IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

OXNARD UNION HIGH SCHOOL DISTRICT

DSA SUBMITTAL

03/09/2020

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

OXNARD UNION HIGH SCHOOL DISTRICT

APPLICABLE STATE CODES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:

   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 2013 CALIFORNIA AMENDMENTS)

   2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2014 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

   2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2015 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

   2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
   (2015 UNIFORM PLUMBING CODE AND 2013 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.
   (2015 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)

   2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), 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

2. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

3. THE PROVISIONS OF 2016 CBC CHAPTER 11 AND 2016 CBC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.

4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 20	STATIONARY PUMPS	2007 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION

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

SCOPE OF WORK

WORK UNDER THIS CONTRACT INCLUDES THE FOLLOWING ITEMS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE PROJECT MANUAL, INCLUDING:

1. DEMOLITION OF CERTAIN EXISTING TRACK & FIELD COMPONENTS;
2. INSTALLATION OF NEW SYNTHETIC TURF FIELD & TRACK SURFACING;
3. INSTALLATION OF NEW HIGH JUMP;
4. INSTALLATION OF TWO (2) NEW LONG JUMPS;
5. INSTALLATION OF NEW FIELD SCOREBOARD PER PC #04-116017;
6. UPGRADE OF EXISTING STADIUM LIGHTING;
7. CONSTRUCTION OF (3) NEW GATEWAY STRUCTURES;
8. CONSTRUCTION OF (6) NEW TENNIS COURTS
9. CONSTRUCTION OF NEW CONCRETE WALKWAY AROUND EXISTING TRACK OVAL;
10. CONSTRUCTION OF NEW SOFTBALL AND BASEBALL FIELDS;
11. MINOR UPGRADE OF EXISTING RESTROOMS IN BUILDING U; AND
12. REPAIR OF EXISTING BASEBALL FIELD DRAINAGE AND UPGRADE OF EXISTING UNDERGROUND UTILITY LINES AS NEEDED.

PROJECT INSPECTOR

A DIVISION OF THE STATE ARCHITECT (DSA) CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK.

THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, TITLE 24, PART 1 CCR AND IR A-7: CLASS 2 INSPECTOR CERTIFIED BY DSA.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

PROJECT DIRECTORY

PROJECT
CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS - INCREMENT 2
1400 RAIDERS WAY
OXNARD, CA 93030
ROGER ADAMS, SCHOOL PRINCIPAL

OWNER
OXNARD UNION HIGH SCHOOL DISTRICT
309 S. "K" STREET
OXNARD, CA 93030
(805) 385-2500
POUL HANSON, BOND PROJECT MANAGER

ARCHITECT
LITTLE
1300 DOVE STREET, SUITE 100
NEWPORT BEACH, CA 92660
(949) 698-1400
(949) 698-1433 (FAX)
JAY TITTLE, ARCHITECT

CIVIL
LITTLE
1300 DOVE STREET, SUITE 100
NEWPORT BEACH, CA 92660
(949) 698-1400
(949) 698-1433 (FAX)
BARSIN BET GOVARGEZ, CIVIL ENGINEER

LANDSCAPE
LITTLE
1300 DOVE STREET, SUITE 100
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(949) 698-1400
(949) 698-1433 (FAX)
MICHAEL LEDBETTER, LANDSCAPE ARCHITECT

STRUCTURAL
LITTLE
1300 DOVE STREET, SUITE 100
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(949) 698-1433 (FAX)
BRYAN STARR, STRUCTURAL ENGINEER

MECHANICAL / PLUMBING
ENGINEOUS GROUP, INC.
751 N FAIROAKS AVENUE, SUITE 201
PASADENA, CA 91103
(626) 696-3850
(626) 714-7512 (FAX)
BRADLEY SEVERSON, MECHANICAL ENGINEER

ELECTRICAL
ENGINEOUS GROUP, INC.
751 N FAIROAKS AVENUE, SUITE 201
PASADENA, CA 91103
(626) 696-3850
(626) 714-7512 (FAX)
ARTIN OSHIAN, ELECTRICAL ENGINEER

DEFERRED APPROVAL ITEMS

FABRICATION & INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER WHO HAS BEEN DELEGATED THE RESPONSIBILITY OF COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. DEFERRED ITEMS SHALL BE COMPLETED PRIOR TO OCCUPANCY OF BUILDINGS AFFECTED BY THE DEFERRED WORK.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

DEFERRED APPROVAL ITEMS ARE AS FOLLOWS:

NONE

DEFERRED SUBMITTALS (DS) MUST BE RECEIVED AT DSA NO LATER THAN 60 DAYS AFTER LETTING OF CONTRACT.

THE PLANS AND SPECIFICATIONS SHALL BE STAMPED AND SIGNED BY
THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL TO DSA.

DSA REQUIREMENTS

ALL WORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CCR.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) , OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. [SEC. 4-317(c), PART 1, TITLE 24, CCR]

VICINITY MAP NOT TO SCALE

GENERAL NOTES

1. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE, TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND DIVISION OF THE STATE ARCHITECT (OSA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.
2. CONTRACTOR TO VERIFY ALL EXISTING ELEMENTS, WHETHER THEY ARE TO REMAIN, BE REMOVED, OR RELOCATED, ARE IN THE LOCATION AND IN THE CONDITION THAT THESE CONSTRUCTION DOCUMENTS AND ALL REFERENCED DRAWINGS REPRESENT.CONFIRM ALL EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTOR'S RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338.
3. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT NO EXPENSE TO THE OWNER.
4. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT . IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
5. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS AND CONDITIONS.
7. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY.
8. WHERE EQUIPMENT OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) OR "BY OTHERS" ON THE DRAWINGS, SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
9. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF ARCHITECT UNLESS NOTED (+/-) OR "VERIFY". ALL OTHER DIMENSIONS NOTED SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAY-OUT CONTROL UNLESS OTHERWISE DIRECTED BY ARCHITECT.
10. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
11. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.
12. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
13. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
14. REFER TO THE PROJECT MANUAL FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PEDESTRIAN PROTECTION AS REQUIRED BY LOCAL CODE AND SPECIFICATION. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE. CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.
16. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED AND APPROVED BY THE ARCHITECT.
17. TAKE ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL SCHOOL PROCEDURES. NOTIFY OWNER IN ADVANCE OF ANY SYSTEM SHUT-OFFS. MINIMIZE NOISE AND DUST GENERATION TO MAXIMUM EXTENT POSSIBLE. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
18. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN WALKWAYS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
19. PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE SITE TO ORIGINAL CONDITION OF ALL EXISTING PORTIONS OF THE TRACK AND FIELD AFFECTED BY CONTRACTORS WORK, TO THE SATISFACTION OF ARCHITECT AND OWNER.
20. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH MATERIAL MANUFACTURERS.
21. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
22. CONTRACTOR SHALL INSURE ALL CONSTRUCTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.

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CIVIL

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MUSCO STADIUM LIGHTING

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FIELD SCOREBOARD PER PC#04-116017

1	PC-2 TITLE PAGE
2	PC SIGN MOUNTING DETAILS 1
6	PC-2 25'-0" WIDE ELEVATION 110 MPH WIND SPEED

Grand total: 100

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

The drawings or sheets listed on the sheet index under:
'MUSCO STADIUM LIGHTING'
'FIELD SCOREBOARD PER PC#04-116017'

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 is acceptable for incorporation into the construction of this project.

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

I certify that all drawings listed on the sheet index under:
'MUSCO STADIUM LIGHTING'
'FIELD SCOREBOARD PER PC#04-116017'

are in general conformance with the project design, and have been coordinated with the project plans.

Signature — 03-05-2020 Date

Architect or Engineer designated to be in responsible charge

JAY R. TITTLE, AIA
Print Name

C 12955 — License Number
11-30-21 — Expiration Date

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT JAY R. TITTLE NO. C 12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM /RC /JR /CL /TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
TITLE SHEET / SHEET INDEX

SHEET NUMBER
G0.1.1

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OCCUPANCY AND EGRESS TABLE

EXIT REQUIREMENTS AND TRAVEL DISTANCE

FLOOR, ROOM OR SPACE DESIGNATION	OCCUPANCY TYPE	MINIMUM NUMBER OF EXITS		EXIT ACCESS TRAVEL DISTANCE		COMMON PATH OF EGRESS TRAVEL	
		REQUIRED PER TABLE 1006.2.1	SHOWN IN PLAN	MAXIMUM PER TABLE 1017.2	SHOWN IN PLAN	MAXIMUM PER TABLES 1006.2.1 & 1006.3.2(2)	SHOWN IN PLAN
HOME GATEWAY TICKET BOOTH	B	1	1	200' - 0"	12' - 6"	100' - 0"	12' - 6"
GATEWAY 2 TICKET BOOTH	B	1	1	200' - 0"	11' - 2"	100' - 0"	11' - 2"
GATEWAY 3 TICKET BOOTH	B	1	1	200' - 0"	11' - 2"	100' - 0"	11' - 2"

FIRE-RESISTANCE RATING REQUIREMENTS

FIRE-RESISTANCE RATING REQUIREMENTS FOR GATEWAY STRUCTURES [1]

BUILDING ELEMENT FOR TYPE V-B		REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME		0	1
BEARING WALLS	EXTERIOR	0	1
	INTERIOR	0	N/A
NONBEARING WALLS AND PARTITIONS	EXTERIOR	SEE BELOW	0
	INTERIOR	0	N/A
FLOOR CONSTRUCTION AND SECONDARY MEMBERS		0	1
ROOF CONSTRUCTION AND SECONDARY MEMBERS		0	0

[1] PER 2016 CBC TABLE 601.

FIRE-RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE [2]

FIRE SEPARATION DISTANCE (FEET)	REQUIRED	PROVIDED
X < 5	1	N/A
5 ≤ X < 10	1	N/A
10 ≤ X < 30	0	0
X ≥ 30	0	0

[2] PER 2016 CBC TABLE 602 FOR TYPE V-B CONSTRUCTION, OCCUPANCY GROUP B.

BUILDING INFORMATION

(N) HOME GATEWAY w/ TICKET BOOTH:

OCCUPANCY: B
TYPE OF CONSTRUCTION: V-B

FIRE SPRINKLER: NO

BUILDING HEIGHT:
HEIGHT IN FEET ABOVE GRADE PLANE:
ALLOWABLE: 40' - 0" (PER 2016 CBC TABLE 504.3, FOR TYPE V-B, B OCC., NS)
ACTUAL: 12' - 6" (< 40' - 0" = COMPLIANT)

NUMBER OF STORIES ABOVE GRADE PLANE:
ALLOWABLE: 2 STORIES (PER 2016 CBC TABLE 504.4, TYPE V-B, B OCC., NS)
ACTUAL: 1 (COMPLIANT)

BUILDING AREA:
ALLOWABLE: 9,000 SF (PER 2016 CBC TABLE 506.2 FOR TYPE V-B, B OCC.,NS)
ACTUAL: 69 SF (COMPLIANT)

(N) GATEWAY 2 w/ TICKET BOOTH:

OCCUPANCY: B
TYPE OF CONSTRUCTION: V-B

FIRE SPRINKLER: NO

BUILDING HEIGHT:
HEIGHT IN FEET ABOVE GRADE PLANE:
ALLOWABLE: 40' - 0" (PER 2016 CBC TABLE 504.3, FOR TYPE V-B, B OCC., NS)
ACTUAL: 10' - 10" (< 40' - 0" = COMPLIANT)

NUMBER OF STORIES ABOVE GRADE PLANE:
ALLOWABLE: 2 STORIES (PER 2016 CBC TABLE 504.4, TYPE V-B, B OCC., NS)
ACTUAL: 1 (COMPLIANT)

BUILDING AREA:
ALLOWABLE: 9,000 SF (PER 2016 CBC TABLE 506.2 FOR TYPE V-B, B OCC.,NS)
ACTUAL: 50 SF (COMPLIANT)

(N) GATEWAY 3 w/ TICKET BOOTH:

OCCUPANCY: B
TYPE OF CONSTRUCTION: V-B

FIRE SPRINKLER: NO

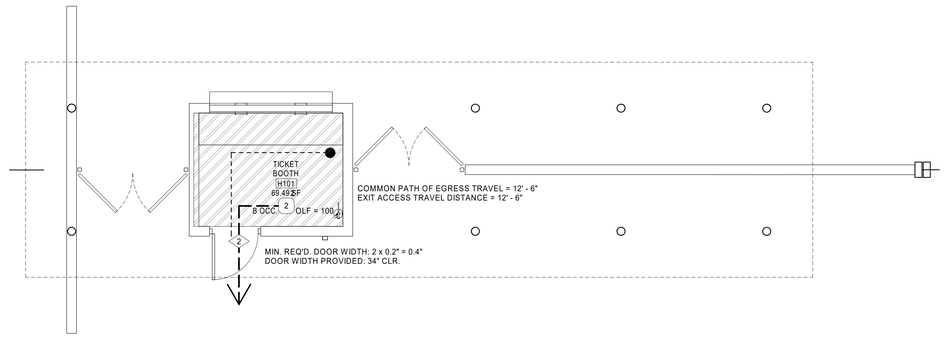
BUILDING HEIGHT:
HEIGHT IN FEET ABOVE GRADE PLANE:
ALLOWABLE: 40' - 0" (PER 2016 CBC TABLE 504.3, FOR TYPE V-B, B OCC., NS)
ACTUAL: 10' - 10" (< 40' - 0" = COMPLIANT)

NUMBER OF STORIES ABOVE GRADE PLANE:
ALLOWABLE: 2 STORIES (PER 2016 CBC TABLE 504.4, TYPE V-B, B OCC., NS)
ACTUAL: 1 (COMPLIANT)

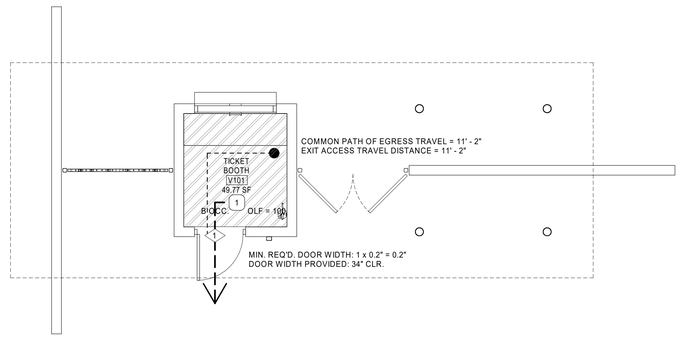
BUILDING AREA:
ALLOWABLE: 9,000 SF (PER 2016 CBC TABLE 506.2 FOR TYPE V-B, B OCC.,NS)
ACTUAL: 50 SF (COMPLIANT)

EGRESS ANALYSIS LEGEND

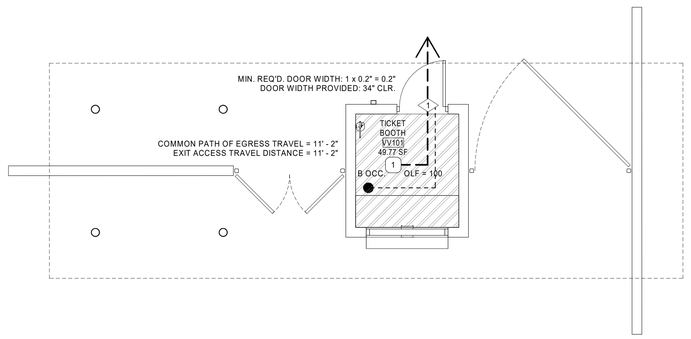
- B OCCUPANCY
- X — ROOM OCCUPANCY LOAD
- X — EXITING OCCUPANTS
- PATH OF EXIT ACCESS TRAVEL (ARROW INDICATES DIRECTION)
- COMMON PATH OF EGRESS TRAVEL



HOME GATEWAY - OCCUPANCY AND EGRESS ANALYSIS 1
1/4" = 1'-0" G1.0.1



GATEWAY 2 - OCCUPANCY AND EGRESS ANALYSIS 2
1/4" = 1'-0" G1.0.1



GATEWAY 3 - OCCUPANCY AND EGRESS ANALYSIS 3
1/4" = 1'-0" G1.0.1

C:\Users\famaz.mahjoob\Documents\6121235305 OXNARD UHSD CHANNEL ISLANDS HS TRACK & FIELD IMPROVEMENTS-CENTRAL 2018_famaz.mahjoob.rvt

3/6/2020 12:00:07 AM

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
JAY R. TITTLE
No. C-25305
REN. 08/31/21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

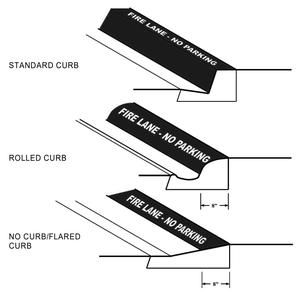
PROJECT TEAM
PRINCIPAL IN CHARGE
Designer
PROJECT MANAGER
Checker
DESIGN TEAM
Author

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
CODE ANALYSIS

SHEET NUMBER
G1.0.1

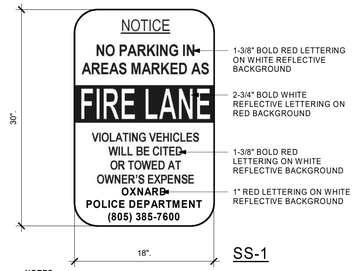


NOTES:

1. FIRE LANE ENTRANCE SIGN/S SHALL BE PROVIDED PER DETAIL 3/G2.0.1
2. CURBS SHALL BE PAINTED OSHA SAFETY RED.
3. "FIRE LANE - NO PARKING" SHALL BE PAINTED ON TOP OF CURB IN 3" WHITE LETTERS AT 30' O.C. MAX.

FIRE LANE IDENTIFICATION - RED CURBS | 2 | G2.0.1

1/4" = 1'-0"



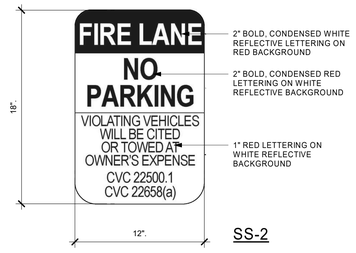
SS-1

NOTES:

1. ALL SIGN AND LETTERING DIMENSIONS SHOWN ARE MINIMUMS. THIS SIGN SHALL BE POSTED AT ALL VEHICLE ENTRANCES TO AREAS MARKED WITH EITHER RED CURBS OR FIRE LANE "NO PARKING" SIGNS.
2. SIGNS SHALL BE SECURELY MOUNTED FACING THE DIRECTION OF TRAVEL AND CLEARLY VISIBLE TO ONCOMING TRAFFIC ENTERING THE DESIGNATED AREA. SIGNS SHALL BE MADE OF DURABLE MATERIAL AND INSTALLED PER CFC TABLE A-111-AA-1 MINIMUM REQUIREMENT.

FIRE LANE ENTRANCE SIGN | 3 | G2.0.1

1/4" = 1'-0"



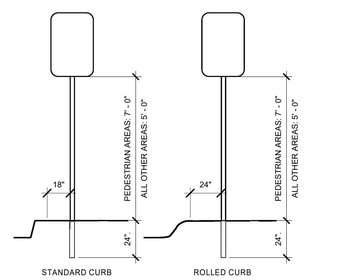
SS-2

NOTES:

1. ALL SIGN AND LETTERING DIMENSIONS SHOWN ARE MINIMUMS.
2. SIGNS SHALL BE SECURELY MOUNTED FACING THE DIRECTION OF TRAVEL AND CLEARLY VISIBLE TO ONCOMING TRAFFIC ENTERING THE DESIGNATED AREA. SIGNS SHALL BE MADE OF DURABLE MATERIAL AND INSTALLED PER CFC TABLE A-111-AA-1 MINIMUM REQUIREMENT.

FIRE LANE NO PARKING SIGN | 4 | G2.0.1

1/4" = 1'-0"



NOTES:

1. SIGNS SHALL BE MOUNTED FACING THE DIRECTION OF VEHICULAR TRAVEL.
2. SIGNS MAY BE MOUNTED ON (E) POST OR ON BUILDINGS WHEN THE CENTERLINE OF THE SIGN IS NO MORE THAN 24" FROM THE EDGE OF THE ROADWAY.
3. DEPTH OF BURY SHALL BE A MINIMUM OF 24."

FIRE LANE SIGN MOUNTING | 5 | G2.0.1

1/4" = 1'-0"

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3/6/2020 12:00:15 AM

RETURN COMPLETED FORM TO: BUILDING AND ENGINEERING DIVISION
NOTE: THIS FORM MUST BE SIGNED BY THE REGISTERED PROFESSIONAL O.E., RCE OR C-16 CONTRACTOR) HAVING RESPONSIBILITY FOR THE TEST

LOCATIONS OF HYDRANTS: 1400 Raiders Way
PROJECT: Channel Islands High School — ADDRESS: 1400 Raiders Way
DEVELOPER: Oxnard Union High School District
INSPECTOR: Ambrosio Yoro Jr. — OBSERVERS: — FIRM: City of Oxnard
ENGINEER/CONTRACTOR: Service-Pro Fire Protection, Inc. — LIC NO./TYPE: 817889 / C-16
FAX: 805-487-2975
PHONE: 805-487-1477

TEST NO.	LOCATION	TIME DATE	TIME	DAY	C	DIA. (IN)	PRESSURES (psi) STATIC	PITOT	RESID. LVL	OBSERVED	FLOW RATES (gpm) CALCULATED AT 20 psi
Flow 1	Gauge Hydrant #1 East Hydrant Flow Hydrant #2 East Hydrant	11.20.19	9 a.m	Wed.			60 psi	15 psi	32 psi	850 gpm	1,031 gpm
Flow 2	Gauge Hydrant #1 West Hydrant Flow Hydrant #2 West Hydrant	11.20.19	9 a.m	Wed.			62 psi	14 psi	32 psi	820 gpm	983 gpm
Flow 3	Gauge Hydrant #1 South Hydrant Flow Hydrant #2 South Hydrant	11.20.19	9 a.m	Wed.			78 psi	39 psi	70 psi	1,370 gpm	3,993 gpm

(2) 1 3/4" pitotless nozzle flowing to open atmosphere.

The formula used to compute the discharge, Q in gpm from these measurements is:

$$Q = 29.83cd^2(p)^{1/2}$$

where
c = is the coefficient of discharge
d = the diameter of the outlet in inches
p = the velocity pressure in psi.

If flow tubes (stream straighteners) are being utilized a "c" of 0.95 is suggested unless the coefficient of the tube is known.

Outlet square and projecting into barrel: c = 0.80
Outlet square and sharp: c = 0.70
Outlet smooth and rounded: c = 0.90

The formula which is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is:

$$Q_r = Q_t \times \frac{h_r^{0.54}}{h_t^{0.54}}$$

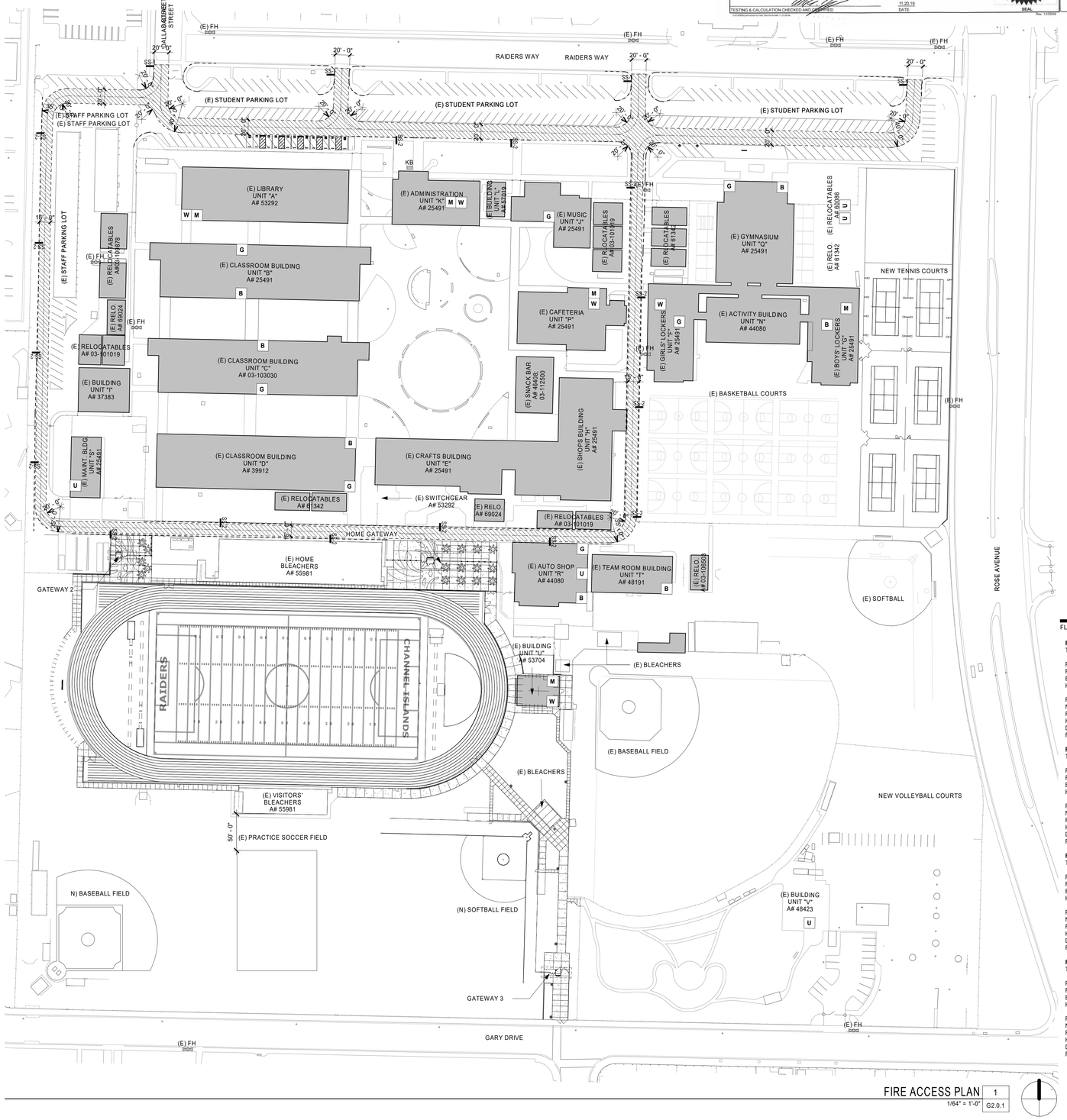
Q_r = flow available at desired residual pressure
Q_t = flow during test
H_r = pressure drop to desired residual pressure
H_t = pressure drop during test

TESTING & CALCULATION CHECKED AND APPROVED — 11.20.19 DATE

SEAL

NOTE: BLACK INK ONLY

Rev. 11/2/2005



FIRE ACCESS PLAN | 1 | G2.0.1

1/64" = 1'-0"

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	OXNARD UNION HIGH SCHOOL DISTRICT
Project Name/School:	CHANNEL ISLANDS HIGH SCHOOL
Project Address:	1400 RAIDERS WAY, OXNARD, CA 93033

FIRE & LIFE SAFETY INFORMATION					
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☒		No ☐	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒		No ☐	
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☒	
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐	
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐	

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

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	OXNARD FIRE DEPARTMENT
LFA Review Official:	SERGIO MARTINEZ
Title:	BATTALION CHIEF/FIRE MARSHAL
Work E-mail:	sergio.martinez@oxnard.org

LFA Reviewer's Signature: _____ Date: _____

FLOW CALCULATION

FOR (E) FIELD BUILDING UNIT 'U':
TOTAL BUILDING AREA: 1,232 SF

PER 2016 CFC APPENDIX BB TABLE BB105.1, REQUIRED FIRE FLOW AND DURATION FOR TYPE V-B BUILDINGS AT 0 SF TO 3,600 SF = 1,500 GPM AT 2 HOURS.

PER 2016 CFC APPENDIX CC TABLE CC105.1, MINIMUM NUMBER OF HYDRANTS REQUIRED FOR 1,500 GPM FIRE FLOW IS ONE (1); AVERAGE SPACING BETWEEN HYDRANTS IS 500 FEET; AND, MAXIMUM ALLOWED DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT IS 250 FEET.

FOR HOME GATEWAY w/ TICKET BOOTH:
TOTAL BUILDING AREA: 105 SF

PER 2016 CFC APPENDIX BB TABLE BB105.1, REQUIRED FIRE FLOW AND DURATION FOR TYPE V-B BUILDINGS AT 0 SF TO 3,600 SF = 1,500 GPM AT 2 HOURS.

PER 2016 CFC APPENDIX CC TABLE CC105.1, MINIMUM NUMBER OF HYDRANTS REQUIRED FOR 1,500 GPM FIRE FLOW IS ONE (1); AVERAGE SPACING BETWEEN HYDRANTS IS 500 FEET; AND, MAXIMUM ALLOWED DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT IS 250 FEET.

FOR GATEWAY 2 w/ TICKET BOOTH:
TOTAL BUILDING AREA: 75 SF

PER 2016 CFC APPENDIX BB TABLE BB105.1, REQUIRED FIRE FLOW AND DURATION FOR TYPE V-B BUILDINGS AT 0 SF TO 3,600 SF = 1,500 GPM AT 2 HOURS.

PER 2016 CFC APPENDIX CC TABLE CC105.1, MINIMUM NUMBER OF HYDRANTS REQUIRED FOR 1,500 GPM FIRE FLOW IS ONE (1); AVERAGE SPACING BETWEEN HYDRANTS IS 500 FEET; AND, MAXIMUM ALLOWED DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT IS 250 FEET.

FOR GATEWAY 3 w/ TICKET BOOTH:
TOTAL BUILDING AREA: 75 SF

PER 2016 CFC APPENDIX BB TABLE BB105.1, REQUIRED FIRE FLOW AND DURATION FOR TYPE V-B BUILDINGS AT 0 SF TO 3,600 SF = 1,500 GPM AT 2 HOURS.

PER 2016 CFC APPENDIX CC TABLE CC105.1, MINIMUM NUMBER OF HYDRANTS REQUIRED FOR 1,500 GPM FIRE FLOW IS ONE (1); AVERAGE SPACING BETWEEN HYDRANTS IS 500 FEET; AND, MAXIMUM ALLOWED DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT IS 250 FEET.

FIRE ACCESS NOTES

1. ALL VEGETATION AND OTHER OBSTRUCTIONS OVERHANGING A FIRE ACCESS ROADWAY SHALL BE MAINTAINED TO A CLEAR HEIGHT OF 13'-6".
2. ALL POLES, BACKBOARDS AND OTHER OBSTRUCTIONS NEAR A FIRE ACCESS ROADWAY SHALL BE PROVIDED WITH REFLECTIVE TAPE OR PAINT.
3. KNOX BOX AND KEY SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIRE FIGHTER ACCESS.
4. ALL WEATHER ACCESS ROADWAYS AND ALL FIRE HYDRANTS SHALL BE IN PLACE AND OPERATIONAL BEFORE BRINGING COMBUSTIBLE BUILDING MATERIALS OR PORTABLE UNITS ON SITE.
5. ALL PEDESTRIAN GATES WILL BE EQUIPPED WITH A KNOX BOX CONTAINING A KEY THAT WILL OPEN THE GATE.
6. SEE CIVIL DRAWINGS FOR SITE EXCAVATION, GRADING, DRAINAGE, WATER, SEWER, PAVING, HORIZONTAL AND VERTICAL CONTROL, AND ADDITIONAL SITE AND CONSTRUCTION INFORMATION.
7. WORK SHALL COMPLY WITH THE PROVISIONS OF 2016 CBC CHAPTER 33, "SAFEGUARDS DURING CONSTRUCTION," AND 2016 CFC CHAPTER 11, "CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS."

SITE PLAN LEGEND

	FIRE LANE. MIN. 20'-0" WIDE
	(E) BUILDING TO REMAIN
	(E) CHAIN LINK FENCE TO REMAIN
	RED CURB. SEE DETAIL 2/G2.0.1
(E) F. H.	(E) FIRE HYDRANT
SS-1	FIRE LANE ENTRANCE SIGN. SEE DETAIL 3/G2.0.1
SS-2	FIRE LANE NO PARKING SIGN. SEE DETAIL 4/G2.0.1
KB	KNOX BOX PER OXNARD FIRE DEPARTMENT STANDARDS

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT — JAY R. TITTLE — NO. C12382 — REN. 08-31-21 — STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE: JT
PROJECT MANAGER: LEB
DESIGN TEAM: FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
FIRE ACCESS SITE PLAN

SHEET NUMBER
G2.0.1

GENERAL NOTES

1. WORK SHALL BE PERFORMED ACCORDING TO THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS AND PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK & S.P.P.W.C), LATEST EDITION OF CALIFORNIA BUILDING CODE AND CITY OF OXNARD BUILDING CODE REQUIREMENTS.

2. NO WORK SHALL BE STARTED WITHOUT A PRE-CONSTRUCTION MEETING WITH THE OWNER, INSPECTOR AND AOR.

3. THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES AND TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES AND IMPROVEMENTS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK.

4. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CIVIL ENGINEER.

5. IMPORTANT NOTICE – SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE ANY "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133, TWO WORKING DAYS BEFORE YOU DIG.

6. ANY IMPROVEMENT(S) TO BE CONSTRUCTED WITHIN PUBLIC RIGHT-OF-WAY WILL REQUIRE SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE GOVERNING AGENCY(IES). CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL APPLICABLE PERMITS AND PAYING ANY REQUIRED FEES.

7. FILLS SHALL BE COMPACTED THROUGHOUT TO AT LEAST 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D 1557.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL GRADE STAKES UNTIL AUTHORIZED BY SURVEYOR TO REMOVE.

9. CONTRACTOR SHALL RESTORE LIKE FOR LIKE, TO THE SATISFACTION OF THE OWNER/ARCHITECT, ALL AREAS DAMAGED OR DISTURBED AS A RESULT OF WORK PERFORMED PURSUANT TO THESE PLANS AT HIS/HERS OWN EXPENSE.

10. FIELD DENSITY MAY BE DETERMINED BY THE NUCLEAR DENSITY METHOD A.S.T.M. D2922 & D3017 PROVIDED NOT LESS THAN 10% OF THE REQUIRED DENSITY TESTS UNIFORMLY DISTRIBUTED ARE BY THE SAND-CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY AND LOCATION AND APPROXIMATE ELEVATION SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE CITY ENGINEER.

11. CRUSHED AGGREGATE BASE MATERIAL SHALL CONFORM TO SUBSECTION 200-2.2 OF STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION USING MECHANICAL COMPACTING EQUIPMENT.

12. NEW CONCRETE SHALL BE CLASS 520-C-2500 (310-C-17) CONFORMING WITH S.S.P.W.C. 201-1.1.2.

13. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE PROPERTY INSOFAR AS IT MAY BE AFFECTED BY THESE OPERATIONS. ALL COSTS FOR PROTECTING, REMOVING AND RESTORING EXISTING IMPROVEMENTS SHALL BE BORNE BY THE CONTRACTOR.

14. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE IN EFFECT AT ALL TIMES.

15. THE CONTRACTOR SHALL VERIFY ALL JOINT ELEVATIONS PRIOR TO THE REMOVAL OF PAVEMENT, CURB, GUTTER, SIDEWALK AND/OR SLOPE GRADING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO REMOVALS WITHIN THE AREA OF THE DISCREPANCIES.

16. DUST SHALL BE CONTROLLED BY WATERING TO THE SATISFACTION OF THE INSPECTOR.

17. WHERE THE IRRIGATION SYSTEM IN CONFLICT WITH NEW WORK NEEDS TO BE RELOCATED OR REPLACED, CONTRACTOR SHALL COORDINATE THE WATER SHUT OFF OR ANY ELECTRICAL RELATED WORK WITH OWNER 48 HOURS PRIOR COMMENCING THE WORK.

18. ALL EXPOSED P.C.C. CORNERS SHALL BE ROUNDED WITH A 1/2" RADIUS.

19. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.

20. CONTRACTOR TO CALCULATE HIS/HER OWN QUANTITIES FOR BIDDING PURPOSES.

21. FOR JOINTS AT NEW CURB AND SIDEWALK REFER TO S.P.P.W.C. STD. PLAN No. 112-2. ALSO SEE DETAILS ON THIS SHEET FOR ADDITIONAL INFORMATION JOINT DETAILS.

22. IF WORK IS COMMENCED DURING RAINY SEASON, CONTRACTOR SHALL SATISFY CITY OF OXNARD AND VENTURA COUNTY'S EROSION CONTROL REQUIREMENTS AND INSTALL APPROPRIATE BMPs.

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY AND ALL CONDUITS, UTILITY PIPES, AND STRUCTURES SHOWN ON THIS SET OF PLANS ARE OBTAINED BASED ON AVAILABLE RECORDS AT THE TIME OF DESIGN. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT AT THE TIME OF DESIGN EXCEPT AS SHOWN ON THIS SET OF PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY AND ALL UTILITY LINES SHOWN ON THIS SET OF PLANS. THE CONTRACTOR FURTHER ASSUMES ANY AND ALL LIABILITY AND RESPONSIBILITY FOR THE CONDUITS, UTILITY PIPES, AND STRUCTURES SHOWN ON THIS SET OF DRAWINGS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS STIPULATION INCLUDES THE SAFETY OF ANY AND ALL PERSONS AND PROPERTY. THE CONTRACTOR SHALL FURTHER DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, WITH THE EXCEPTION OF LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

GENERAL NOTES FOR ON-SITE UTILITIES

1. CONTRACTOR SHALL VERIFY ALL SITE UTILITY ROUTES, STRUCTURE LOCATIONS AND ASSOCIATED REQUIREMENTS WITH RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING WORK ON THOSE UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL GRADE STAKES UNTIL AUTHORIZED BY SURVEYOR TO REMOVE.
3. INDIVIDUAL PIPE FITTINGS ARE NOT CALLED OUT; CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS AS REQUIRED TO COMPLETE THIS PROJECT. PIPE LENGTHS SHOWN ARE APPROXIMATE.
4. RESTORATION/REPAIR: CONTRACTOR SHALL RESTORE/REPAIR ALL AREAS DAMAGED OR DISTURBED AS A RESULT OF ALL WORK PERFORMED PURSUANT TO THESE PLANS. SUCH AREAS INCLUDE, BUT ARE NOT LIMITED TO, CURB AND GUTTER, A.C. PAVEMENT, CONCRETE, STRIPING, LANDSCAPING, AND UTILITIES. RESTORATION/REPAIR SHALL INCLUDE, BUT IS NOT LIMITED TO, MATCHING A.C. AND CONCRETE SECTIONS AND TEXTURE, MATCHING FINISH AS APPLICABLE, ALL TO THE SATISFACTION OF THE DISTRICT.
5. ADDITIONAL MATERIALS: CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR, SUBJECT TO THE APPROVAL OF THE DISTRICT AND ARCHITECT/ENGINEER, NOT SPECIFICALLY DESCRIBED IN THE CONSTRUCTION NOTES BUT REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF THIS WORK.
6. ALL MATERIALS REMOVED SHALL BE TAKEN OFF SCHOOL PROPERTY BY CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE CODES UNLESS DIRECTED BY OWNER TO BE SALVAGED.
7. CONTRACTOR TO POTHOLE AND VERIFY THE SIZE, MATERIAL AND INVERT ELEVATION OF EXISTING UTILITY AND VERIFY THAT THE CONNECTION CAN BE MADE AS SHOWN ON THE PLAN. IN THE EVENT OF A DISCREPANCY, NOTIFY THE OWNER/PROJECT MANAGER OF THE FIELD FINDINGS 7 DAYS PRIOR TO THE CONSTRUCTION DATE FOR ALTERNATIVE RESOLUTION.

CONTRACTOR TO INCLUDE IN THEIR BID (SWPPP)

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE SWPPP.; SUBMIT IT TO THE STATE WATER QUALITY BOARD, OBTAIN NOI (NOTICE OF INTENT), AND PAY THE NECESSARY FEES FOR THE PERMIT. SWPPP MUST BE PREPARED BY A CERTIFIED QSD

IT WILL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A CERTIFIED "QSP" FOR SWPPP OBSERVATIONS AND FILLING ALL NECESSARY REPORTS THROUGH "SMART" WITH THE STATE WATER QUALITY BOARD THROUGHOUT THE LIFE OF THE PROJECT TILL IT IS COMPLETED. CONTRACTOR'S "QSP" SHALL FILE THE NOI (NOTICE OF INTENT).

UNDERGROUND SERVICE ALERT

CALL: TOLL FREE

1-800-422-4133

LEGEND

FS	FINISH SURFACE ELEVATION
TC	TOP OF CURB ELEVATION
TS	TOP OF CONCRETE SLAB ELEVATION
XX.XX	PROPOSED SPOT ELEVATION
(XX.XX)	EXISTING SPOT ELEVATION
	CMU WALL
— X —	EXISTING FENCE
—— XX ——	NEW C.L. FENCE
CONC.	CONCRETE
G.B.	GRADE BREAK
ESW	EDGE OF SIDEWALK
DWY	DRIVEWAY
C&G	CURB & GUTTER
H.P.	HIGH POINT
NG	NATURAL GROUND
S.P.P.W.C.	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
S.S.P.W.C.	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
C.F.	CURB FACE
ELEV.	ELEVATION
EX.	EXISTING
BCR.	BEGIN CURB RETURN
ECR.	END CURB RETURN
A.P.	ANGLE POINT
(X)	FURNISH AND INSTALL/CONSTRUCT, DEMOLISH, REMOVE AND REPLACE, OR RELOCATE, AS INDICATED.
XX.X%	NEW SLOPE
(XX.X)%	EXISTING SLOPE
FL	FLOW LINE
T.B.M.	TEMPORARY BENCH MARK
CONC.	CONCRETE PAVEMENT
A.C.	ASPHALT CONCRETE PAVING
(N)	NEW
T.B.M	TEMPORARY BENCH MARK
F.F.	FINISH FLOOR
A.F.F.	ABOVE FINISH FLOOR
EG	EDGE OF GUTTER
CLR.	CLEAR
SCO	SEWER CLEAN-OUT
SMH	SEWER MANHOLE
S.J.	SAWCUT JOINT
E.J.	EXPANSION JOINT
C.J.	CONTROL JOINT
D.I.	DRAIN INLET
SCO	SEWER CLEAN-OUT
EPB	ELECTRICAL PULL BOX
WV	WATER VALVE
P.A.	PLANTING AREA

BASIS OF BEARING

N89°55'34"W BEING THE CENTERLINE OF GARY DRIVE PER MAP RECORDED IN BOOK 78, PAGES 34 THROUGH 37, OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF VENTURA COUNTY, STATE OF CALIFORNIA.

