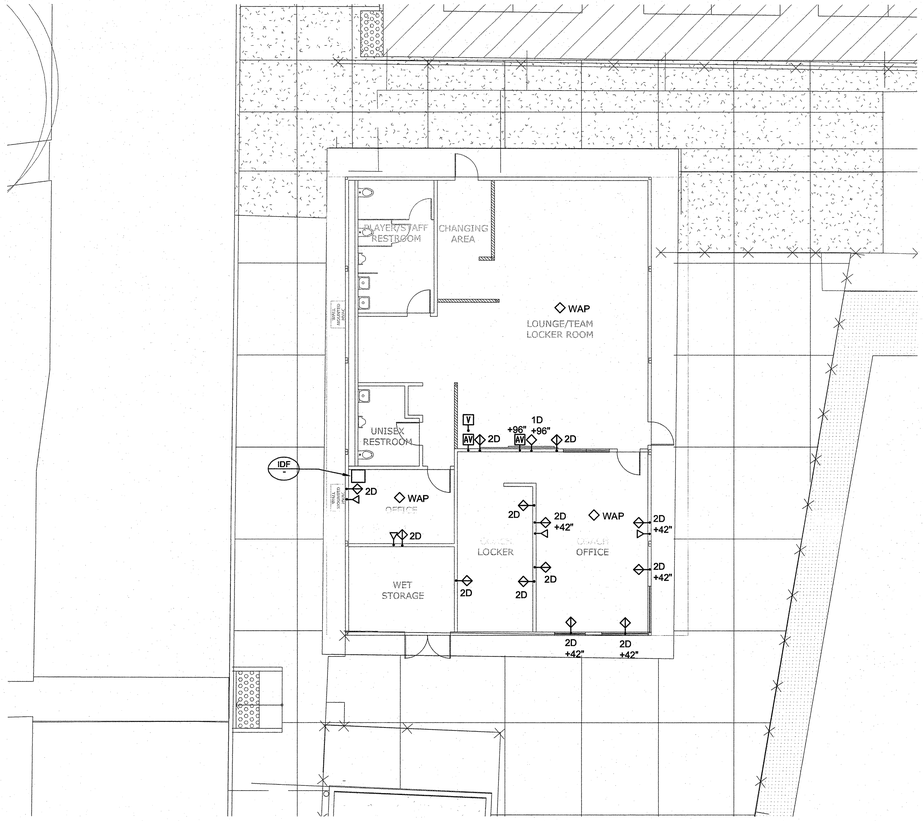
CONSULTANT:

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS FLS AT
DATE APR 02 2019

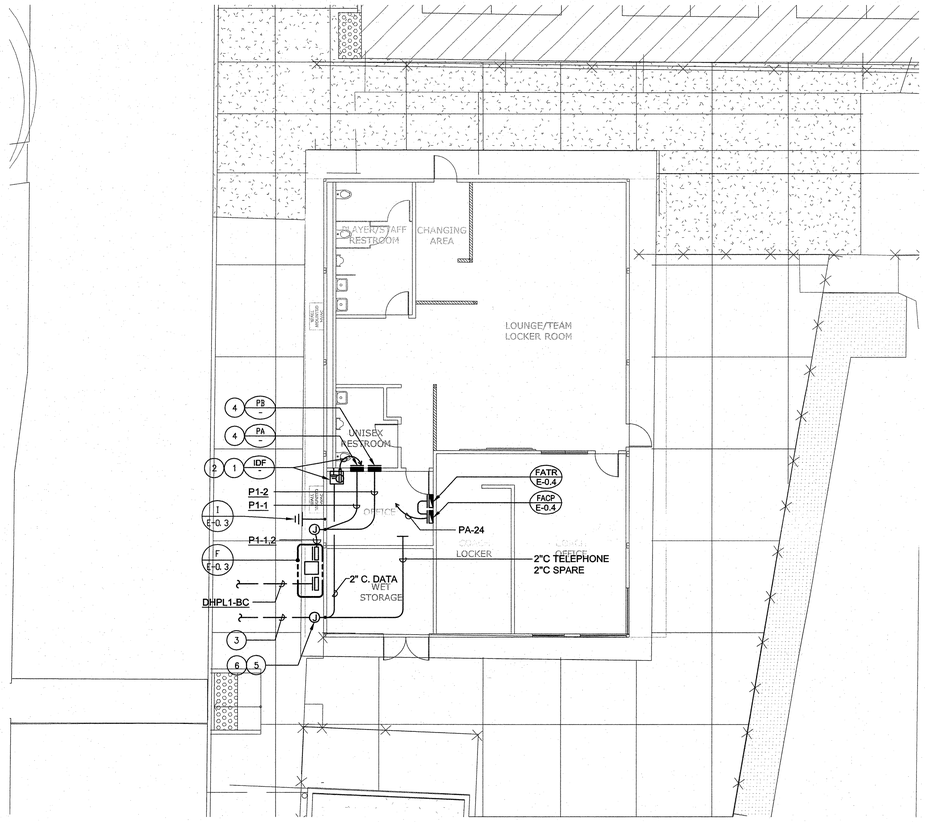
SHEET DESCRIPTION:
ENLARGED SITE ELECTRICAL PLAN

SHEET NO:
E-1.2

FBA Engineering / Plot Date: 3/26/2019 2:52 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053\E-1.2_223053.dwg