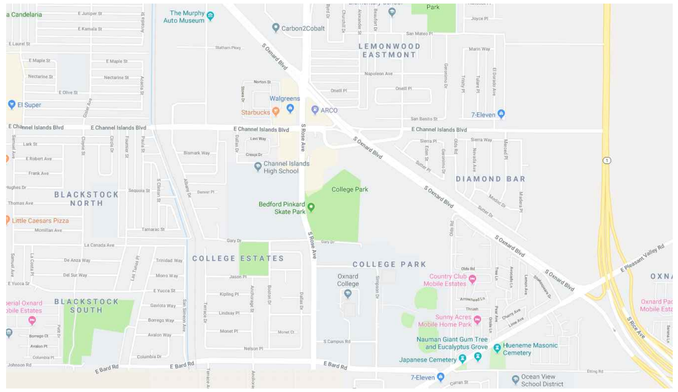
BENCHMARK

CITY OF OXNARD GARY 2000

ELEVATION: 9.732 (NAVD 88)

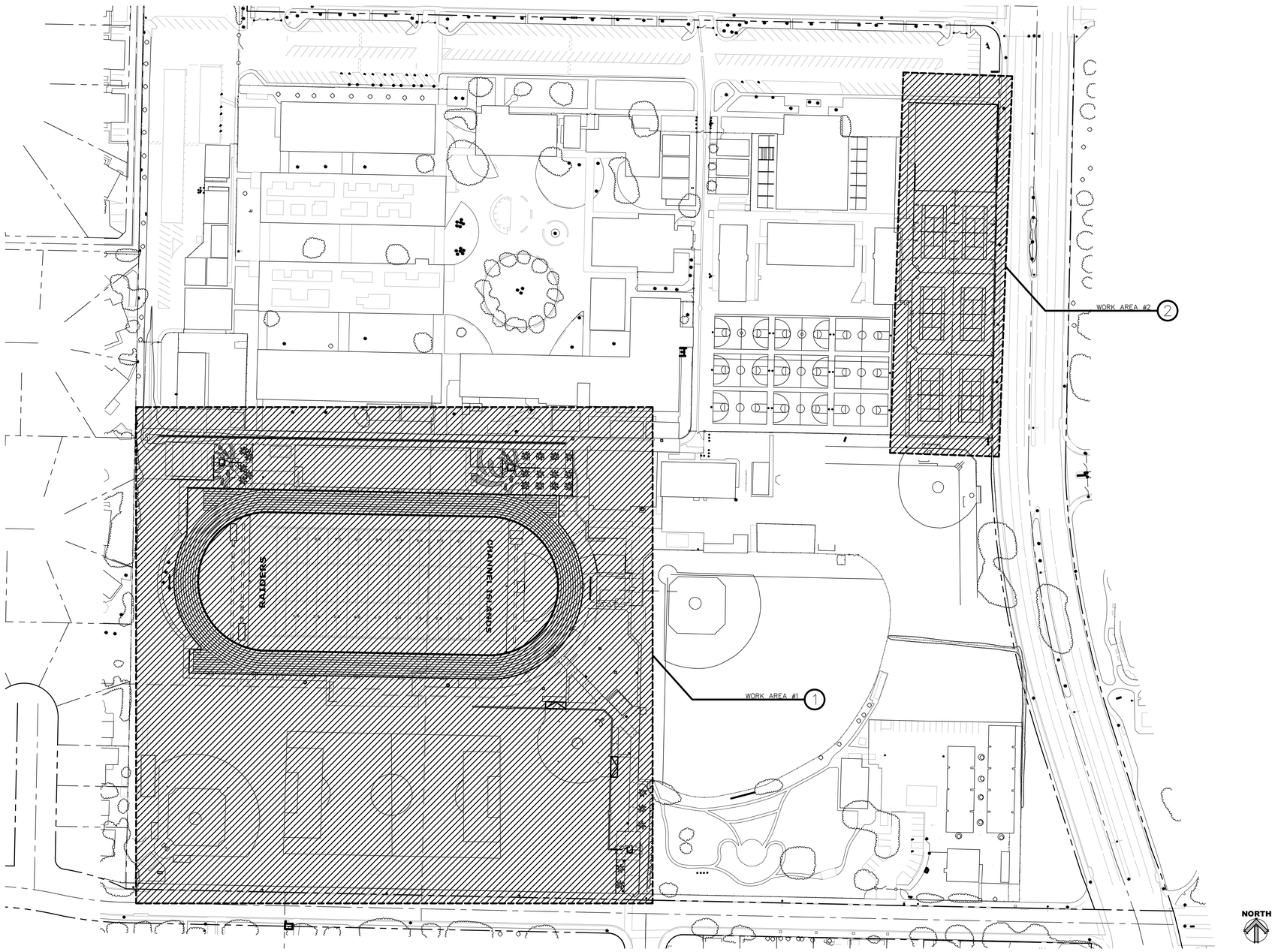
DESCRIPTION: BRASS DISK STAMPED "GARY 2000"

LOCATION: BRASS DISK STAMPED "GARY 2000" SET ON TOP OF CURB AT THE SOUTHWEST CORNER OF THE INTERSECTION OF ROSE AVENUE AND GARY DRIVE. THE DISK IS 5.5 FEET SOUTH OF THE SOUTHERLY CURB RETURN (ECR).



NORTH

VICINITY MAP
NTS



CAMPUS LOCATION MAP: WORK AREAS

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400

www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB

PROJECT MANAGER
BB

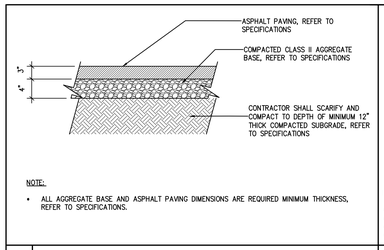
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
COVER SHEET - NOTES & INDEX MAP

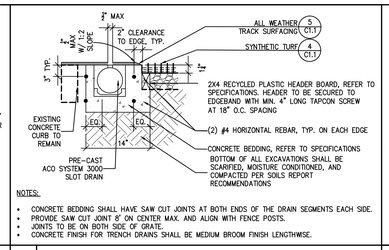
SHEET NUMBER
C1.0



NOTE:

- ALL AGGREGATE BASE AND ASPHALT PAVING DIMENSIONS ARE REQUIRED MINIMUM THICKNESS, REFER TO SPECIFICATIONS.

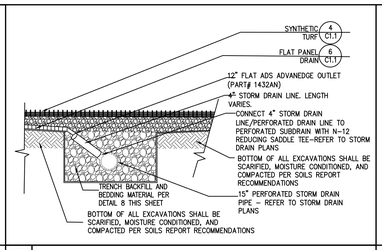
1 ASPHALT PAVING UNDER TRACK SURFACE N.T.S



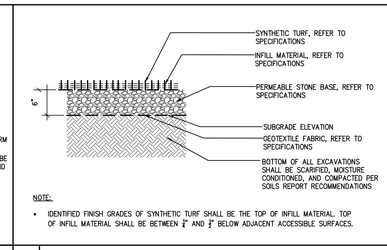
NOTES:

- CONCRETE BEDDING SHALL HAVE SAW CUT JOINTS AT BOTH ENDS OF THE DRAIN SEGMENTS EACH SIDE.
- PROVIDE SAW CUT JOINT 8" ON CENTER MAX. AND ALIGN WITH FENCE POSTS.
- JOINTS TO BE ON BOTH SIDE OF GRATE.
- CONCRETE FINISH FOR TRENCH DRAINS SHALL BE MEDIUM BROOM FINISH LENGTHWISE.

2 TRACK TRENCH DRAIN N.T.S



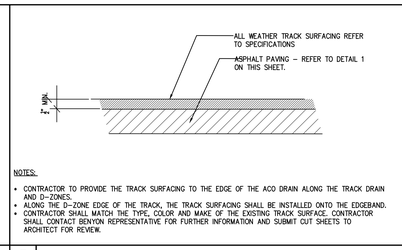
3 FLAT DRAIN CONNECTION N.T.S



NOTE:

- IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. TOP OF INFILL MATERIAL SHALL BE BETWEEN ½" AND ¾" BELOW ADJACENT ACCESSIBLE SURFACES.

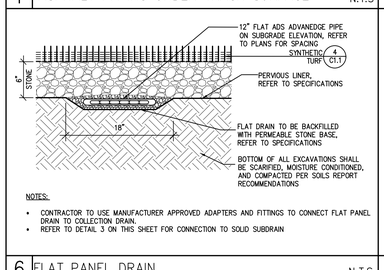
4 SYNTHETIC TURF N.T.S



NOTES:

- CONTRACTOR TO PROVIDE THE TRACK SURFACING TO THE EDGE OF THE ACO DRAIN ALONG THE TRACK DRAIN AND D-ZONES.
- ALONG THE D-ZONE EDGE OF THE TRACK, THE TRACK SURFACING SHALL BE INSTALLED ONTO THE EDGEBAND.
- CONTRACTOR SHALL MATCH THE TYPE, COLOR AND MAKE OF THE EXISTING TRACK SURFACE. CONTRACTOR SHALL CONTACT BENYON REPRESENTATIVE FOR FURTHER INFORMATION AND SUBMIT CUT SHEETS TO ARCHITECT FOR REVIEW.

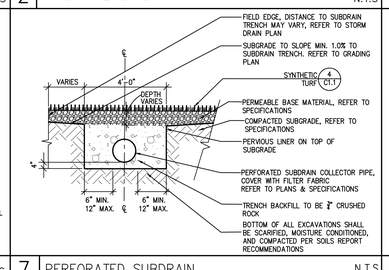
5 ALL WEATHER TRACK SURFACING N.T.S



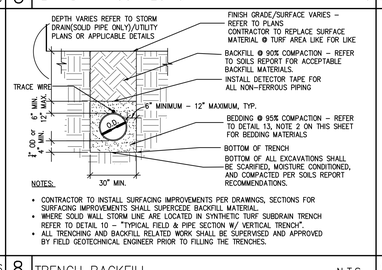
NOTES:

- CONTRACTOR TO USE MANUFACTURER APPROVED ADAPTERS AND FITTINGS TO CONNECT FLAT PANEL DRAIN TO COLLECTION DRAIN.
- REFER TO DETAIL 3 ON THIS SHEET FOR CONNECTION TO SOLID SUBDRAIN

6 FLAT PANEL DRAIN N.T.S



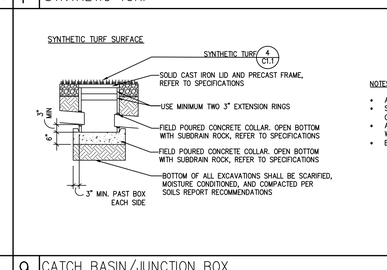
7 PERFORATED SUBDRAIN N.T.S



NOTES:

- CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS, SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL MATERIAL.
- WHERE SOLID WALL STORM LINE ARE LOCATED IN SYNTHETIC TURF SUBDRAIN TRENCH REFER TO DETAIL 10 – "TYPICAL FIELD & PIPE SECTION W/ VERTICAL TRENCH".
- ALL TRENCHING AND BACKFILL RELATED WORK SHALL BE SUPERVISED AND APPROVED BY FIELD GEOTECHNICAL ENGINEER PRIOR TO FILLING THE TRENCHES.

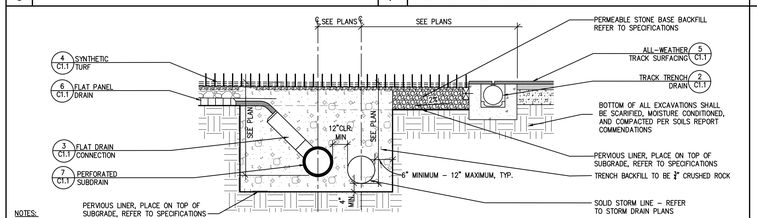
8 TRENCH BACKFILL N.T.S



NOTES:

- ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.
- SURFACE TREATMENT TO RECEIVE SYNTHETIC TURF BACKING GLUED TO TOP OF LID
- CERTAIN LID SIZES AND/OR ADA COMPLIANT LIDS MAY NOT BE AVAILABLE AND MAY NEED TO BE FABRICATED
- ALL GRATES LOCATED WITHIN VEHICULAR TRAFFIC AREAS ARE TO BE TRAFFIC-RATED. ALL GRATES LOCATED WITHIN PEDESTRIAN TRAFFIC AREAS ARE TO BE ADA COMPLIANT AND HEAL PROOF.
- ENSURE PROPER COMPACTION AROUND BASIN/BOX IN SYNTHETIC TURF TO PREVENT SETTLING AROUND EDGE.

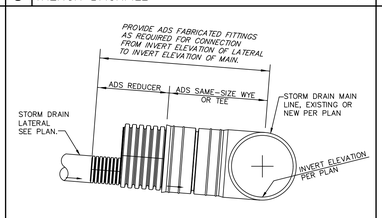
9 CATCH BASIN/JUNCTION BOX N.T.S



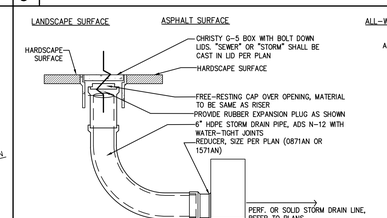
NOTES:

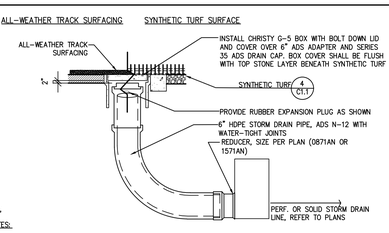
- TRENCH OPTION – CONTRACTOR MAY VERTICALLY TRENCH A MIN. 3' WIDE IN LIEU OF THE TAPERING TRENCH. ALL DEPTHS, PIPE SLOPES AND COVERAGE IS PER PLANS.
- MAINTAIN A 12" MIN SEPARATION WHEN IRRIGATION OR DOMESTIC WATER LINES ARE REQUIRED TO CROSS ANY ELECTRICAL LINES, THESE WATER LINES SHALL BE BURIED BELOW THE ELECTRICAL LINES.

10 TYPICAL FIELD & PIPE SECTION WITH VERTICAL TRENCH N.T.S



11 CONNECTION OF STORM DRAIN PIPES OF DIFFERENT SIZES N.T.S

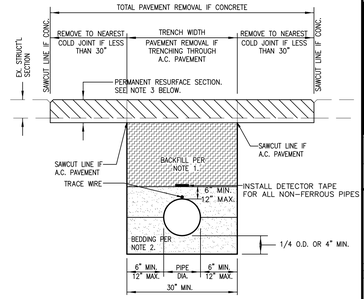




NOTES:

- IN SYNTHETIC TURF, CLEANOUT SHALL HAVE 4" MIN. CONCRETE COLLAR, TURF TO BE ADHERE TO COLLAR AND CLEANOUT LID AND THEN CUT AROUND EDGE OF LID.

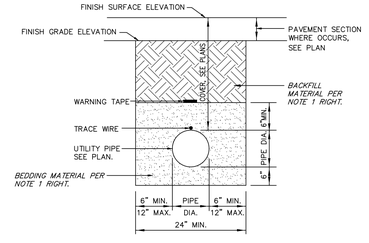
12 SANITRAY/STORM/PERF/FRENCH/ROCK DRAIN CLEANOUT N.T.S



NOTES:

1. *PROVIDE BACK FILL MATERIAL IN UTILITY TRENCH PER GEOTECH REPORT RECOMMENDATIONS.*
2. *PROVIDE BEDDING MATERIALS IN UTILITY TRENCH PER GEOTECH REPORT RECOMMENDATIONS*
3. *PERMANENT RESURFACE NOTE:*
   a. *IF TRENCH IS IN EXISTING AC PAVEMENT, THE RESURFACE SECTION SHALL MATCH THAT OF THE EXISTING STRUCTURAL SECTION.*
   b. *IF TRENCH IS IN EXISTING CONCRETE PAVEMENT, THE RESURFACE SECTION SHALL MATCH THAT OF THE EXISTING STRUCTURAL SECTION.*
4. *ALL TRENCHING AND BACKFILL RELATED WORK SHALL BE SUPERVISED AND APPROVED BY FIELD GEOTECHNICAL ENGINEER PRIOR TO FILLING THE TRENCHES.*

13 SINGLE UTILITY TRENCH DETAIL AT EXISTING PAVEMENT LOCATION N.T.S



NOTES:

1. *PROVIDE THE FOLLOWING BACK FILL MATERIAL IN UTILITY TRENCH:*

   ON-SITE, GRANULAR, LOW-EXPANSIVE FILL SOIL FREE OF VEGETATION, ORGANIC MATERIAL, DEBRIS AND OTHER DELETERIOUS MATERIAL, AND COMPLYING WITH THE FOLLOWING CRITERIA.

   a. *LIMIT MAXIMUM DIMENSION OF ROCK TO 3 INCHES IN ANY DIMENSION AT ALL FILLS, UNLESS OTHERWISE SPECIFIED.*
   b. *LIMIT MAXIMUM DIMENSION OF ROCK TO 1 INCH IN ANY DIMENSION AT ALL FILLS LOCATED IN LANDSCAPED AREAS WITHIN 12 INCHES OF SURFACE.*
   c. *PROVIDE SOIL FILL WITH NO MORE THAN 30 PERCENT PASSING THE #200 SIEVE.*
   d. *PROVIDE SOIL FILL WITH MINIMUM 40 PERCENT BY WEIGHT MATERIAL SMALLER THAN 3/4 INCH.*
   e. *OVERSIZE ROCK: DEFINED AS MATERIAL LARGER THAN 12 INCHES IN MAXIMUM DIMENSION.*

2. *PROVIDE THE FOLLOWING BEDDING MATERIALS IN UTILITY TRENCH:*

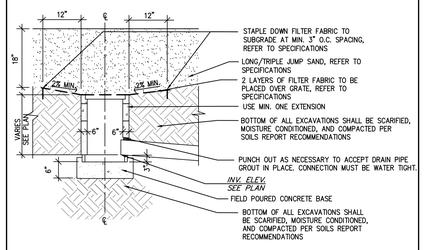
   NATURAL RIVER OR BANK SAND; FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, OR ORGANIC MATTER; MAXIMUM PARTICLE SIZE AND VOLUME OF 12 INCH AND 18 PERCENT RESPECTIVELY, WITH MINIMUM SAND EQUIVALENT VALUE OF 30 PER CALIFORNIA TEST METHOD 217.

3. *PERMANENT RESURFACE NOTE:*

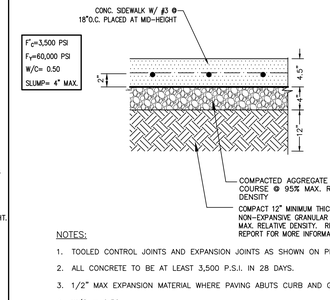
   a. *IF TRENCH IS IN EXISTING AC PAVEMENT, THE RESURFACE SECTION SHALL MATCH THAT OF THE EXISTING STRUCTURAL SECTION.*
   b. *IF TRENCH IS IN EXISTING CONCRETE PAVEMENT, THE RESURFACE SECTION SHALL MATCH THAT OF THE EXISTING STRUCTURAL SECTION.*

4. *INSTALL DETECTOR TAPE FOR ALL NON-FERROUS PIPING.*

14 SINGLE UTILITY TRENCH DETAIL AT NEW PAVEMENT LOCATION N.T.S



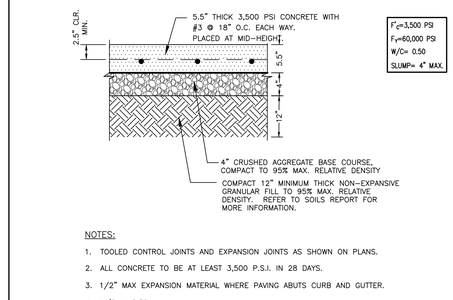
15 SAND PIT CATCH BASIN N.T.S



NOTES:

1. TOOLED CONTROL JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
2. ALL CONCRETE TO BE AT LEAST 3,500 P.S.I. IN 28 DAYS.
3. 1/2" MAX EXPANSION MATERIAL WHERE PAVING ABUTS CURB AND GUTTER.
4. W/C = 0.50

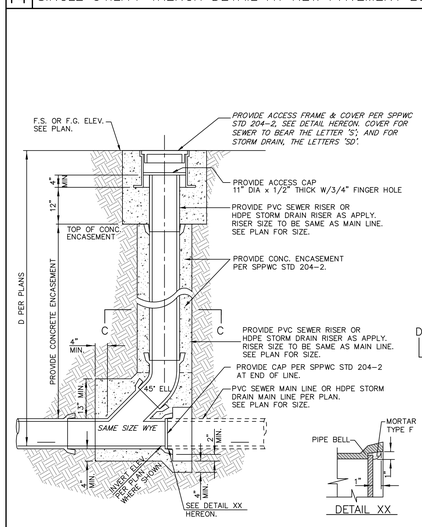
16 PEDESTRIAN CONCRETE PAVEMENT DETAIL N.T.S

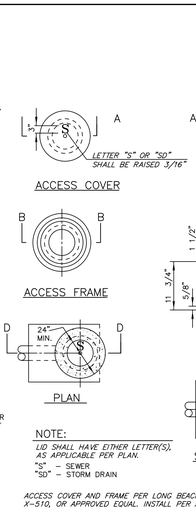


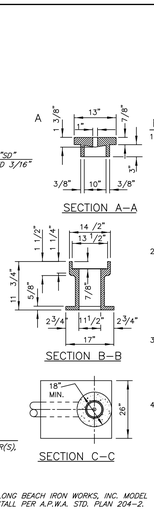
NOTES:

1. TOOLED CONTROL JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
2. ALL CONCRETE TO BE AT LEAST 3,500 P.S.I. IN 28 DAYS.
3. 1/2" MAX EXPANSION MATERIAL WHERE PAVING ABUTS CURB AND GUTTER.
4. W/C = 0.50

17 VEHICULAR CONCRETE PAVEMENT N.T.S







NOTES:

1. *PIPE AND FITTINGS, UNLESS OTHERWISE NOTED, SHALL BE OF THE SAME MATERIALS AS THE SEWER, UNLESS APPROVED ADAPTORS ARE USED, AND MAY BE ANY OF THE FOLLOWING.*

   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID WALL PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE

2. *PIPE FITTINGS SHALL BE BEDDED AND ENCASED IN PCC AS SHOWN. PCC SHALL BE CLASS 450-C-2000(265-C-14). JOIN AND ALIGN PIPE AND FITTINGS BEFORE PLACING CONCRETE. MAINTAIN ALIGNMENT WHILE PLACING AND ALLOWING PCC TO SET.*
3. *THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OR BLOCKED OUT PRIOR TO CASTING. THEY SHALL NOT BE PUNCHED OUT.*
4. *THE CONTRACTOR MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS.*

NOTE:

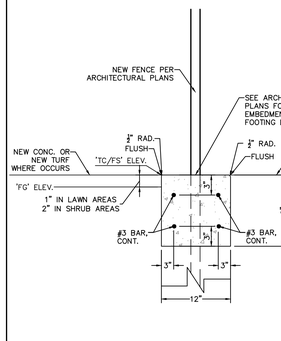
LID SHALL HAVE EITHER LETTER(S), AS APPLICABLE PER PLAN.
"S" – SEWER
"SD" – STORM DRAIN

ACCESS COVER AND FRAME PER LONG BEACH IRON WORKS, INC. MODEL X-510, OR APPROVED EQUAL. INSTALL PER A.P.W.A. STD. PLAN 204-2.

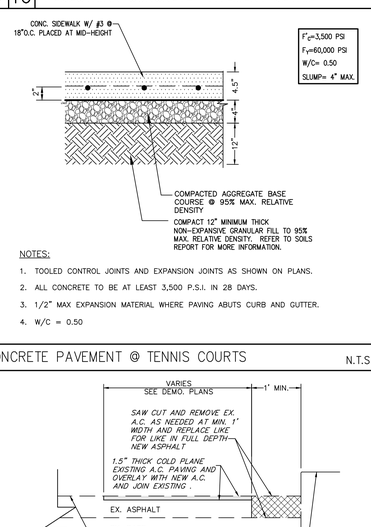
18 CLEANOUT DETAIL N.T.S

NOTE:
1. SEE GRADING PLANS FOR ELEVATIONS.

F'c=3,500 PSI
Fy=60,000 PSI



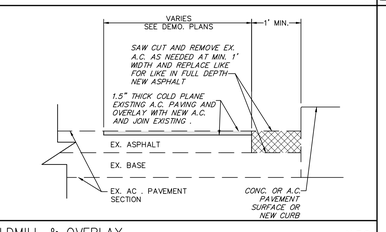
19 12" WIDE MOW CURB W/ FENCE N.T.S



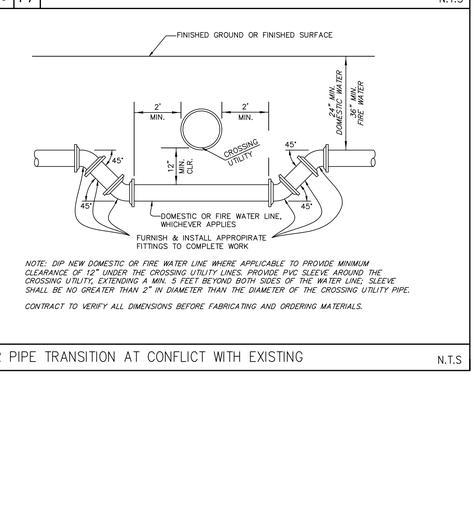
NOTES:

1. TOOLED CONTROL JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
2. ALL CONCRETE TO BE AT LEAST 3,500 P.S.I. IN 28 DAYS.
3. 1/2" MAX EXPANSION MATERIAL WHERE PAVING ABUTS CURB AND GUTTER.
4. W/C = 0.50

20 CONCRETE PAVEMENT @ TENNIS COURTS N.T.S



21 COLDMILL & OVERLAY N.T.S



NOTE: DIP NEW DOMESTIC OR FIRE WATER LINE WHERE APPLICABLE TO PROVIDE MINIMUM CLEARANCE OF 12" UNDER THE CROSSING UTILITY LINES. PROVIDE PVC SLEEVE AROUND THE CROSSING UTILITY, EXTENDING A MIN. 5 FEET BEYOND BOTH SIDES OF THE WATER LINE; SLEEVE SHALL BE NO GREATER THAN 2" IN DIAMETER THAN THE DIAMETER OF THE CROSSING UTILITY PIPE.

CONTRACT TO VERIFY ALL DIMENSIONS BEFORE FABRICATING AND ORDERING MATERIALS.

22 WATER PIPE TRANSITION AT CONFLICT WITH EXISTING N.T.S

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT
CHARLES BYRNE
No. C12935
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

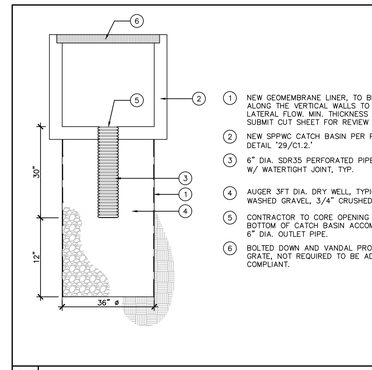
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

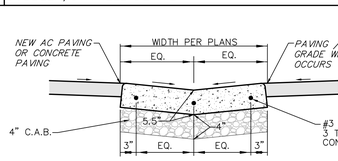
SHEET TITLE
DETAILS

SHEET NUMBER
C1.1



1. NEW GEOMEMBRANE LINER, TO BE PLACED ALONG THE VERTICAL WALLS TO REDUCE LATERAL FLOW. MIN. THICKNESS 30 MILS. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL
2. NEW SPPWC CATCH BASIN PER PLANS AND DETAIL '29/C1.2.'
3. 6" DIA. SDR35 PERFORATED PIPE EXTENSION W/ WATERTIGHT JOINT, TYP.
4. AUGER 3FT DIA. DRY WELL, TYPICAL. FILL W/ WASHED GRAVEL, 3/4" CRUSHED ROCK.
5. CONTRACTOR TO CORE OPENING AT BOTTOM OF CATCH BASIN ACCOMMODATING 6" DIA. OUTLET PIPE.
6. BOLTED DOWN AND VANDAL PROOF STEEL GRATE, NOT REQUIRED TO BE ADA COMPLIANT.

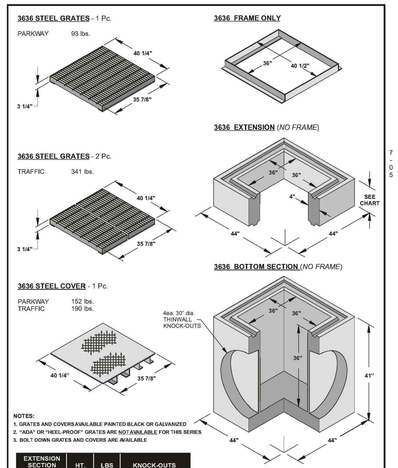
23 BUBBLER/DRYWELL DETAIL



NOTE:
SEE GRADING PLAN FOR ELEVATIONS.

f'_c=3,500 PSI
F_y=60,000 PSI
W/C= 0.50
SLUMP= 4" MAX.

24 P.C.C. V-GUTTER (WIDTH VARIES)



EXTENSION SECTION	HT.	LBS	KNOCK-OUTS
3636 E6	6"	525	NONE
3636 E12	12"	1050	NONE

BOTTOM SECTION	HT.	LBS	KNOCK-OUTS
3636 B36	36"	2,230	(4) 30" DIA.

36" x 36" CATCH BASIN

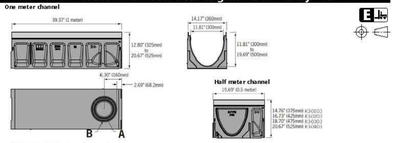
BROOKS PRODUCTS
3636 CB

NOTES:
- ALL GRATES WITHIN HARDSCAPE AREA SHALL BE ADA COMPLIANT AND HEEL PROOF.
- ALL GRATES WITHIN FIELD AREA SHALL BE ADA COMPLIANT.

25 TRENCH DRAIN (KLASSIKDRAIN K300)

ACO DRAIN
KlassikDrain - K300 Galvanized steel edge rail channel system

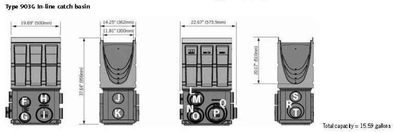
One meter channel



Knock-outs included on every 5th channel

Half meter channel

Type 903G in line catch basin

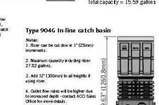


Total capacity = 15.59 gallons

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K300	6" round	11.81"	421	0.94
A	Bottom outlet - K-9040	6" round	19.69"	546	1.21
B	Bottom outlet - K300	6" round	11.81"	748	1.67
B	Bottom outlet - K-9040	6" round	19.69"	966	2.15
C	End outlet - K300	6" round	11.81"	561	1.25
C	End outlet - K-9040	6" round	19.69"	728	1.62
D	End outlet - K318	6" round	11.81"	561	1.25
D	End outlet - K348	6" round	19.69"	863	1.92
E	End outlet - K329	10" round	15.75"	1114	2.48
E	End outlet - K348	10" round	19.69"	1384	2.91
F	Type K3-903G	4" round	29.68"	287	0.64
G	Type K3-903G	4" round	36.29"	319	0.71
H	Type K3-903G	4" round	28.02"	279	0.62
I	Type K3-903G	6" round	36.29"	707	1.57
J	Type K3-903G	4" round	28.37"	286	0.62
K	Type K3-903G	4" round	34.87"	312	0.78
L	Type K3-903G	4" round	29.15"	428	1.48
M	Type K3-903G	4" round	28.59"	281	0.63
N	Type K3-903G	6" round	36.29"	707	1.57
O	Type K3-903G	4" round	35.72"	316	0.78
P	Type K3-903G	6" round	35.72"	731	1.56
Q	Type K3-903G	6" round	36.29"	1237	2.74
R	Type K3-903G	4" round	34.78"	696	1.54
S	Type K3-903G	4" round	27.65"	276	0.61
T	Type K3-903G	4" round	34.36"	318	0.69

Type 904G in line catch basin

End Cap



August 2016

NOTES:
- REFER TO DETAIL '32/C1.3' FOR ADA–COMPLIANT GRATE

www.ACODrain.us

ACO DRAIN
KlassikDrain - K300 Galvanized steel edge rail channel system

Description	Part No.	Invert Inches[2]	Invert mm[2]	Weight Lbs.
K3-00 Neutral channel - 39.37" (1m)*	**78041**	**11.81**	**300**	**132.8**
K51 Sloped channel - 39.37" (1m)	78001	12.01	305	132.6
K52 Sloped channel - 39.37" (1m)	78002	12.20	310	132.8
K53 Sloped channel - 39.37" (1m)	78003	12.40	315	133.0
K54 Sloped channel - 39.37" (1m)	78004	12.60	320	133.2
K55 Sloped channel - 39.37" (1m)	78005	12.80	325	133.4
K56 Sloped channel - 39.37" (1m)	78006	12.99	330	133.6
K57 Sloped channel - 39.37" (1m)	78007	13.19	335	133.8
K58 Sloped channel - 39.37" (1m)	78008	13.39	340	141.0
K59 Sloped channel - 39.37" (1m)	78009	13.58	345	142.2
K510 Sloped channel - 39.37" (1m)	78010	13.78	350	143.4
K3-01 Neutral channel - 39.37" (1m)*	**78043**	**13.78**	**350**	**141.4**
K3-0103 Neutral channel - 19.69" (0.5m)*	**78044**	**13.78**	**350**	**75.3**
K511 Sloped channel - 39.37" (1m)	78011	13.98	355	144.6
K512 Sloped channel - 39.37" (1m)	78012	14.17	360	145.8
K513 Sloped channel - 39.37" (1m)	78013	14.37	365	147.0
K514 Sloped channel - 39.37" (1m)	78014	14.57	370	148.2
K515 Sloped channel - 39.37" (1m)*	78015	14.76	375	149.4
K516 Sloped channel - 39.37" (1m)*	78016	14.96	380	150.6
K517 Sloped channel - 39.37" (1m)*	78017	15.16	385	151.8
K518 Sloped channel - 39.37" (1m)*	78018	15.35	390	153.0
K519 Sloped channel - 39.37" (1m)*	78019	15.55	395	154.2
K520 Sloped channel - 39.37" (1m)*	78020	15.75	400	155.4
K3-020 Neutral channel - 39.37" (1m)*	**78045**	**15.75**	**400**	**155.4**
K3-0203 Neutral channel - 19.69" (0.5m)*	**78046**	**15.75**	**400**	**82.3**
K521 Sloped channel - 39.37" (1m)	78021	15.94	405	156.7
K522 Sloped channel - 39.37" (1m)	78022	16.14	410	157.9
K523 Sloped channel - 39.37" (1m)	78023	16.34	415	159.1
K524 Sloped channel - 39.37" (1m)	78024	16.54	420	160.3
K525 Sloped channel - 39.37" (1m)*	78025	16.73	425	161.5
K526 Sloped channel - 39.37" (1m)*	78026	16.93	430	162.7
K527 Sloped channel - 39.37" (1m)*	78027	17.13	435	163.9

Description	Part No.	Invert Inches[2]	Invert mm[2]	Weight Lbs.
K528 Sloped channel - 39.37" (1m)	78028	17.32	440	165.1
K529 Sloped channel - 39.37" (1m)	78029	17.52	445	166.3
K530 Sloped channel - 39.37" (1m)*	78030	17.72	450	167.5
K3-030 Neutral channel - 39.37" (1m)*	**78047**	**17.72**	**450**	**167.5**
K3-0303 Neutral channel - 19.69" (0.5m)*	**78048**	**17.72**	**450**	**89.5**
K531 Sloped channel - 39.37" (1m)	78031	17.91	455	168.7
K532 Sloped channel - 39.37" (1m)	78032	18.11	460	169.9
K533 Sloped channel - 39.37" (1m)	78033	18.31	465	171.1
K534 Sloped channel - 39.37" (1m)	78034	18.50	470	172.3
K535 Sloped channel - 39.37" (1m)*	78035	18.70	475	173.5
K536 Sloped channel - 39.37" (1m)*	78036	18.90	480	174.7
K537 Sloped channel - 39.37" (1m)*	78037	19.09	485	175.9
K538 Sloped channel - 39.37" (1m)*	78038	19.29	490	177.1
K539 Sloped channel - 39.37" (1m)*	78039	19.49	495	178.3
K540 Sloped channel - 39.37" (1m)*	78040	19.69	500	179.5
K3-040 Neutral channel - 39.37" (1m)*	**78049**	**19.69**	**500**	**179.5**
K3-0403 Neutral channel - 19.69" (0.5m)*	**78050**	**19.69**	**500**	**97.7**
K3-0032 Inline catch basin - 19.69" (0.5m)*	84842	17.40	950	88.0
K3-0042 Inline catch basin - 19.69" (0.5m)*	84835	17.40	950	98.0
K3-Sieve 600 (5)Grate plastic riser	89902	-	-	10.0
Foot w/ trap - fits both 900 & 600 series basins	90854	-	-	3.2
Universal end cap	84828	15.71	399	2.5
K3-Installation device	87479	-	-	4.9
Grate removal tool	01318	-	-	0.3
K3-QuickLok locking bar	10450	-	-	0.7

Notes:
1. This channel offers a bottom knockout feature; 4" & 6" round
2. Inverts shown are for the inlet end; for female invert depths subtract 5mm (-0.2") from the male invert (except for neutral channels, where it will be same as male invert).
To calculate the overall channel depth add 25mm (+1.0") to invert depth.
3. The catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
4. The catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.

Specifications

General
The surface drainage system shall be ACO Drain K300 complete with gratings secured with 'QuickLok' locking as manufactured by ACO, Inc. or approved equal.

Materials
The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

Compressive strength:	14,000 psi
Flexural strength:	4,000 psi
Water absorption	0.07%
Frost proof	YES
Salt proof	YES
Dilute acid and alkali resistant	YES

The nominal channel sizing shall be 5" (200mm) width with overall width of 11.24" (260mm). Precast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a partial radius in the trench bottom and a male to female interlocking system. The 'Slope-in-One' horizontal cast in anchoring keys in the outside wall to ensure maximum mechanical bond to the surrounding backing material and pavement surface. The galvanized steel edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (4mm) thick.

Grates
Grates shall be specified. See separate ACO Spec info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

Installation
The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

ACO, Inc.
Northeast Sales Office
9470 Pinecrest Drive
Mentor, OH 44060
Tel: (440) 639-7230
Toll free: (800) 543-4764
Fax: (440) 639-7235

West Sales Office
825 W. Bierchcroft St.
Casa Grande, AZ 85122
Tel: (520) 421-9988
Toll Free: (888) 490-9552
Fax: (520) 421-9899

Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Toll free: (800) 543-4764
Fax: (803) 802-1063

Electronic Contact:
info@ACODrain.us
www.ACODrain.us

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April 2018

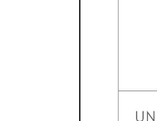
www.ACODrain.us

ACO DRAIN
KlassikDrain - K200 Galvanized steel edge rail channel system

One meter channel

Knock-outs included on every 5th channel

Half meter channel



Type 902G in-line catch basin

Total capacity = 19 gallons

Outlet	Product	Outlet size	Invert Depth	GPM	CFS
A	Bottom outlet - K200	4" round	7.87"	153	0.34
A	Bottom outlet - K2-040	4" round	15.75"	216	0.48
B	Bottom outlet - K200	4" round	7.87"	344	0.77
B	Bottom outlet - K2-040	6" round	15.75"	486	1.08
C	End outlet - K200	4" round	7.87"	132	0.29
C	End outlet - K2-40	4" round	15.75"	202	0.45
D	End outlet - K2-10	4" round	9.84"	320	0.71
D	End outlet - K2-40	6" round	15.75"	437	0.97
E	Type K2-902G	4" round	25.13"	263	0.59
F	Type K2-902G	4" round	31.83"	297	0.66
G	Type K2-902G	4" round	23.76"	254	0.57
H	Type K2-902G	6" round	31.83"	658	1.47
I	Type K2-902G	4" round	23.91"	255	0.57
J	Type K2-902G	4" round	30.40"	290	0.65
K	Type K2-902G	4" round	24.68"	570	1.27
L	Type K2-902G	4" round	24.13"	256	0.57
M	Type K2-902G	6" round	31.83"	658	1.47
N	Type K2-902G	4" round	31.26"	294	0.66
O	Type K2-902G	4" round	31.26"	651	1.45
P	Type K2-902G	6" round	31.82"	1149	2.56
Q	Type K2-902G	6" round	31.32"	640	1.43
R	Type K2-902G	4" round	23.19"	251	0.56
S	Type K2-902G	4" round	29.90"	288	0.64

April 2018

NOTES:
- REFER TO DETAIL '31/C1.2' FOR ADA–COMPLIANT GRATE

www.ACODrain.us

ACO DRAIN
KlassikDrain - K200 Galvanized steel edge rail channel system

Description	Part No.	Invert Inches[2]	Invert mm[2]	Wgt Lbs.
K2-00 Neutral channel - 39.37" (1m)*	**75041**	**7.87**	**200**	**83.6**
K21 Sloped channel - 39.37" (1m)	75001	8.07	205	83.6
K22 Sloped channel - 39.37" (1m)	75002	8.27	210	84.7
K23 Sloped channel - 39.37" (1m)	75003	8.46	215	85.8
K24 Sloped channel - 39.37" (1m)	75004	8.66	220	86.9
K25 Sloped channel - 39.37" (1m)*	75005	8.86	225	88.0
K26 Sloped channel - 39.37" (1m)	75006	9.06	230	89.1
K27 Sloped channel - 39.37" (1m)*	75007	9.25	235	90.2
K28 Sloped channel - 39.37" (1m)	75008	9.45	240	91.3
K29 Sloped channel - 39.37" (1m)*	75009	9.65	245	92.4
K210 Sloped channel - 39.37" (1m)*	75010	9.84	250	93.5
K2-010 Neutral channel - 39.37" (1m)*	**75043**	**9.84**	**250**	**93.5**
K2-0103 Neutral channel - 19.69" (0.5m)*	**75044**	**9.84**	**250**	**56.0**
K211 Sloped channel - 39.37" (1m)	75011	10.04	255	94.6
K212 Sloped channel - 39.37" (1m)	75012	10.24	260	95.7
K213 Sloped channel - 39.37" (1m)	75013	10.43	265	96.8
K214 Sloped channel - 39.37" (1m)	75014	10.63	270	97.9
K215 Sloped channel - 39.37" (1m)*	75015	10.83	275	99.0
K216 Sloped channel - 39.37" (1m)	75016	11.02	280	100.1
K217 Sloped channel - 39.37" (1m)*	75017	11.22	285	101.2
K218 Sloped channel - 39.37" (1m)*	75018	11.41	290	102.3
K219 Sloped channel - 39.37" (1m)	75019	11.61	295	103.4
K220 Sloped channel - 39.37" (1m)*	75020	11.81	300	104.5
K2-020 Neutral channel - 39.37" (1m)*	**75045**	**11.81**	**300**	**104.5**
K2-0203 Neutral channel - 19.69" (0.5m)*	**75045**	**11.81**	**300**	**64.0**
K221 Sloped channel - 39.37" (1m)	75021	12.01	305	105.6
K222 Sloped channel - 39.37" (1m)	75022	12.20	310	106.7
K223 Sloped channel - 39.37" (1m)	75023	12.40	315	107.8
K224 Sloped channel - 39.37" (1m)	75024	12.60	320	108.9
K225 Sloped channel - 39.37" (1m)*	75025	12.80	325	110.0
K226 Sloped channel - 39.37" (1m)*	75026	12.99	330	111.1
K227 Sloped channel - 39.37" (1m)*	75027	13.19	335	112.2

Description	Part No.	Invert Inches[2]	Invert mm[2]	Wgt Lbs.
K228 Sloped channel - 39.37" (1m)	75028	13.39	340	113.3
K229 Sloped channel - 39.37" (1m)	75029	13.58	345	114.4
K230 Sloped channel - 39.37" (1m)*	75030	13.78	350	115.5
K2-030 Neutral channel - 39.37" (1m)*	**75047**	**13.78**	**350**	**115.5**
K2-0303 Neutral channel - 19.69" (0.5m)*	**75047**	**13.78**	**350**	**68.0**
K231 Sloped channel - 39.37" (1m)	75031	13.98	355	116.6
K232 Sloped channel - 39.37" (1m)	75032	14.17	360	117.7
K233 Sloped channel - 39.37" (1m)	75033	14.37	365	118.8
K234 Sloped channel - 39.37" (1m)	75034	14.57	370	119.9
K235 Sloped channel - 39.37" (1m)*	75035	14.76	375	121.0
K236 Sloped channel - 39.37" (1m)	75036	14.96	380	122.1
K237 Sloped channel - 39.37" (1m)	75037	15.16	385	123.2
K238 Sloped channel - 39.37" (1m)*	75038	15.35	390	124.3
K239 Sloped channel - 39.37" (1m)	75039	15.55	395	125.4
K240 Sloped channel - 39.37" (1m)*	75040	15.75	400	126.5
K2-040 Neutral channel - 39.37" (1m)*	**75049**	**15.75**	**400**	**126.5**
K2-0403 Neutral channel - 19.69" (0.5m)*	**75050**	**15.75**	**400**	**77.0**
K2-90 Grate catch basin - 19.69" (0.5m)*	94611	32.81	833.3	68.0
K2-GTG catch basin - 19.69" (0.5m)*	94620	37.33	948.1	91.0
K2-SLG catch basin - 19.69" (0.5m)*	94633	49.33	1252.9	101.0
K2-Sieve 600 Optional plastic riser	99902	-	-	10.0
Foot w/ trap - fits both 900 & 600 series basins	90854	-	-	1.2
Universal end cap	94821	15.71	399	1.4
Debris strainer for 8" bottom knockout	93488	-	-	0.2
K2-Installation device	97478	-	-	2.8
Grate removal tool	01318	-	-	0.3
K2-QuickLok locking bar	10457	-	-	0.5

Notes:
1. This channel offers a bottom knockout feature; 4" & 6" round
2. Inverts shown are for the inlet end; for female invert depth subtract 5mm (-0.2") from the male invert (except for neutral channels, where it will be same as male invert).
To calculate the overall channel depth add 25mm (+1.0") to invert depth.
3. The catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
4. The catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.

Specifications

General
The surface drainage system shall be ACO Drain K200 complete with gratings secured with 'QuickLok' locking as manufactured by ACO, Inc. or approved equal.

Materials
The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

Compressive strength:	14,000 psi
Flexural strength:	4,000 psi
Water absorption	0.07%
Frost proof	YES
Salt proof	YES
Dilute acid and alkali resistant	YES

The nominal channel sizing shall be 3" (200mm) width with overall width of 10.24" (260mm). Precast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a partial radius in the trench bottom and a male to female interlocking system. The 'Slope-in-One' horizontal cast in anchoring keys in the outside wall to ensure maximum mechanical bond to the surrounding backing material and pavement surface. The galvanized steel edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (2.5mm) thick.

Grates
Grates shall be specified. See separate ACO Spec info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

Installation
The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

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April 2018

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26 BROOKS PRODUCTS, 36" X 36" CATCH BASIN N.T.S

27 TRENCH DRAIN (KLASSICDRAIN K200) N.T.S

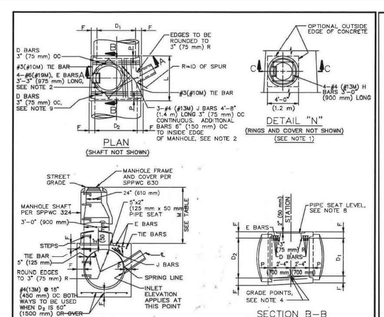
F
D1
F
EDGES TO BE ROUNDED TO 3" (75 mm) R
D BARS 3" (75 mm) OC
#3(ø10mm) TIE BARS
6-#5(ø16mm) E BARS
3"-5" (975 mm) LONG, SEE NOTE 2
D BARS 3" (75 mm) OC, SEE NOTE 9
#3(ø10mm) TIE BAR
2-#4 (ø13mm) J BARS #3-ø8" (200 mm) OC CONTINUOUS AND RADIAL
F BARS @ 150 mm) OC OF MANHOLE, SEE NOTE 2
PLAN
(SHAFT NOT SHOWN)
OPTIONAL OUTSIDE EDGE OF CONCRETE
C
C
4'-0" (1.2 m)
#4 (ø13M) H BARS (900 mm) LONG
DETAIL "A"
(RINGS AND COVER NOT SHOWN)
(SEE NOTE 1)
STREET GRADE
MANHOLE FRAME PER SPPWC 630
MANHOLE SHAFT PER SPPWC 324
5"x2" (125 mm x 50 mm) PIPE SEAT
3"-0" (900 mm)
E BARS
TIE BARS
STEPS
TIE BAR 5" (125 mm) R
ROUND EDGES TO 3" (75 mm) R
#4(ø13M) @ 12" (300 mm) OC BOTH WAYS TO 6" LIKED WHEN D1 IS 60" (1500 mm) OR-OVER
J BARS
SPRING LINE
INLET ELEVATION APPLIES AT THIS POINT
SECTION A–A
PIPE SEAT LEVEL, SEE NOTE 8
E BARS
J BARS
GRADE POINTS, SEE NOTE 4
SECTION B–B
CONCRETE RINGS PER SPPWC 324
OMIT THIS STEP IN PAVED STREETS
H BARS
6" (150 mm)
16" (400 mm) TOP COVER IN PAVED STREETS
12" (300 mm) FOR UNPAVED STREETS
STREET GRADE
5"x4" (125 mm x 25 mm) RING SEAT
SEE TABLE
VARIABLE
E BARS
J BARS
TIE BARS
SECTION C–C

TABLE OF VALUES FOR F	
D_2	F
36" (900 mm)	6 1/2" (165 mm)
39" (975 mm)	7" (180 mm)
42" (1050 mm)	7 1/2" (190 mm)
45" (125 mm)	7 3/4" (195 mm)
48" (1200 mm)	8" (205 mm)
51" (1275 mm)	8 1/2" (215 mm)
54" (1350 mm)	9" (230 mm)
57" (1425 mm)	9 1/2" (235 mm)
60" (1500 mm)	9 1/2" (240 mm)
63" (1575 mm)	10" (255 mm)
66" (1650 mm)	10 1/2" (260 mm)
69" (1725 mm)	10 3/4" (275 mm)
72" (1800 mm)	11" (280 mm)
78" (1950 mm)	11 3/4" (300 mm)
84" (2100 mm)	12 1/2" (320 mm)
90" (2250 mm)	13 1/4" (335 mm)
96" (2400 mm)	14" (355 mm)
102" (2550 mm)	15 1/2" (395 mm)
108" (2700 mm)	16" (405 mm)
114" (2850 mm)	16 1/2" (420 mm)
120" (3000 mm)	17" (430 mm)
126" (3150 mm)	17" (430 mm)
132" (3300 mm)	17 1/2" (445 mm)
138" (3450 mm)	17 1/2" (445 mm)
144" (3600 mm)	18" (455 mm)

TABLE OF VALUES FOR M (SEE NOTE 1)				
SECTION	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A–A		2'-10 1/2" (867 mm)		3'-6" (1060 mm)
C–C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		STANDARD PLAN
PREPARED BY THE PUBLIC WORKS STANDARDS, INCORPORATED, COMMITTEE OF 1997 REV. 1998, 2004	MANHOLE, PIPE–TO–PIPE MAIN LINE ID=36" (900 mm) OR LARGER	320–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 4

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C–C AND DETAIL "A". SHAFT FOR ANY DEPTH OF MANHOLE CONSTRUCTED PER SECTION C–C. WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
2. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
3. L AND P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWINGS:
   A. D_2=96" (2400 mm) OR LESS, L=5'-6" (1.7 m), P=5" (130 mm)
   B. D_2 OVER 96" (2400 mm), L=6'-0" (1.8 m), P=8" (210 mm)
   L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS. WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 6" (150 mm) OC.
4. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES.
5. REINFORCEMENT SHALL CONFORM TO ASTM A 615M, GRADE 300 (ASTM A 615, GRADE 40). ALL EXPOSED CORNERS OF CONCRETE CONSTRUCTED SURFACES UNLESS OTHERWISE SHOWN.
6. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
7. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
8. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT FOR THE SHAFT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES FOR F SHOWN ON SHEET 2.
9. D BARS SHALL BE #4 (ø13M) FOR D ≤ 39" (975 mm) OR LESS, #5 (ø16M) FOR D_2 = 42" (1050 mm) TO 84" (2100 mm) INCLUSIVE AND #6 (ø19M) FOR D_2 = 90" (2250 mm) OR OVER.
10. CENTERLINE OF INLET PIPE SHALL INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
11. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP S

ACO DRAIN

Type 876D Longitudinal ductile iron grate (ADA)

Product Features

- Certified to EN 1433 Load Class C • 56,000 lbs • 968 psi
- Uses 'DrainLok' boltless locking system
- Suitable for use with K300, KS300, H300K13, and H300KS13 channels and 621G, 621S, 631G, 631S catch basins
- Manufactured from ductile iron to ASTM A 536-84 • Grade 65-45-12
- E-coated for improved resistance against rust
- Complies with ADA • American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A112.6.3.-2001- Section 7.1.2
  Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS 3996 - 2006

Specifications

General
The surface drainage system shall be ACO Drain K300, KS300, H300K 13, and H300KS13, channels* and 621G, 621S, 631G, and 631S catch basins complete with ACO Type 876D longitudinal ductile iron grate with DrainLok® locking as manufactured by ACO Polymer Products, Inc. or similar approved.

Materials
The covers shall be manufactured from ductile iron and have **minimum** properties as follows:

- ***Independently certified to meet Load Class C to EN 1433 - 56,000 lbs - 1,162 psi***
- ***Ductile iron to ASTM A 536-84 - Grade 65-45-12***
- ***Intake area of 64.3 sq. in. (414.83 cm²) per half meter of grate***

The overall width of 13.31" (338mm) and overall length of 19.69" (500mm). Slots measure at 0.24" by 1.97".

Installation
The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.
* delete as appropriate

November 2016

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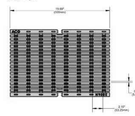
ACO Specification Information

ACO DRAIN

Type 876D Longitudinal ductile iron grate (ADA)

Plan view



Side elevation

Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
DrainLok grate Type 876D Ductile iron longitudinal grate	**99588**	19.69 (500)	13.31 (338)	35.0

'DrainLok' locking mechanism

ACO DrainLok™ is a patented, boltless locking system that removes the need for bolts and bars and improves the hydraulic capacity of the channel. The DrainLok™ mechanism simply clips into the channel edge rail for rapid installation. ACO DrainLok™ grates are fitted with an anti-rivet mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.

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SPEC INFO ACO

32 K300 TRENCH DRAIN ADA-COMPLIANT GRATE N.T.S

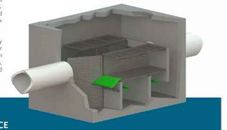
OVERVIEW

The Bio Clean Debris Separating Baffle Box (DSBB) is an advanced stormwater treatment system utilizing non-clogging screening and hydrodynamic separation to capture pollutants.

The non-clogging screening system stores trash and debris in a dry state, suspended above the sedimentation chambers, minimizing nutrient leaching, bacterial growth, bad odors, and allows for easier cleaning.

The DSBB's triple-chambered design provides higher removals of total suspended solids over a wide range of particle sizes, including the finest particles. Fine sediments carry large amounts of heavy metals, nutrients, and other harmful pollutants. The deflector shields ensure no scouring of captured sediments during high flow. This feature allows the system to be installed in-line, thus eliminating the need for diversion structures. The oil skimmer and hydrocarbon booms trap oil.

The DSBB is a widely accepted stormwater treatment solution among civil engineers, municipalities, and developers nationwide.



PERFORMANCE

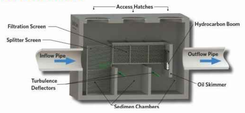
100% REMOVAL OF TRASH AND DEBRIS

- MEETS FULL CAPTURE REQUIREMENTS

ADVANTAGES

- DUAL-STAGE TREATMENT (SCREENING AND SEPARATION)
- SEPARATES TRASH AND DEBRIS FROM SEDIMENT AND WATER
- ENHANCED 3-CHAMBERED SEPARATION
- EASILY INSTALLED IN-LINE (LOW HEAD LOSS)

OPERATION



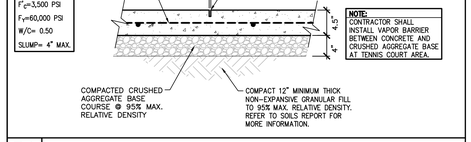
- **Splitter Screen** – Directs flows to the filtration screens and provides additional screen flow capacity. Non-clogging for continuous maintenance-free treatment.
- **Filtration Screen** – Collects and stores trash, debris, organics, and oxygen-demanding substances above standing water in a dry state.
- **Turbulence Deflectors** – Prevent resuspension of captured pollutants.
- **Sediment Chambers** – Maximizes TSS removal and eliminates scouring during extreme flow rates.
- **Skimmer and Boom** – Collects hydrocarbons and controls flow velocity which improves removal efficiency.

SPECIFICATIONS

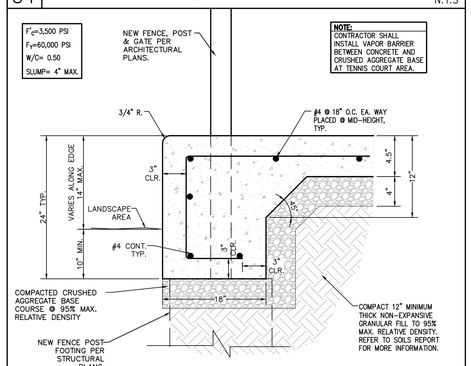
MODEL #	SURFACE LOADING AREA (sq.ft.)	STORAGE CAPACITY (cu. ft.)
DSBB-4-6	26	48
DSBB-4-8	32	70
DSBB-5-10	50	104
DSBB-6-12	72	149
DSBB-8-12	96	209
DSBB-8-14	112	244
DSBB-10-14	140	307
DSBB-11-16	176	410
DSBB-11-24	264	832
DSBB-11-34	374	1190

Filtration screens half sediment chambers 50% full.

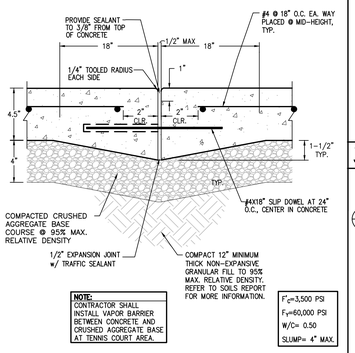
33 BIO-CLEAN DEBRIS SEPARATING BAFFLE BOX N.T.S



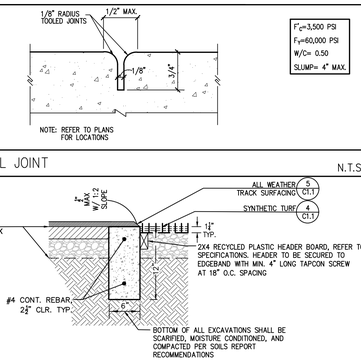
34 SAWCUT JOINT AT TENNIS COURT N.T.S



35 EDGE OF TENNIS COURT CONCRETE PAVEMENT AT PLANTER N.T.S

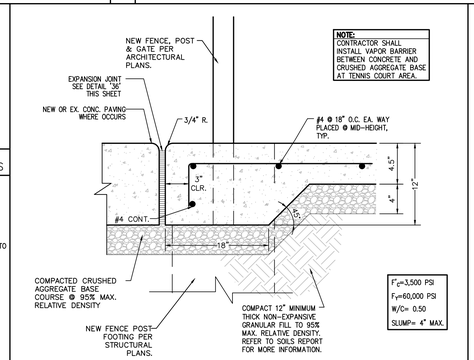


36 EXPANSION JOINT N.T.S

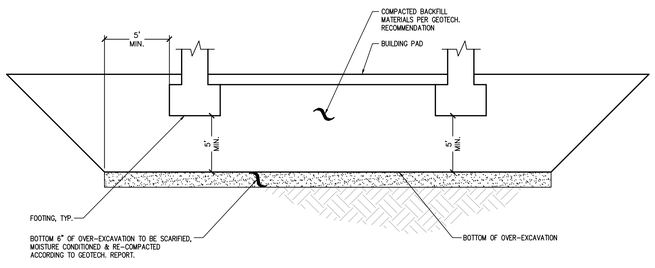


37 CONTROL JOINT N.T.S

38 6" CONCRETE CURB AT 'D-ZONE' & TURF EDGE N.T.S



39 EDGE OF TENNIS COURT CONCRETE PAVEMENT AT CONC. N.T.S



40 GATEWAY OVER-EXCAVATION SECTION N.T.S

To create the geogrid reinforced aggregate mat, native soils beneath the proposed buildings should be excavated a minimum of 5 feet below existing grade. The limits of overexcavation should be also extended laterally to a distance of at least 5 feet beyond the outside edges of the foundation systems. Where adjacent structures are within 10 feet, the overexcavation width could be reduced to 3 feet outside the building perimeter in that direction only. The bases of the overexcavations should be at relatively level elevations.

The bottoms of the remedial excavations should be scarified to depths of 6 inches, uniformly moisture conditioned to above optimum moisture content; and compacted to achieve a relative compaction of at least 90 percent of the ASTM D 1557 maximum dry density. Following compaction of each bottom, a layer of geogrid should be placed on the prepared subgrade that extends across the entire area of overexcavation and up the sidewalls of the remedial excavation. The reinforcing geogrids should consist of Tensar Tri-Axial TX190, or equivalent as approved by the Geotechnical Engineer. The bottom layers or sheets of geogrid should be overlapped at least 3 feet. A 1-foot layer of 1-inch minus aggregate base material should be placed and compacted over the bottom layer of geogrid. The aggregate base material should be uniformly moisture conditioned to at or above optimum moisture content and compacted to achieve a relative compaction of at least 95 percent of the ASTM D 1557 maximum dry density. A second layer of geogrid should be placed over the compacted aggregate base material. The second layer of geogrid should be overlapped 1-foot and extend across the entire excavation; however, it does not need to extend up the sidewalls. An additional foot of aggregate base material should be placed and compacted on top of the second geogrid layer. Once the second lift of aggregate base material has been compacted to achieve a minimum relative compaction of 95% of the ASTM D 1557 maximum dry density, the bottom layer of geogrid extending up the sidewall of the remedial excavation should be folded back onto the compacted surface to create an 8-foot overlap onto the compacted base material. The remedial excavation may then be brought up to finished grade using the excavated soil compacted to at least 95 percent of the ASTM D 1557 maximum dry density. The geogrid should be installed in accordance with the manufacturer's recommendations.

EARTH SYSTEMS

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

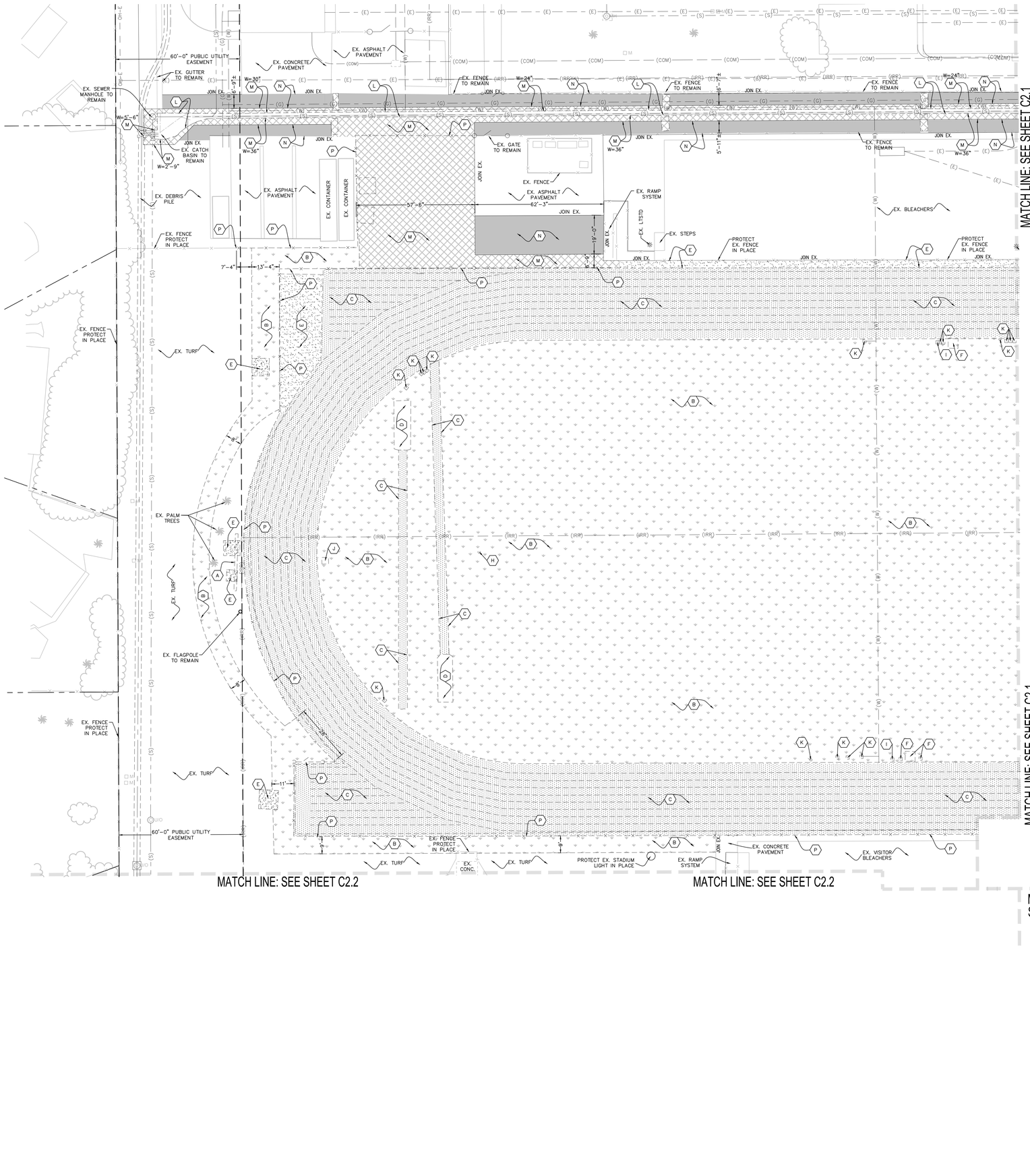
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
ADDITIONAL DETAILS

SHEET NUMBER
C1.3



DEMOLITION KEYNOTES:

A	REMOVE EXISTING SCOREBOARD - INLUDES (2) WIDE FLANGE POSTS AND CONCRETE PADS. STUB EXISTING ELECTRICAL IN PLACE FOR RECONNECTION TO NEW SCOREBOARD. SEE ARCHITECTURAL AND ELECTRICAL PLANS.	N	COLDMILL EXISTING AC PAVEMENT (1.5" THICK).
B	REMOVE EXISTING LANDSCAPE IN THIS AREA (TURF OR SHRUBS WHERE OCCURS). EXISTING IRRIGATION TO BE REMOVED WITHIN THESE LIMITS INCLUDING EXISTING SPRAY HEADS, VALVE BOXES, AND LATERALS. CUT AND CAP EXISTING LINES AT BOUNDARY EDGES. EXISTING MAINLINE TO BE PROTECTED-IN-PLACE. SEE IRRIGATION PLANS FOR CONTINUATION.	O	EXISTING PORTABLE CLASSROOM BUILDING TO BE RELOCATED ON CAMPUS PER DIRECTION OF DISTRICT REP.
C	REMOVE EXISTING ALL-WEATHER TRACK SURFACING, A.C. PAVEMENT AND BASE FOR THE PROPOSED TRACK IMPROVEMENTS.	P	REMOVE EXISTING CHAINLINK FENCE/GATE WHERE OCCURS. INCLUDES POSTS AND FOOTINGS, TYP.
D	REMOVE EXISTING JUMP EVENT INCLUDING ALL WEATHER TRACK MATERIAL AND SAND PITS.	Q	REMOVE EXISTING ACCESSIBLE RAMPING AND HANDRAILING FOR EACH PORTABLE BUILDING. VERIFY LIMITS IN THE FIELD.
E	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, BASE & SUBGRADE AS NEEDED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.	R	REMOVE EXISTING INFIELD MIX, INCLUDING EXISTING PITCHING MOUNDS, BASES, AND DIRT AS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.
F	EXISTING ELECTRICAL PULLBOX, VAULT, PANEL, CONDUIT, CONNECTION, LIGHT POLE, ELECTROLIER OR WIRING IN CONFLICT WITH PROPOSED WORK TO BE REMOVED/RELOCATED TO ACCOMODATE THE NEW IMPROVEMENTS. SEE ELECTRICAL PLANS FOR EXACT SCOPE OF WORK.	S	EXISTING LIGHT TO BE REMOVED, INCLUDING POST AND ASSOCIATED FOOTING.
G	REMOVE EXISTING STORM DRAIN LINE.	T	EXISTING STORAGE SHED TO BE RELOCATED. SEE CONSTRUCTION KEYNOTE #22 ON SHEET C3.3.
H	REMOVE EXISTING POST AND FOOTING.	U	EXISTING BACKSTOP FENCING/GATES TO BE REMOVED.
I	REMOVE EXISTING SEWER UTILITY BOX.	V	EXISTING DUGOUT TO BE REMOVED/DISPOSED OFFSITE.
J	REMOVE EXISTING ELECTRICAL PEDESTAL AND ALL ASSOCIATED CONDUITS.	X	EXISTING BLEACHERS TO BE SALVAGED. RELOCATE OFF-SITE AND RE-POSITION ON NEW CONCRETE PAD PER CONSTRUCTION PLANS.
K	REMOVE EXISTING IRRIGATION VALVE, CONTROL BOX, AND PIPE AS OCCURS.	Y	REMOVE AND DISPOSE EXISTING TENNIS AND VOLLEYBALL COURT FENCING INCLUDING FOOTINGS AND ASSOCIATED CONCRETE BANDS.
L	REMOVE EXISTING CONCRETE V-GUTTER.	Z	REMOVE AND DISPOSE EXISTING VOLLEYBALL NETTING, POSTS AND ASSOCIATED FOOTING.
M	SAWCUT AND REMOVE EXISTING A.C. PAVEMENT SECTION (ASPHALT, BASE & SUBGRADE) AS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.	AA	REMOVE AND DISPOSE EXISTING TENNIS COURT NETTING, POSTS AND ASSOCIATED FOOTING.

NOTES:

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3. CONTRACTOR SHALL ENSURE EXISTING IRRIGATION THAT FEEDS LANDSCAPE AREAS ADJACENT TO THE PROJECT WORK AREA REMAINS FULL OPERATIONAL THROUGHOUT DURATION OF THE PROJECT. WHEN REQUIRED TO INTERRUPT EXISTING IRRIGATION OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER TO MAINTAIN ALL EXISTING LANDSCAPE AREAS IN HEALTHY CONDITION UNTIL IRRIGATION SYSTEM IS RESTORED.

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH-E
EX. FIRE ALARM FA

NORTH

SCALE=1"=20'

0 10 20 40 60

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
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1300 Dove Street, Suite 100
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

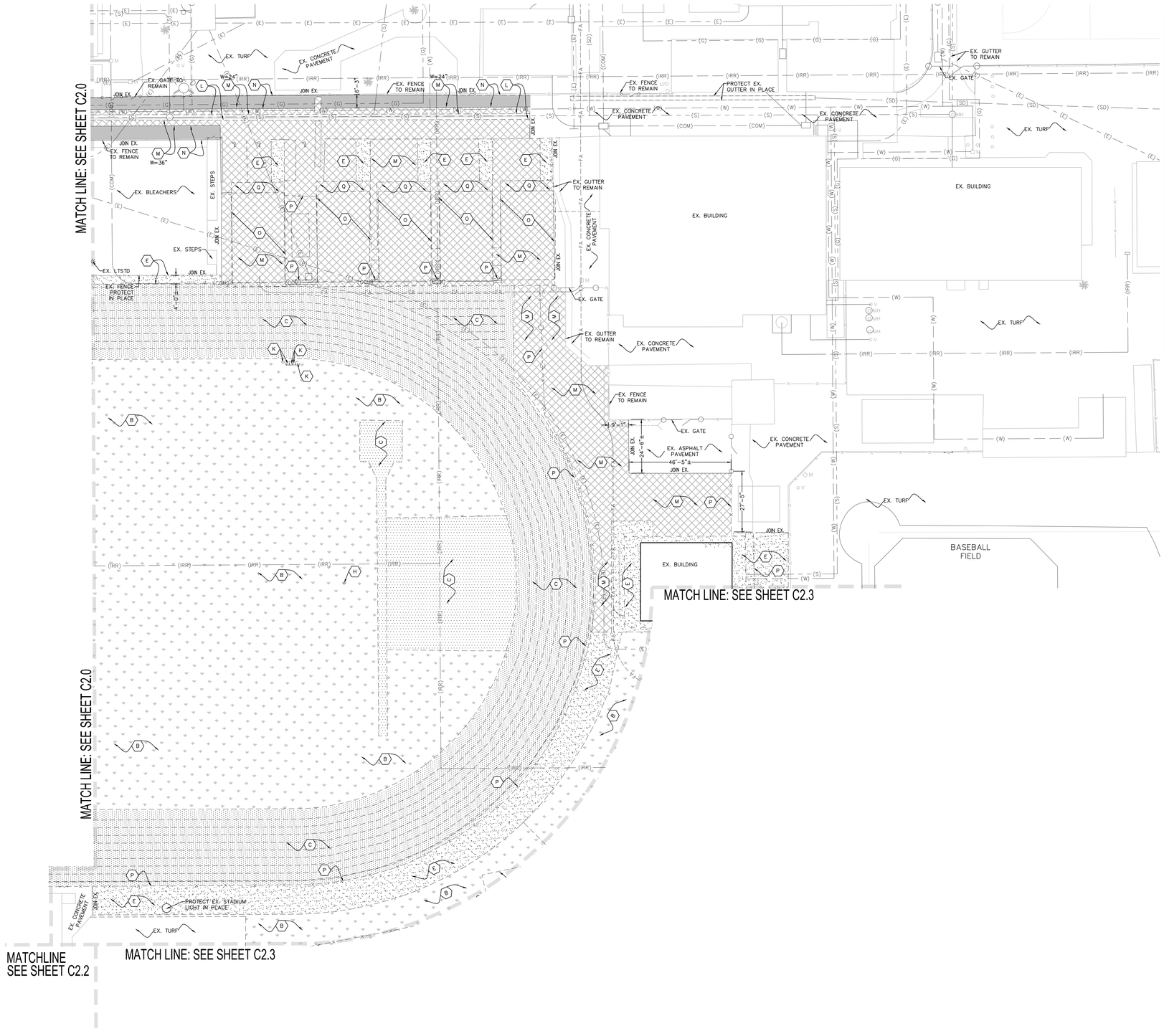
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C2.0



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- EX. GAS — (G)
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- EX. OVERHEAD ELECTRICAL — OH-E
- EX. FIRE ALARM — FA

NORTH

SCALE=1"=20'

0 10 20 40 60

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL

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DSA SUBMITTAL SET

ISSUE DATE

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REVISIONS

NO.	REASON	DATE

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PRINCIPAL IN CHARGE
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PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

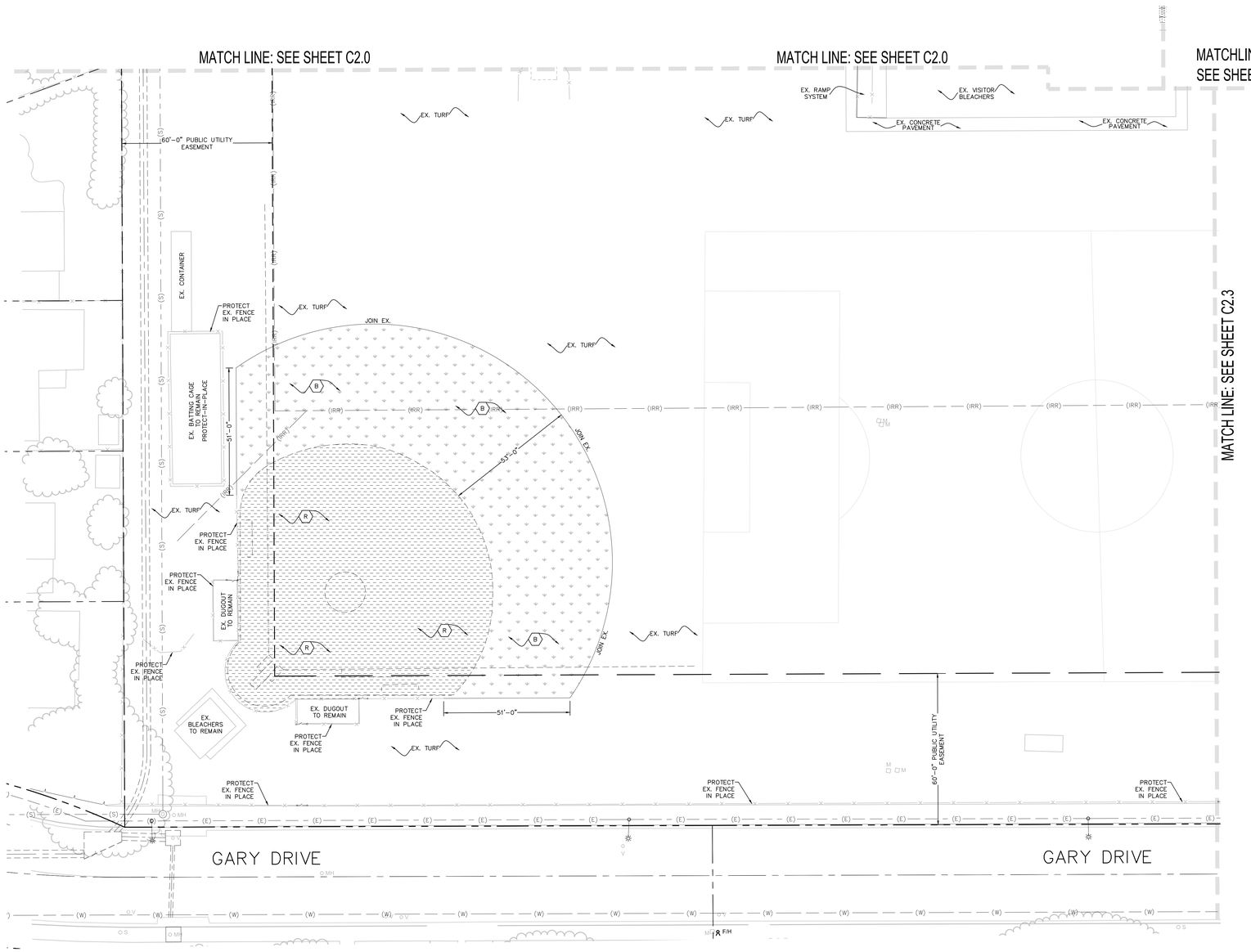
6121235305

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C2.1



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EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA

NORTH

SCALE=1"=20'

0 10 20 40 60

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APP. 03-120287 INC:
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
STATE OF CALIFORNIA · REGISTERED PROFESSIONAL ENGINEER · BARBARA BET GOMARIAN · C 81751 EXP. 3-31-21 · CIVIL

SEAL
LICENSED ARCHITECT · JAMES R. WYTE · LIC. C12955 · REN. 11-30-21 · STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
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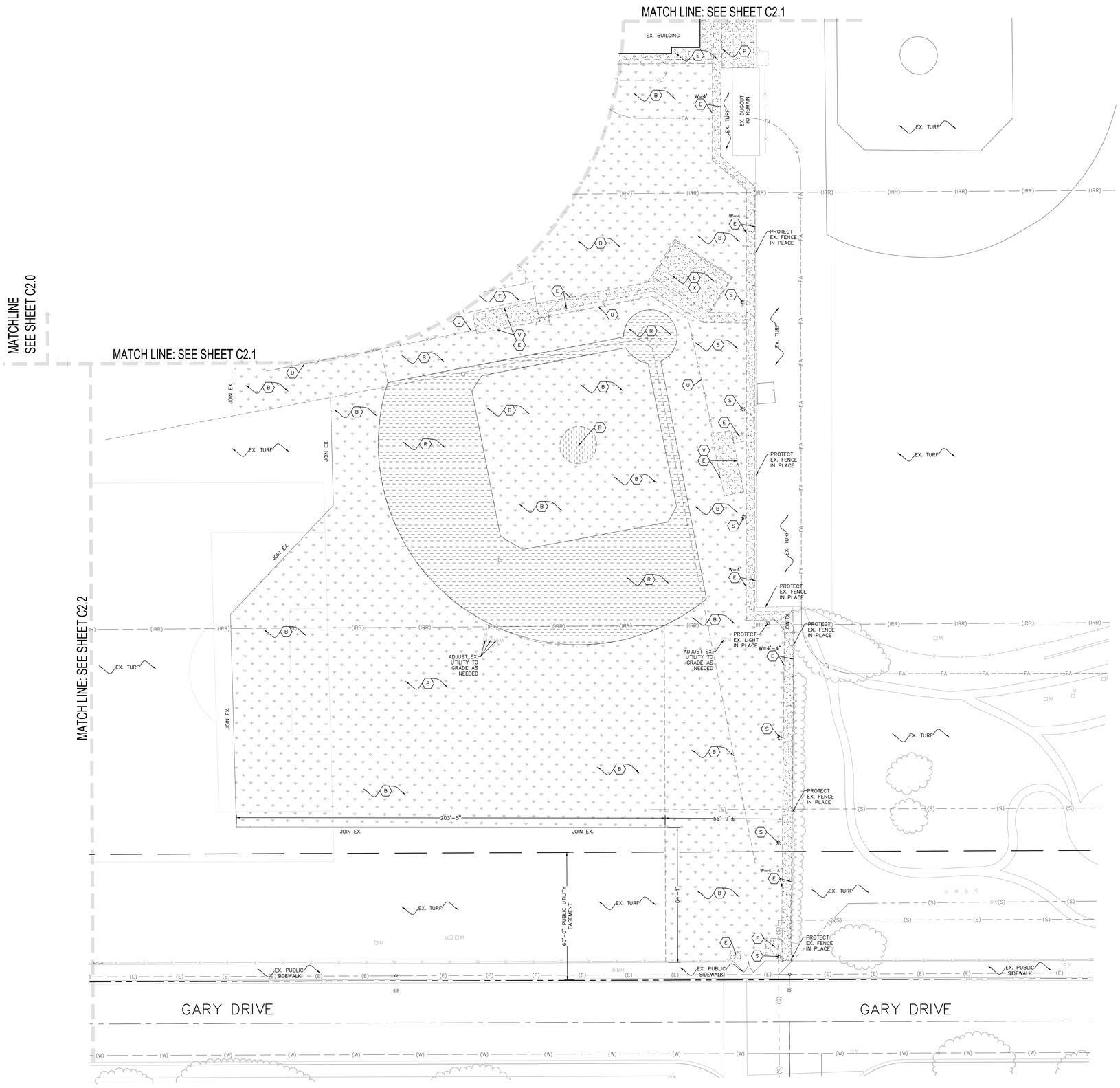
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C2.2



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SHEET TITLE
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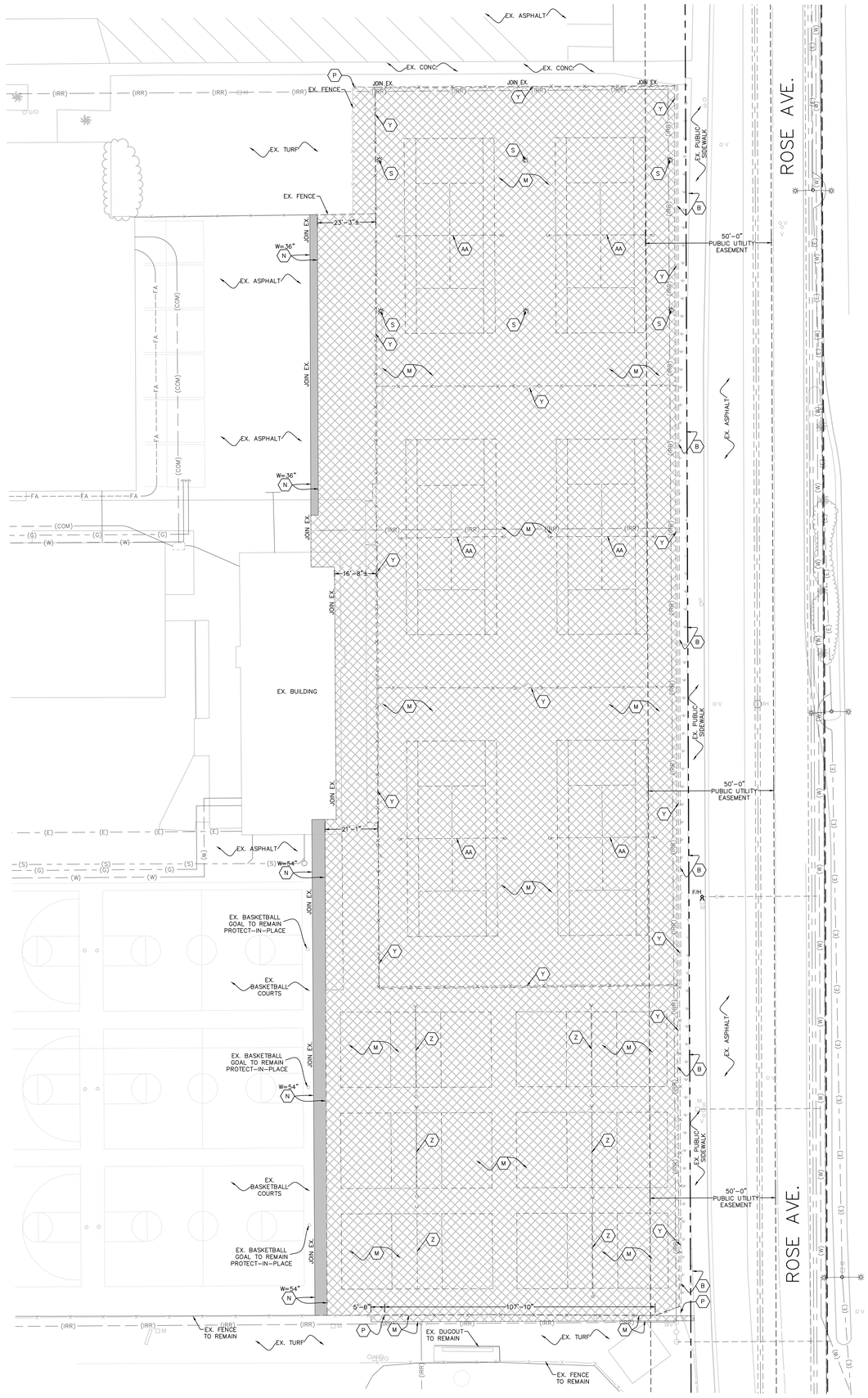
SHEET NUMBER
C2.3



DEMOLITION KEYNOTES:

A	REMOVE EXISTING SCOREBOARD - INLUDES (2) WIDE FLANGE POSTS AND CONCRETE PADS. STUB EXISTING ELECTRICAL IN PLACE FOR RECONNECTION TO NEW SCOREBOARD. SEE ARCHITECTURAL AND ELECTRICAL PLANS.	N	COLDMILL EXISTING AC PAVEMENT (1.5" THICK).
B	REMOVE EXISTING LANDSCAPE IN THIS AREA (TURF OR SHRUBS WHERE OCCURS). EXISTING IRRIGATION TO BE REMOVED WITHIN THESE LIMITS INCLUDING EXISTING SPRAY HEADS, VALVE BOXES, AND LATERALS. CUT AND CAP EXISTING LINES AT BOUNDARY EDGES. EXISTING MAINLINE TO BE PROTECTED-IN-PLACE. SEE IRRIGATION PLANS FOR CONTINUATION.	O	EXISTING PORTABLE CLASSROOM BUILDING TO BE RELOCATED ON CAMPUS PER DIRECTION OF DISTRICT REP.
C	REMOVE EXISTING ALL-WEATHER TRACK SURFACING, A.C. PAVEMENT AND BASE FOR THE PROPOSED TRACK IMPROVEMENTS.	P	REMOVE EXISTING CHAINLINK FENCE/GATE WHERE OCCURS. INCLUDES POSTS AND FOOTINGS, TYP.
D	REMOVE EXISTING JUMP EVENT INCLUDING ALL WEATHER TRACK MATERIAL AND SAND PITS.	Q	REMOVE EXISTING ACCESSIBLE RAMPING AND HANDRAILING FOR EACH PORTABLE BUILDING. VERIFY LIMITS IN THE FIELD.
E	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, BASE & SUBGRADE AS NEEDED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.	R	REMOVE EXISTING INFIELD MIX, INCLUDING EXISTING PITCHING MOUNDS, BASES, AND DIRT AS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.
F	EXISTING ELECTRICAL PULLBOX, VAULT, PANEL, CONDUIT, CONNECTION, LIGHT POLE, ELECTROLIER OR WIRING IN CONFLICT WITH PROPOSED WORK TO BE REMOVED/RELOCATED TO ACCOMODATE THE NEW IMPROVEMENTS. SEE ELECTRICAL PLANS FOR EXACT SCOPE OF WORK.	S	EXISTING LIGHT TO BE REMOVED, INCLUDING POST AND ASSOCIATED FOOTING.
G	REMOVE EXISTING STORM DRAIN LINE.	T	EXISTING STORAGE SHED TO BE RELOCATED. SEE CONSTRUCTION KEYNOTE #22 ON SHEET C3.3.
H	REMOVE EXISTING POST AND FOOTING.	U	EXISTING BACKSTOP FENCING/GATES TO BE REMOVED.
I	REMOVE EXISTING SEWER UTILITY BOX.	V	EXISTING DUGOUT TO BE REMOVED/DISPOSED OFFSITE.
J	REMOVE EXISTING ELECTRICAL PEDESTAL AND ALL ASSOCIATED CONDUITS.	X	EXISTING BLEACHERS TO BE SALVAGED. RELOCATE OFF-SITE AND RE-POSITION ON NEW CONCRETE PAD PER CONSTRUCTION PLANS.
K	REMOVE EXISTING IRRIGATION VALVE, CONTROL BOX, AND PIPE AS OCCURS.	Y	REMOVE AND DISPOSE EXISTING TENNIS AND VOLLEYBALL COURT FENCING INCLUDING FOOTINGS AND ASSOCIATED CONCRETE BANDS.
L	REMOVE EXISTING CONCRETE V-GUTTER.	Z	REMOVE AND DISPOSE EXISTING VOLLEYBALL NETTING, POSTS AND ASSOCIATED FOOTING.
M	SAWCUT AND REMOVE EXISTING A.C. PAVEMENT SECTION (ASPHALT, BASE & SUBGRADE) AS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION AND GRADING PLANS.	AA	REMOVE AND DISPOSE EXISTING TENNIS COURT NETTING, POSTS AND ASSOCIATED FOOTING.