ENLARGED CLUBHOUSE BUILDING SIGNAL PLAN | SCALE: 1/8" = 1'-0" | 3



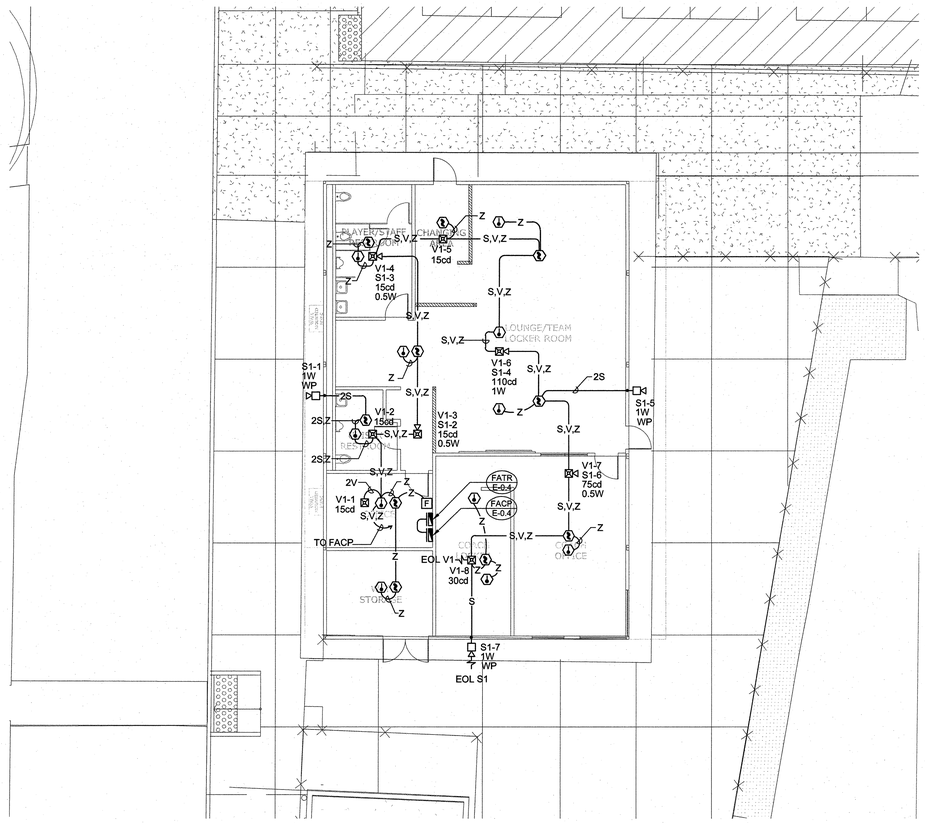
ENLARGED CLUBHOUSE BUILDING ELECTRICAL PLAN | SCALE: 1/8" = 1'-0" | 1

PLAN NOTES

1. PROVIDE WALL MOUNTED COMPUTER/DATA EQUIPEMENT RACK 6" BELOW CEILING. PROVIDE 1#6 (GRD.) - 3/4"C. TO APPROVED GROUNDING LOCATION.
2. PROVIDE DOUBLE DUPLEX RECEPTACLE MOUNTED INSIDE IDF WITH 2#12, 1#12 (GRD) IN 3/4"C. TO BUILDING PANELBOARD. PROVIDE 20 AMP - 1 POLE CIRCUIT BREAKER IN THE PANELBOARD AND CONNECT AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
3. PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS WITH SPECIFIED SYSTEM CONDUCTORS:

   2"C. (DATA)
   2"C. (TELEPHONE)
   2"C.O. (SPARE)

4. ELECTRICAL PANEL TO BE PROVIDED BY OTHERS.
5. PROVIDE (3) 8"X 8"X6" DEEP WEATHERPROOF JUNCTION BOXES FOR TELEPHONE, DATA AND SPARE. PROVIDE ENGRAVED PLATE FOR EACH PULLBOX INDICATION SYSTEM.
6. ROUTE CONDUITS FROM THE PULLBOXES EXPOSED ON EXTERIOR WALL FOR BUILDING TO AN ELEVATION ABOVE ACCESSIBLE CEILING SPACE INSIDE BUILDINGS WHERE CONDUITS CAN EXTEND AND STUB INTO THE CEILING SPACE. EXTEND RESPECTIVE SYSTEM CABLING THROUGH CEILING SPACE AND CONNECT TO EQUIPMENT AS INDICATED.
7. REFER TO OVERALL SITE ELECTRICAL PLAN ON A/E-1.1 FOR CONTINUATION.



ENLARGED CLUBHOUSE BUILDING FIRE ALARM PLAN | SCALE: 1/8" = 1'-0" | 2

FIRE ALARM CONDUIT SCHEDULE		
SYMBOL	CONDUCTORS	SIZE
—Z—	2#16 SHIELDED TWISTED-PAIR INITIATING CIRCUIT	3/4"C
—V—	2#12 VISUAL CIRCUIT	3/4"C
—S—	2#18 SPEAKER CIRCUIT (SHIELDED TWISTED-PAIR)	3/4"C
—2V—	4#12 VISUAL CIRCUIT	3/4"C
—2S—	4#18 SPEAKER CIRCUIT (SHIELDED TWISTED-PAIR)	3/4"C
—Z,V,2S—	MULTIPLE CONDUCTORS SHALL BE SHARED	1"C

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CONSULTANT:
FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9985 • 949.852.1057 (fax)
fbaengr.com
FBA Job Number: 223.053

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE,
ANAHEIM, CA 92801

Rev.	Date	Description

JOB NO: 16023
DATE: 04-02-2019
DRAWN: CA / RR
CHECK: RB
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:

REGISTERED PROFESSIONAL ENGINEER 10373 05-31-20 ELECTRICAL STATE OF CALIFORNIA

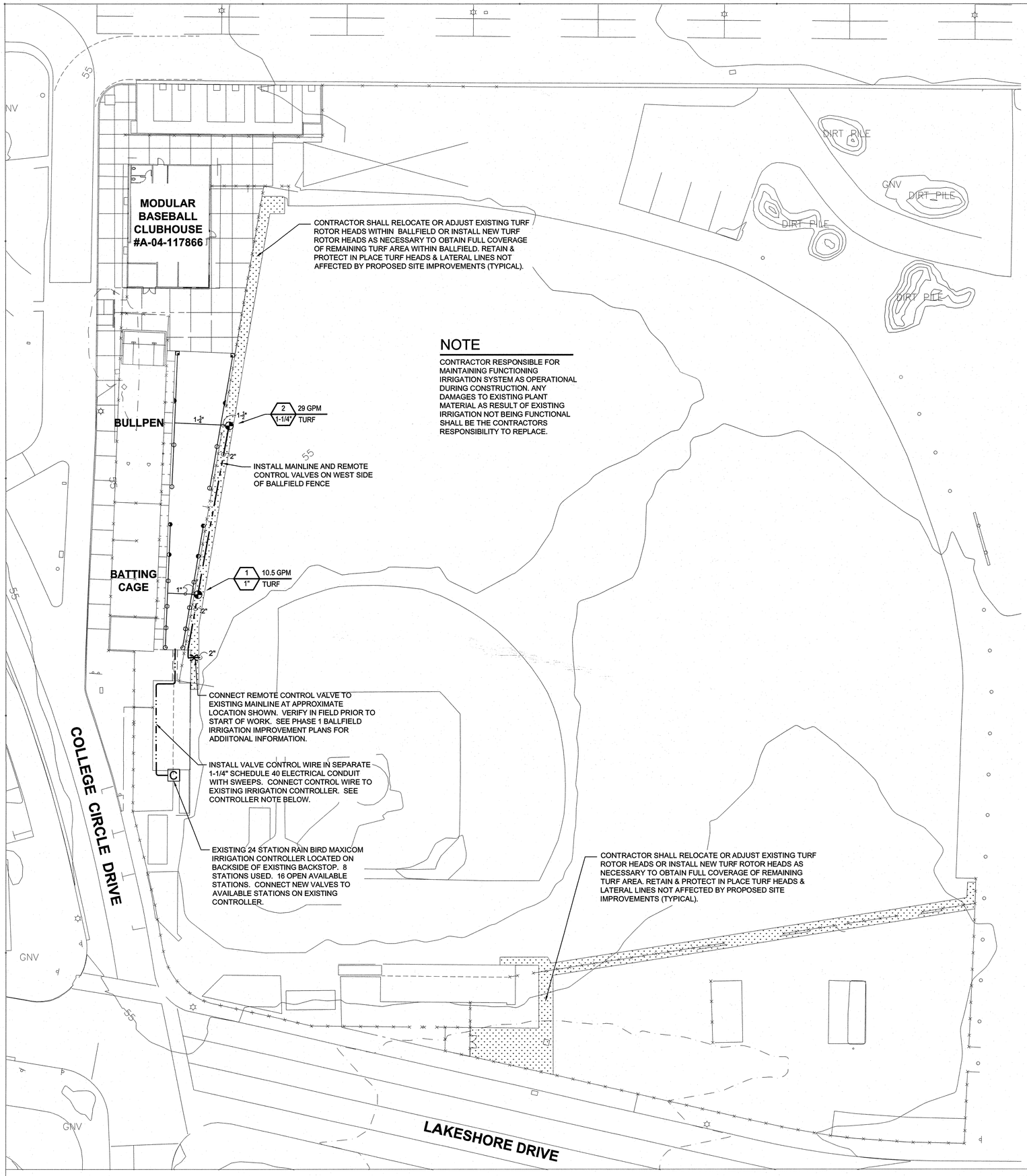
STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 117630
ACS FLS ST SS
DATE APR 02 2019