NOTES:

1. VERIFY DEMOLITION LIMITS AT EXISTING BASEBALL AND SOFTBALL FIELDS WITH DISTRICT REPRESENTATIVE PRIOR TO COMMENCING ANY WORK. SALVAGE & PROTECT-IN-PLACE EXISTING FENCING, BACKSTOP, AND DUGOUTS IN THIS AREA UNLESS NOTED OTHERWISE.
2. ALL THE MOVABLE ITEMS THAT ARE CURRENTLY LOCATED WITHIN THE WORK AREA NEED TO BE RELOCATED DURING THE DEMOLITION AND CONSTRUCTION, AND PLACED BACK AT THE SAME LOCATION AFTER THE WORK IS COMPLETED.
3. CONTRACTOR SHALL ENSURE EXISTING IRRIGATION THAT FEEDS LANDSCAPE AREAS ADJACENT TO THE PROJECT WORK AREA REMAINS FULL OPERATIONAL THROUGHOUT DURATION OF THE PROJECT. WHEN REQUIRED TO INTERRUPT EXISTING IRRIGATION OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER TO MAINTAIN ALL EXISTING LANDSCAPE AREAS IN HEALTHY CONDITION UNTIL IRRIGATION SYSTEM IS RESTORED.

LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA

NORTH

SCALE=1"=20'

0 10 20 40 60

AGENCY REVIEW

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APP. 03-120287 INC:
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DATE: 03/09/2020

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT — KARRY KYLE — LIC. C12955 REN. 11-30-21 — STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
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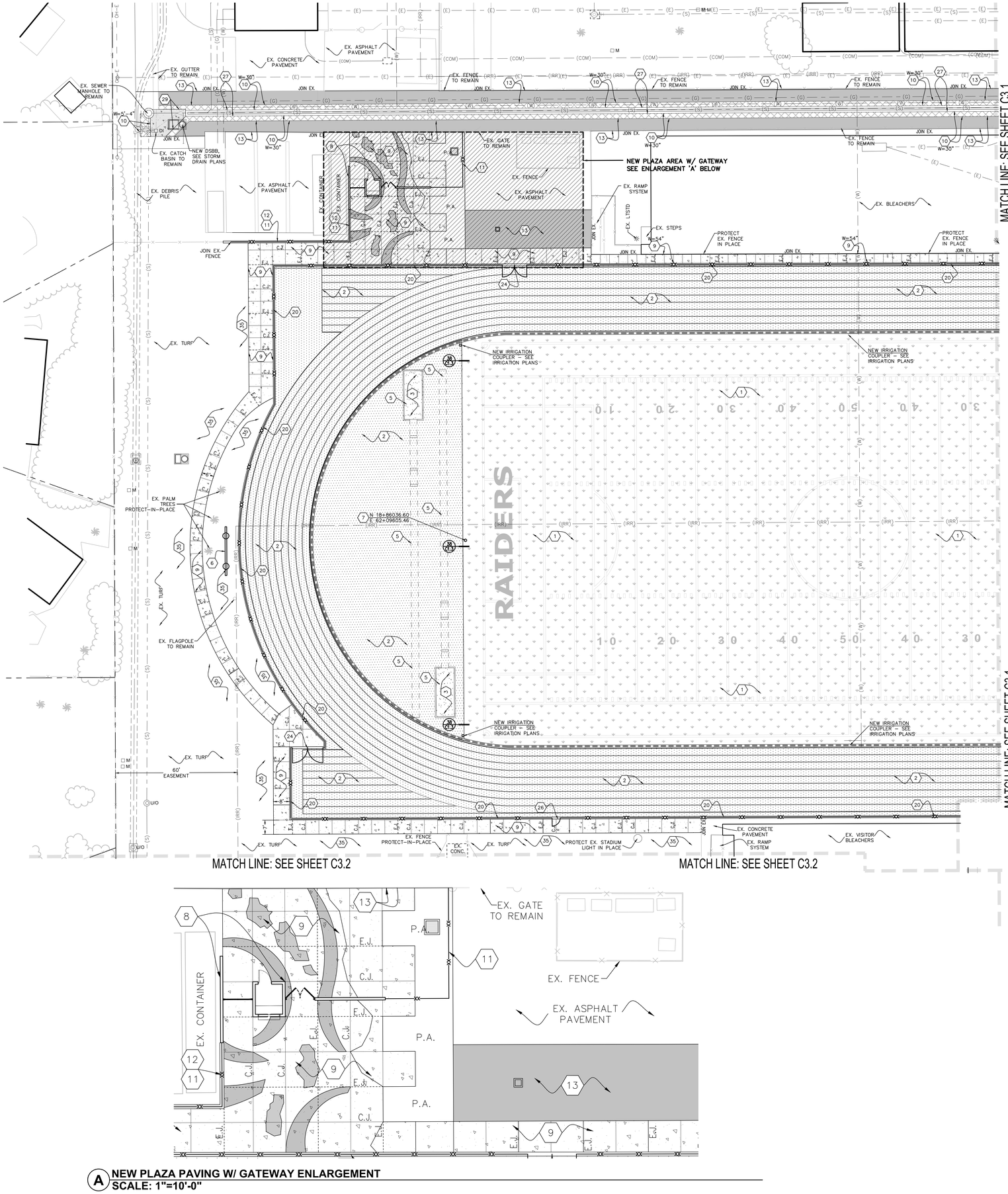
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C2.4



A NEW PLAZA PAVING W/ GATEWAY ENLARGEMENT
SCALE: 1"=10'-0"

CONSTRUCTION KEYNOTES (FURNISH & INSTALL):

1	SYNTHETIC TURF - (FIELDTURF COOLPLAY PRODUCT)	4/C1.1
2	ASPHALT PAVING WITH ALL-WEATHER TRACK SURFACING	1/C1.1 2/C1.1
3	SAND (REFER TO ARCHITECTURAL PLANS)	
4	HIGH JUMP (REFER TO ARCHITECTURAL PLANS)	1/A13.2
5	LONG / TRIPLE JUMP (REFER TO ARCHITECTURAL PLANS)	4/A13.2
6	SCOREBOARD (REFER TO ARCHITECTURAL PLANS)	5/A13.2
7	NEW GOAL POST (REFER TO ARCHITECTURAL PLANS)	1/A13.2
8	NEW GATEWAY STRUCTURE (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS). SEE DETAIL FOR BUILDING OVER-EXCAVATION SECTION.	2/C1.1
9	NEW PEDESTRIAN CONCRETE - COLOR AND FINISH VARY PER ARCHITECT'S PLANS. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	3/C1.1
10	NEW FULL DEPTH A.C. PAVEMENT. MATCH EXISTING A.C. PAVEMENT SECTION LIKE FOR LIKE.	
11	NEW FENCE AND GATE, WHERE OCCURS, MATCH ADJOINING POST SPACING, MATERIAL, AND HEIGHT, LIKE FOR LIKE. REFER TO ARCHITECTURAL PLANS FOR POST EMBEDMENT DETAIL)	
12	NEW 12" WIDE CONCRETE MOW CURB WITH FENCE ON TOP.	3/C1.1
13	OVERLAY EXISTING A.C. PAVEMENT (1.5" THICK).	2/C1.1
14	ELECTRICAL JUNCTION BOX WITH ALL WEATHER TRACK MATERIAL LID (REFER TO ELECTRICAL PLANS), MATCHING TYPE, COLOR, & MODEL OF EXISTING TRACK SURFACE. CONTRACTOR SHALL CONTACT BEYNON REP. FOR INFO. & SUBMIT CUT-SHEETS FOR REVIEW.	
15	NEW BASEBALL / SOFTBALL FIELD - PITCHING MOUNDS, BASES, ETC. WHERE OCCURS. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
16	NEW LIGHT FIXTURE (PEDESTRIAN / TENNIS COURT) WHERE OCCURS (REFER TO ELECTRICAL PLANS FOR DETAILS)	
18	NEW INFIELD MIX (REFER TO ARCHITECTURAL PLAN)	
19	NEW LOCATION OF EXISTING RELOCATED EXISTING ALUMINUM BLEACHERS.	
20	NEW 12" WIDE P.C.C. CURB WITH 4FT TALL CHAINLINK FENCE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
21	NEW TENNIS COURT W/ NETS, POSTS, AND STRIPING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
22	NEW LOCATION OF EXISTING RELOCATED SHED TO NEW LOCATION SHOWN ON PLAN.	
23	NEW 12FT TALL FENCE TENNIS COURT FENCING W/ FABRIC WIND SCREEN. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
24	NEW DOUBLE-WIDE CHAIN-LINK FENCE GATE (WIDTH VARIES, SEE PLANS). (REFER TO ARCHITECTURAL PLANS FOR FENCING DETAILS)	
25	NEW TENNIS COURT ACCESS GATE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
26	NEW TRACK-N-FIELD ACCESS GATE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
27	NEW TRENCH DRAIN - SIZE VARIES (REFER TO STORM DRAIN PLANS FOR SPEC AND DETAILS)	
28	NEW PERIMETER STEEL FENCE (MATCH EXISTING) (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
29	NEW VEHICULAR CONCRETE PAVING - SEE ARCHITECTURAL PLANS FOR COLOR AND FINISH. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	1/C1.1
30	NEW TENNIS COURT CONCRETE - SEE ARCHITECTURAL PLANS FOR COLOR AND FINISH. SAWCUT AND EXPANSION JOINTS AS SHOWN ON PLANS.	2/C1.1
31	NEW PLAYERS DUGOUT @ SOFTBALL FIELD (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
32	NEW CHAINLINK SOFTBALL FENCING. INCLUDES BACKSTOP FENCING W/ ACCESS GATES ON 24" WIDE CURB. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
33	NEW CONCRETE V-GUTTER - WIDTH AS NOTED ON PLANS.	1/C1.2
34	ADJUST EXISTING UTILITY TO NEW GRADE AS NEEDED. REFER TO GRADING PLANS.	
35	RE-GRADE EXISTING LANDSCAPE AREA AS NEEDED @ 4:1 MAX. SLOPE.	

NOTES:

1. VERIFY DEMOLITION LIMITS AT EXISTING BASEBALL AND SOFTBALL FIELDS WITH DISTRICT REPRESENTATIVE PRIOR TO COMMENCING ANY WORK. SALVAGE & PROTECT–IN–PLACE EXISTING FENCING, BACKSTOP, AND DUGOUTS IN THIS AREA UNLESS NOTED OTHERWISE.
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4. REFER TO PLANTING AND IRRIGATION PLANS FOR ALL NEW PLANTER AND TURF AREAS
5. REFER TO ARCHITECTURAL PLANS FOR ALL DECORATIVE CONCRETE PATTERNS, COLOR, AND FINISH.
6. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR ALL PLAY FIELD STRIPING.

PAVING CONTROL JOINTS:

1. PLACE CONTROL JOINTS (C.J.), SAWCUT JOINTS (S.J.) AND EXPANSION JOINTS (E.J.) AS SHOWN ON THE PLANS AND DETAILS. CONTRACTOR SHALL SUBMIT PAVEMENT SHOP DRAWINGS LOCATING ALL JOINTS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY WORK.
2. TOOLED CONTROL JOINTS PER DETAIL '37/C1.3'
3. SAWCUT JOINTS PER DETAIL '34/C1.3' (TENNIS COURTS ONLY)
4. EXPANSION JOINTS PER DETAIL '36/C1.3'

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH–E
EX. FIRE ALARM FA
NEW SOLID STORM DRAIN SD
NEW PERF. STORM DRAIN
NEW MULTI–FLOW PIPE

NORTH

SCALE=1"=20'

0 10 20 40 60

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PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
MATTHEW K. BEYNON
No. C12965
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
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ISSUE DATE
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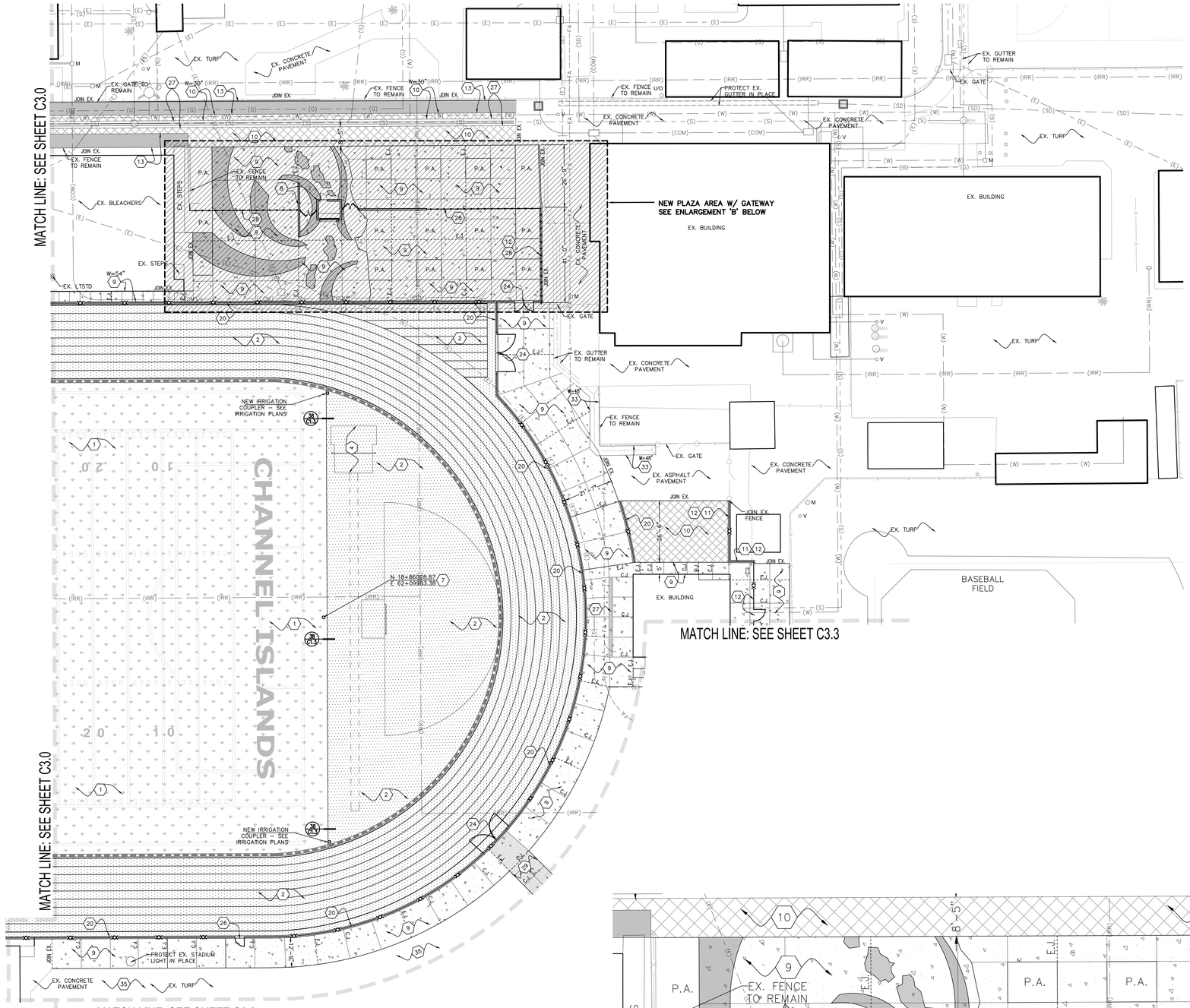
PROJECT NO.
6121235305

SHEET TITLE
CONSTRUCTION PLAN

SHEET NUMBER
C3.0



CONSTRUCTION KEYNOTES (FURNISH & INSTALL):

1	SYNTHETIC TURF - (FIELDTURF COOLPLAY PRODUCT)	4 / D1.1
2	ASPHALT PAVING WITH ALL-WEATHER TRACK SURFACING	1 / D1.1; 1 / D1.2
3	SAND (REFER TO ARCHITECTURAL PLANS)	
4	HIGH JUMP (REFER TO ARCHITECTURAL PLANS)	7 / D1.2
5	LONG / TRIPLE JUMP (REFER TO ARCHITECTURAL PLANS)	6 / D1.2
6	SCOREBOARD (REFER TO ARCHITECTURAL PLANS)	15 / D1.2
7	NEW GOAL POST (REFER TO ARCHITECTURAL PLANS)	9 / D1.2
8	NEW GATEWAY STRUCTURE (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS). SEE DETAIL FOR BUILDING OVER-EXCAVATION SECTION.	40 / C3.2
9	NEW PEDESTRIAN CONCRETE - COLOR AND FINISH VARY PER ARCHITECT'S PLANS. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	10 / D1.1
10	NEW FULL DEPTH A.C. PAVEMENT. MATCH EXISTING A.C. PAVEMENT SECTION LIKE FOR LIKE.	
11	NEW FENCE AND GATE, WHERE OCCURS. MATCH ADJOINING POST SPACING, MATERIAL, AND HEIGHT, LIKE FOR LIKE. REFER TO ARCHITECTURAL PLANS FOR POST EMBEDMENT DETAIL)	
12	NEW 12" WIDE CONCRETE MOW CURB WITH FENCE ON TOP.	19 / D1.1
13	OVERLAY EXISTING A.C. PAVEMENT (1.5" THICK).	21 / D1.1
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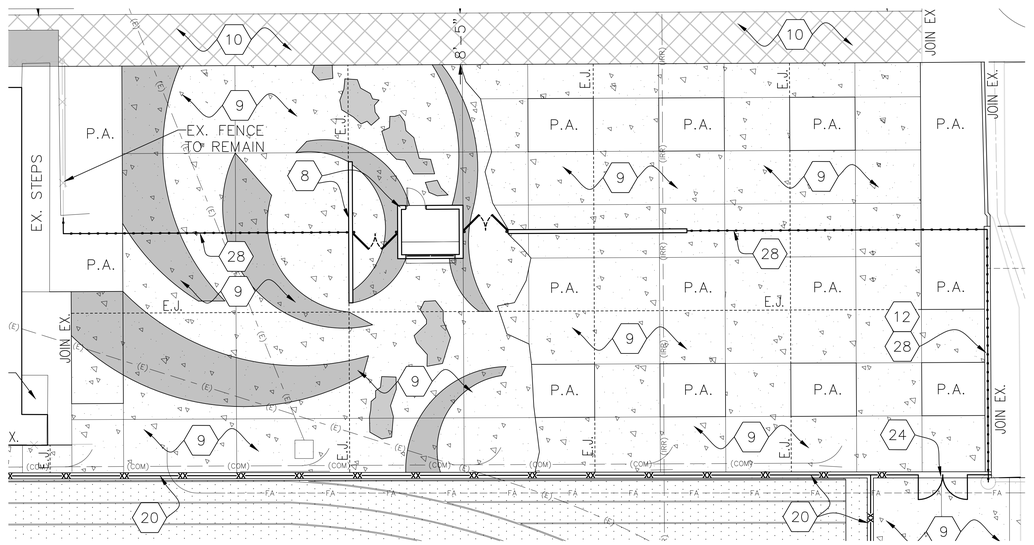

B NEW PLAZA PAVING W/ GATEWAY ENLARGEMENT
SCALE: 1"=10'-0"

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NEW MULTI–FLOW PIPE	

NORTH

SCALE=1"=20'

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PROJECT NAME
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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BARRY BET GOVARE C 81726 EXP. 3-31-20 CIVIL STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT LILIAN K. WYNNE LIC. C12955 REN. 11-30-21 STATE OF CALIFORNIA

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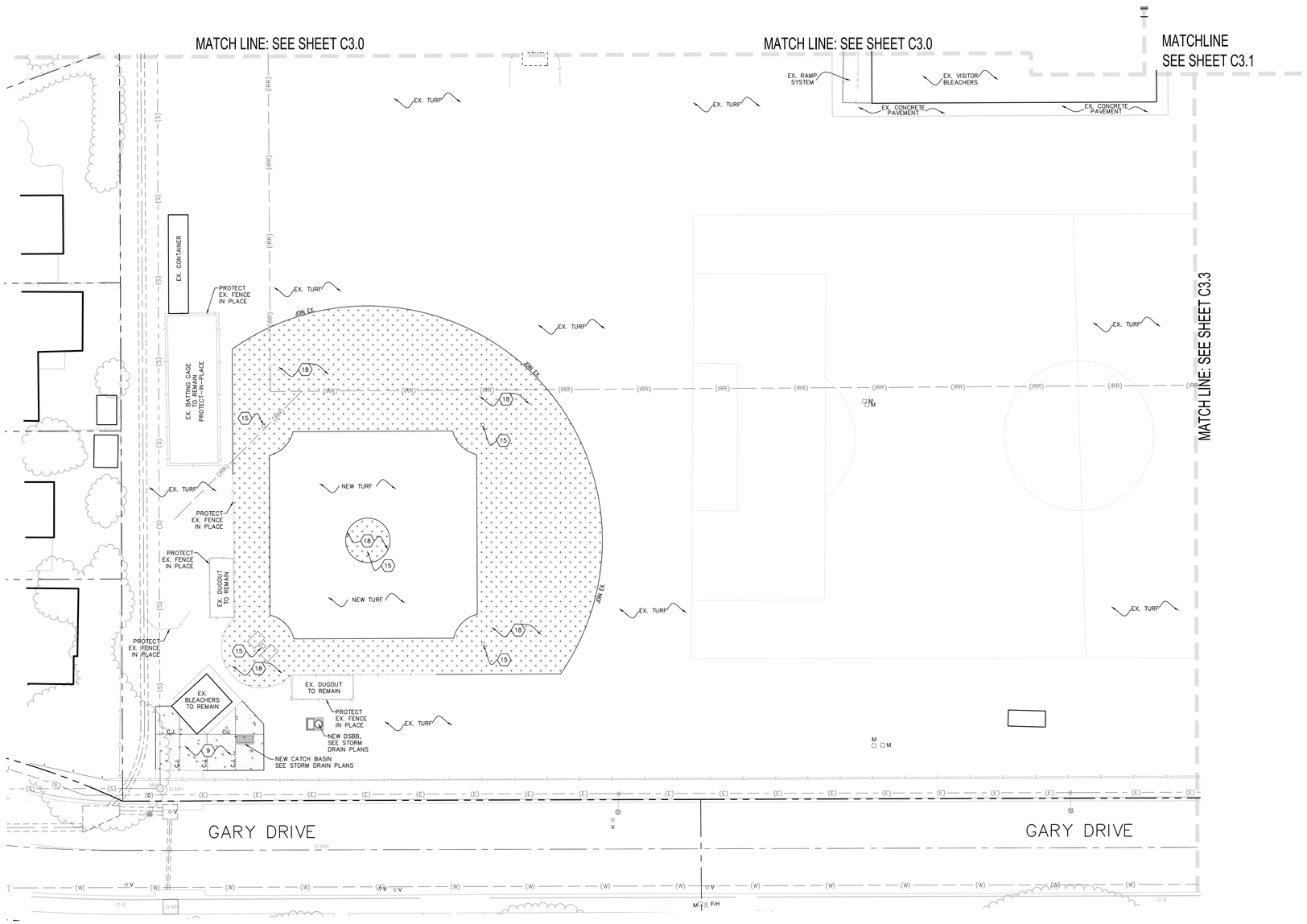

CONSTRUCTION KEYNOTES (FURNISH & INSTALL):

1	SYNTHETIC TURF - (FIELDTURF COOLPLAY PRODUCT)	4 / C1.1
2	ASPHALT PAVING WITH ALL-WEATHER TRACK SURFACING	1 / C1.1, 4 / C1.1
3	SAND (REFER TO ARCHITECTURAL PLANS)	
4	HIGH JUMP (REFER TO ARCHITECTURAL PLANS)	6 / A13.2
5	LONG / TRIPLE JUMP (REFER TO ARCHITECTURAL PLANS)	6 / A13.2
6	SCOREBOARD (REFER TO ARCHITECTURAL PLANS)	13 / A13.2
7	NEW GOAL POST (REFER TO ARCHITECTURAL PLANS)	14 / A13.2
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12	NEW 12" WIDE CONCRETE MOW CURB WITH FENCE ON TOP.	16 / C1.1
13	OVERLAY EXISTING A.C. PAVEMENT (1.5" THICK).	41 / C1.1
14	ELECTRICAL JUNCTION BOX WITH ALL WEATHER TRACK MATERIAL LID (REFER TO ELECTRICAL PLANS), MATCHING TYPE, COLOR, & MODEL OF EXISTING TRACK SURFACE. CONTRACTOR SHALL CONTACT BEYNON REP. FOR INFO., & SUBMIT CUT-SHEETS FOR REVIEW.	
15	NEW BASEBALL / SOFTBALL FIELD - PITCHING MOUNDS, BASES, ETC. WHERE OCCURS. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
16	NEW LIGHT FIXTURE (PEDESTRIAN / TENNIS COURT) WHERE OCCURS (REFER TO ELECTRICAL PLANS FOR DETAILS)	
18	NEW INFIELD MIX (REFER TO ARCHITECTURAL PLAN)	
19	NEW LOCATION OF EXISTING RELOCATED EXISTING ALUMINUM BLEACHERS.	
20	NEW 12" WIDE P.C.C. CURB WITH 4FT TALL CHAINLINK FENCE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
21	NEW TENNIS COURT W/ NETS, POSTS, AND STRIPING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
22	NEW LOCATION OF EXISTING RELOCATED SHED TO NEW LOCATION SHOWN ON PLAN.	
23	NEW 12FT TALL FENCE TENNIS COURT FENCING W/ FABRIC WIND SCREEN. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
24	NEW DOUBLE-WIDE CHAIN-LINK FENCE GATE (WIDTH VARIES, SEE PLANS). (REFER TO ARCHITECTURAL PLANS FOR FENCING DETAILS)	
25	NEW TENNIS COURT ACCESS GATE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
26	NEW TRACK-N-FIELD ACCESS GATE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
27	NEW TRENCH DRAIN - SIZE VARIES (REFER TO STORM DRAIN PLANS FOR SPEC AND DETAILS)	
28	NEW PERIMETER STEEL FENCE (MATCH EXISTING) (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
29	NEW VEHICULAR CONCRETE PAVING - SEE ARCHITECTURAL PLANS FOR COLOR AND FINISH. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	17 / C1.1
30	NEW TENNIS COURT CONCRETE - SEE ARCHITECTURAL PLANS FOR COLOR AND FINISH. SAWCUT AND EXPANSION JOINTS AS SHOWN ON PLANS.	20 / C1.1
31	NEW PLAYERS DUGOUT @ SOFTBALL FIELD (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
32	NEW CHAINLINK SOFTBALL FENCING. INCLUDES BACKSTOP FENCING W/ ACCESS GATES ON 24" WIDE CURB. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
33	NEW CONCRETE V-GUTTER - WIDTH AS NOTED ON PLANS.	15 / C1.1
34	ADJUST EXISTING UTILITY TO NEW GRADE AS NEEDED. REFER TO GRADING PLANS.	
35	RE-GRADE EXISTING LANDSCAPE AREA AS NEEDED @ 4:1 MAX. SLOPE.	

NOTES:

1. VERIFY DEMOLITION LIMITS AT EXISTING BASEBALL AND SOFTBALL FIELDS WITH DISTRICT REPRESENTATIVE PRIOR TO COMMENCING ANY WORK. SALVAGE & PROTECT-IN-PLACE EXISTING FENCING, BACKSTOP, AND DUGOUTS IN THIS AREA UNLESS NOTED OTHERWISE.
2. ALL THE MOVABLE ITEMS THAT ARE CURRENTLY LOCATED WITHIN THE WORK AREA NEED TO BE RELOCATED DURING THE DEMOLITION AND CONSTRUCTION, AND PLACED BACK AT THE SAME LOCATION AFTER THE WORK IS COMPLETED.
3. CONTRACTOR SHALL ENSURE EXISTING IRRIGATION THAT FEEDS LANDSCAPE AREAS ADJACENT TO THE PROJECT WORK AREA REMAINS FULL OPERATIONAL THROUGHOUT DURATION OF THE PROJECT. WHEN REQUIRED TO INTERRUPT EXISTING IRRIGATION OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER TO MAINTAIN ALL EXISTING LANDSCAPE AREAS IN HEALTHY CONDITION UNTIL IRRIGATION SYSTEM IS RESTORED.
4. REFER TO PLANTING AND IRRIGATION PLANS FOR ALL NEW PLANTER AND TURF AREAS
5. REFER TO ARCHITECTURAL PLANS FOR ALL DECORATIVE CONCRETE PATTERNS, COLOR, AND FINISH.
6. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR ALL PLAY FIELD STRIPING.

PAVING CONTROL JOINTS:

1. PLACE CONTROL JOINTS (C.J.), SAWCUT JOINTS (S.J.) AND EXPANSION JOINTS (E.J.) AS SHOWN ON THE PLANS AND DETAILS. CONTRACTOR SHALL SUBMIT PAVEMENT SHOP DRAWINGS LOCATING ALL JOINTS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY WORK.
2. TOOLED CONTROL JOINTS PER DETAIL '37/C1.3'
3. SAWCUT JOINTS PER DETAIL '34/C1.3' (TENNIS COURTS ONLY)
4. EXPANSION JOINTS PER DETAIL '36/C1.3'

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH-E
EX. FIRE ALARM FA
NEW SOLID STORM DRAIN SD
NEW PERF. STORM DRAIN
NEW MULTI-FLOW PIPE

NORTH

SCALE=1"=20'

0 10 20 40 60

AGENCY REVIEW

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1300 Dove Street, Suite 100
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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT
BRIAN K. BEYNON
No. C12905
REN. 11-30-20
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
CONSTRUCTION PLAN

SHEET NUMBER
C3.2

CONSTRUCTION KEYNOTES (FURNISH & INSTALL):

1	SYNTHETIC TURF - (FIELDTURF COOLPLAY PRODUCT)	4 / C1.1
2	ASPHALT PAVING WITH ALL-WEATHER TRACK SURFACING	1 / C1.1, 5 / C1.1
3	SAND (REFER TO ARCHITECTURAL PLANS)	
4	HIGH JUMP (REFER TO ARCHITECTURAL PLANS)	7 / A1.3.2
5	LONG / TRIPLE JUMP (REFER TO ARCHITECTURAL PLANS)	9 / A1.3.2
6	SCOREBOARD (REFER TO ARCHITECTURAL PLANS)	13 / A1.3.2
7	NEW GOAL POST (REFER TO ARCHITECTURAL PLANS)	9 / A1.3.1
8	NEW GATEWAY STRUCTURE (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS). SEE DETAIL FOR BUILDING OVER-EXCAVATION SECTION.	40 / C1.3
9	NEW PEDESTRIAN CONCRETE - COLOR AND FINISH VARY PER ARCHITECT'S PLANS. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	9 / C1.1
10	NEW FULL DEPTH A.C. PAVEMENT. MATCH EXISTING A.C. PAVEMENT SECTION LIKE FOR LIKE.	
11	NEW FENCE AND GATE, WHERE OCCURS. MATCH ADJOINING POST SPACING, MATERIAL, AND HEIGHT, LIKE FOR LIKE. REFER TO ARCHITECTURAL PLANS FOR POST EMBEDMENT DETAIL)	
12	NEW 12" WIDE CONCRETE MOW CURB WITH FENCE ON TOP.	10 / C1.1
13	OVERLAY EXISTING A.C. PAVEMENT (1.5" THICK).	11 / C1.1
14	ELECTRICAL JUNCTION BOX WITH ALL WEATHER TRACK MATERIAL LID (REFER TO ELECTRICAL PLANS). MATCHING TYPE, COLOR, & MODEL OF EXISTING TRACK SURFACE. CONTRACTOR SHALL CONTACT BEYNON REP. FOR INFO.. & SUBMIT CUT-SHEETS FOR REVIEW.	
15	NEW BASEBALL / SOFTBALL FIELD - PITCHING MOUNDS, BASES, ETC. WHERE OCCURS. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
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19	NEW LOCATION OF EXISTING RELOCATED EXISTING ALUMINUM BLEACHERS.	
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26	NEW TRACK-N-FIELD ACCESS GATE. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
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31	NEW PLAYERS DUGOUT @ SOFTBALL FIELD (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
32	NEW CHAINLINK SOFTBALL FENCING. INCLUDES BACKSTOP FENCING W/ ACCESS GATES ON 24" WIDE CURB. (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
33	NEW CONCRETE V-GUTTER - WIDTH AS NOTED ON PLANS.	28 / C1.3
34	ADJUST EXISTING UTILITY TO NEW GRADE AS NEEDED. REFER TO GRADING PLANS.	
35	RE-GRADE EXISTING LANDSCAPE AREA AS NEEDED @ 4:1 MAX. SLOPE.	

NOTES:

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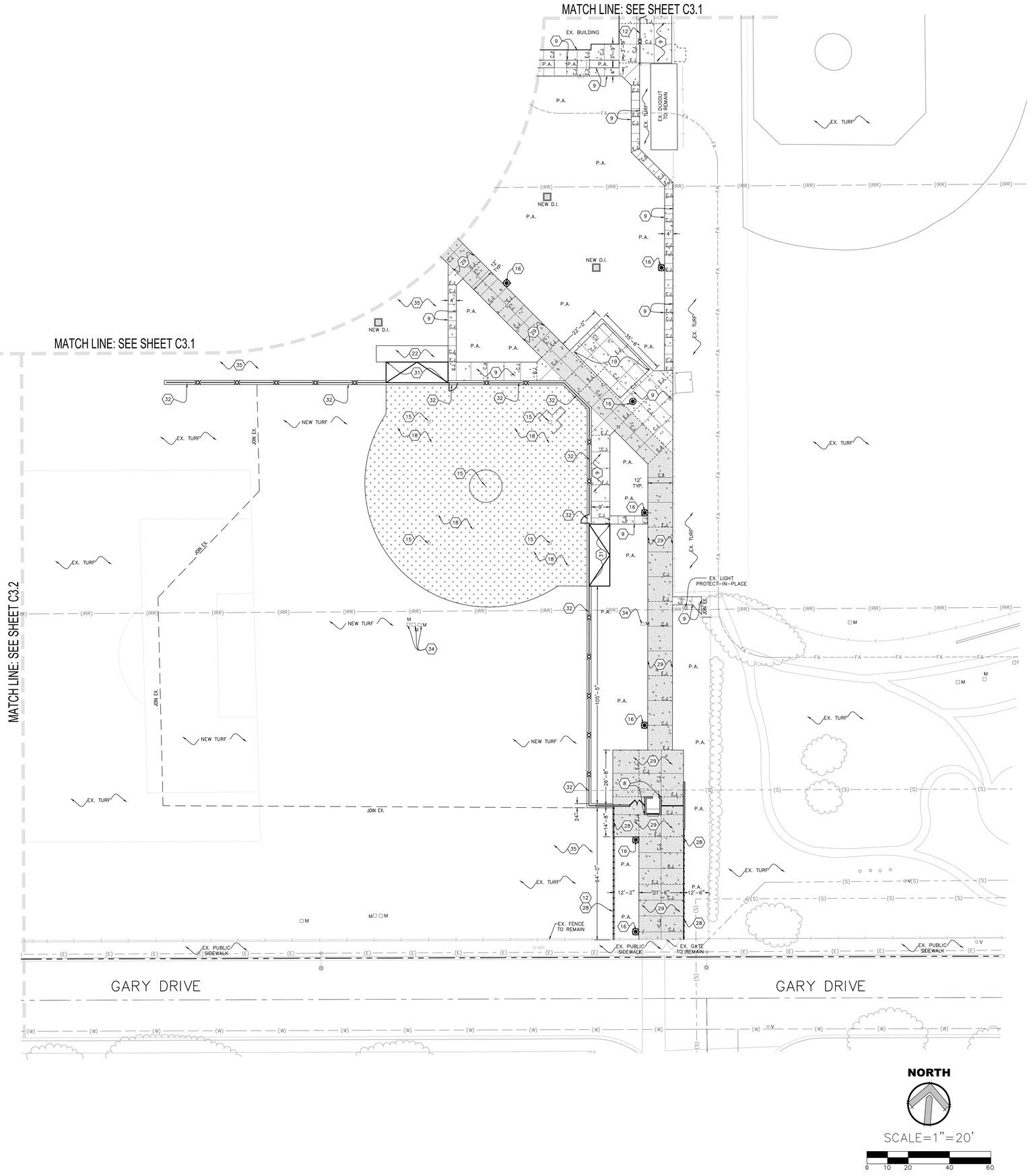
3. SAWCUT JOINTS PER DETAIL '34/C1.3' (TENNIS COURTS ONLY)
4. EXPANSION JOINTS PER DETAIL '36/C1.3'

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH-E
EX. FIRE ALARM FA
NEW SOLID STORM DRAIN SD
NEW PERF. STORM DRAIN
NEW MULTI-FLOW PIPE



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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BARRY BET. GOMEZ C 81751 EXP. 3-31-20 CIVIL STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT LEE R. LITTLE No. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
CONSTRUCTION PLAN

SHEET NUMBER
C3.3

CONSTRUCTION KEYNOTES (FURNISH & INSTALL):

1	SYNTHETIC TURF - (FIELDTURF COOLPLAY PRODUCT)	1/C1.1
2	ASPHALT PAVING WITH ALL-WEATHER TRACK SURFACING	1/C1.1 3/C1.1
3	SAND (REFER TO ARCHITECTURAL PLANS)	
4	HIGH JUMP (REFER TO ARCHITECTURAL PLANS)	1/L1.3
5	LONG / TRIPLE JUMP (REFER TO ARCHITECTURAL PLANS)	1/L1.3
6	SCOREBOARD (REFER TO ARCHITECTURAL PLANS)	1/L1.3
7	NEW GOAL POST (REFER TO ARCHITECTURAL PLANS)	1/L1.3
8	NEW GATEWAY STRUCTURE (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS). SEE DETAIL FOR BUILDING OVER-EXCAVATION SECTION.	6/C1.2
9	NEW PEDESTRIAN CONCRETE - COLOR AND FINISH VARY PER ARCHITECT'S PLANS. CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.	11/C1.1
10	NEW FULL DEPTH A.C. PAVEMENT. MATCH EXISTING A.C. PAVEMENT SECTION LIKE FOR LIKE.	
11	NEW FENCE AND GATE, WHERE OCCURS, MATCH ADJOINING POST SPACING, MATERIAL, AND HEIGHT, LIKE FOR LIKE. REFER TO ARCHITECTURAL PLANS FOR POST EMBEDMENT DETAIL)	
12	NEW 12" WIDE CONCRETE MOW CURB WITH FENCE ON TOP.	15/C1.1
13	OVERLAY EXISTING A.C. PAVEMENT (1.5" THICK).	21/C1.1
14	ELECTRICAL JUNCTION BOX WITH ALL WEATHER TRACK MATERIAL LID (REFER TO ELECTRICAL PLANS), MATCHING TYPE, COLOR, & MODEL OF EXISTING TRACK SURFACE. CONTRACTOR SHALL CONTACT BEYNON REP. FOR INFO. & SUBMIT CUT-SHEETS FOR REVIEW.	
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31	NEW PLAYERS DUGOUT @ SOFTBALL FIELD (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	
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33	NEW CONCRETE V-GUTTER - WIDTH AS NOTED ON PLANS.	24/C1.2
34	ADJUST EXISTING UTILITY TO NEW GRADE AS NEEDED. REFER TO GRADING PLANS.	
35	RE-GRADE EXISTING LANDSCAPE AREA AS NEEDED @ 4:1 MAX. SLOPE.	

NOTES:

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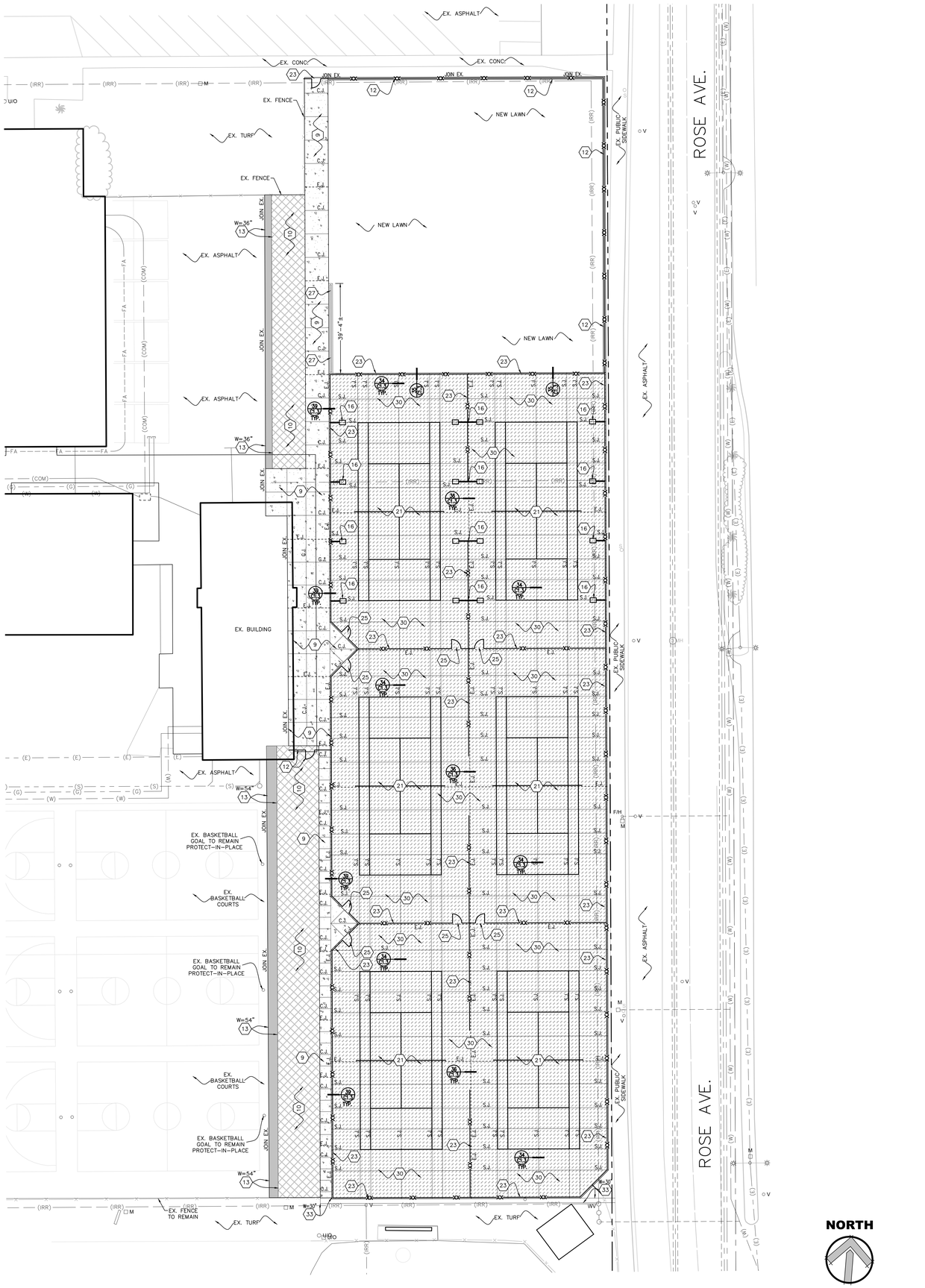
3. SAWCUT JOINTS PER DETAIL '34/C1.3' (TENNIS COURTS ONLY)
4. EXPANSION JOINTS PER DETAIL '36/C1.3'

LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH=E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	



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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BARRY BET GOVARDHAN
C 81751
EXP. 3-31-20
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JAY K. LITTLE
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REN. 11-30-21
STATE OF CALIFORNIA

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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB

PROJECT MANAGER
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DESIGN TEAM
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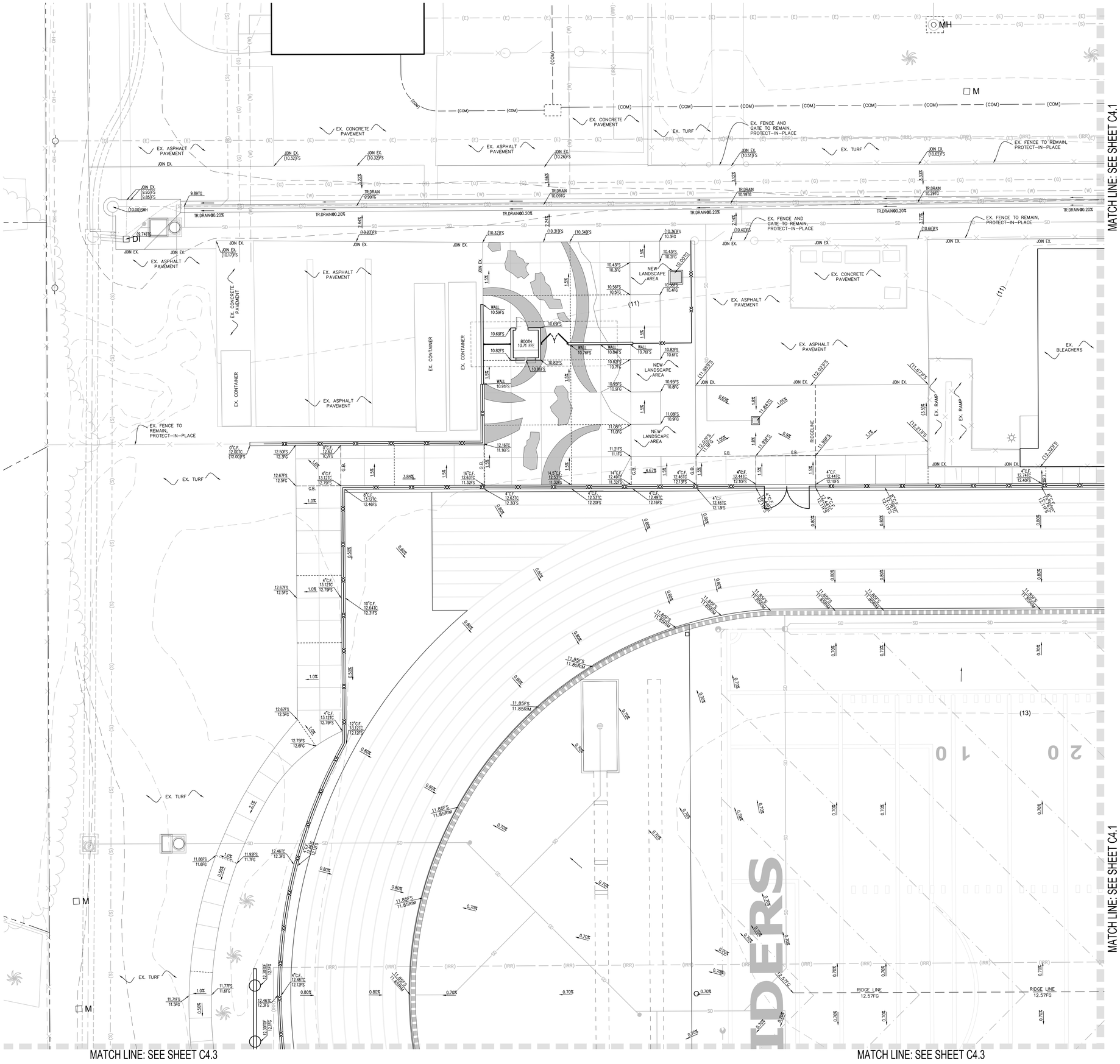
PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
CONSTRUCTION PLAN

SHEET NUMBER
C3.4



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

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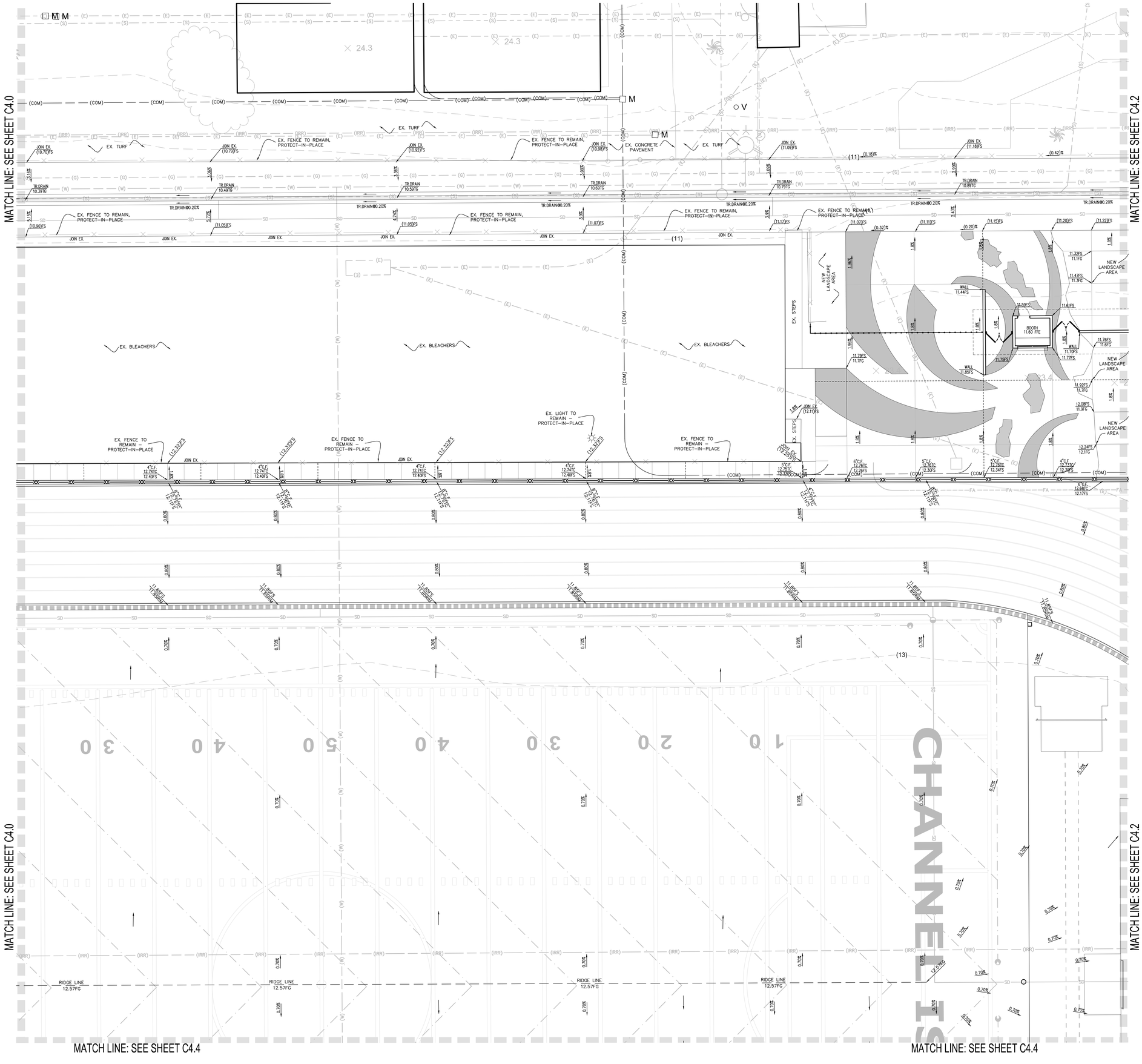
PROJECT NO.
6121235305

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C4.0



LEGEND:

- EX. STORM DRAIN (SD)
- EX. GAS (G)
- EX. ELECTRIC (E)
- EX. WATER (W)
- EX. SEWER (S)
- EX. COMMUNICATIONS (COM)
- EX. IRRIGATION MAIN LINE (IRR)
- EX. OVERHEAD ELECTRICAL OH-E
- EX. FIRE ALARM FA
- NEW SOLID STORM DRAIN SD
- NEW PERF. STORM DRAIN
- NEW MULTI-FLOW PIPE

NORTH

SCALE=1"=10'

0 5 10 20 30

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
LIC. C12905
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

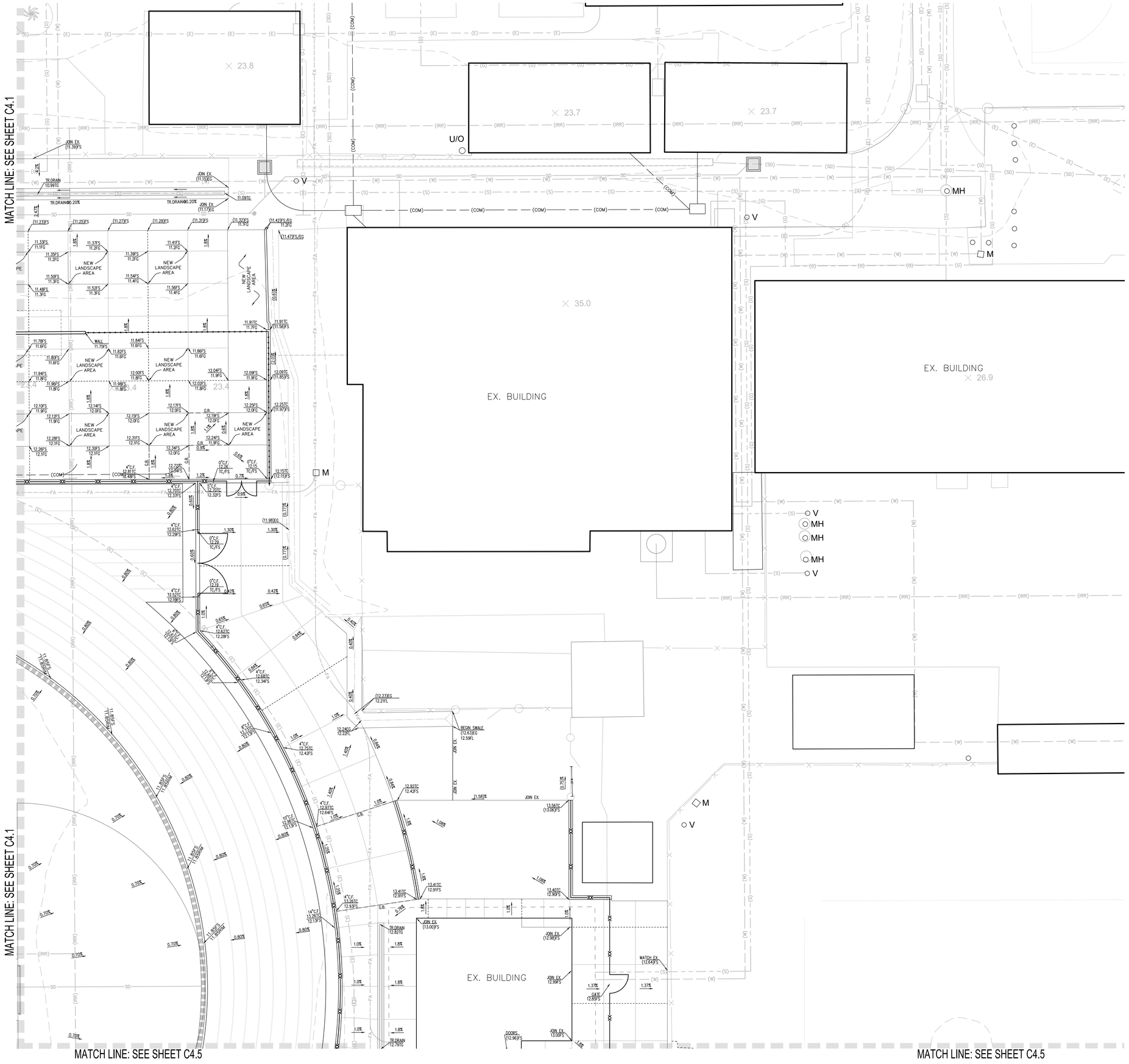
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C4.1



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BARBIN BET GOVARDEZ
C 81751
EXP. 03/31/20
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
JAY R. VITTLE
NO. C12955
REN. 11-30-21
STATE OF CALIFORNIA

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ISSUE DATE

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BB

PROJECT MANAGER
BB

DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

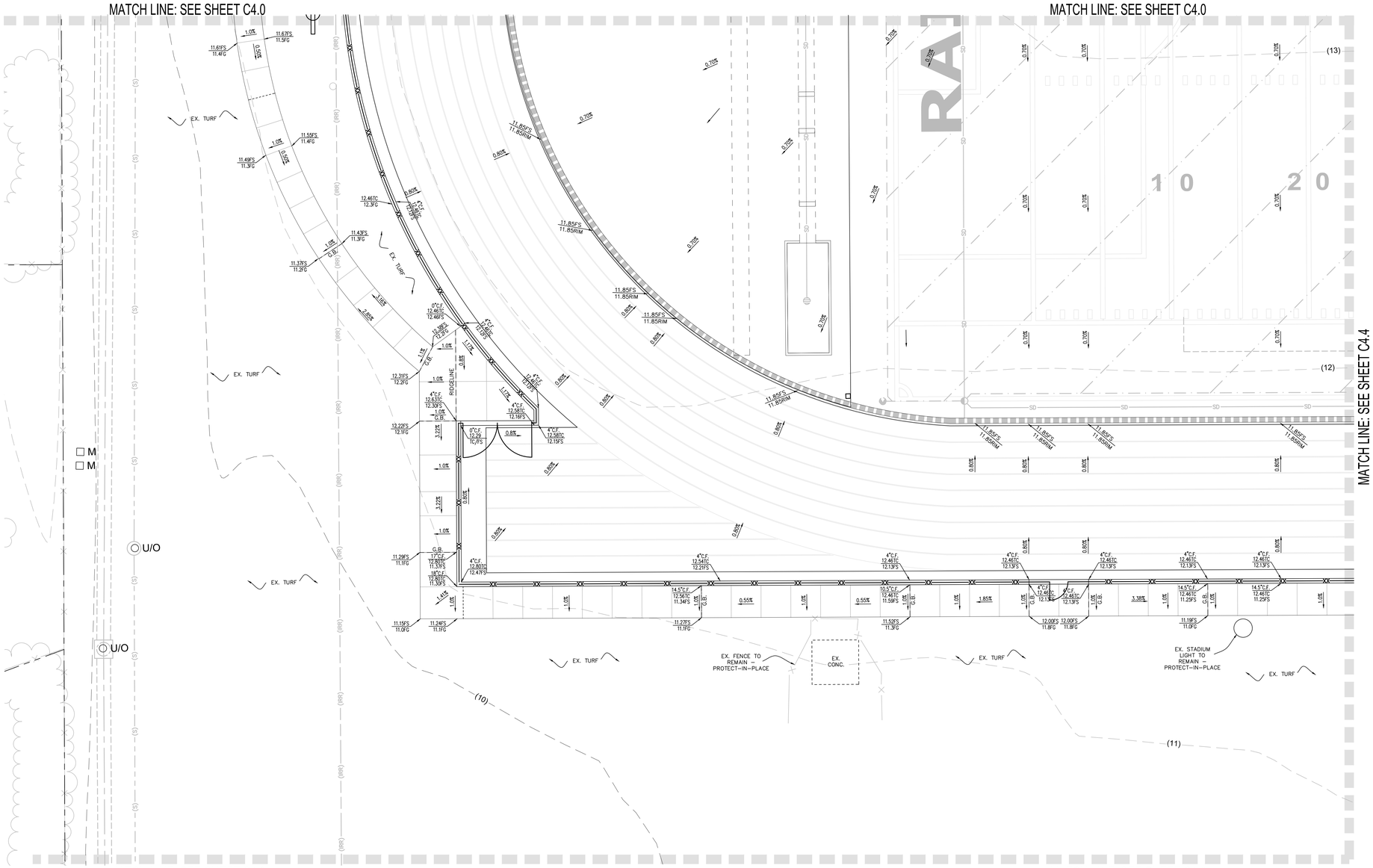
6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.2



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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PROJECT NO.

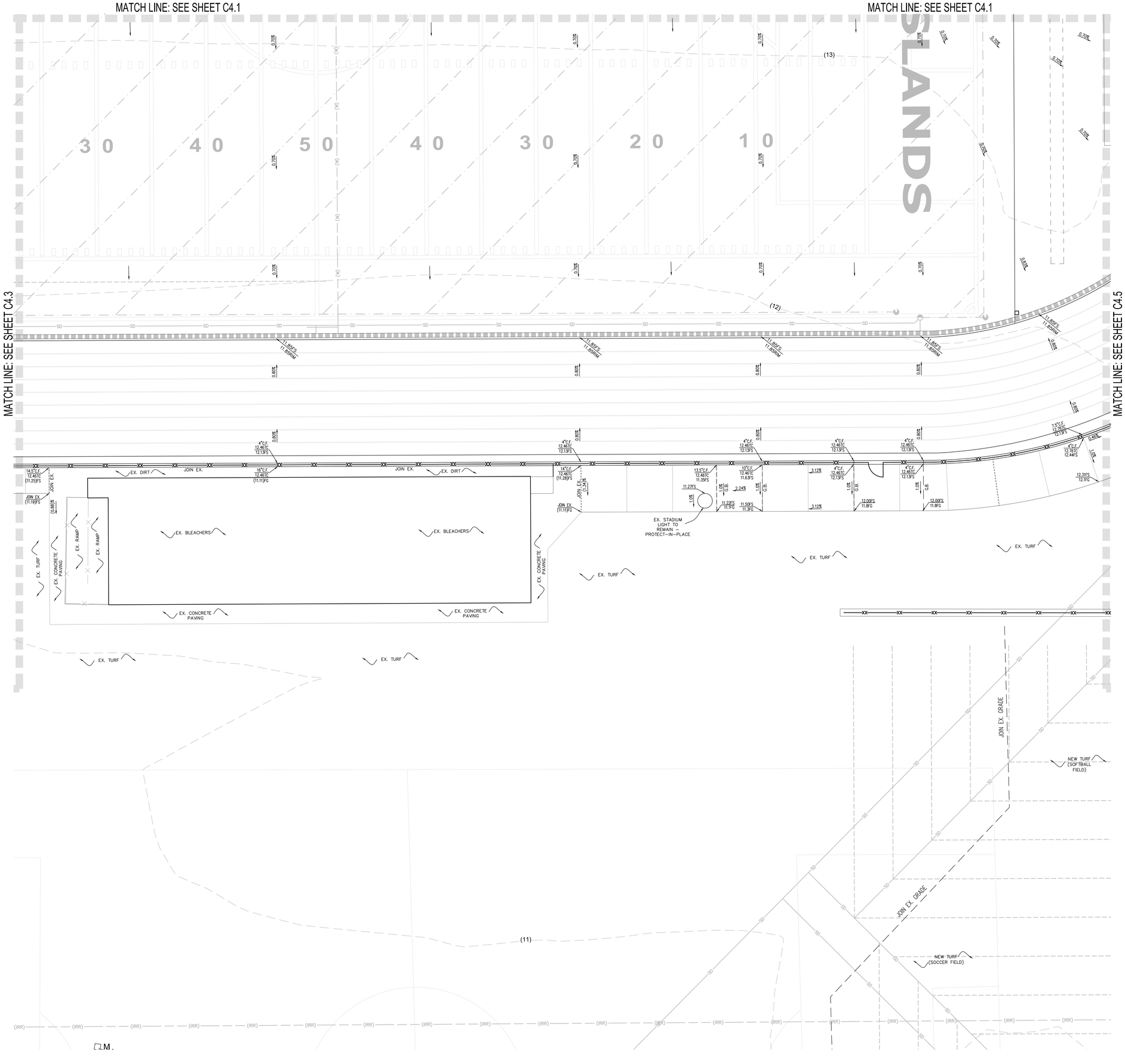
6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.3



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH–E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI–FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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NO. C12955
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PROJECT MANAGER
BB

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PROJECT NO.

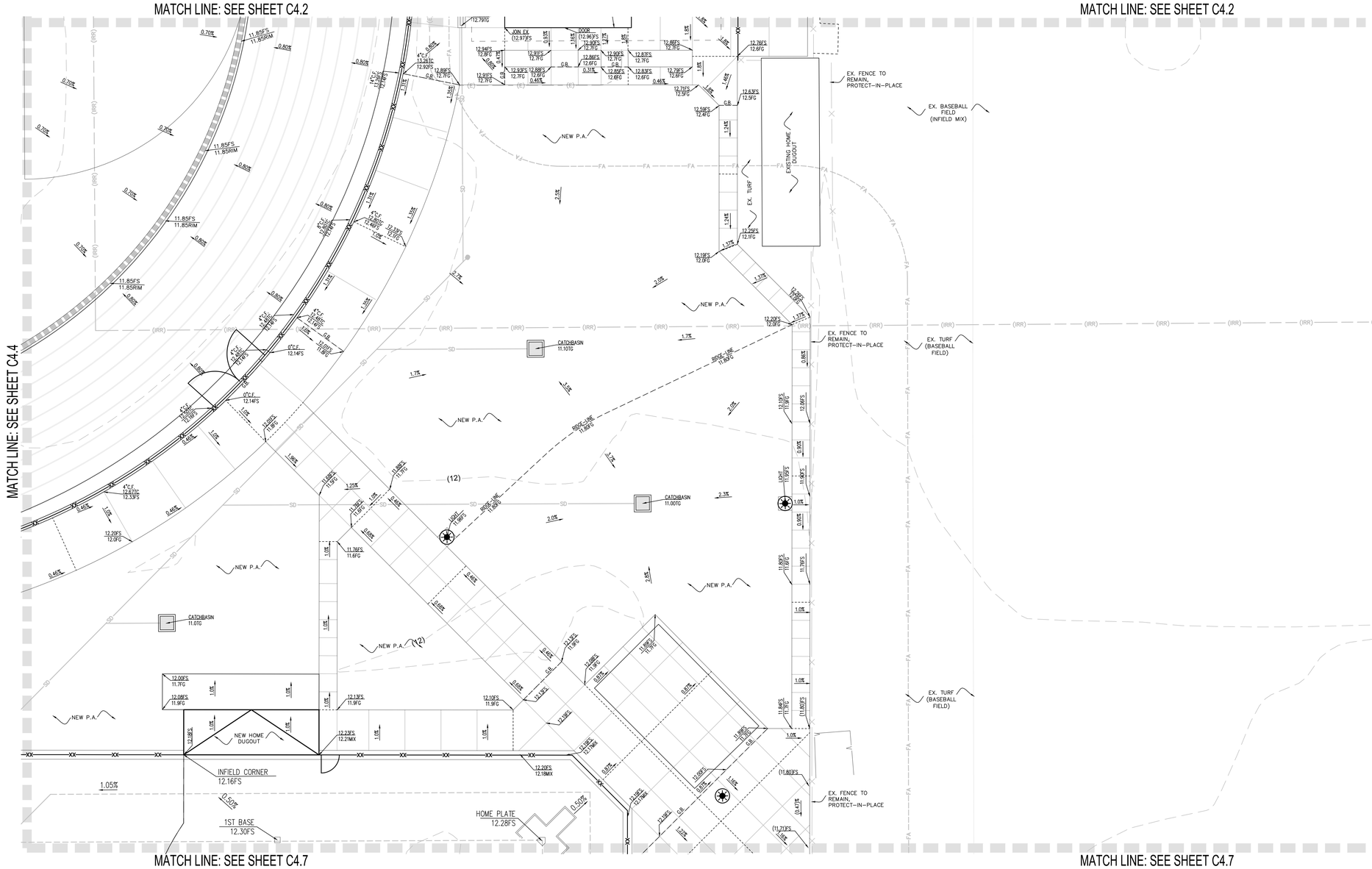
6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.4



LEGEND:

- EX. STORM DRAIN (SD)
- EX. GAS (G)
- EX. ELECTRIC (E)
- EX. WATER (W)
- EX. SEWER (S)
- EX. COMMUNICATIONS (COM)
- EX. IRRIGATION MAIN LINE (IRR)
- EX. OVERHEAD ELECTRICAL OH-E
- EX. FIRE ALARM FA
- NEW SOLID STORM DRAIN SD
- NEW PERF. STORM DRAIN
- NEW MULTI-FLOW PIPE

NORTH

SCALE=1"=10'

0 5 10 20 30

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PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

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PROJECT MANAGER
BB

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SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS +
GATEWAY IMPROVEMENTS

PROJECT NO.

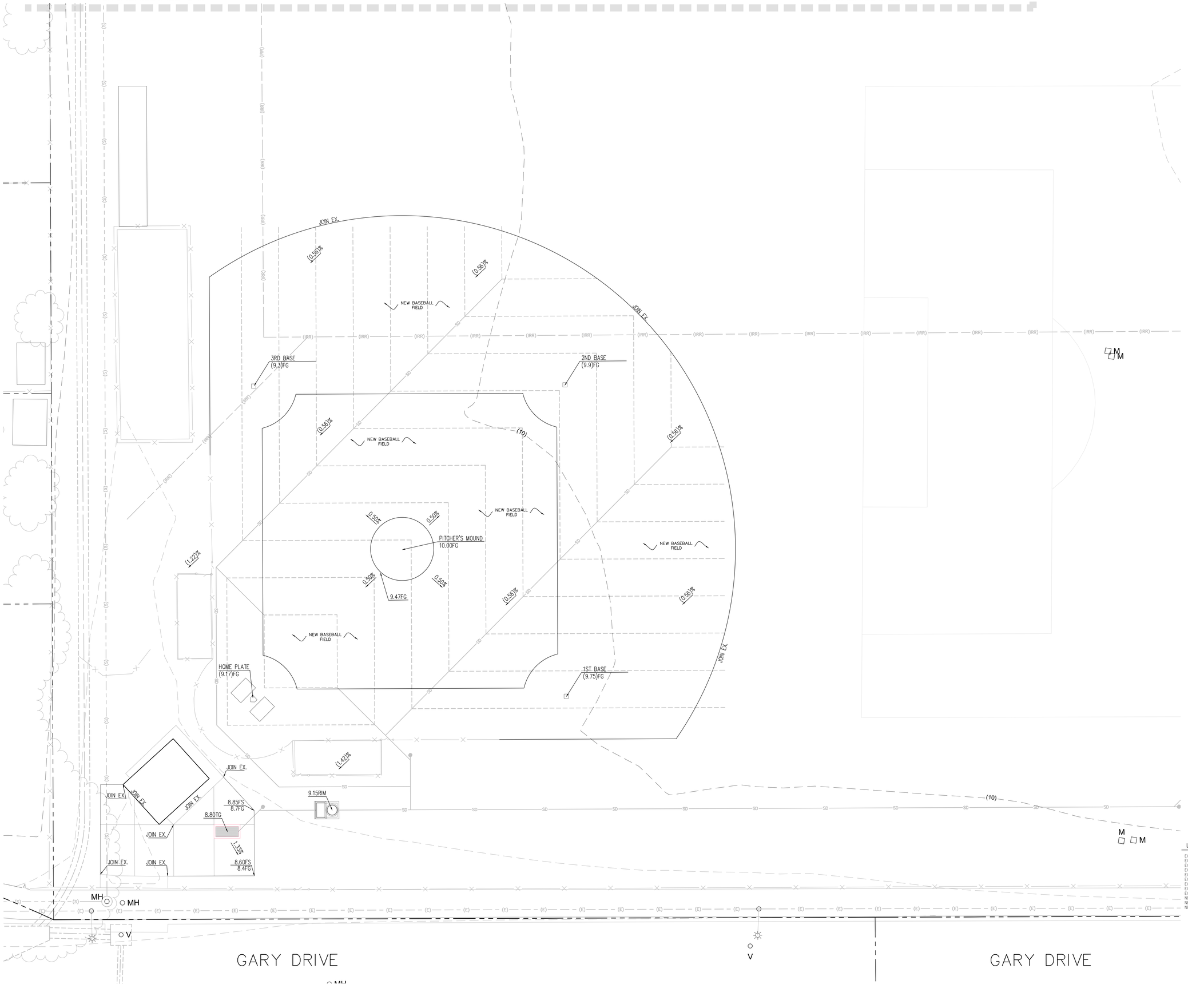
6121235305

SHEET TITLE

GRADING
PLAN

SHEET NUMBER

C4.5



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BARBIN BET GOVARDEZ
C 81751
EXP. 03/31/20
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. C12955
REN. 11-30-21
STATE OF CALIFORNIA

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BB

PROJECT MANAGER
BB

DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

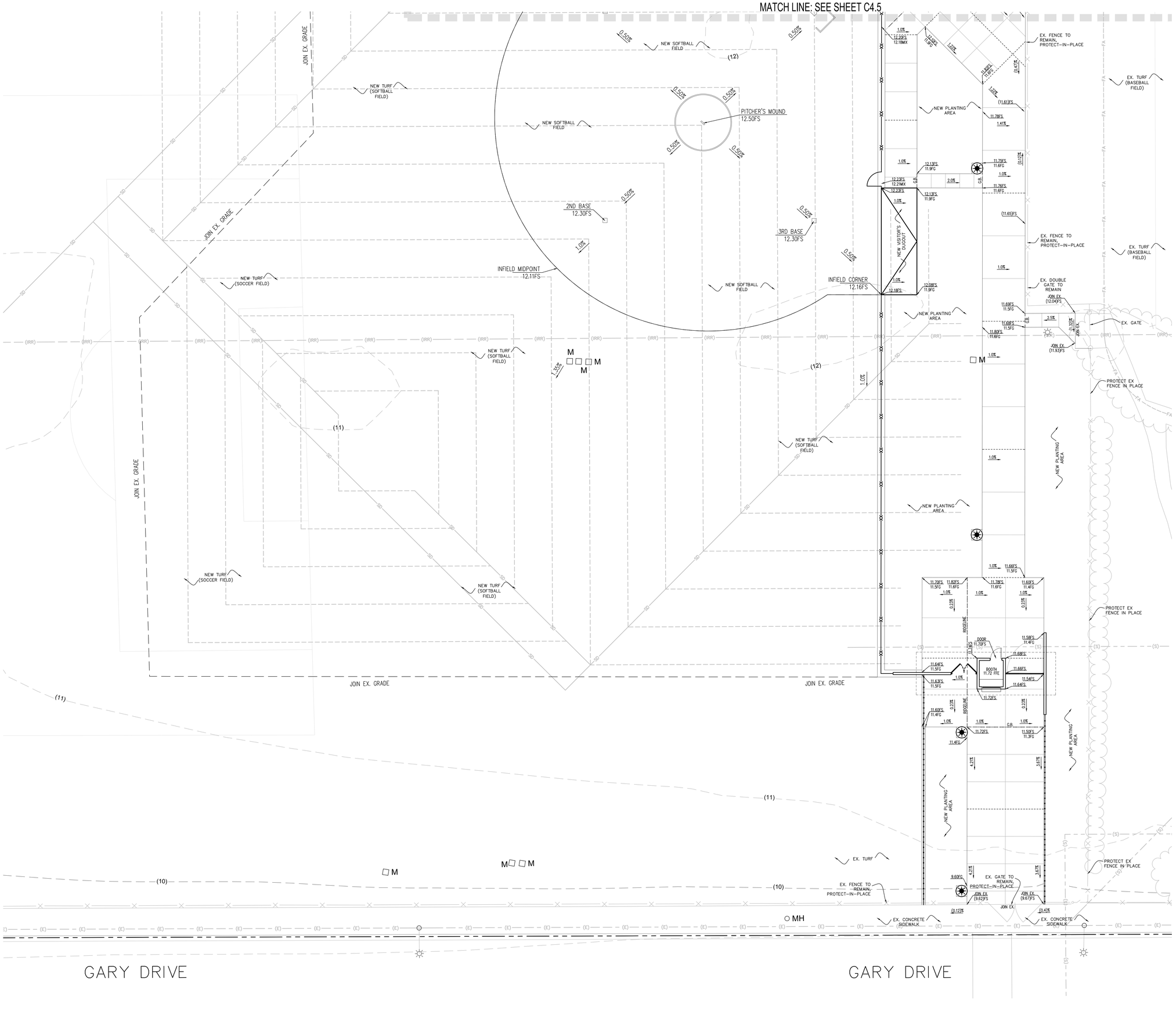
6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.6



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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PROJECT NAME

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PROJECT NO.