SHEET DESCRIPTION:
CLUBHOUSE BUILDING ELECTRICAL PLANS

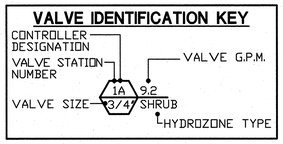
SHEET NO:
E-2.1

FBA Engineering / Plot Date: 3/26/2019 6:21 PM / Plotted by: William Ramirez / Drawing Location: I:\223\053\E-2.1_223053.dwg



VALVE LOCATION NOTE:
ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THESE DRAWINGS ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE CITY'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE CITY'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. FAILURE TO OBTAIN CITY'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE CITY'S DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE CITY. IN GENERAL, UNLESS OTHERWISE DIRECTED BY CITY'S AUTHORIZED REPRESENTATIVE, ALL VALVES SHALL BE INSTALLED THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

VALVE IDENTIFICATION KEY



NOTE:
EXISTING IRRIGATION EQUIPMENT IS FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY PRIOR TO BIDDING AND CONSTRUCTION. EXISTING IRRIGATION EQUIPMENT AND LOCATION SHOWN IS PER AS-BUILT IRRIGATION PLANS PROVIDED BY THE PHYSICAL PLANT DEPARTMENT.

SCALE: 1" = 20'-0"

0' 20' 40' 80'

1" = 20'-0"

3/20/2017 2:02:21 PM P:\NOCCCD_16034_CYP_Baseball Clubhouse\03_Drawings\00_DIP\Base\Cypress College BASEBALL FIELD IMPROVEMENTS.rvt

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PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO:	16034
DATE:	04/02/2019
DRAWN:	CAA
CHECK:	Checker
ARCHITECT:	PDW
ENGINEER:	
ARCHITECT:	

CONSULTANT:
REGISTERED LANDSCAPE ARCHITECT — STEVE M. NUVIS — No. 4640 — SEPTEMBER 30, 2019 EXPIRATION DATE — APRIL 2, 2019 DATE — STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC / FLS / SS
DATE APR 02 2019

SHEET DESCRIPTION:
IRRIGATION PLAN

SHEET NO:
L1

IRRIGATION PLAN NOTES:

1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.

2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.

3. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.

4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.

6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.

7. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS DETERMINED BY DISTRICT. CONNECT RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.

8. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.

9. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC.

10. ALL IRRIGATION HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.

11. FLUSH AND ADJUST ALL IRRIGATION HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF FIXED ARC (OR AN ADJUSTABLE ARC IF FIXED ARC DOES NOT MATCH THE ARC TO BE IRRIGATED) TO FIT THE SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.

12. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF TURF AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.

13. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.

14. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.

15. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

16. IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.

17. NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	P/R (TRI.)	DETAIL
Q H F							
◷ ⊖ ○	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH .75 RED NOZZLE	.75	40	15-17'	.65	B, SHEET L3
◔ ◓ ●	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH 1.0 RED NOZZLE	1.0	40	18-19'	.62	B, SHEET L3
◔ ◓ ●	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH 1.5 RED NOZZLE	1.5	40	21-22'	.69	B, SHEET L3
⊙ ⊙ ⊕	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH 2.0 RED NOZZLE	2.0	40	24-25'	.71	B, SHEET L3
◣ ◢ ✸	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH 2.5 RED NOZZLE	2.5	40	27-28'	.71	B, SHEET L3
◨ ◨ ■	HUNTER	PGJ-06 POP-UP TURF SPRAY HEAD WITH 3.0 RED NOZZLE	3.0	40	30-31'	.69	B, SHEET L3
	N/A	POINT OF CONNECTION AT EXISTING 4" MAINLINE. FOR REFERENCE ONLY. VERIFY SIZE & LOCATION IN FIELD PRIOR TO START OF WORK. SEE PLAN NOTES FOR ADDITIONAL INFORMATION.					N/A
C	EXISTING	EXISTING 24 STATION MAXICOM IRRIGATION CONTROLLER. CONNECT NEW VALVE CONTROL WIRES TO CONTROLLER PER PLANS. INSTALL MINIMUM 14 GAUGE CONTROL WIRES IN SCHEDULE 40 ELECTRICAL CONDUIT WITH SWEEP ELLS.					N/A
NO SYMBOL	NDS	NDS 312BC ROUND SPLICE BOX FOR LOW VOLTAGE CONTROL WIRE. INSTALL BELOW GRADE FOR LOCATIONS WITHIN BALL FIELD.					N/A
	SUPERIOR	MODEL 950 DW BRASS REMOTE CONTROL VALVE, SIZE AS SHOWN. INSTALL IN CARSON 1419 RECTANGULAR VALVE BOX BELOW GRADE PER THE DIRECTION OF SCHOOL DISTRICT.					A, SHEET L3
	PACIFIC PLASTICS	PVC PIPE 1-1/2" OR SMALLER, SCHEDULUE 40 PVC SOLEVENT WELD WITH LASCO SCH. 40 PVC FITTINGS. PIPE 2" & LARGER, CL. 315, SOLVENT WELD WITH LASCO SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					E, SHEET L3
	PACIFIC PLASTICS	PVC PIPE 3/4" - 1 1/2" SCH. 40, PVC PIPE . 2" AND LARGER CL. 315, SOLVENT WELD WITH LASCO SCH. 80 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					E, SHEET L3
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					F, SHEET L3
	AS APPROVED	PVC PIPE 1-1/4" SCH. 40 ELECTRICAL WIRE CONDUIT, SOLVENT WELD WITH SCH. 40 PVC SWEEP FITTINGS. INSTALLED 18" BELOW FINISHED GRADE					E, SHEET L3
	AS APPROVED	SLEEVES - SCH 40 PVC PIPE. PIPE SLEEVE- 30" MIN. COVER UNDER PAVING- TWICE DIAMETER SIZE OF PIPE WIRE SLEEVE- 30" MIN. COVER UNDER PAVING - SEE PIPE SIZING CHART INSTALL 2 ADDITIONAL PILOT WIRES AS SPARES IN EACH DIRECTION FROM CONTROLLER TO END OF RUN. USE DIFFERENT COLORS					D, SHEET L3
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECTANGULAR SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					C, SHEET

WATER EFFICIENT LANDSCAPE CALCULATIONS

CYPRESS COMMUNITY COLLEGE
LANDSCAPE WATER USE STATEMENT

PROJECT NAME: North Orange County Community College District
PROJECT ADDRESS: 1810 W. Romneya Dr. Anaheim, CA 92801
PREPARED BY: Perry Cardoza (LIC#3943)
NUVIS LANDSCAPE ARCHITECTURE

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Signed:

PART ONE	MAXIMUM APPLIED WATER ALLOWANCE	
	MAWA = ETo x .62 x ((.45 x HA) + ((1-.45) x SLA))	
	YEARLY ETo	49.7
	CONVERSION FACTOR	0.62
	ET ADJUSTMENT FACTOR	0.7
	TOTAL IRRIGATED LANDSCAPE AREA (HA)	3,415 SQUARE FEET
	SPECIAL LANDSCAPE AREA (SLA)	3,415 SQUARE FEET
	LANDSCAPE WATER ALLOWANCE	**105,230 GALLONS PER YEAR**
	TOTAL ACRE FEET	0.32 ACRE FEET

CALCULATIONS:
49.7 x 0.62 x ((0.7 x 3,415 + 0.3 x 3,415)) = 105229.81

PART TWO	ESTIMATED TOTAL WATER USE	
	*ETWU = ETo x .62 (((PF x HA) / IE)+SLA)	
	AVERAGE IRRIGATION EFFICIENCY	0.70
	TOTAL PLANT FACTOR x HYDROZONE AREA (PF x HA) FROM TABLE	2,391
	SPECIAL LANDSCAPE AREA	3,415
	ESTIMATED TOTAL WATER USE	**210,482 GALLONS PER YEAR**
	TOTAL ACRE FEET	0.65 ACRE FEET
	PERCENT OF ETo	200%

CALCULATIONS:
49.7 x 0.62 x ((2,391 / 0.70) + 3,415) = 210481.63

HYDROZONE TABLE - ENTERPRISE SELF STORAGE FACILITY

VALVE NO.	PLANT TYPE	HYDROZONE* (PLANT WATER USE)	PLANT FACTOR (PF)	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	HYDROZONE AREA (HA) (Sq Ft)	PF x HA	% LANDSCAPE AREA
1	TURF	HW	0.70	S	0.70	1,531	1,072	44.8%
2	TURF	HW	0.70	S	0.70	1,884	1,319	55.2%
TOTALS					**0.70** Average IE	**3,415**	**2,391**	**100.0%**

PRESSURE LOSS CALCULATIONS

WATER PRESSURE CALCULATIONS			
POC NUMBER	EXISTING	POC SIZE	2"
HYDRAULIC GRADE LINE	-	POC ELEVATION	-
ELEVATION DIFFERENCE	-	MINIMUM STATIC WATER PRESSURE	70
REMOTE CONTROL VALVE #	2	REMOTE CONTROL VALVE SIZE	1-1/4"
R.C.V. DEMAND (GPM)	29	TOTAL DEMAND (GPM)	29
HIGHEST HEAD ELEVATION	-	STATIC PRESSURE AT R.C.V.	70

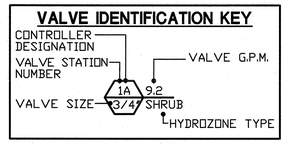
SIZE	DESCRIPTION		PSI LOSS	
N/A	SERVICE LINE	1	0.0	PSI
N/A	WATER METER	2	0.0	PSI
N/A	BACKFLOW PREVENTER	3	0.0	PSI
N/A	GATE VALVES	4	0.0	PSI
N/A	MASTER CONTROL VALVE	5	0.0	PSI
2"	140' FEET OF MAINLINE: CL315	7	2.0	PSI
1-1/4"	REMOTE CONTROL VALVE	8	1.9	PSI
10%	LATERAL LINE LOSS	9	0.4	PSI
10%	FITTING LOSS	10	0.4	PSI
0	FT. OF ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11	0.0	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12	4.7	PSI
PRESSURE REQUIRED AT VALVE		13	40.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #12 AND # 13)		14	44.7	PSI
STATIC WATER PRESSURE (FROM ABOVE)		15	70.0	PSI
RESIDUAL PRESSURE (SUBTRACT # 14 FROM # 15)		16	25.3	PSI
SET PRV OR MCV AT (# 14 PLUS 10 PSI)		17		PSI
PRESSURE BOOST, IF REQUIRED (#14-#15 + 20 PSI)		18	N.A.	PSI

PRESSURE CALCULATIONS ARE BASED ON PRESSURE AT MAINLINE POINT OF CONNECTION PER IRRIGATION PLANS

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"/3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

VALVE IDENTIFICATION KEY



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CONSULTANT:
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LANDSCAPE ARCHITECTURE
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COSTA MESA, CALIFORNIA
U.S.A. 92626-4440
TE: 714.754.7344
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PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04/02/2019
DRAWN: CAA
CHECK: Checker
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:
REGISTERED LANDSCAPE ARCHITECT — PERRY D. WESTBERG — Signature — SEPTEMBER 30, 2019 Expiration Date — APRIL 2, 2019 Date — STATE OF CALIFORNIA

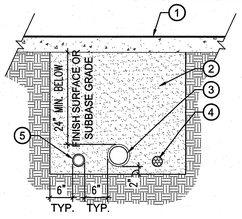
STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC / FLS / SS
DATE APR 02 2019

SHEET DESCRIPTION:
IRRIGATION LEGEND, NOTES CALCS AND DETAILS

SHEET NO:
L2

NOTES:
1. PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.
2. DETAIL ALSO FOR PIPE INSTALLED IN ROCK SOIL.
3. ALL SLEEVES TO BE SCHEDULE 40 PVC.
4. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.
5. 24" MINIMUM COVER ON MAINLINE 3" AND LARGER.

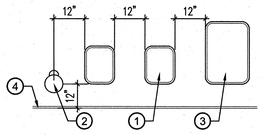
1. FINISH SURFACE
2. CLEAN SAND BACKFILL MINIMUM 90% COMPACTION
3. PRESSURE MAINLINE IN SCHEDULE 40 SLEEVE - SIZE SLEEVE TWICE DIAMETER OF PRESSURE SUPPLY LINE
4. CONTROL WIRES IN SLEEVE - SIZE PER PLAN. INSTALL ADJACENT TO PRESSURE SUPPLY LINE
5. NON-PRESSURE LATERAL LINE IN SLEEVE TWICE DIAMETER OF LATERAL LINE



D TYPICAL SLEEVING
SCALE: 3/4"=1'-0"

NOTES:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 2" ABOVE FINISH GRADE OR MULCH COVER IN GROUNDCOVER/SHRUB AREA AND 1" ABOVE FINISH GRADE IN TURF AREA.
3. SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. BRAND VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2 -2" LETTERING

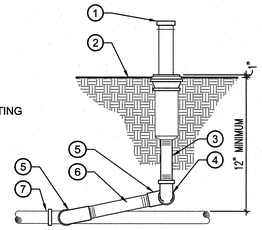
1. TYPICAL 16"x21" RECTANGULAR VALVE BOX
2. TYPICAL QUICK COUPLING VALVE
3. TYPICAL 19"x26" OR LARGER VALVE BOX
4. EDGE OF LAWN, WALK, FENCE, CURB, ETC.



C VALVE BOX INSTALLATION
SCALE: 1/2"=1'-0"

NOTES:
1. LOCATE HEAD 4" FROM HARDSCAPING, PLANTING BEDS AND EDGE OF LAWN.
2. LOCATE HEAD 12" FROM ALL STRUCTURES.