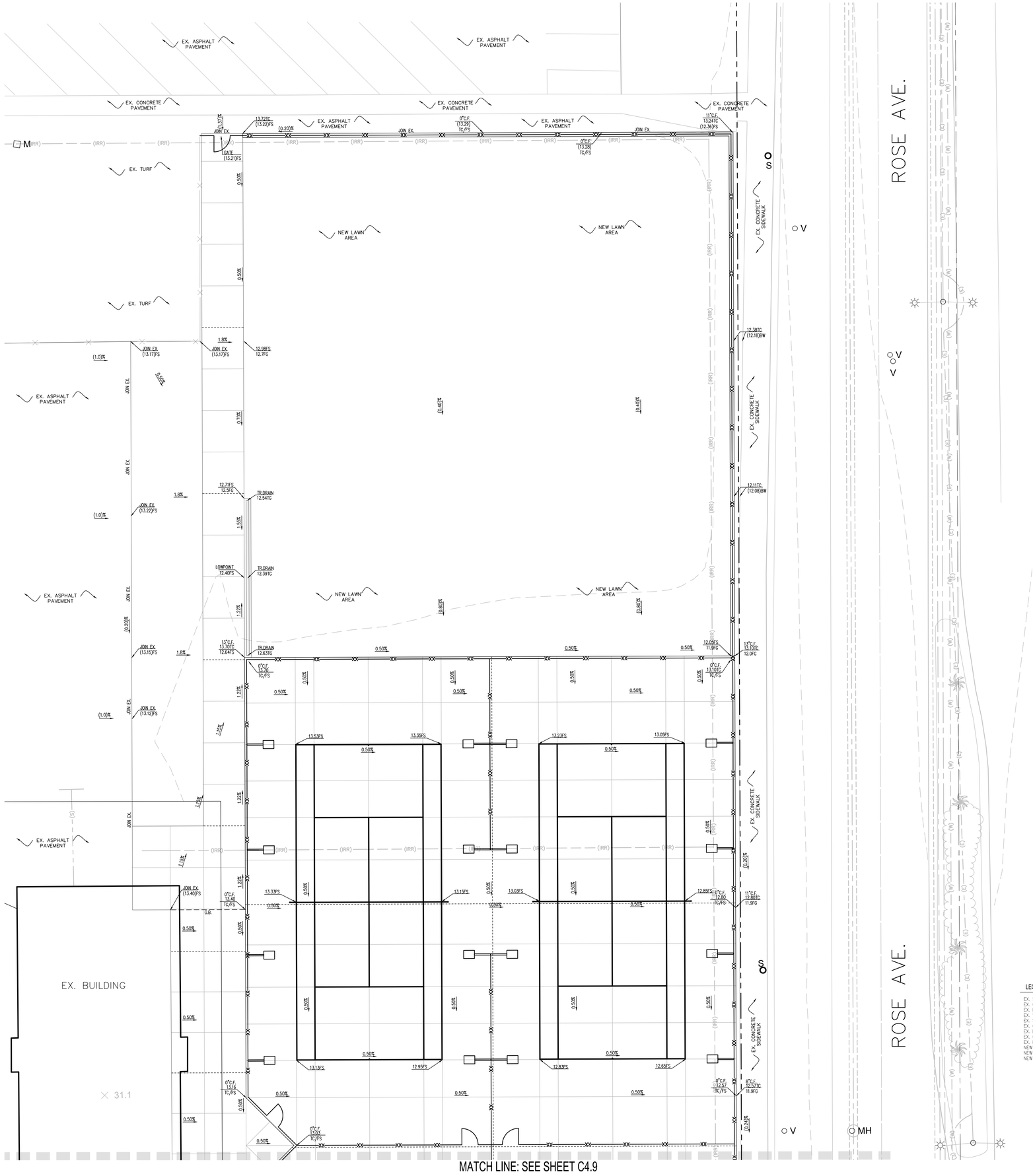
6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.7



MATCH LINE: SEE SHEET C4.9

LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E) (E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH–E
EX. FIRE ALARM	FA FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI–FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BARRY REY GUARINO
C 81726
EXP 6-30-21
CIVIL
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
KAY R. KYLE
No. C12995
REN. 11-30-21
STATE OF CALIFORNIA

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BB

PROJECT MANAGER
BB

DESIGN TEAM
SA, ML, VS, AT

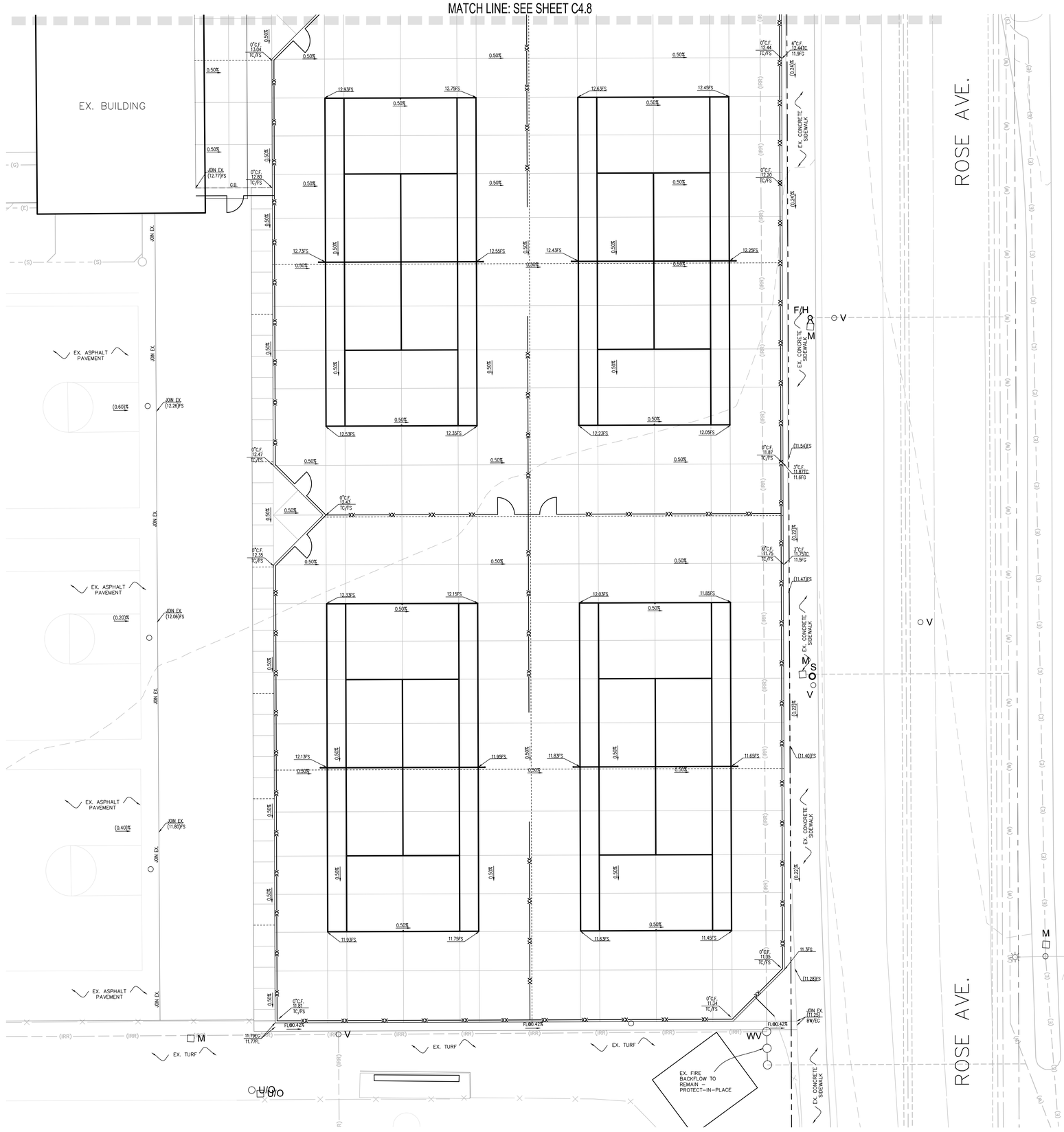
PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C4.8

MATCH LINE: SEE SHEET C4.8



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA
NEW SOLID STORM DRAIN	SD
NEW PERF. STORM DRAIN	
NEW MULTI-FLOW PIPE	

NORTH

SCALE=1"=10'

0 5 10 20 30

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EXP. 03/31/20
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DESIGN TEAM
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PROJECT NO.

6121235305

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C4.9

STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

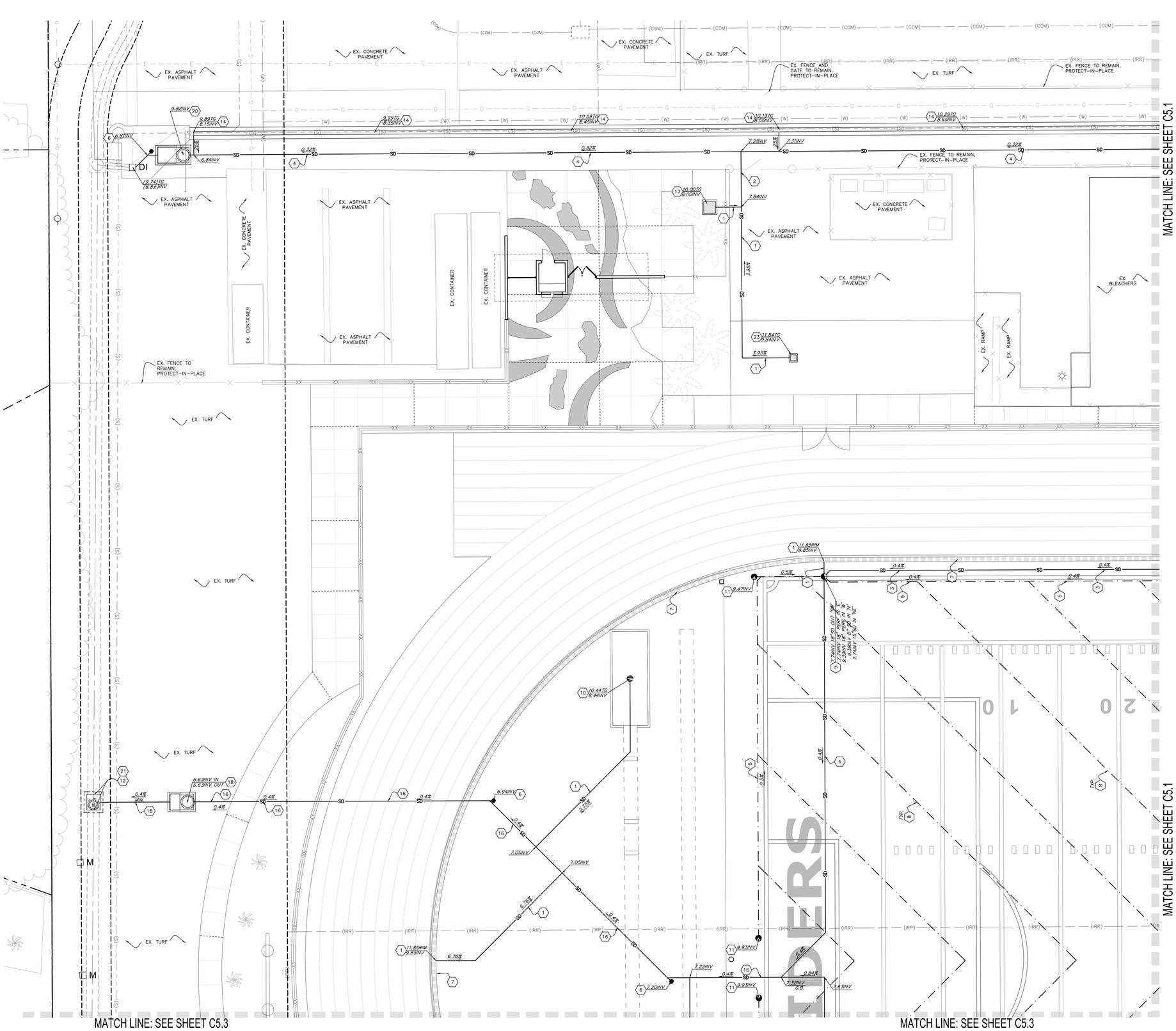
1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	10/C5.1
7	NEW TRACK TRENCH DRAIN	1/C5.1
8	NEW FLAT PANEL DRAIN	6/C5.1
9	NEW JUNCTION BOX (JB) PER DETAIL '9/C1.1' OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9/C5.1
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL '15/C1.1' OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15/C5.1
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	11/C5.1
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	12/C5.1
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	20/C5.1
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	5/C5.1
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-3" + 2'-2", MAX V = 4'; t = 6"	18/C5.1
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	8/C5.1
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-6. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	23/C5.1
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF. ROCK SHAFT DIAMETER = 6'. SEE DETAIL '23/C1.2'. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW.	23/C5.1
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	23/C5.1
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	22/C5.1
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL '17/C1.1'.	

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH-E
EX. FIRE ALARM FA



AGENCY REVIEW

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APP. 03-120287 INC:
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DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BRANDON BET GOVARE C 81751 EXP. 3-31-20 CIVIL STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT CHRISTYNE LITTLE LIC. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
STORM DRAIN PLAN

SHEET NUMBER
C5.0

STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	10 / C11.1
7	NEW TRACK TRENCH DRAIN	3 / C11.1
8	NEW FLAT PANEL DRAIN	5 / C11.1
9	NEW JUNCTION BOX (JB) PER DETAIL '9/C1.1' OR NEW NYLOPLAST BASIN. INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9 / C11.1
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL '15/C1.1' OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 / C11.1
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	11 / C11.1
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	21 / C11.2
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	23 / C11.2
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	20 / C11.2
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-3½" + 2'-2"; MAX.V = 4'; t = 6"	18 / C11.2
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	20 / C11.2
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSB8-4-6. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	13 / C11.2
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF. ROCK SHAFT DIAMETER = 6". SEE DETAIL '23/C1.2'. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW.	23 / C11.2
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSB8-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	13 / C11.2
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	21 / C11.2
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL '17/C1.1'.	

MATCH LINE: SEE SHEET C5.0

MATCH LINE: SEE SHEET C5.2

MATCH LINE: SEE SHEET C5.4

MATCH LINE: SEE SHEET C5.4

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH–E
EX. FIRE ALARM FA

NORTH

SCALE=1"=10'

0 5 10 20 30

AGENCY REVIEW

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SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BASHIR BET GOMAA
C 51251
EXP. 06-30-21
CIVIL
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
MATTHEW R. LITTLE
No. C12905
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR

DSA SUBMITTAL SET

ISSUE DATE

03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS +
GATEWAY IMPROVEMENTS

PROJECT NO.

6121235305

SHEET TITLE

STORM DRAIN
PLAN

SHEET NUMBER

C5.1

STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	18 / C1.1
7	NEW TRACK TRENCH DRAIN	7 / C1.1
8	NEW FLAT PANEL DRAIN	8 / C1.1
9	NEW JUNCTION BOX (JB) PER DETAIL '9/C1.1' OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9 / C1.1
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL '15/C1.1' OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 / C1.1
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	12 / C1.1
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	27 / C1.2
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	26 / C1.2
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	25 / C1.2
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-$\frac{3}{8}$" + 2'-2"; MAX V = 4'; t = 6"	24 / C1.2
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	29 / C1.2
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-6 INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	10 / C1.1
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF. ROCK SHAFT DIAMETER = 6". SEE DETAIL '23/C1.2'. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW	23 / C1.2
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	30 / C1.3
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	27 / C1.2
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL '13/C1.1'.	

NOTES:

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2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
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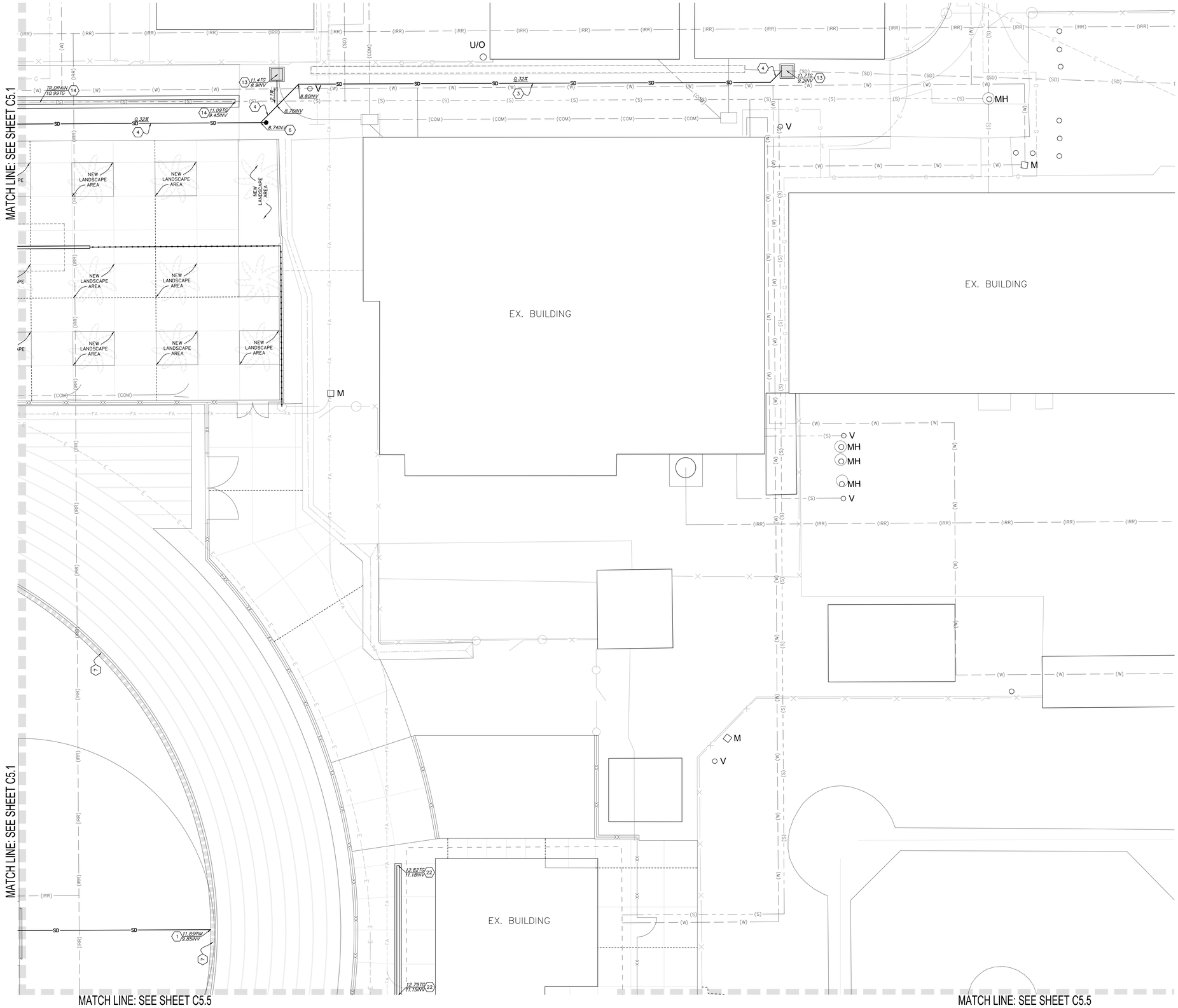
EX. FIRE ALARM FA



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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
JAY B. BYRNE
No. C12905
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
STORM DRAIN PLAN

SHEET NUMBER
C5.2

STORM DRAIN LEGEND:

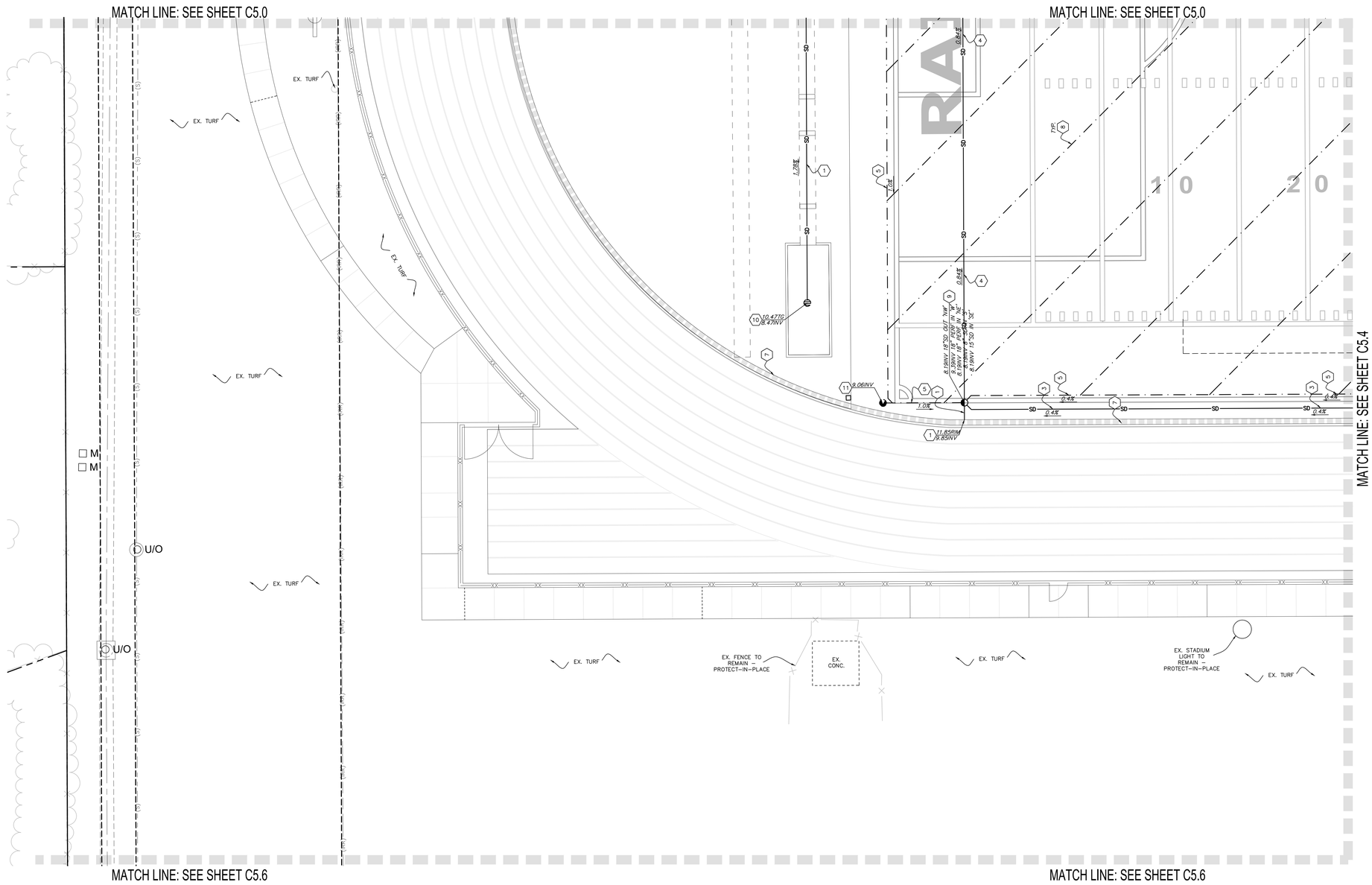
	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	18 / 211
7	NEW TRACK TRENCH DRAIN	7 / 211
8	NEW FLAT PANEL DRAIN	8 / 211
9	NEW JUNCTION BOX (JB) PER DETAIL "9/C1.1" OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9 / 211
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL "15/C1.1" OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 / 211
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	12 / 211
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	2 / 212
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	20 / 212
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	23 / 212
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-3" + 2'-2", MAX.V = 4'; t = 6"	8 / 212
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	25 / 212
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT. MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 / 213
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF. ROCK SHAFT DIAMETER = 6". SEE DETAIL "23/C1.2". SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW.	9 / 212
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT. MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 / 213
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	22 / 212
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL "7/C1.1".	

LEGEND:

EX. STORM DRAIN ——— (SD) ———
EX. GAS ——— (G) ———
EX. ELECTRIC —— (E) —— (E) ——
EX. WATER ——— (W) ———
EX. SEWER ——— (S) ———
EX. COMMUNICATIONS ——— (COM) ———
EX. IRRIGATION MAIN LINE ——— (IRR) ———
EX. OVERHEAD ELECTRICAL ——— OH—E ———
EX. FIRE ALARM —— FA —— FA ——



NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

NORTH

SCALE=1"=10'

0 5 10 20 30

AGENCY REVIEW

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DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
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www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BARBARA BET GOVARIS C 81751 EXP 3-31-20 STATE OF CALIFORNIA CIVIL

SEAL

LICENSED ARCHITECT BARBARA BET GOVARIS LIC. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR

DSA SUBMITTAL SET

ISSUE DATE

03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

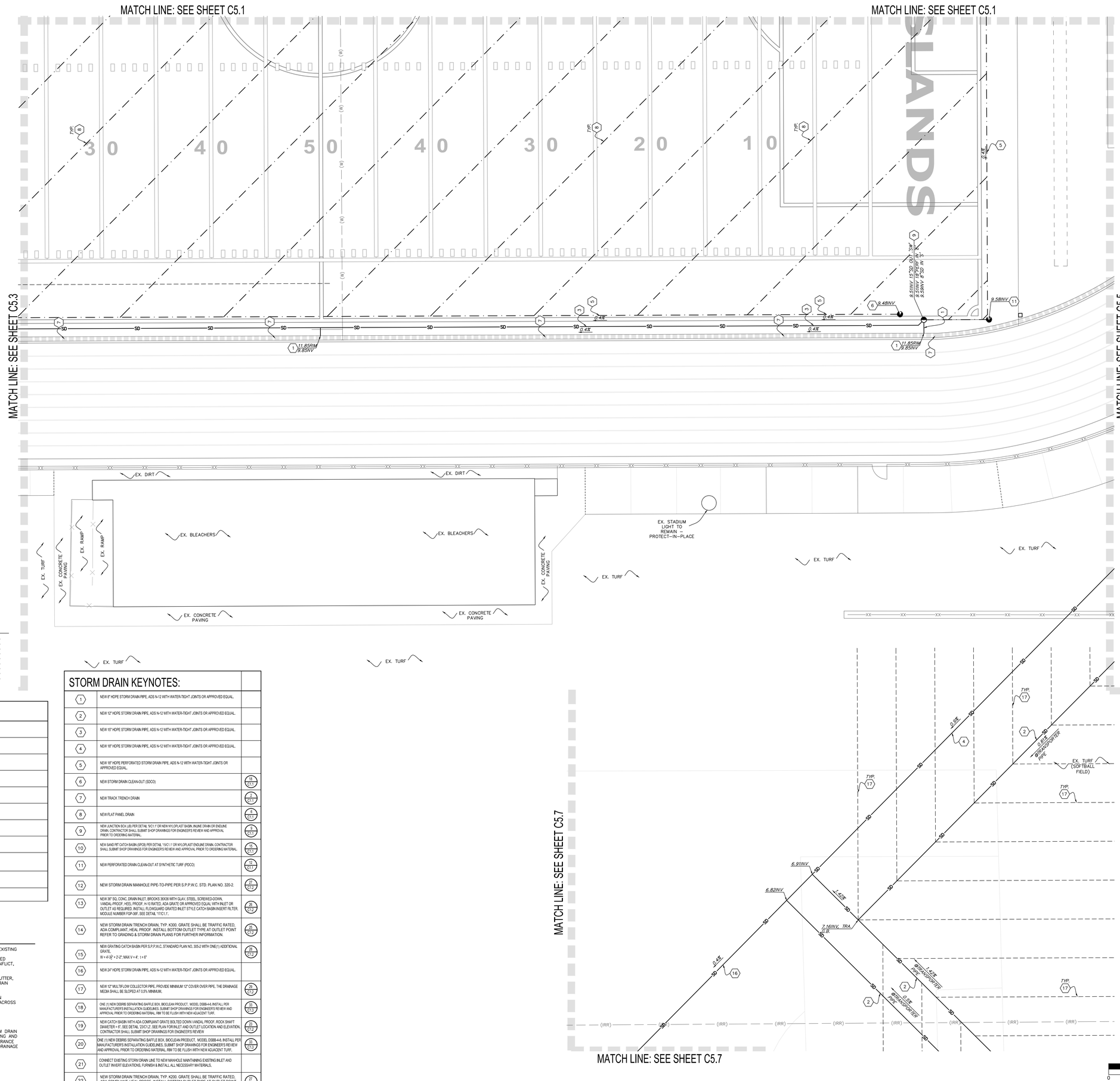
6121235305

SHEET TITLE

STORM DRAIN PLAN

SHEET NUMBER

C5.3



LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH–E
EX. FIRE ALARM	FA

STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	18 C11
7	NEW TRACK TRENCH DRAIN	2 C11
8	NEW FLAT PANEL DRAIN	6 C11
9	NEW JUNCTION BOX (JB) PER DETAIL 1/C1.1 OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	3 C11
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL 15/C1.1" OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 C11
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	12 C11
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	27 C13
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER, MODULE NUMBER FGP-36F. SEE DETAIL 17/C1.1".	26 C14
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	20 C13
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-9" + 2'-0", MAX V = 4', t = 8"	28 C13
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	29 C13
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT. MODEL DSBB-4-6. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 C13
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF, ROCK SHAFT DIAMETER = 8". SEE DETAIL 22/C1.2. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW	23 C12
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT. MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 C13
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	27 C13

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www.littleonline.com

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BRIAN R. BET GOUGIAN C 51251 EXP. 12-31-20 CIVIL STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT KAY K. FITE No. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

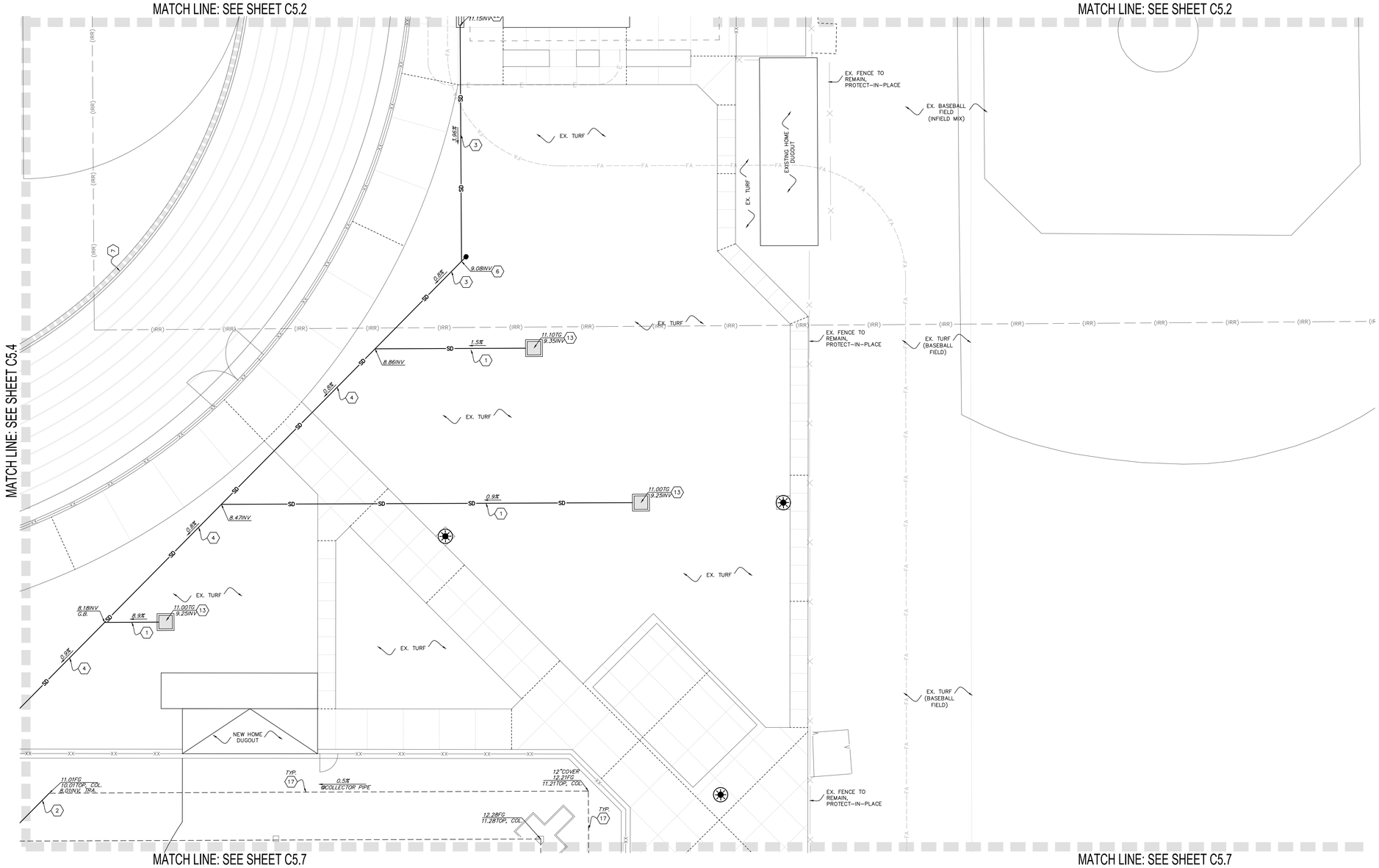
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
STORM DRAIN PLAN

SHEET NUMBER
C5.4



STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	18 / D1.1
7	NEW TRACK TRENCH DRAIN	7 / D1.1
8	NEW FLAT PANEL DRAIN	8 / D1.1
9	NEW JUNCTION BOX (JB) PER DETAIL '9/C1.1' OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9 / D1.1
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL '15/C1.1' OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 / D1.1
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	13 / D1.1
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	27 / D1.2
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	26 / D1.2
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	25 / D1.2
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-3½" + 2'-2", MAX V = 4', t = 6"	28 / D1.2
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	29 / D1.2
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-6. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF	32 / D1.3
19	NEW CATCH BASIN WITH ADA-COMPLIANT GRATE BOLTED DOWN VANDAL PROOF, ROCK SHAFT DIAMETER = 6". SEE DETAIL '23/C1.2'. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW	23 / D1.2
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	31 / D1.3
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	27 / D1.2
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL '17/C1.1'.	

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

LEGEND:

EX. STORM DRAIN (SD)
EX. GAS (G)
EX. ELECTRIC (E)
EX. WATER (W)
EX. SEWER (S)
EX. COMMUNICATIONS (COM)
EX. IRRIGATION MAIN LINE (IRR)
EX. OVERHEAD ELECTRICAL OH-E
EX. FIRE ALARM FA

NORTH

SCALE=1"=10'

0 5 10 20 30

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
LAURY B. BYE
No. C12935
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

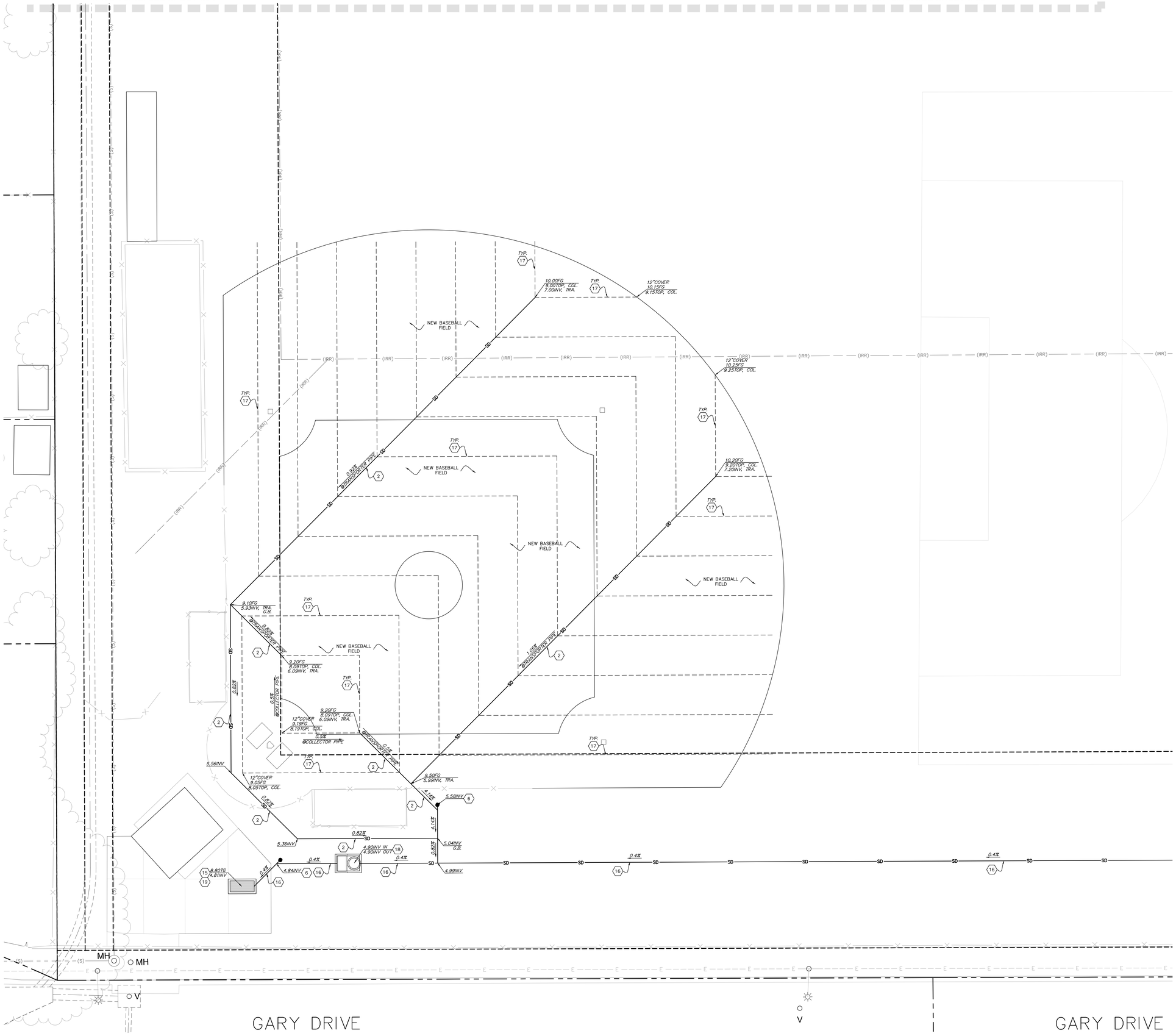
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
STORM DRAIN PLAN

SHEET NUMBER
C5.5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MATCH LINE: SEE SHEET C5.3
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NEW BASEBALL FIELD
NEW BASEBALL FIELD
NEW BASEBALL FIELD
NEW BASEBALL FIELD
10.00FG
9.20TOP. COL.
7.00INV. TRA.
12"COVER
10.15FG
9.15TOP. COL.
12"COVER
10.25FG
9.25TOP. COL.
10.20FG
9.20TOP. COL.
7.20INV. TRA.
9.10FG
5.93INV. TRA.
C.B.
9.20FG
8.09TOP. COL.
6.09INV. TRA.
9.20FG
8.09TOP. COL.
6.09INV. TRA.
12"COVER
9.19FG
8.19TOP. COL.
12"COVER
9.05FG
8.05TOP. COL.
9.50FG
5.99INV. TRA.
5.58INV
5.04INV
C.B.
4.99INV
4.84INV
4.90INV IN
4.90INV OUT
5.36INV
5.56INV
8.80TG
4.81INV
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0.4% SD
4.1% SD
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0.4% SD
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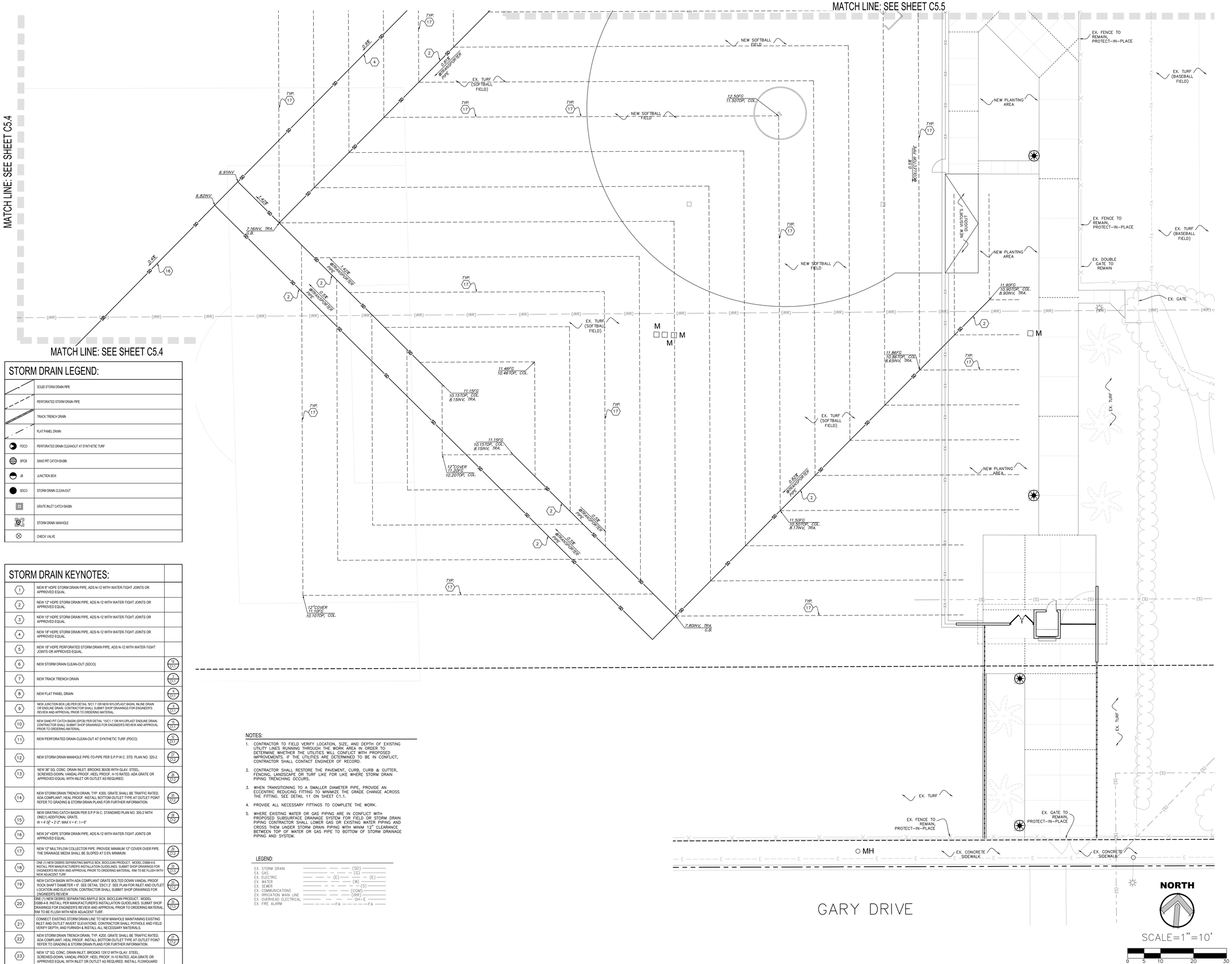
4.1

MATCH LINE: SEE SHEET C5.4

MATCH LINE: SEE SHEET C5.5



STORM DRAIN LEGEND:

	SOLID STORM DRAIN PIPE
	PERFORATED STORM DRAIN PIPE
	TRACK TRENCH DRAIN
	FLAT PANEL DRAIN
PDCO	PERFORATED DRAIN CLEANOUT AT SYNTHETIC TURF
SPCB	SAND PIT CATCH BASIN
JB	JUNCTION BOX
SDCO	STORM DRAIN CLEAN-OUT
	GRATE INLET CATCH BASIN
	STORM DRAIN MANHOLE
	CHECK VALVE

STORM DRAIN KEYNOTES:

1	NEW 8" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
2	NEW 12" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
3	NEW 15" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
4	NEW 18" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
5	NEW 18" HDPE PERFORATED STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
6	NEW STORM DRAIN CLEAN-OUT (SDCO)	18 / C11
7	NEW TRACK TRENCH DRAIN	2 / C11
8	NEW FLAT PANEL DRAIN	6 / C11
9	NEW JUNCTION BOX (JB) PER DETAIL '9/C1.1' OR NEW NYLOPLAST BASIN, INLINE DRAIN OR ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	9 / C11
10	NEW SAND PIT CATCH BASIN (SPCB) PER DETAIL '15/C1.1' OR NYLOPLAST ENDLINE DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.	15 / C11
11	NEW PERFORATED DRAIN CLEAN-OUT AT SYNTHETIC TURF (PDCO)	12 / C11
12	NEW STORM DRAIN MANHOLE PIPE-TO-PIPE PER S.P.P.W.C. STD. PLAN NO. 320-2.	27 / C13
13	NEW 36" SQ. CONC. DRAIN INLET, BROOKS 36X36 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED.	26 / C13
14	NEW STORM DRAIN TRENCH DRAIN, TYP. K300. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	25 / C13
15	NEW GRATING CATCH BASIN PER S.P.P.W.C. STANDARD PLAN NO. 305-2 WITH ONE(1) ADDITIONAL GRATE. W = 4'-3" + 2'-2", MAX Y = 4', t = 8"	28 / C13
16	NEW 24" HDPE STORM DRAIN PIPE, ADS N-12 WITH WATER-TIGHT JOINTS OR APPROVED EQUAL.	
17	NEW 12" MULTIFLOW COLLECTOR PIPE. PROVIDE MINIMUM 12" COVER OVER PIPE. THE DRAINAGE MEDIA SHALL BE SLOPED AT 0.5% MINIMUM.	29 / C13
18	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-6. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 / C13
19	NEW CATCH BASIN WITH ADA COMPLIANT GRATE BOLTED DOWN VANDAL PROOF. ROCK SHAFT DIAMETER = 6". SEE DETAIL '23/C1.2'. SEE PLAN FOR INLET AND OUTLET LOCATION AND ELEVATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW.	23 / C13
20	ONE (1) NEW DEBRIS SEPARATING BAFFLE BOX, BIOCLEAN PRODUCT, MODEL DSBB-4-8. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL. RIM TO BE FLUSH WITH NEW ADJACENT TURF.	33 / C13
21	CONNECT EXISTING STORM DRAIN LINE TO NEW MANHOLE MAINTAINING EXISTING INLET AND OUTLET INVERT ELEVATIONS. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH, AND FURNISH & INSTALL ALL NECESSARY MATERIALS.	
22	NEW STORM DRAIN TRENCH DRAIN, TYP. K200. GRATE SHALL BE TRAFFIC RATED, ADA COMPLIANT, HEAL PROOF. INSTALL BOTTOM OUTLET TYPE AT OUTLET POINT REFER TO GRADING & STORM DRAIN PLANS FOR FURTHER INFORMATION.	24 / C13
23	NEW 12" SQ. CONC. DRAIN INLET, BROOKS 12X12 WITH GLAV. STEEL, SCREWED-DOWN, VANDAL-PROOF, HEEL PROOF, H-10 RATED, ADA GRATE OR APPROVED EQUAL WITH INLET OR OUTLET AS REQUIRED. INSTALL FLOWGUARD GRATED INLET STYLE CATCH BASIN INSERT FILTER. MODULE NUMBER FGP-12F. SEE DETAIL '17/C1.1'.	