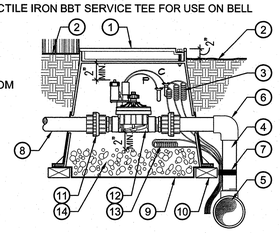
1. POP-UP TURF ROTOR MANUFACTURER AND MODEL AS INDICATED IN LEGEND OR APPROVED EQUAL
2. FINISH GRADE
3. SCH 80 PVC NIPPLE (MINIMUM 4" LONG)
4. SCH 40 PVC TxT 90° ELL
5. MARLEX 90° STREET ELL
6. SCH 80 PVC NIPPLE
7. NON-PRESSURE LATERAL LINE AND FITTING



B TURF ROTOR HEAD ASSEMBLY
SCALE: 1/2"=1'-0"

NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.

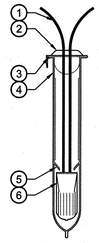
1. PLASTIC RECTANGULAR VALVE BOX WITH T-COVER AND CAPTIVE STAINLESS STEEL BOLT AND LOC-KIT. INSTALL BOX AT RIGHT ANGLE TO ADJACENT HARDSCAPE EDGE. LABEL "RCV" AND CONTROL STATION NUMBER ONTO LID
2. FINISH SURFACE - 2"
3. 24" WIRE LOOPS WITH WATERPROOF WIRE CONNECTORS
4. SCH.40 PVC PIPE OR SCH.80 T.O.E. NIPPLE WITH D.I. SERVICE TEE
5. SCH.80 PVC SLIP TEE OR LEEMCO DUCTILE IRON BBT SERVICE TEE FOR USE ON BELL AND GASKET MAINLINE PIPER
6. SCH.80 PVC SLIP 90° ELL
7. TAPE WIRES TO PIPE
8. SCH.40 PVC PIPE, SIZE PER RCV, TYP.
9. LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
10. BRICK SUPPORTS (4 TOTAL)
11. LASCO #896 PVC UNION SLIP X MIPT, SIZE PER RCV, TWO (2) REQUIRED FOR ASSEMBLY
12. ELECTRIC REMOTE CONTROL VALVE
13. SPARE CONTROL WIRE LOOP 48" LENGTH INTO EACH RCV BOX
14. 3/4" CRUSHED GRAVEL, 2 CUBIC FEET



A REMOTE CONTROL VALVE ASSEMBLY
SCALE: 1"=1'-0"

NOTES:
1. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.
2. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

1. LOW VOLTAGE WIRES, THREE (3) MAXIMUM
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
3. CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE
4. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
5. LOCK TABS PREVENTS WIRE REMOVAL ONCE CONNECTOR IS INSERTED
6. SCOTCHLOK ELECTRICAL SPRING CONNECTOR WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

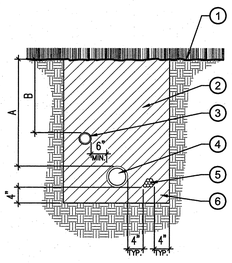


F TYP. WIRE CONNECTION
SCALE: NTS

NOTES:
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90° CHANGES IN DIRECTION.
2. PROVIDE A MINIMUM 10 FEET SEPARATION BETWEEN POTABLE AND RECLAIMED MAINLINE PIPING.
3. 24" MINIMUM COVER ON 3" MAINLINE AND LARGER.

1. FINISH GRADE
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED
3. NON-PRESSURE LATERAL LINE. SNAKE PIPE IN TRENCH
4. PRESSURE SUPPLY LINE SNAKE PIPE IN TRENCH
5. CONTROL WIRES - BUNDLE AND TAPE AT 10' O.C. AND INSTALL ADJACENT TO PRESSURE SUPPLY LINE

DIMENSION	A	B
1/2" TO 2-1/2" IN SIZE	18"	12"
3" TO 6" IN SIZE	24"	



E TYPICAL TRENCHING
SCALE: 3/4"=1'-0"

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1775 HANCOCK ST, SUITE 120
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CONSULTANT:
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PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

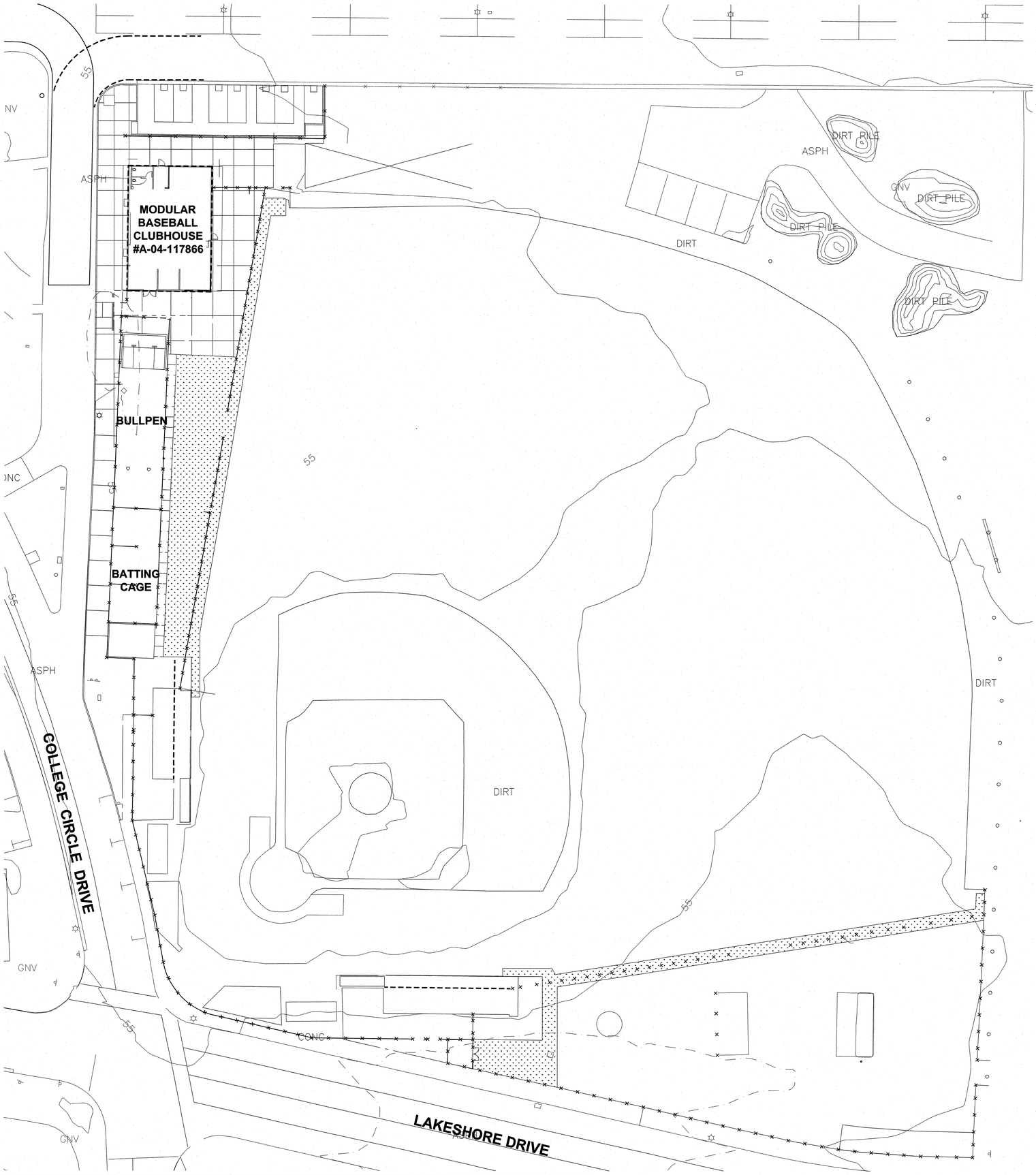
JOB NO: 16034
DATE: 04/02/2019
DRAWN: CAA
CHECK: Checker
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:
REGISTERED LANDSCAPE ARCHITECT — STEVE K. STONE — No. 2654 — RENEWAL 08/31/2019 — EXPIRATION 08/31/2021 — STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS SS
DATE APR 02 2019

SHEET DESCRIPTION:
IRRIGATION DETAILS

SHEET NO:
L3



PLANT LEGEND

SYMBOL	WUCOLS	DESCRIPTION	SIZE	QUANTITY
GROUND COVER				
	H	TURF- HYBRID BERMUDA SOD- VERIFY VARIETY WITH DISTRICT PRIOR TO ORDERING.	SODDED	6,407 S.F.*

* TURF QUANTITY IS FOR REFERENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITY PRIOR TO BID, ORDER AND INSTALLATION.

PLANTING PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.

ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.

PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.

SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS, AND SEED SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.

LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.

AMENDMENTS, AS INDICATED IN THE SOILS REPORT SHOWN ON THE DRAWINGS, ARE BASED ON AGRICULTURAL SUITABILITY SOILS TESTS PERFORMED PRIOR TO GRADING AND WERE PRESENTED FOR BIDDING PURPOSES. IF NO SOILS REPORT EXISTS, CONTRACTOR SHALL PROPOSE ON AMENDMENTS AS STATED IN THE SPECIFICATIONS. CLIENT OR CONTRACTOR SHALL OBTAIN AGRICULTURAL SOILS TESTING AND RECOMMENDATIONS AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.

IF, DURING PLANTING OPERATIONS THERE SEEMS TO BE MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.

SCALE: 1" = 20'-0"

0' 20' 40' 80'

1" = 20'-0"

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CONSULTANT:
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FX: 714.754.7311

PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

Rev.	Date	Description

JOB NO: 16034
DATE: 04/02/2019
DRAWN: CAA
CHECK: Checker
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:

REGISTERED LANDSCAPE ARCHITECT — 5766 — Wolfgang Oehme — RENEWAL: SEPTEMBER 30, 2019 — Expiration Date — APRIL 2, 2019 — Date — STATE OF CALIFORNIA

STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117830
FILE NO: 30-C1
AC ✓ FLS DT SS
DATE APR 02 2019

SHEET DESCRIPTION:
PLANTING PLAN, LEGEND, NOTES & DETAILS

SHEET NO:
L4

IRRIGATION SYSTEM - AUTOMATIC

A. GENERAL

1. Contractor shall provide all labor, materials, and equipment necessary to furnish and install the irrigation system as indicated on the drawings and as specified herein.
2. Coordinate the installation of all irrigation materials with the construction of site amenities and sod installation.
3. All work on the irrigation system, including hydrostatic, coverage, and operational tests and the backfilling and compaction of trenches shall be performed before sodding operations.
4. Drawings are diagrammatic and shall be adjusted as necessary to conform to actual field conditions. Costs incurred due to any adjustment for coverage, including those requested by the City/Owner relative to the location of irrigation heads as shown on the drawings shall be the responsibility of the Contractor.
5. Point of connection (P.O.C.) and operating pressure (P.S.I.) if available, shall be as indicated on the drawings. Contractor shall verify the location and size of water source, PSI, and electrical supply prior to commencing installation. In case of discrepancy, Contractor shall immediately notify the District.

B. QUALITY ASSURANCE

1. All local and state laws, rules and regulations governing or relating to any portion of the irrigation system are hereby incorporated into and made a part of these specifications. However, if these specifications call for or describe materials, workmanship or construction of a better quality, higher standard or larger size than is required by the above rules, regulations or requirements, these specifications and the drawings shall take precedence.
2. In the event any equipment or methods indicated on the drawings or specified herein conflict with applicable regulations, Contractor shall immediately notify the District or Landscape Architect in writing prior to installation. In case of discrepancy, Contractor shall immediately notify the District.
3. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings, sleeves, and related other equipment, which may be required. Contractor shall carefully investigate the structural and finished conditions affecting the work and install a complete irrigation system within the intent of the drawings and specifications.
4. Manufacturer's warranties shall not relieve the Contractor of liability under the provisions for guarantees.

C. MATERIALS LIST

1. Within fifteen (15) calendar days after award of Contract and prior to installation, the Contractor shall submit to the District a list of materials including the manufacturer, description, model number and installation data.
2. Equipment or materials installed or furnished without prior acceptance may be rejected and such materials removed from the site at the Contractor's expense.

D. PRODUCT DELIVERY, STORAGE AND HANDLING

Contractor shall exercise care in handling, loading, unloading and storing of irrigation materials and equipment.

E. PLASTIC PIPE

1. Plastic pipe, where indicated on the drawings, shall be injection molded; rigid; unplasticized polyvinyl chloride (PVC); NSF approved; of high tensile strength, chemical resistant and impact strength; and depending on class and grade, conform to ASTM 2241 or ASTM D-1785.
2. Fittings and couplings shall be threaded PVC Schedule 80 conforming to ASTM D-2464; or slip-fitting, tapered socket, solvent-weld type, PVC Schedule 40 conforming to ASTM D-2466 or PVC Schedule 80 conforming to ASTM D-2467.
3. Solvent cement and primer for rigid PVC solvent-weld pipe and fittings shall be of commercial quality, IAPMO approved, conforming to ASTM D-2564.

F. VALVE BOXES

1. Gate valves and remote control valves, except for anti-siphon valves, shall be installed below grade as indicated in the details on the drawings, in lockable valve boxes manufactured by Brooks, Fraser, Ametek, or approved equal.
2. Valve box lids shall be green in color. Gate valves shall be identified by stamping "GV" on the valve box cover. Remote control valves shall be identified by stamping "RCV" and station number on the valve box cover.
3. Valve boxes shall be set one inch (1") above finish grade, with valves set at sufficient depth to provide appropriate clearance between the cover and valve.

G. REMOTE CONTROL VALVES

Remote control valves shall be solenoid activated, of the type, manufacturer and size as indicated in the Irrigation Legend on the drawings, or approved equal. Contractor shall install remote control valves as indicated in the details on the drawings and in accordance with manufacturer's recommendations.

H. CONTROLLERS AND WIRING

1. Connections between the controller and the remote control valves shall be made with direct burial solid copper wire. Control wire shall be #14 AWG, Type U.F., 600 volt. Common wire shall be #12 AWG. Wire shall be PVC insulated of single conductor type, underground feeder cable, U.L. approved.
3. As practical, pilot wires shall be a different color for each valve. Common wires shall be white with a different color stripe for each automatic controller.
3. Wire shall be buried a minimum of eighteen inches (18") in depth and whenever possible shall occupy the same trench as the mainline; bundled and secured to irrigation pipelines at ten foot (10') intervals with plastic electrical tape, providing sufficient slack for expansion and contraction.
4. An expansion curl shall be provided within three feet (3') of each wire connection and change of direction, and at least every 100 feet of wire length on longer runs.
5. All splices shall be made with Scotch-Lok #3576 Connector Sealing Packs, Rain Bird Pen-Tite, Sears DS-400 wire connectors, 3M DBY wire sealing packs, or approved equal. Use one (1) splice per connector sealing pack. Wire splices shall be located in pull boxes set one inch (1") above finish grade.
6. Field splices between the controller and remote control valves will not be permitted.
7. Install a spare control wire of a different color along entire mainline. Loop thirty-six inches (36") excess wire into each single box and into one valve box in each group of valves.