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES RUNNING THROUGH THE WORK AREA IN ORDER TO DETERMINE WHETHER THE UTILITIES WILL CONFLICT WITH PROPOSED IMPROVEMENTS. IF THE UTILITIES ARE DETERMINED TO BE IN CONFLICT, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
2. CONTRACTOR SHALL RESTORE THE PAVEMENT, CURB, CURB & GUTTER, FENCING, LANDSCAPE OR TURF LIKE FOR LIKE WHERE STORM DRAIN PIPING TRENCHING OCCURS.
3. WHEN TRANSITIONING TO A SMALLER DIAMETER PIPE, PROVIDE AN ECCENTRIC REDUCING FITTING TO MINIMIZE THE GRADE CHANGE ACROSS THE FITTING. SEE DETAIL 11 ON SHEET C1.1.
4. PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK.
5. WHERE EXISTING WATER OR GAS PIPING ARE IN CONFLICT WITH PROPOSED SUBSURFACE DRAINAGE SYSTEM FOR FIELD OR STORM DRAIN PIPING CONTRACTOR SHALL LOWER GAS OR EXISTING WATER PIPING AND CROSS THEM UNDER STORM DRAIN PIPING WITH MINIM 12" CLEARANCE BETWEEN TOP OF WATER OR GAS PIPE TO BOTTOM OF STORM DRAINAGE PIPING AND SYSTEM.

LEGEND:

EX. STORM DRAIN	(SD)
EX. GAS	(G)
EX. ELECTRIC	(E)
EX. WATER	(W)
EX. SEWER	(S)
EX. COMMUNICATIONS	(COM)
EX. IRRIGATION MAIN LINE	(IRR)
EX. OVERHEAD ELECTRICAL	OH-E
EX. FIRE ALARM	FA

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APP. 03-120287 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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Little 2019

CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
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SEAL

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NO. C12905
REN. 11-30-21
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DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

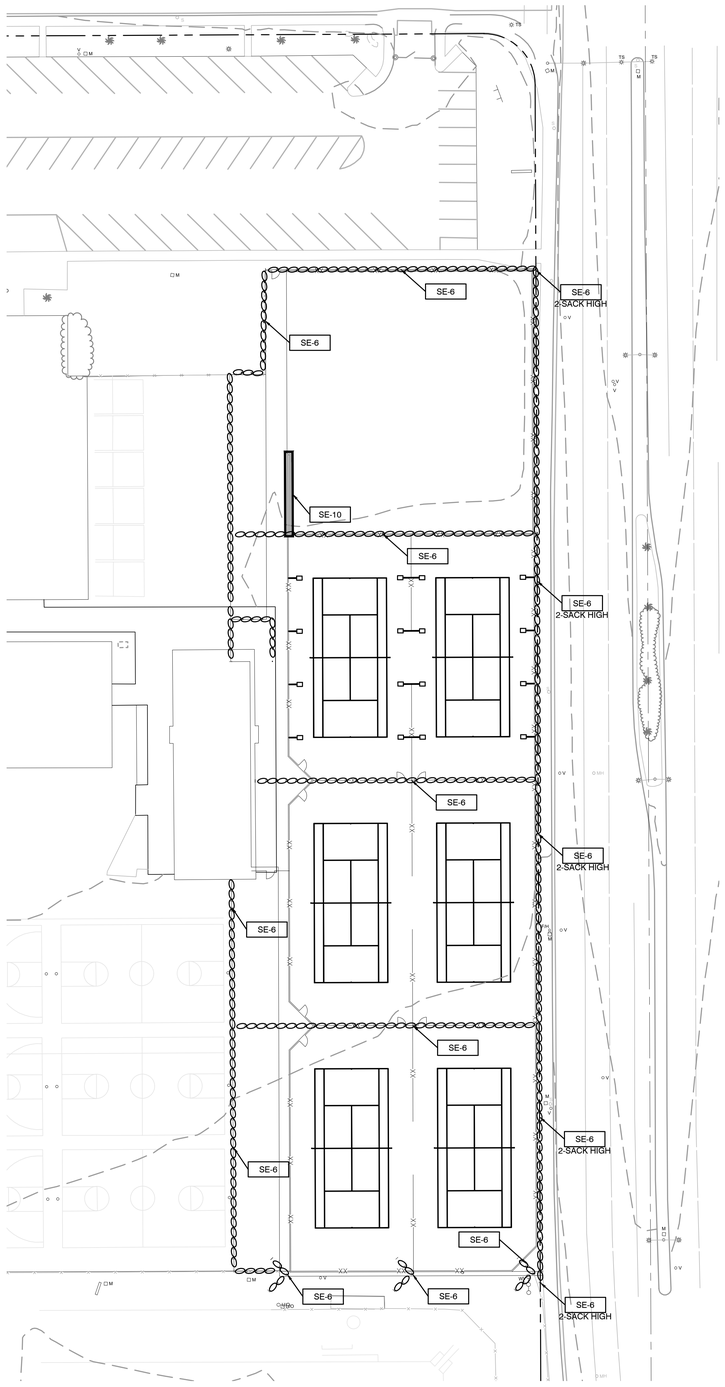
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
STORM DRAIN PLAN

SHEET NUMBER
C5.7



CONTRACTOR TO INCLUDE IN THEIR BID (SWPPP)

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE SWPPP.; SUBMIT IT TO THE STATE WATER QUALITY BOARD, OBTAIN NOI (NOTICE OF INTENT), AND PAY THE NECESSARY FEES FOR THE PERMIT. SWPPP MUST BE PREPARED BY A CERTIFIED QSD

IT WILL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A CERTIFIED "QSP" FOR SWPPP OBSERVATIONS AND FILLING ALL NECESSARY REPORTS THROUGH "SMART" WITH THE STATE WATER QUALITY BOARD THROUGHOUT THE LIFE OF THE PROJECT TILL IT IS COMPLETED. CONTRACTOR'S "QSP" SHALL FILE THE NOI (NOTICE OF INTENT).

NOTES

1. PROTECT ALL INLETS AT IMMEDIATE VICINITY OF WORK AREA, WHETHER OR NOT SHOWN ON THIS PLAN, WITH SE-10.
2. THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. REFER TO GRADING PLAN FOR ELEVATIONS.
3. DURING THE CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH VENTURA COUNTY EROSION CONTROL AND SEDIMENT CONTROL REQUIREMENTS AT ALL TIMES.
4. ANY CHANGES TO BMPs ON THIS DRAWINGS SHALL BE COORDINATED WITH PROJECT ENGINEER.

NOTES:

STORM WATER POLLUTION CONTROL REQUIREMENT FOR GRADING CONSTRUCTION. THE FOLLOWING BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER QUALITY ASSOCIATION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT.

THE BMP'S SHOWN ON THIS PLAN REPRESENT THE MINIMUM THAT SHALL BE REQUIRED, ADDITIONAL MEASURES MAY BE NECESSARY IF DEEMED APPROPRIATE BY FIELD ENGINEER.

WM-1 : MATERIAL DELIVERY AND STORAGE
WM-2 : MATERIAL USE
WM-3 : STOCKPILE MANAGEMENT
WM-4 : SPILL PREVENTION AND CONTROL
WM-5 : SOLID WASTE MANAGEMENT
WM-6 : HAZARDOUS WASTE MANAGEMENT
WM-8 : CONCRETE WASTE MANAGEMENT
WM-9 : SANITARY/SEPTIC WASTE MANAGEMENT

SE-1 : SILT FENCE
SE-5 : FIBER ROLLS
SE-6 : GRAVEL BAG BERM
SE-7 : STREET SWEEPING AND VACUUMING
SE-10 : STORM DRAIN INLET PROTECTION
SE-9 : STRAW BALE BARRIER

NS-1 : WATER CONSERVATION PRACTICES
NS-3 : PAVING AND GRADING OPERATIONS
NS-6 : ILLICIT CONNECTION/DISCHARGE
NS-7 : POTABLE WATER/IRRIGATION
NS-8 : VEHICLE AND EQUIPMENT CLEANING
NS-9 : VEHICLE AND EQUIPMENT FUELING
NS-10 : VEHICLE AND EQUIPMENT MAINTENANCE
NS-12 : CONCRETE CURING
NS-13 : CONCRETE FINISHING

TC-1 : STABILIZED CONSTRUCTION ENTRANCE
TC-3 : ENTRANCE/OUTLET TIRE WASH

EC-1 : SCHEDULING
EC-2 : PRESERVATION OF EXISTING VEGETATION

WE-1 : WIND EROSION CONTROL

EROSION CONTROL NOTES: (AS APPLIES)

1) IN CASE OF AN EMERGENCY, CALL POUL HANSON (805) 718-2614.
2) A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES.
3) EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT.
4) ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY IN THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, AND AT ANY OTHER PERIOD WHEN THE WEATHER FORECAST INDICATES A GREATER THAN 50% PROBABILITY OF RAIN.
5) AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS. ANY GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED IMMEDIATELY.
6) FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
7) A SIX-FOOT HIGH PERIMETER FENCE OR A 24-HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS 18 INCHES.
8) THE ENGINEER OF RECORD IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE APPLICABLE AGENCY.
9) TEMPORARY EROSION DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE INSPECTOR SO DIRECTS THE WORK PROGRESS.
10) ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
11) WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
12) VELOCITY CHECK DAMS SHALL BE PROVIDED ACROSS THE OUTLETS OF ALL LOTS DRAINING INTO THE STREET.
13) ALL FILLS SHALL BE GRADED TO PROMOTE DRAINAGE AWAY FROM THE EDGE OF THE FILL.
14) STAND-BY CREWS SHALL BE ALERTED BY THE PERMITTEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
15) ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS FROM BOTTOM TO TOP WITH A DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SEWER TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS EXTENDING DOWNWARD, TWO SANDBAGS FROM THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVALS
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

16) VELOCITY CHECK DAMS SHALL BE PROVIDED IN ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED ABOVE. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF SANDBAGS, TIMBER, OR OTHER EROSION-RESISTANT MATERIALS APPROVED BY THE INSPECTOR, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS. PLASTIC BAGS SHALL NOT BE USED FOR SANDBAGS.
17) VELOCITY CHECK DAMS SHALL BE PROVIDED IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

18) AFTER SEWER AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOWS AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWN STREET.
19) EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS FORECAST AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 1 THRU APRIL 15).
20) ALL BASINS AND CHECK DAMS SHALL HAVE THE DEBRIS AND SILT REMOVED AFTER EACH STORM TO RESTORE THEIR CAPACITY.
21) SANDBAG SHALL BE STOCKPILED IN PARKWAY AT INTERVALS SHOWN PLANS, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE PUBLIC WORKS INSPECTOR SO DIRECTS.
22) BRUSH AND GROUND COVER MAY NOT BE REMOVED MORE THAN 10-FEET ABOVE FILLS BETWEEN OCTOBER 1 AND APRIL 15.
23) PLACEMENT OF DEVICES TO REDUCE EROSION DAMAGE WITHIN THE PROJECT MUST BE SHOWN ON THE PLAN. STOCKPILE LOCATIONS FOR MATERIALS SHALL ALSO BE INDICATED ON THE DRAWING.
24) OUTLET CONDITIONS FROM THE DESILTING BASIN SHALL NOT EXCEED DOWNSTREAM LIMITATIONS. THE OVERFLOW SHALL BE DESIGNED TO SAFELY PASS 1.5 TIMES THE 25-YEAR PEAK DISCHARGE.
25) A CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE CONSTRUCTION ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL CONSIST OF A BED OF 3/4" GRAVEL OF THE FOLLOWING MINIMUM DIMENSIONS: 15' WIDE, 30' LONG AND 12" DEEP. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO PLACING BASE FOR PAVING.
26) ALL SANDBAGS SHALL BE AMERICAN BUILDERS SUPPLY SIZE 18 MATERIAL OR EQUAL, WITH 10X12 WEAVE, 950 DENIER, 1200-HOUR U.V. RATING, OF MILK WHITE COLOR, AND SHOULD HAVE 1000 PER BALE.
27) 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.
28) STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
29) FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO 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.
30) NON-STORM WATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED AT THE PROJECT SITE.
31) 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.
32) TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
33) SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO 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 OTHER MEANS.
34) ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED.

LEGEND

GRAVEL BAG BERM

XX-X — FURNISH & INSTALL THE BMP PRACTICE PER THE REFERENCED DETAIL

GRAVEL BAG INLET PROTECTION

FIBER ROLLS

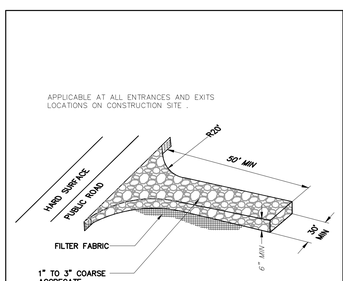
EXISTING CONTOURS, PROVIDED BY ARMSTRONG & BROOKS CONSULTING ENGINEERS, INC., ARE GENERATED BY AERIAL TOPO SURVEY, NOT FOOT SURVEY.

THIS EROSION CONTROL PLAN IS PREPARED USING CASQA DESIGN GUIDELINES AND BMPS FOR EROSION AND SENDIMENT CONTROL PLAN

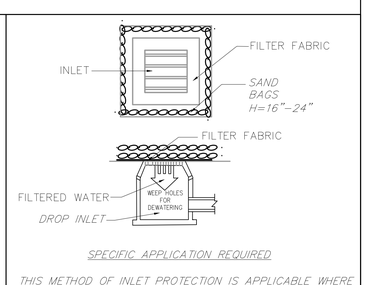
NORTH

SCALE=1"=30'

0 15 30 60 90



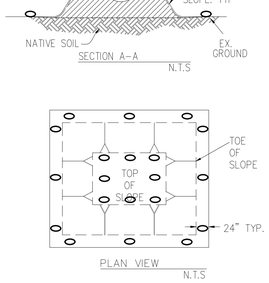
TC-1 | STABILIZED CONSTRUCTION ENTRANCE



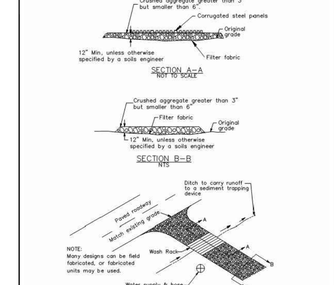
SPECIFIC APPLICATION REQUIRED

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVER FLOW CAPABILITY AND EASE OF MAINTENANCE ARE DESIRABLE.

SE-10 | DROP INLET



WM-3 | STOCK PILE MANAGEMENT



SE-6 | GRAVEL BAG BERM N.T.S.

TC-3 | ENTRANCE/OUTLET TIRE WASH

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CLIENT NAME
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PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
LIC. C12963
REN. 11-30-21
STATE OF CALIFORNIA

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DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

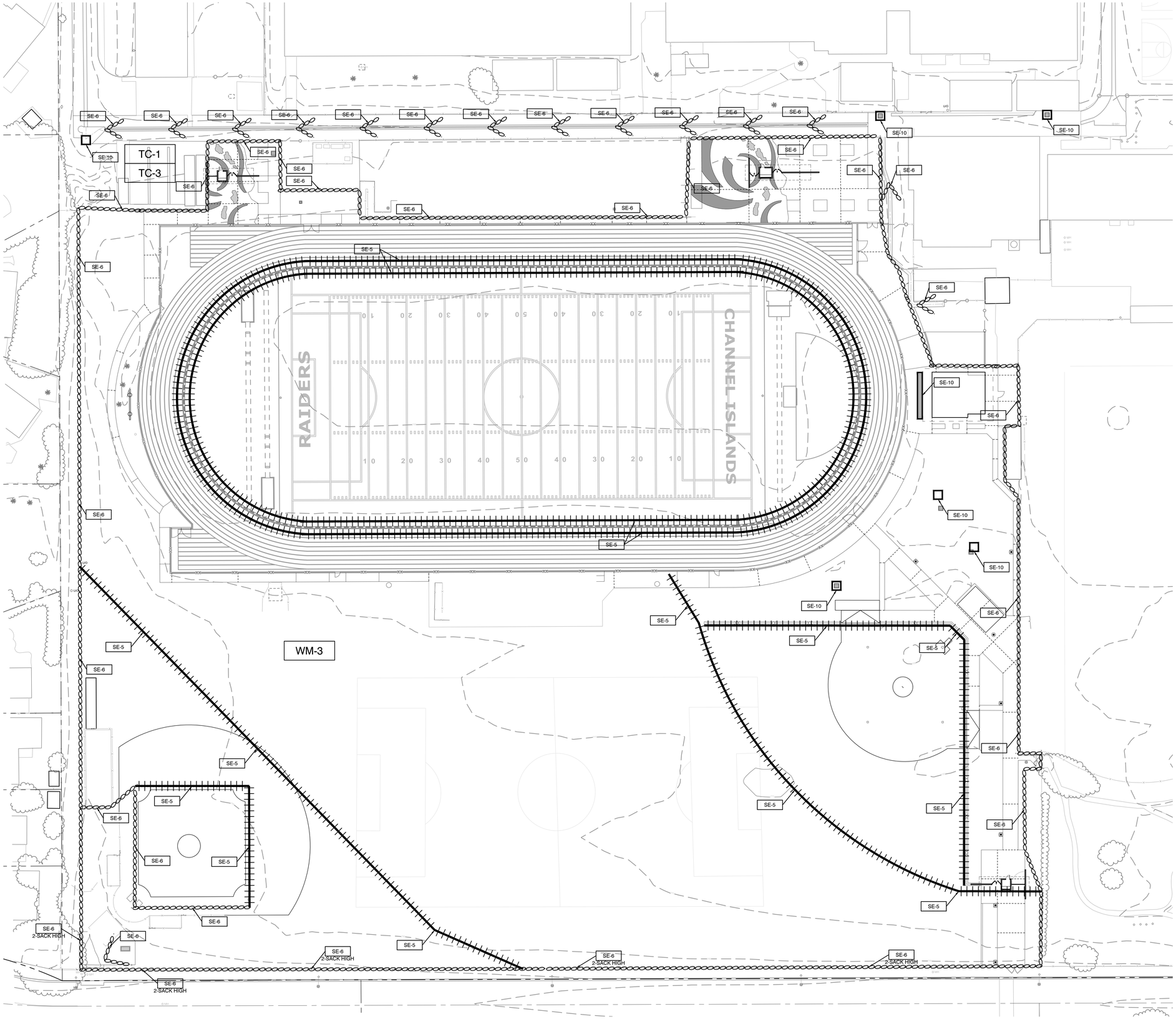
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
EROSION CONTROL PLAN

SHEET NUMBER
C6.0



REFER TO SHEET C6.0 FOR ALL NOTES AND DETAILS PERTAINING TO EROSION CONTROL PLAN

NORTH

SCALE=1"=30'

0 15 30 60 90

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PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

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PROJECT MANAGER
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SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

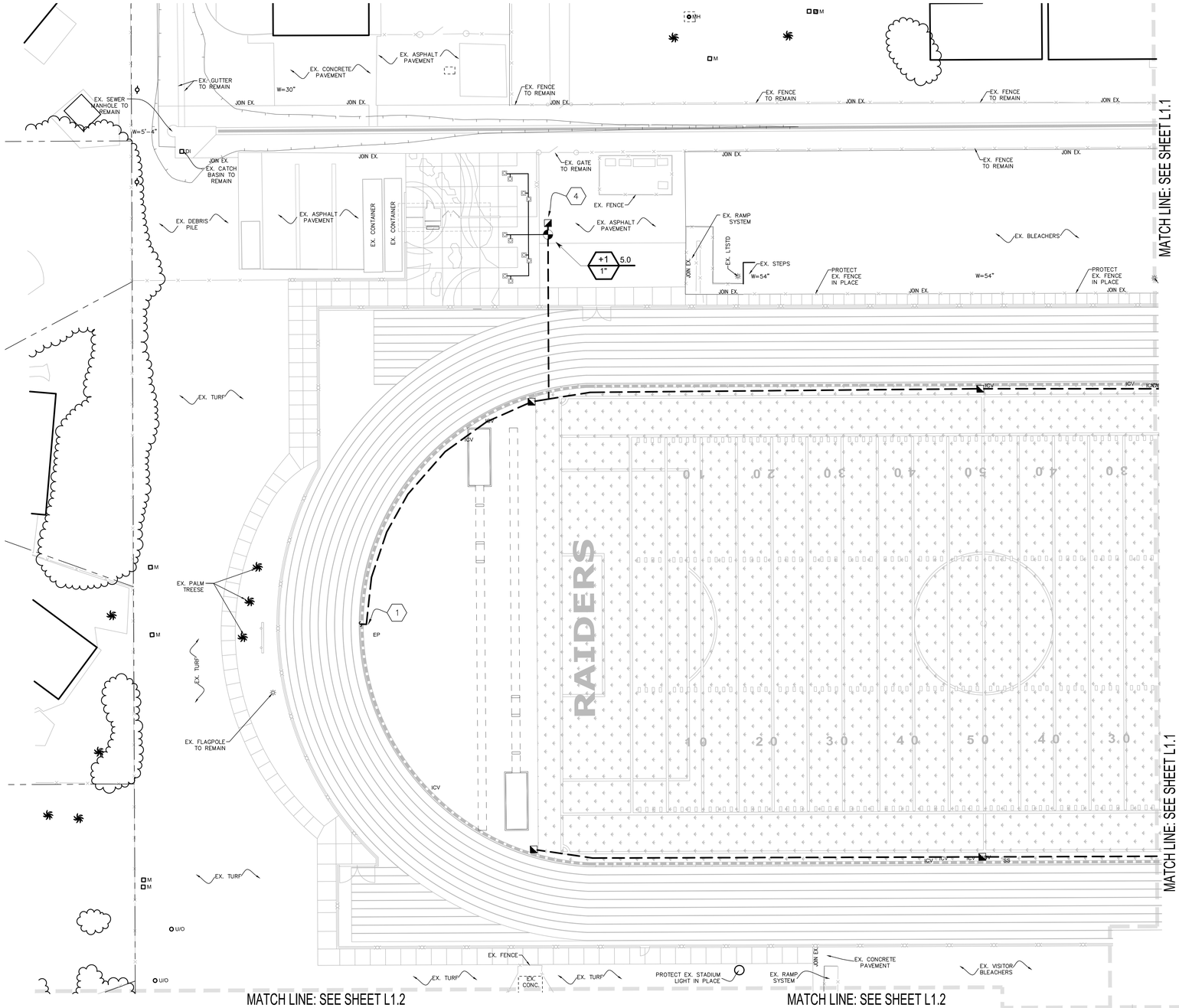
6121235305

SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

C6.1



1 PLAN AREA #1

IRRIGATION KEYNOTES:

1. CONNECT TO EXISTING IRRIGATION LINE - COMPLETE EXISTING LOOP VERIFY EXACT LOCATION IN THE FIELD.
2. PROVIDE NEW 1-1/2" DIA. X 100FT COMMERCIAL HOSE SHALL BE "RED 1-1/2" X 100FT NON-COLLAPSIBLE RUBBER HOSE W/ 1-1/2" NH COUPLINGS" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE
3. PROVIDE NEW 1-1/2" INDUSTRIAL WASHDOWN NOZZLE SHALL BE "BRASS 1-1/2" INDUSTRIAL WASHDOWN NOZZLE (NH)" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR APPROVED EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE.
4. PROVIDE AND INSTALL NEW BATTERY OPERATED CONTROLLER AT EACH NEW VALVE LOCATION. SHALL BE HUNTER NODE, MODEL AS NEEDED PER LOCATION FOR (1-4) STATIONS. INSTALL INSIDE ROUND VALVE BOX PER MANUFACTURER'S RECOMMENDATIONS.

IRRIGATION NOTES:

1. ALL LOCAL, MUNICIPAL AND STATE LAWS ARE HEREBY INCORPORATED INTO THESE PLANS AND SHALL BE CARRIED OUT BY THE CONTRACTOR.
3. THE CONTRACTOR IS EXPECTED TO SECURE COPIES OF THE CURRENT ARCHITECTURAL AND ENGINEERING PLANS AND FAMIALIRIZE THEMSELVES WITH ALL ASPECTS OF THE PROJECT AS IT RELATES TO THEIR SCOPE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY AND ALL PERMITS REQUIRED TO PERFORM THEIR SCOPE OF WORK.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO COMMENCING ANY WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LANDSCAPE ARCHITECT MAKES NO GUARANTEES ABOUT THEIR ACTUAL LOCATIONS. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT DISCREPANCIES ARE FOUND BETWEEN THE PLANS AND CONDITIONS IN THE FIELD.
6. THE IRRIGATION DESIGN SHOWN HERE-IN IS DIAGRAMMATIC AND SHOWN FOR GRAPHIC CLARITY ONLY. ALL MAINLINE, SLEEVING, VALVES, ETC. SHALL BE INSTALLED WITHIN THE LIMIT OF WORK AND LOCATED IN LANDSCAPE AREAS WHERE EVER POSSIBLE. CONTRACTOR WILL BE EXPECTED TO MAKE ADJUSTMENTS IN THE FIELD TO AVOID CONFLICTS WITH PROPOSED PLANTING AND ARCHITECTURAL IMPROVEMENTS.
7. CONTRACTOR SHALL INSTALL ALL PIPE UNDER PAVED AREAS (HARDSCAPE, PARKING LOTS, ETC.) INSIDE SLEEVING AS SHOWN ON THE LEGEND AND SPECIFICATIONS. INSTALL PER DETAILS PROVIDED. AT A MINIMUM, SLEEVES ARE TO BE 2X THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. SLEEVES SHALL EXTEND 6" MIN. PAST THE EDGE OF PAVED AREAS ABOVE.
8. IRRIGATION HEADS SHALL BE INSTALLED WITH THE NOZZLE, SCREEN, AND ARCS SHOWN ON THE LEGEND. CONTRACTOR IS EXPECTED TO PERFORM MINOR ADJUSTMENTS IN THE FIELD TO LIMIT THE AMOUNT OF OVER-SPRAY ONTO ANY HARDSCAPE ELEMENT. WHERE OCCURS, AND AT NO ADDITIONAL COST TO THE OWNER, CONTRACTOR IS HEREBY DIRECTED TO REPLACE NOZZLES, SCREENS, ETC. WITH MORE APPROPRIATE RADIUS EQUIPMENT TO BETTER FIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
9. THE CONTRACTOR WILL BE EXPECTED TO COORDINATE THE ELECTRICAL SERVICE AND STUB-OUT LOCATION WITH THE GENERAL CONTRACTOR AND MAKE THE FINAL CONNECTION TO THE AUTOMATIC CONTROLLER AS SHOWN ON THE PLANS.

SPECIAL REQUIREMENT:

EXISTING IRRIGATION BEING SERVED DOWNSTREAM OF THIS PROJECT WILL BE INTERRUPTED BY THIS WORK. CONTRACTOR SHALL PROVIDE AN ALLOWANCE TO SUPPLY TEMPORARY IRRIGATION SERVICE (VIA WATER TRUCK) FOR THE DURATION OF SERVICE INTERRUPTION. ENSURE REGULAR IRRIGATION OPERATIONS OCCUR AND HEALTH AND VIGOR OF EXISTING LANDSCAPE AREAS SERVED BY DOWNSTREAM MAINLINE ARE MAINTAINED. CONTRACTOR WILL BE RESPONSIBLE TO REPLACE EXISTING LANDSCAPE PLANTINGS DAMAGED DUE TO LACK OF IRRIGATION WATER DURING CONSTRUCTION OPERATIONS.

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NORTH

SCALE=1"=20'

0 10 20 40 60

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL A. LEGER 4502 03/31/20 STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT MATTHEW PAYNE LIC. C12965 REN. 11-30-21 STATE OF CALIFORNIA

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ISSUE DATE
03/09/20

REVISIONS

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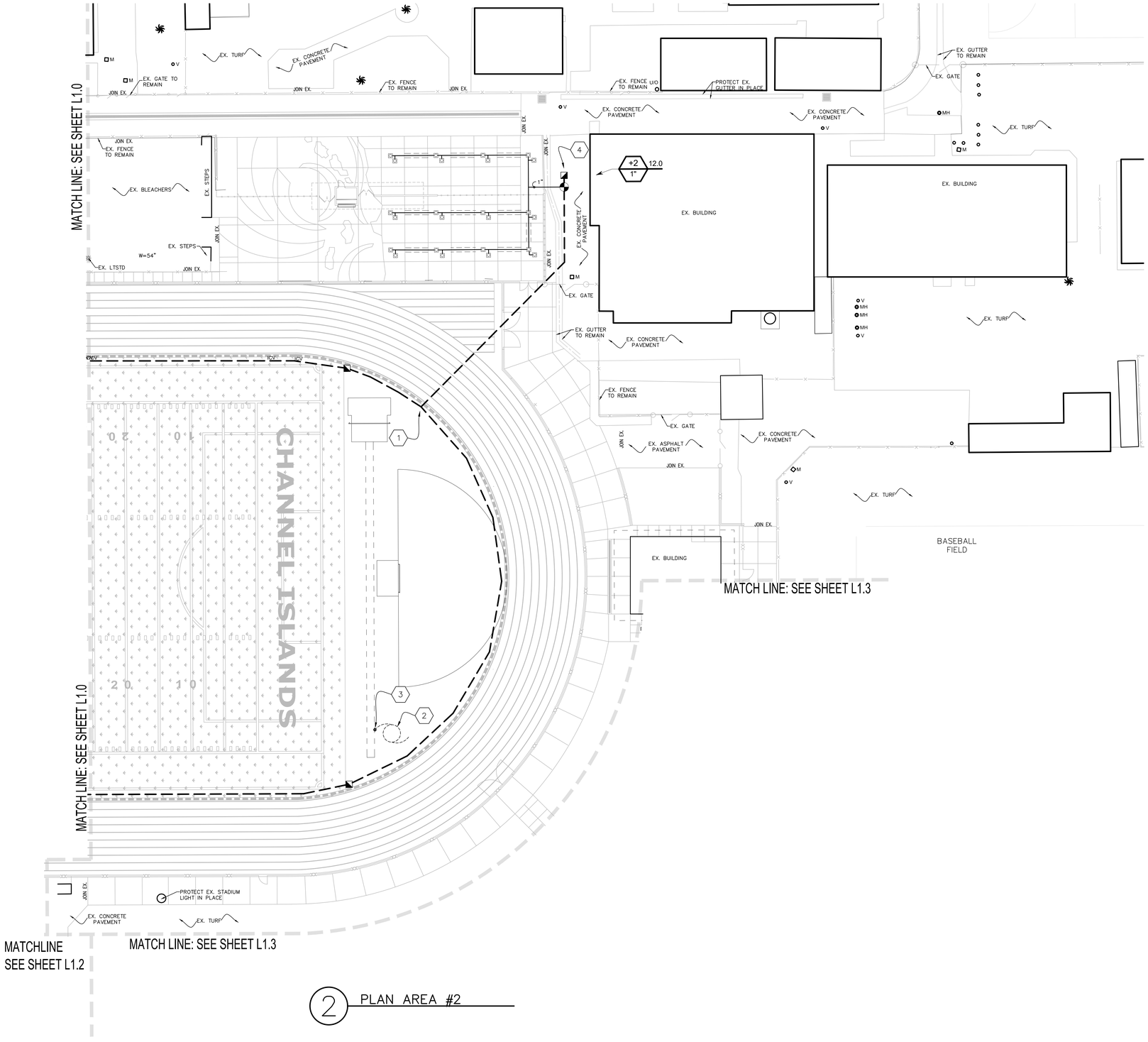
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L1.0



2 PLAN AREA #2

IRRIGATION KEYNOTES:

1. CONNECT TO EXISTING IRRIGATION LINE - COMPLETE EXISTING LOOP VERIFY EXACT LOCATION IN THE FIELD.
2. PROVIDE NEW 1-1/2" DIA. X 100FT COMMERCIAL HOSE SHALL BE "RED 1-1/2" X 100FT NON-COLLAPSIBLE RUBBER HOSE W/ 1-1/2" NH COUPLINGS" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE
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4. PROVIDE AND INSTALL NEW BATTERY OPERATED CONTROLLER AT EACH NEW VALVE LOCATION. SHALL BE HUNTER NODE, MODEL AS NEEDED PER LOCATION FOR (1-4) STATIONS. INSTALL INSIDE ROUND VALVE BOX PER MANUFACTURER'S RECOMMENDATIONS.

IRRIGATION NOTES:

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**** SEE IRRIGATION LEGEND, SHEET L2.0 FOR ALL REQUIRED PARTS AND MATERIALS AS DEPICTED HERE. ****

NORTH

SCALE=1"=20'

0 10 20 40 60

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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT — STEPHEN K. TERRY — LAND. C12905 REN. 11-30-21 — STATE OF CALIFORNIA — 03/09/20

SEAL
LICENSED ARCHITECT — LAND. C12905 REN. 11-30-21 — STATE OF CALIFORNIA

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REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
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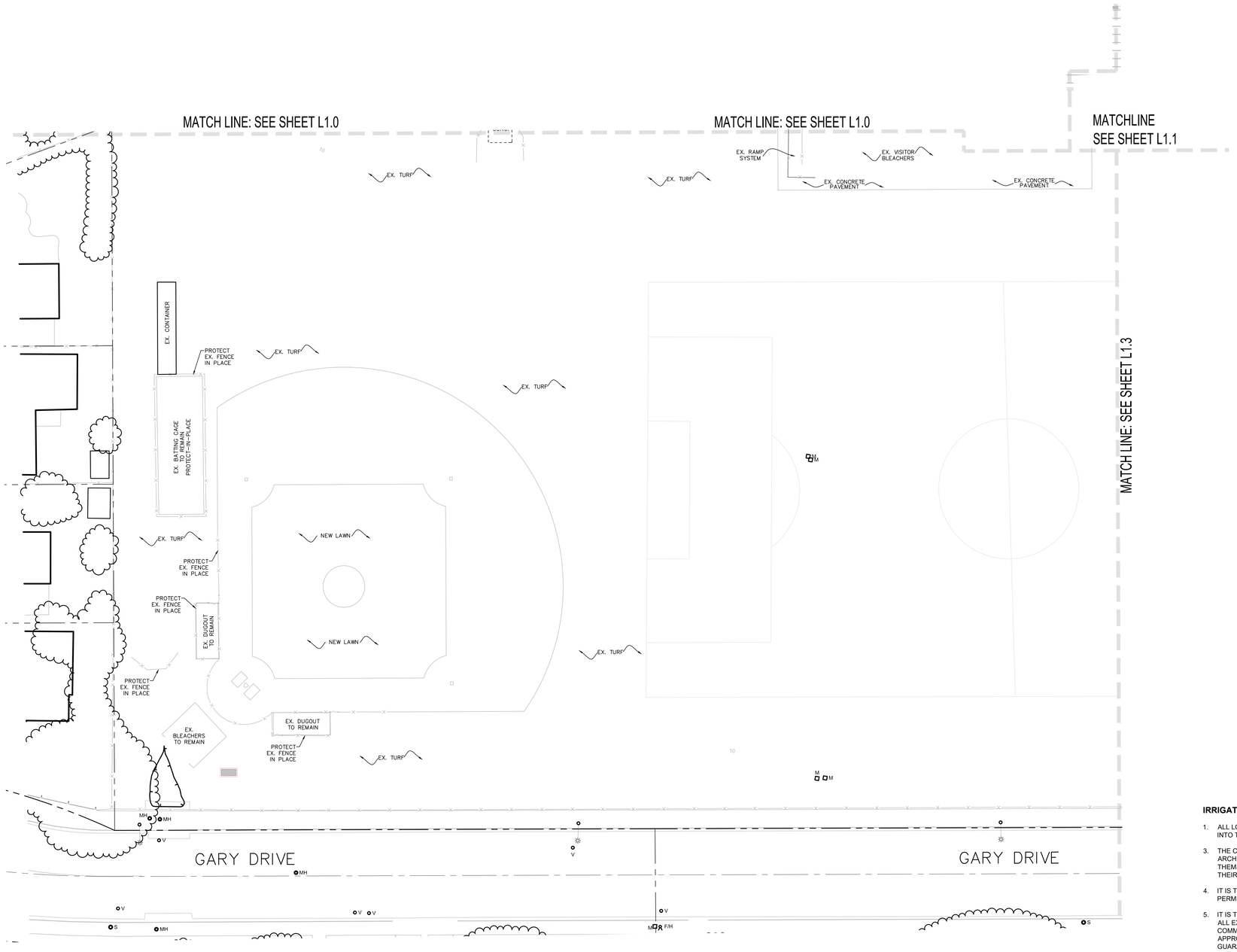
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L1.1



3 PLAN AREA #3

IRRIGATION KEYNOTES:

1. CONNECT TO EXISTING IRRIGATION LINE - COMPLETE EXISTING LOOP VERIFY EXACT LOCATION IN THE FIELD.
2. PROVIDE NEW 1-1/2" DIA. X 100FT COMMERCIAL HOSE SHALL BE "RED 1-1/2" X 100FT NON-COLLAPSIBLE RUBBER HOSE W/ 1-1/2" NH COUPLINGS" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE
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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL A. LEBRUN No. 5593 Expiration 4/30/21 03/03/20 STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT JAY R. VITTE No. C12955 REN. 11-30-21 STATE OF CALIFORNIA

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ISSUE DATE
03/09/20

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PROJECT TEAM
PRINCIPAL IN CHARGE
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PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L1.2

IRRIGATION KEYNOTES:

1. CONNECT TO EXISTING IRRIGATION LINE - COMPLETE EXISTING LOOP
VERIFY EXACT LOCATION IN THE FIELD.

2. PROVIDE NEW 1-1/2" DIA. X 100FT COMMERCIAL HOSE
SHALL BE "RED 1-1/2" X 100FT NON-COLLAPSIBLE RUBBER HOSE W/ 1-1/2" NH COUPLINGS"
AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR EQUAL.
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DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE

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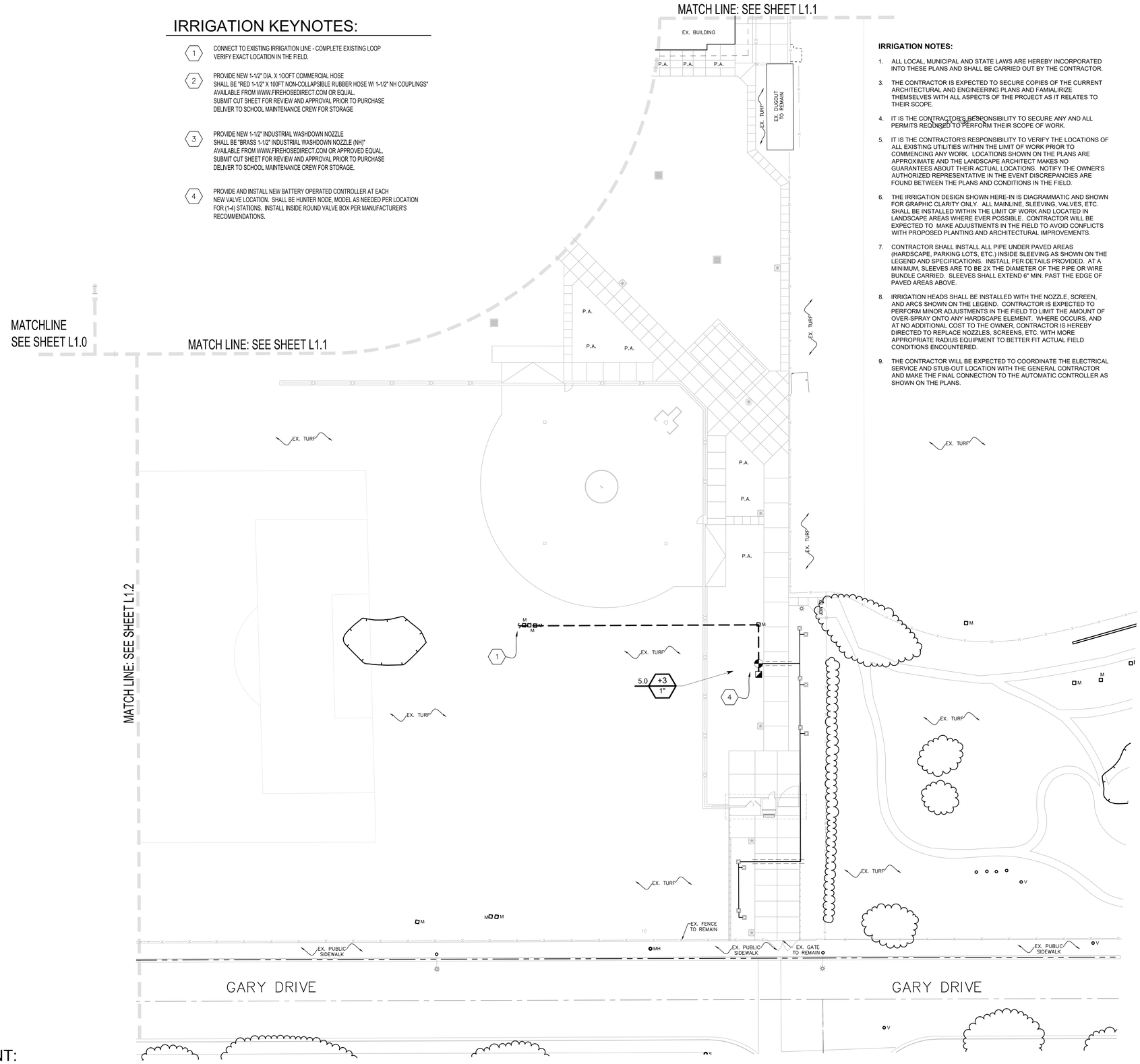
NEW VALVE LOCATION. SHALL BE HUNTER NODE, MODEL AS NEEDED PER LOCATION
FOR (1-4) STATIONS. INSTALL INSIDE ROUND VALVE BOX PER MANUFACTURER'S
RECOMMENDATIONS.