I. IRRIGATION HEADS

1. Irrigation heads shall be of the manufacturer, size, type, and rate of precipitation with the diameter (or radius) of throw, pressure, and discharge as specified in the Irrigation Legend on the drawings, or approved equal, and installed as indicated in the details on the drawings and in accordance with manufacturer's recommendations.
2. Riser units shall be oriented perpendicular to the finish grade with nipples of the same size as the riser opening in the irrigation head.
3. Spacing of heads shall not exceed the maximum shown on the drawings and in no case exceed the maximum spacing recommended by the manufacturer.

J. INSTALLATION

1. Pipe shall be cut square and the ends reamed out to the full inside diameter of the pipe and thoroughly cleaned of dirt, dust and moisture before installation.
2. PVC pipe shall be protected from tool damage during assembly. Plastic pipe which has been nicked, scarred or damaged shall be removed and replaced at the Contractor's expense.
3. PVC solvent-weld joints shall be made in accordance with ASTM D-2855. Pipe shall not be exposed to water for twenty-four (24) hours after solvent-weld joints are completed.
4. Trenches shall be of open vertical construction to appropriate depths as indicated on the drawings and specified herein. PVC pipe shall be laid on native grade or certified compacted subgrade, free of rocks or sharp-edged objects and snaked from side to side in the trench to allow for expansion and contraction.
5. Teflon tape shall be used on all threaded PVC to PVC and on all threaded PVC to metal joints.

d. Thrust blocks shall be provided where necessary to resist system pressure on ring-tite pipe and fittings. Blocks shall be concrete and the size shall be based on an average soil safe bearing load of 1000 pounds per square foot.

e. Form thrust blocks in such a manner that concrete comes in contact only with the fittings. Thrust blocks shall be between solid soil and the fitting.

6. Irrigation lines and control wiring shall be installed under paving in separate PVC Schedule 40 sleeves. Sleeves shall be installed with the coverage depths as specified herein.
7. All lines shall have a minimum horizontal clearance of six inches (6") from each other and from lines of other trades. Parallel lines shall not be installed directly over one another.
8. Provide the following minimum coverage (where lines occur under paved areas, these coverage depths shall be considered below subgrade):

Pressure mainline	18"
Non-pressure lateral lines	12"
Control wiring	18"

K. ADJUSTING AND TESTING THE SYSTEM

1. Contractor shall furnish all equipment, materials and labor to conduct pipeline pressure tests, coverage tests and operational tests. All tests shall be made in the presence of the District prior to planting operations. Trenches shall not be backfilled until the pipeline pressure tests have been performed to the satisfaction of the District.
2. After completion of pipeline assembly, prior to installation of terminal fittings, including but not limited to remote control valves and quick coupler valves, entire system shall be thoroughly flushed to remove dirt, scale or other deleterious material.
3. With open ends capped, prior to installing valves, test pressure supply lines for six (6) hours at 125 PSI. Center load PVC pipe with a small amount of backfill to prevent arching and whipping under pressure.
4. Contractor shall be responsible for correcting any portions of the work twenty (24) hours in advance for the following inspections;
   - system layout
   - pressure pipeline tests
   - coverage tests
   - operational tests (prior to commencing planting operations)
5. Coverage test shall demonstrate that each station area is balanced to provide uniform and adequate coverage.
6. Operational test shall demonstrate the performance and operation of all components of the controller system. Remote control valves shall be properly balanced, heads adjusted for coverage and system shall be workable, clean and efficient.
7. Contractor shall be responsible for correcting any portions of the work that are not properly installed and retesting until installation has been accepted by the District.

L. BACKFILLING

1. Backfill material shall be free from large clods, stones, and other objectionable materials, exceeding three inches (3") in diameter.
2. Trenches located under areas where paving or concrete will be installed shall be backfilled with a six inch (6") layer of sand below the pipe and three inches (3") above the pipe, and compacted in accordance with the requirements of the Earthwork Section.

M. MATERIALS TO BE FURNISHED

Contractor shall furnish the City/Owner the following materials at the end of construction, prior to the Post-Installation Maintenance Period:

Two (2) sets of special tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on the project.

One (1) set each approved as-built and record drawings.

N. AS-BUILT AND RECORD DRAWINGS

1. Contractor shall maintain and keep up to date one (1) set of bluelines showing the "as-built" location of major features of the project and indicating changes that may occur during installation.
2. Prior to acceptance of the work, Contractor shall furnish the City/Owner with one (1) set of reproducible transparencies as the Record Set showing the as-built data, of a quality satisfactory to the City/Owner. Transfer as-built data in ink (no ball point pen) and eradicate outdated items.
3. Dimension from two (2) permanent points of reference (buildings, monuments, sidewalks, curbs, pavement) the location of the following items:

   Point of connection to existing water lines.
   Point of connection to existing electrical power.
   Irrigation valves.
   Routing of irrigation pressure lines (dimensions, maximum 100' along route).
   Remote control valves.
   Routing of control valves.
   Quick coupling valves.
   Other related equipment as requested by the City/Owner.

4. Contractor shall submit As-built/Record Drawings to City/Owner for review prior to completing Controller Charts.

O. OPERATION AND MAINTENANCE MANUALS

Prepare and deliver four (4) individually bound copies of the Operation and Maintenance Manual to the City/Owner at least ten (10) calendar days prior to acceptance of the work. The Manual shall include descriptive material of equipment installed and shall be in sufficient detail for maintenance personnel to understand, operate and maintain all equipment. Each complete, bound manual shall include the following:

Index sheets stating Contractor's address and telephone number, list of equipment with names and addresses of local manufacturers representatives.

Catalog and parts sheets on all material and equipment installed.

Guarantee statement.

Complete operating and maintenance instructions.

P. GUARANTEE

1. Contractor shall guarantee all materials and equipment for one (1) year from the date of acceptance of the work. Should any trouble develop within the time specified due to inferior or faulty materials or workmanship, the Contractor shall be responsible for costs incurred due to repair and replacement.

END OF SECTION

GENERAL PLANTING

A. GENERAL

1. Contractor shall provide all labor, materials and equipment for the installation of plant material as indicated on the drawings and as specified herein.
2. Contractor shall coordinate planting with other site improvements. Unless otherwise specified, structural improvements shall be installed prior to planting operations.
3. Contractor shall be responsible for locating and staking existing sewer, water and utility lines above or below grade that might be damaged as a result of planting operations. Contractor shall assume sole responsibility for any cost incurred due to damage and for replacement of aforementioned utilities.
4. All work on the irrigation system, including hydrostatic, coverage, and operational tests, and the backfilling and compaction of trenches shall be performed prior to planting operations.
5. Samples of fertilizers, soil conditioners, seed, or other materials shall be submitted to District forty-eight (48) hours prior to incorporation in the work.
6. An agricultural suitability and fertility analysis soils report shall take precedence over these specifications.

B. PLANT MATERIAL QUALITY

1. Plant material shall be in accordance with the State Department of Agriculture's regulations for nursery inspections, rules and grading. All plants shall be of No. 1 Grade and have a normal habit of growth, and shall be sound, healthy, vigorous and free of insect infestations, plant diseases, sun scalds, fresh bark abrasions or other objectionable disfigurements. All plants shall have a normal, well-developed branch system and vigorous and fibrous root system which is not root bound and is free of kinked or girdling roots.
2. Scientific and common names conform to customary nursery usage.
3. Type of plant materials shall be as indicated on the drawings. Quantities shown are a guide only; Contractor shall verify quantities by plan check.
4. The District reserves the right to refuse or reject any unsuitable plant material. Unsuitable plants shall be removed from the project site and replaced at the Contractor's expense. Replacement plants shall be the same species, variety, size and conditions as specified.
5. Plant material is subject to substitution based upon availability. Substituted material shall be approved in advance by the District.

C. FERTILIZERS

1. Fertilizers shall comply with applicable requirements of the State Agricultural Code and shall be packaged, first grade, commercial quality products identified as to source, type of material, weight and manufacturer's guaranteed analysis. Fertilizers shall not contain toxic ingredients in quantities harmful to human, animal, or plant life. When requested, Contractor shall furnish the City/Owner with Certificate of Compliance stating that the material substantially meets the specifications.
2. Commercial fertilizer shall be a pelleted, beaded, or granular product having the chemical analysis specified herein and shall be free-flowing material delivered in original unopened containers. Use of material which becomes caked or otherwise damaged shall not be permitted.
3. Organic base fertilizer shall be comprised of decomposed animal, fish and vegetable matter with humic acids and a bacterial stimulant, manufactured as Gro-Power by Southern California Organic Fertilizer Co., Glendale, California, or approved equal.

D. AMENDMENTS

1. Nitrogen stabilized organic amendment shall be a ground or processed wood product derived from wood of redwood, fir or cedar, treated with a non-toxic agent to absorb water quickly. Nitrogen content, based on dry weight, shall be 0.5% for redwood and 0.7% for fir and cedar. Iron content, based on dry weight, shall be 0.1%. Pine sawdust is not acceptable.
2. When requested, Contractor shall furnish the District with a delivery receipt and Certificate of Compliance stating that the material substantially meets the specifications.

E. TOPSOIL

1. Topsoil shall consist of fertile, friable soil of sandy loam character. It shall be reasonably free from weeds, refuse, roots, heavy or stiff clay, stones larger than one inch (1") in diameter, sticks, brush, litter and other deleterious substances. Topsoil may be obtained from the site if approved by the District.
2. When required, imported topsoil shall be subject to inspection and testing at the source of supply prior to delivery to the project.

F. MATERIAL DELIVERY AND INSPECTION

1. Plant material shall be delivered with legible identification labels, handled and stored adequately to maintain a healthy condition, protecting them from drying out, windburn or any other injury.
2. Inspection of plant materials required by District, County, State or Federal authorities shall be the responsibility of the Contractor. When requested, Contractor shall furnish copies of such permits or certificates to District.

G. SOIL PREPARATION (TURF AND GROUND COVER AREAS)

1. Fertilizing and conditioning materials shall be as specified in the project agricultural suitability report.
2. Contractor shall obtain a soils agricultural suitability report. Amendments and fertilization shall conform to the recommendations as provided by the testing laboratory.
3. Resulting soil shall be clean, in a friable condition and suitable for planting.

H. EXISTING TURF & WEED ABATEMENT OPERATIONS

1. The irrigation system and finish grade shall be completed prior to weed abatement operations.
2. Contractor shall operate the irrigation system to keep planting areas uniformly moist for a period of three (3) weeks (21 consecutive calendar days) prior to spray application. At the end of the three (3) week watering period, or if watering has occurred for (3) weeks during normal watering cycles to maintain existing turf health, Contractor shall spray all visible turf and weeds with a contact herbicide. Application method shall be as recommended by manufacturer. After spraying, planting areas shall remain unwatered for a minimum of forty-eight (48) hours. Remove weeds from site.
3. Water seven (7) additional consecutive calendar days from the first application, and apply a contact herbicide as may be necessary. After second spraying, water shall not be applied for an additional forty-eight (48) hour period. Applications shall continue at seven (7) day intervals as determined by the District.
4. Contractor shall apply spray chemicals when air currents are still; preventing drifting onto adjoining property and preventing any toxic exposure to persons whether or not they are in or near the project.
5. Weeds and debris shall be disposed of off-site.

J. GUARANTEE

1. Contractor shall guarantee sod per the District's requirements.
2. Replacement of sod shall be of the same species, variety, & size as originally planted.
3. Cost incurred due to replacement of dead or dying plant material shall be the responsibility of the Contractor.

END OF SECTION

PLANTING - SODDED TURF

A. GENERAL

This section is supplemental to the General Planting Section. Where applicable, planting shall be in accordance with conditions therein.

B. PLANT MATERIAL QUALITY

1. Sod shall be grown from high quality propagative material, free from weeds, diseases, and insects, and shall be in accordance with the standards for regulation for nursery inspection of the applicable State of the project.
2. Sod shall be machine cut at a uniform thickness of five-eighths of an inch (5/8") (excluding top growth and thatch). Individual pieces shall be cut to the supplier's standard width and length with an allowable deviation of two percent (2%). Broken rolls or uneven ends will not be acceptable.
3. Sod shall be harvested, delivered and installed within a twenty-four (24) hour period.
4. Contractor shall furnish the District with delivery receipts and a Certificate of Compliance stating that the material substantially meets the specifications.

C. INSTALLATION

1. Prepare soil and provide weed abatement operations in accordance with the General Planting Section. Rake, cultivate, float and roll until areas to receive turf are in a smooth and uniform condition.
2. Finish grade for turf areas shall be one inch (1") below the finish surface of walks, curbs, or related hardscape.
3. Prior to sodding, soil shall be moist to a minimum depth of one inch (1").
4. Prior to installation, area to be sodded shall receive sulphate of ammonia at the rate of one (1) pound per 200 square feet.
5. Sod shall be laid and tamped with butt joint in a staggered "running bond" pattern.
6. After installation, sod shall be rolled with a 200-pound water-filled lawn roller.
7. Sod shall be as indicated on the drawings.

END OF SECTION

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westbergwhite
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PROJECT NAME:

Cypress College
Baseball Field Improvements
9200 Valley View Street
Cypress, CA 90630

CLIENT:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
1810 W. ROMNEYA DRIVE, ANAHEIM, CA 92801

No.	Rev. Date	Description

JOB NO: 16034
DATE: 04/02/2019
DRAWN: CAA
CHECK: Checker
ARCHITECT: PDW
ENGINEER:
ARCHITECT:

CONSULTANT:
REGISTERED LANDSCAPE ARCHITECT W. STONE No. 2499 Signature SEPTEMBER 30, 2019 Expiration Date APPROVED APR 02 2019 DSA STATE OF CALIFORNIA

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP NO: 04-117630
FILE NO: 30-C1
AC FLS PTSS
DATE APR 02 2019

SHEET DESCRIPTION:
IRRIGATION & PLANTING SPECIFICATIONS

SHEET NO:
L5