4 PLAN AREA #4

***** SEE IRRIGATION LEGEND, SHEET L2.0 FOR ALL REQUIRED PARTS AND MATERIALS AS DEPICTED HERE. *****

NORTH

SCALE=1"=20'

0 10 20 40 60

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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL A. LEGER 4503 03/31/20 STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT LAST W. FIFTH STATE OF CALIFORNIA No. C12955 REN. 11-30-21

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03/09/20

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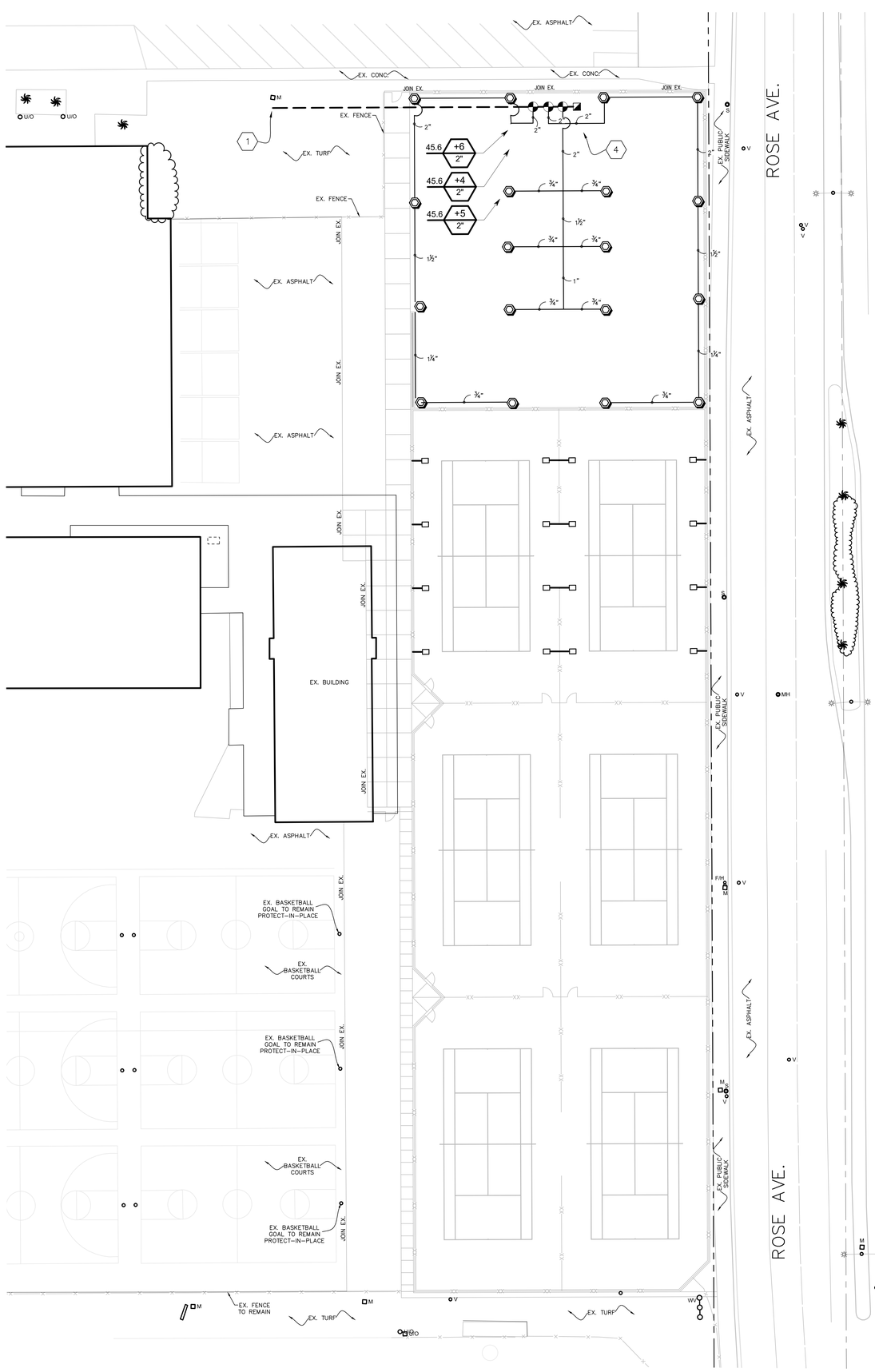
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L1.3



5 PLAN AREA #5

IRRIGATION KEYNOTES:

1. CONNECT TO EXISTING IRRIGATION LINE - COMPLETE EXISTING LOOP VERIFY EXACT LOCATION IN THE FIELD.
2. PROVIDE NEW 1-1/2" DIA. X 100FT COMMERCIAL HOSE SHALL BE "RED 1-1/2" X 100FT NON-COLLAPSIBLE RUBBER HOSE W/ 1-1/2" NH COUPLINGS" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE
3. PROVIDE NEW 1-1/2" INDUSTRIAL WASHDOWN NOZZLE SHALL BE "BRASS 1-1/2" INDUSTRIAL WASHDOWN NOZZLE (NH)" AVAILABLE FROM WWW.FIREHOSEDIRECT.COM OR APPROVED EQUAL. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO PURCHASE DELIVER TO SCHOOL MAINTENANCE CREW FOR STORAGE.
4. PROVIDE AND INSTALL NEW BATTERY OPERATED CONTROLLER AT EACH NEW VALVE LOCATION. SHALL BE HUNTER NODE, MODEL AS NEEDED PER LOCATION FOR (1-4) STATIONS. INSTALL INSIDE ROUND VALVE BOX PER MANUFACTURER'S RECOMMENDATIONS.

IRRIGATION NOTES:

1. ALL LOCAL, MUNICIPAL AND STATE LAWS ARE HEREBY INCORPORATED INTO THESE PLANS AND SHALL BE CARRIED OUT BY THE CONTRACTOR.
3. THE CONTRACTOR IS EXPECTED TO SECURE COPIES OF THE CURRENT ARCHITECTURAL AND ENGINEERING PLANS AND FAMIALIRIZE THEMSELVES WITH ALL ASPECTS OF THE PROJECT AS IT RELATES TO THEIR SCOPE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY AND ALL PERMITS REQUIRED TO PERFORM THEIR SCOPE OF WORK.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO COMMENCING ANY WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LANDSCAPE ARCHITECT MAKES NO GUARANTEES ABOUT THEIR ACTUAL LOCATIONS. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT DISCREPANCIES ARE FOUND BETWEEN THE PLANS AND CONDITIONS IN THE FIELD.
6. THE IRRIGATION DESIGN SHOWN HERE-IN IS DIAGRAMMATIC AND SHOWN FOR GRAPHIC CLARITY ONLY. ALL MAINLINE, SLEEVING, VALVES, ETC. SHALL BE INSTALLED WITHIN THE LIMIT OF WORK AND LOCATED IN LANDSCAPE AREAS WHERE EVER POSSIBLE. CONTRACTOR WILL BE EXPECTED TO MAKE ADJUSTMENTS IN THE FIELD TO AVOID CONFLICTS WITH PROPOSED PLANTING AND ARCHITECTURAL IMPROVEMENTS.
7. CONTRACTOR SHALL INSTALL ALL PIPE UNDER PAVED AREAS (HARDSCAPE, PARKING LOTS, ETC.) INSIDE SLEEVING AS SHOWN ON THE LEGEND AND SPECIFICATIONS. INSTALL PER DETAILS PROVIDED. AT A MINIMUM, SLEEVES ARE TO BE 2X THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. SLEEVES SHALL EXTEND 6" MIN. PAST THE EDGE OF PAVED AREAS ABOVE.
8. IRRIGATION HEADS SHALL BE INSTALLED WITH THE NOZZLE, SCREEN, AND ARCS SHOWN ON THE LEGEND. CONTRACTOR IS EXPECTED TO PERFORM MINOR ADJUSTMENTS IN THE FIELD TO LIMIT THE AMOUNT OF OVER-SPRAY ONTO ANY HARDSCAPE ELEMENT. WHERE OCCURS, AND AT NO ADDITIONAL COST TO THE OWNER, CONTRACTOR IS HEREBY DIRECTED TO REPLACE NOZZLES, SCREENS, ETC. WITH MORE APPROPRIATE RADIUS EQUIPMENT TO BETTER FIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
9. THE CONTRACTOR WILL BE EXPECTED TO COORDINATE THE ELECTRICAL SERVICE AND STUB-OUT LOCATION WITH THE GENERAL CONTRACTOR AND MAKE THE FINAL CONNECTION TO THE AUTOMATIC CONTROLLER AS SHOWN ON THE PLANS.

SPECIAL REQUIREMENT:

EXISTING IRRIGATION BEING SERVED DOWNSTREAM OF THIS PROJECT WILL BE INTERRUPTED BY THIS WORK. CONTRACTOR SHALL PROVIDE AN ALLOWANCE TO SUPPLY TEMPORARY IRRIGATION SERVICE (VIA WATER TRUCK) FOR THE DURATION OF SERVICE INTERRUPTION. ENSURE REGULAR IRRIGATION OPERATIONS OCCUR AND HEALTH AND VIGOR OF EXISTING LANDSCAPE AREAS SERVED BY DOWNSTREAM MAINLINE ARE MAINTAINED. CONTRACTOR WILL BE RESPONSIBLE TO REPLACE EXISTING LANDSCAPE PLANTINGS DAMAGED DUE TO LACK OF IRRIGATION WATER DURING CONSTRUCTION OPERATIONS.

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call: TOLL FREE
1-800-422-4133
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**** SEE IRRIGATION LEGEND, SHEET L2.0 FOR ALL REQUIRED PARTS AND MATERIALS AS DEPICTED HERE. ****

NORTH

SCALE=1"=20'

0 10 20 40 60

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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Little 2019

CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL A. LEDBETTER 5353 STATE OF CALIFORNIA 03/09/20

SEAL
LICENSED ARCHITECT KAY K. WYNNE LIC. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L1.4

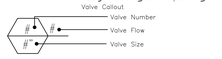
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS
⊠	Rain Bird 1802-1400 Flood 1402	360	30	0.50	3'

SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS
⬣	Hunter I-40-04-55	40	7.60	44'

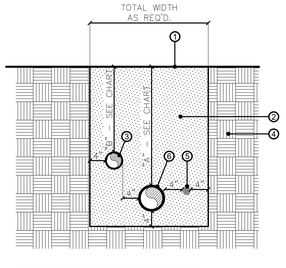
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
◔	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.
◪	Rain Bird 44-LRC 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Piece Body. **SEE DETAIL F, SHT. L2.1**
◪	**FOR TRACK LOCATIONS ONLY** Buckner-Superior QCV-RL 1-1/2" One Piece, Single Slot Brass Quick Coupling Valve. With Locking Plastic Yellow Tuff Top Lid. SEE DETAIL B, THIS SHEET.
———	Irrigation Lateral Line: PVC Schedule 40
— — —	Irrigation Mainline: PVC Schedule 40
= = = = =	Pipe Sleeve: PVC Class 200 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout



GENERAL IRRIGATION NOTES:

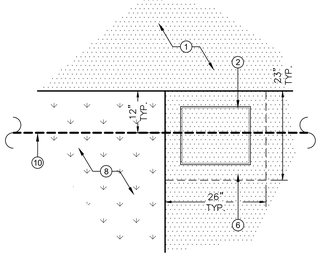
1. ALL LOCAL, MUNICIPAL AND STATE LAWS ARE HEREBY INCORPORATED INTO THESE PLANS AND SHALL BE CARRIED OUT BY THE CONTRACTOR.
3. THE CONTRACTOR IS EXPECTED TO SECURE COPIES OF THE CURRENT ARCHITECTURAL AND ENGINEERING PLANS AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE PROJECT AS IT RELATES TO THEIR SCOPE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY AND ALL PERMITS REQUIRED TO PERFORM THEIR SCOPE OF WORK.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO COMMENCING ANY WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LANDSCAPE ARCHITECT MAKES NO GUARANTEES ABOUT THEIR ACTUAL LOCATIONS. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT DISCREPANCIES ARE FOUND BETWEEN THE PLANS AND CONDITIONS IN THE FIELD.
6. THE IRRIGATION DESIGN SHOWN HERE-IN IS DIAGRAMMATIC AND SHOWN FOR GRAPHIC CLARITY ONLY. ALL MAINLINE, SLEEVING, VALVES, ETC. SHALL BE INSTALLED WITHIN THE LIMIT OF WORK AND LOCATED IN LANDSCAPE AREAS WHERE EVER POSSIBLE. CONTRACTOR WILL BE EXPECTED TO MAKE ADJUSTMENTS IN THE FIELD TO AVOID CONFLICTS WITH PROPOSED PLANTING AND ARCHITECTURAL IMPROVEMENTS.
7. THE CONTRACTOR IS EXPECTED TO SUBMIT ANY QUESTIONS REGARDING THE PROPOSED IRRIGATION DESIGN WHEN IT IS CLEAR THAT FIELD CONDITIONS DO NOT MATCH WHAT IS DEPICTED ON THE PLANS. SUBMIT QUESTIONS TO THE GENERAL CONTRACTOR AS OFFICIAL RFI'S (**REQUEST'S FOR INFORMATION**). IN CASES WHERE THE CONTRACTOR WILLFULLY INSTALLS EQUIPMENT WITHOUT CLARIFYING INTENT OF THE DRAWINGS, THE WORK WILL BE SUBJECT TO CHANGE AT CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. PROPOSED CHANGES BY THE CONTRACTOR SHALL BE SUBMITTED IN WRITING FOR REVIEW AND APPROVAL.
9. FINAL LOCATIONS FOR THE POINT-OF-CONNECTION AND THE AUTOMATIC CONTROLLER SHALL BE DETERMINED IN THE FIELD. STAKE LOCATIONS OF SAID EQUIPMENT FOR REVIEW AND APPROVAL BY THE OWNER AND THE ARCHITECT PRIOR TO COMMENCING ANY WORK.
10. CONTRACTOR SHALL INSTALL ALL PIPE UNDER PAVED AREAS (HARDSCAPE, PARKING LOTS, ETC.) INSIDE SLEEVING AS SHOWN ON THE LEGEND AND SPECIFICATIONS. INSTALL PER DETAILS PROVIDED. AT A MINIMUM, SLEEVES ARE TO BE 2X THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. SLEEVES SHALL EXTEND 6" MIN. PAST THE EDGE OF PAVED AREAS ABOVE.
11. IRRIGATION HEADS SHALL BE INSTALLED WITH THE NOZZLE, SCREEN, AND ARCS SHOWN ON THE LEGEND. CONTRACTOR IS EXPECTED TO PERFORM MINOR ADJUSTMENTS IN THE FIELD TO LIMIT THE AMOUNT OF OVER-SPRAY ONTO ANY HARDSCAPE ELEMENT. WHERE OCCURS, AND AT NO ADDITIONAL COST TO THE OWNER, CONTRACTOR IS HEREBY DIRECTED TO REPLACE NOZZLES, SCREENS, ETC. WITH MORE APPROPRIATE RADIUS EQUIPMENT TO BETTER FIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
12. ALL IRRIGATION ROTOR AND ROTATORS WITHIN TURF AREAS SHALL BE (4") POP-UPS.
13. THE CONTRACTOR IS EXPECTED TO ADJUST THE PRESSURE REGULATOR ON EACH RCV SO THAT THE HEAD FARTHEST AND HIGHEST IN ELEVATION OPERATES WITHIN THE OPERATING PRESSURE SHOWN ON THE IRRIGATION LEGEND.
14. THE PROPOSED IRRIGATION DESIGN IS BASED ON THE STATED STATIC WATER PRESSURE AS NOTED ON THE PLANS FOR EACH POINT-OF-CONNECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE STATIC WATER PRESSURE AVAILABLE PRIOR TO COMMENCING ANY WORK. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
15. WHERE IRRIGATION PIPE INDICATED ON THE PLANS IS NOT SIZED, THE CONTRACTOR SHALL INSTALL SAID PIPE AT AN APPROPRIATE SIZE NOT TO EXCEED 5FPS IN PVC PIPE AND 7PS IN COPPER PIPE. ANY SUCH CHANGES SUCH AS THESE SHALL BE MADE AT NO COST TO THE OWNER.
16. THE CONTRACTOR WILL BE EXPECTED TO COORDINATE THE ELECTRICAL SERVICE AND STUB-OUT LOCATION WITH THE GENERAL CONTRACTOR AND MAKE THE FINAL CONNECTION TO THE AUTOMATIC CONTROLLER AS SHOWN ON THE PLANS.
17. OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24 INCHES OF ANY NON-PERMEABLE SURFACE UNLESS AN ALTERNATIVE DESIGN OR TECHNOLOGY IS SPECIFIED TO MINIMIZE RUNOFF/OVERSPRAY.



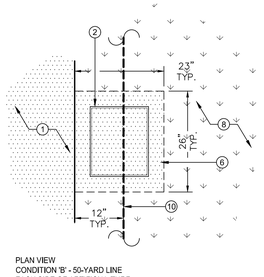
DIMENSION	A	B
1/2" TO 2-1/2" IN SIZE	24"	18"
3" IN SIZE	30"	
4" AND LARGER	36"	

1. FINISH GRADE
2. CLEAN COMPACTED BACKFILL
3. LATERAL LINE - SEE PLANS AND LEGEND
4. UNDISTURBED SOIL
5. CONTROL WIRES, SEE SPECS.
6. MAINLINE - SEE PLANS AND LEGEND

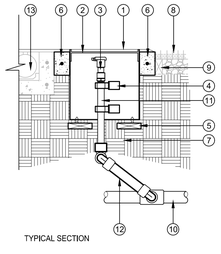
A TRENCHING
N.T.S.



PLAN VIEW
CONDITION 'A' - OUTSIDE CORNERS
EACH END OF ARTIFICIAL TURF



PLAN VIEW
CONDITION 'B' - 50-YARD LINE
EACH SIDE OF ARTIFICIAL TURF



TYPICAL SECTION

1. ALL WEATHER TRACK SURFACE WHERE OCCURS PER DETAIL (5/C1.1)
2. QUICK CONNECT VALVE BOX WITH RECESSED LID. SHALL BE TURFCOOL MODEL # TC-3700-QCV-TS OR APPROVED EQUAL. AVAILABLE FROM SPORTSFIELD SPECIALTIES.
3. QUICK COUPLER VALVE, SEE LEGEND FOR SPECIFICATION, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. 2" O.D. PIPE CLAMPS, TYP.
5. LEVELING BRICK W/ LEVELING BOLTS, TYP. (4 TOTAL)
6. 4" WIDE X 6" DEEP CONCRETE EDGEBAND, TYP. REINFORCE WITH CONT. #3 BAR
7. COMPACT SUBGRADE 95%
8. SYNTHETIC TURF WHERE OCCURS PER DETAIL (4/C1.1)
9. 2X4 RECYCLED PLASTIC HEADER BOARD, SECURE TO EDGEBAND WITH MIN. 4" LONG TAPCON SCREW @ 18" O.C. SPACING.
10. MAINLINE, SIZE PER PLAN
11. BRASS NIPPLE (LENGTH AS REQ'D)
12. SCH. 80 TRIPLE SWING JOINT ASSEMBLY W/ DOUBLE O-RING SEAL
13. TRACK TRENCH DRAIN WHERE OCCURS PER DETAIL (2/C1.1)

NOTES:
a. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.
b. ENSURE QCV KEY SWIVEL'S FREELY WHEN INSERTED INTO LUG TRACK.
c. STAKE LOCATIONS IN THE FIELD FOR REVIEW AND APPROVAL BY FIELD ENGINEER PRIOR TO COMMENCING ANY OF THE WORK.

B QUICK COUPLER VALVE
N.T.S.

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AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE™
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT
MICHAEL K. LEGER No. 3553
03/09/20
STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT
MICHAEL K. LITTLE
No. C12905
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

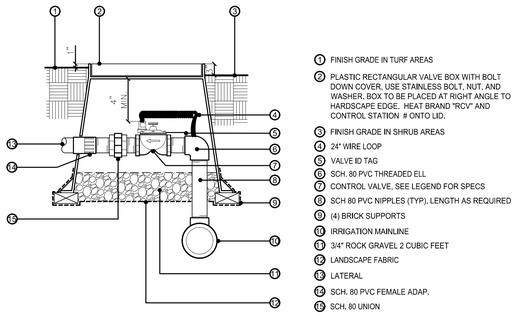
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION NOTES, LEGEND, AND CALCULATIONS

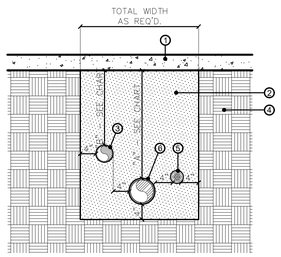
SHEET NUMBER
L2.0



1. FINISH GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "RCV" AND CONTROL STATION # ONTO LID.
3. FINISH GRADE IN SHRUB AREAS
4. 24" WIRE LOOP
5. VALVE ID TAG
6. SCH. 80 PVC THREADED ELL
7. CONTROL VALVE, SEE LEGEND FOR SPECS
8. SCH 80 PVC NIPPLES (TYP), LENGTH AS REQUIRED
9. (4) BRICK SUPPORTS
10. IRRIGATION MAINLINE
11. 3/4" ROCK GRAVEL 2 CUBIC FEET
12. LANDSCAPE FABRIC
13. LATERAL
14. SCH. 80 PVC FEMALE ADAP.
15. SCH. 80 UNION

NOTES:
a. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.

E REMOTE CONTROL VALVE
N.T.S.

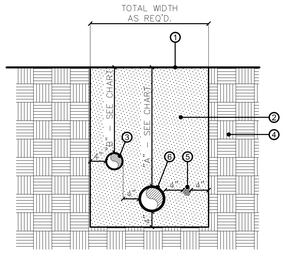


1. PAVING
2. SAND BACKFILL COMPACTED TO THE DENSITY OF EXISTING SOIL
3. LATERAL LINE SEE LEGEND FOR SPECS
4. UNDISTURBED SOIL
5. CONTROL WIRE SEE LEGEND FOR SPECS
6. MAINLINE SLEEVE, SEE LEGEND FOR SPECS

PEDESTRIAN PAVEMENT	A	B
2" TO 12" SIZE	36"	18"
VEHICULAR PAVEMENT	A	B
2" TO 12" SIZE	42"	30"

PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.

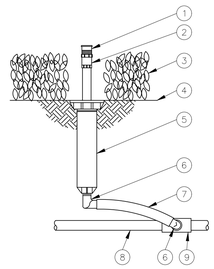
D SLEEVING
N.T.S.



1. FINISH GRADE
2. CLEAN COMPACTED BACKFILL
3. LATERAL LINE - SEE PLANS AND LEGEND
4. UNDISTURBED SOIL
5. CONTROL WIRES, SEE SPECS.
6. MAINLINE - SEE PLANS AND LEGEND

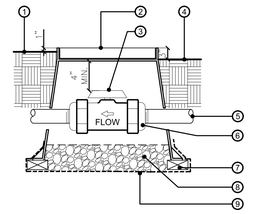
DIMENSION	A	B
1/2" TO 2-1/2" IN SIZE	24"	18"
3" IN SIZE	30"	
4" AND LARGER	36"	

C TRENCHING
N.T.S.



1. PRESSURE COMPENSATING FULL-CIRCLE BUBBLER: RAIN BIRD 1402 W/ PURPLE CAP
2. PLASTIC ADAPTER: RAIN BIRD MODEL PA-80
3. PLANT MATERIAL
4. FINISH GRADE/TOP OF MULCH
5. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804
6. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
7. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
8. PVC LATERAL PIPE
9. PVC SCH 40 TEE OR ELL

H TREE BUBBLER
N.T.S.

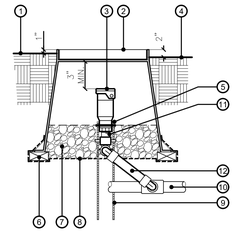


1. FINISH GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER, BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "BV" ONTO LID.
3. PVC BALL VALVE, SEE LEGEND FOR SPECIFICATION
4. FINISH GRADE IN SHRUB AREAS
5. MAINLINE, DEPTH AS PER SPECS.
6. DUAL UNION CONNECTIONS AS PART OF BALL VALVE, THREADED IF SPECIFIED IN LEGEND
7. (4) BRICK SUPPORTS
8. 3/4" ROCK, 2 CUBIC FT.
9. LANDSCAPE FABRIC

NOTES:

1. BOX TO BE INSTALLED TO ALLOW FOR PROPER OPERATION OF BALL VALVE HANDLE.
2. INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAINLINE DEPTH.
4. ALL THREADED CONNECTIONS SHALL HAVE TEFLON TAPE OR PASTE.

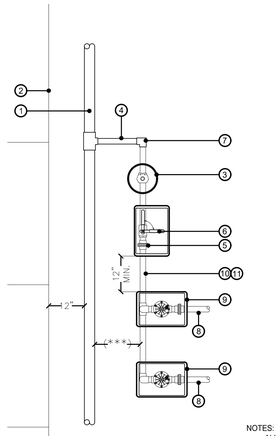
G BALL VALVE
N.T.S.



1. FINISH GRADE IN TURF AREAS
2. PLASTIC ROUND VALVE BOX WITH BOLT DOW COVER, USE STAINLESS BOLT, NUT, AND WASHER, HEAT BRAND "QV" ONTO LID.
3. QUICK COUPLER VALVE, SEE LEGEND FOR SPECIFICATION, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. FINISH GRADE IN SHRUB AREAS
5. STAINLESS STEEL CLAMP
6. (4) BRICK SUPPORTS
7. 3/4" ROCK, 1 CUBIC FEET
8. FILTER FABRIC
9. #4X36" REBAR STAKES (2 TOTAL)
10. MAINLINE, SEE SPECS.
11. BRASS NIPPLE (LENGTH AS REQ'D)
12. SCH. 80 TRIPLE SWING JOINT ASSEMBLY W/ DOUBLE O-RING SEAL

NOTES:
a. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.
b. ENSURE QCV KEY SWIVEL'S FREELY WHEN INSERTED INTO LUG TRACK.

F QUICK COUPLER VALVE
N.T.S.



1. IRRIGATION MAINLINE INSTALLED 12" OFF HARDSCAPE EDGE
2. HARDSCAPE EDGE
3. QUICK COUPLER VALVE ON SWING JOINT IN ROUND VALVE BOX
4. SCH. 80 PVC TEE, SxSxS - LENGTH VARIES MAINLINE X MANIFOLD SIZE
5. SCH 80 PVC UNION
6. BALL TYPE ISOLATION VALVE
7. SCH. 80 PVC ELL, SxSxS
8. LATERAL LINE TO SPRINKLERS
9. REMOTE CONTROL VALVE
10. IRRIGATION SUB-MAINLINE, SIZE PER LARGEST VALVE
11. MINIMUM 12" SEPARATION BETWEEN ALL VALVE BOXES

NOTES:
a. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.
b. *** = VARIABLE DISTANCE TO MANIFOLD. FINAL LOCATION OF EACH MANIFOLD TO BE DETERMINED IN THE FIELD AND COORDINATED WITH PROPOSED PLANTING LAYOUT. MANIFOLD SHALL BE SET BACK FROM THE EDGE OF PAVING AND PLACED IN PLANTING AT LEAST 24" HIGH, DISCREET AND OUT OF SIGHT.
c. STAKE MANIFOLD LOCATIONS IN THE FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

I VALVE MANIFOLD
N.T.S.

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AGENCY REVIEW

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
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www.littleonline.com

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Little 2019

CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL K. LEGER No. 3553 STATE OF CALIFORNIA 03/09/20

SEAL
LICENSED ARCHITECT JAY K. LITTLE STATE OF CALIFORNIA No. C12935 REN. 11-30-21

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

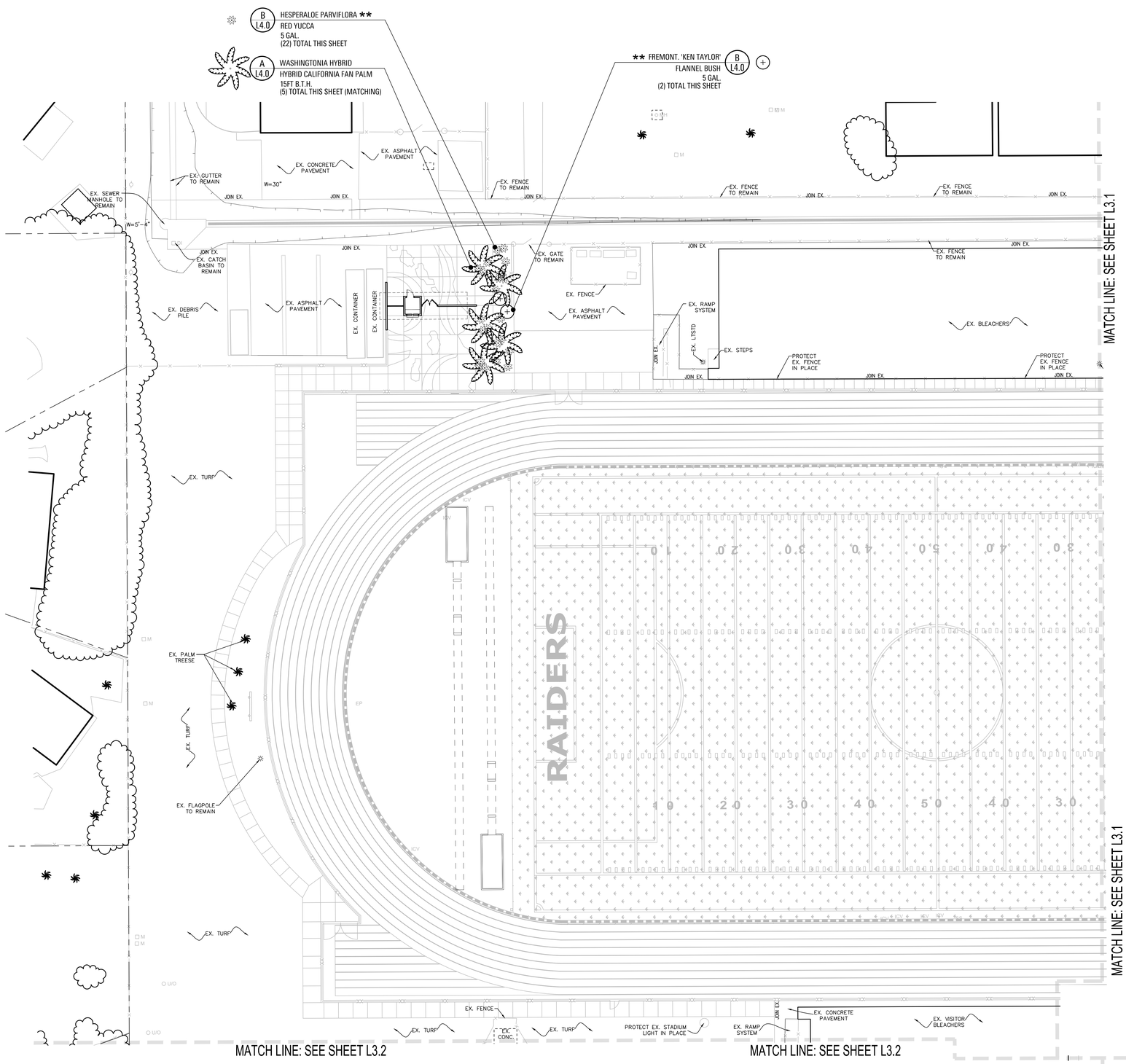
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
IRRIGATION DETAILS

SHEET NUMBER
L2.1



1 PLAN AREA #1

PLANTING NOTES:

1. REFER TO PLANTING SPECIFICATIONS FOR MORE INFORMATION REGARDING SOIL PREP, FERTILIZING, BACKFILL, PLANT SELECTION, WARRANTY'S, ETC.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL THAT IS FREE OF PESTS AND DISEASE. ANY PLANT MATERIAL FOUND AT THE SITE EXHIBITING SIGNS OF PESTS AND/OR DISEASE WILL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
3. ONCE ROUGH GRADES HAVE BEEN ESTABLISHED IN PLANTING AREAS, CONTRACTOR SHALL BE REQUIRED TO HAVE SOIL SAMPLES TAKEN (3 MIN.) AND HAVE AGRICULTURAL SUITABILITY TESTS CONDUCTED. TESTS SHALL REVIEW SOIL FERTILITY AND MAKE RECOMMENDATIONS FOR SOIL PREPERATION PRIOT TO PLANTING. SUBMIT SOIL TEST RESULTS TO OWNER AND LANDSCAPE ARCHITECT FOR THEIR RECORDS. SUBMIT EVIDENCE THAT RECOMMENDATIONS PROVIDED IN SOILS REPORT HAVE BEEN FOLLOWED DURING CONSTRUCTION.
4. SEE SHEETS L1.0 THRU L1.4 FOR IRRIGATION PLANS.
5. ALL SHRUB AND PALM PLANTING AREAS SHALL RECEIVE 3" DECOMPOSED GRANITE "DG" MULCH. SHALL BE COLOR 'MOJAVE GOLD' AVAILABLE FROM SOUTHWEST BOULDER AND STONE OR APPROVED EQUAL. SUBMIT SAMPLE FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.
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SPECIAL REQUIREMENT:

** DENOTES PLANT MATERIAL THAT WILL REQUIRE HAND WATERING DURING THE MAINTENANCE PERIOD.

NORTH

SCALE=1"=20'

0 10 20 40 60

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT · WENDY A. LEGER · 4502 · 09/30/20 · STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT · LAYA S. FIFE · No. C12955 · REN. 11-30-21 · STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

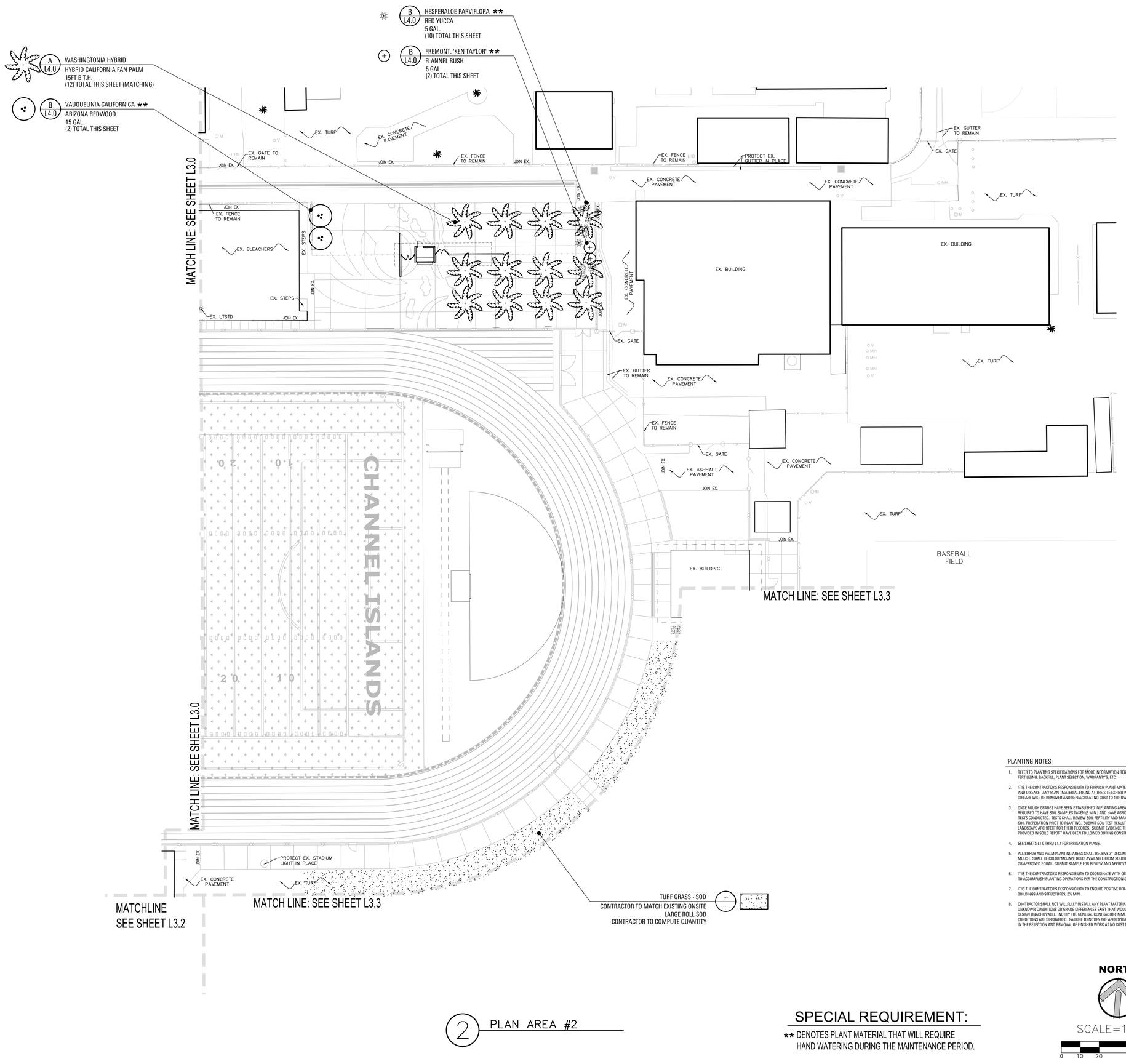
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PLANTING PLAN

SHEET NUMBER
L3.0



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2 PLAN AREA #2

SPECIAL REQUIREMENT:

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NORTH

SCALE=1"=20'

0 10 20 40 60

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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
4/30/21
03/09/20

SEAL
LICENSED ARCHITECT
LAND. C1295
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
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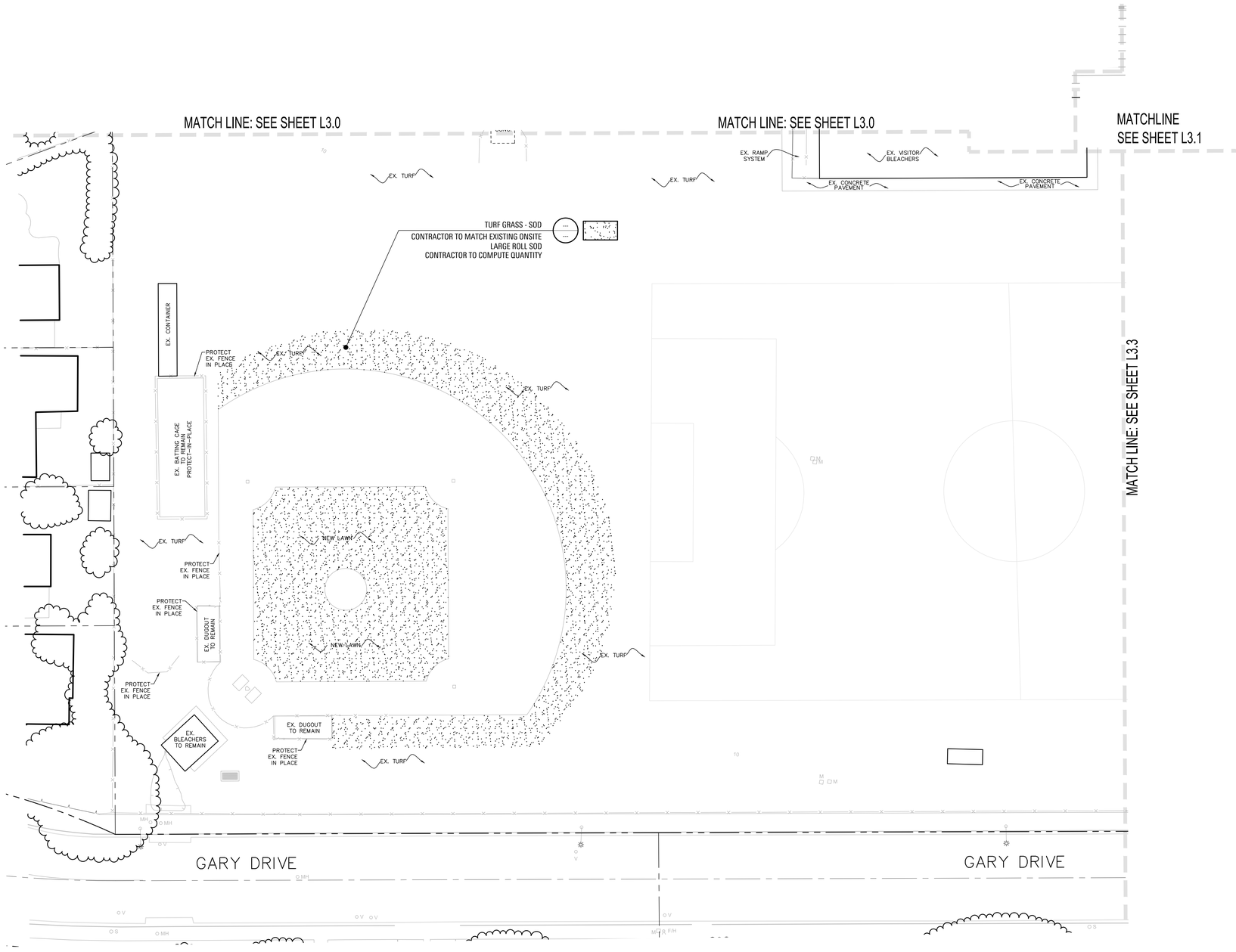
PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PLANTING PLAN

SHEET NUMBER
L3.1



3 PLAN AREA #3

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SCALE=1"=20'

0 10 20 40 60

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PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

LICENSED LANDSCAPE ARCHITECT
MICHAEL K. LEBRUN JR. 5353
03/09/20
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
LIC. C12955
REN. 11-30-21
STATE OF CALIFORNIA

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PROJECT MANAGER
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DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

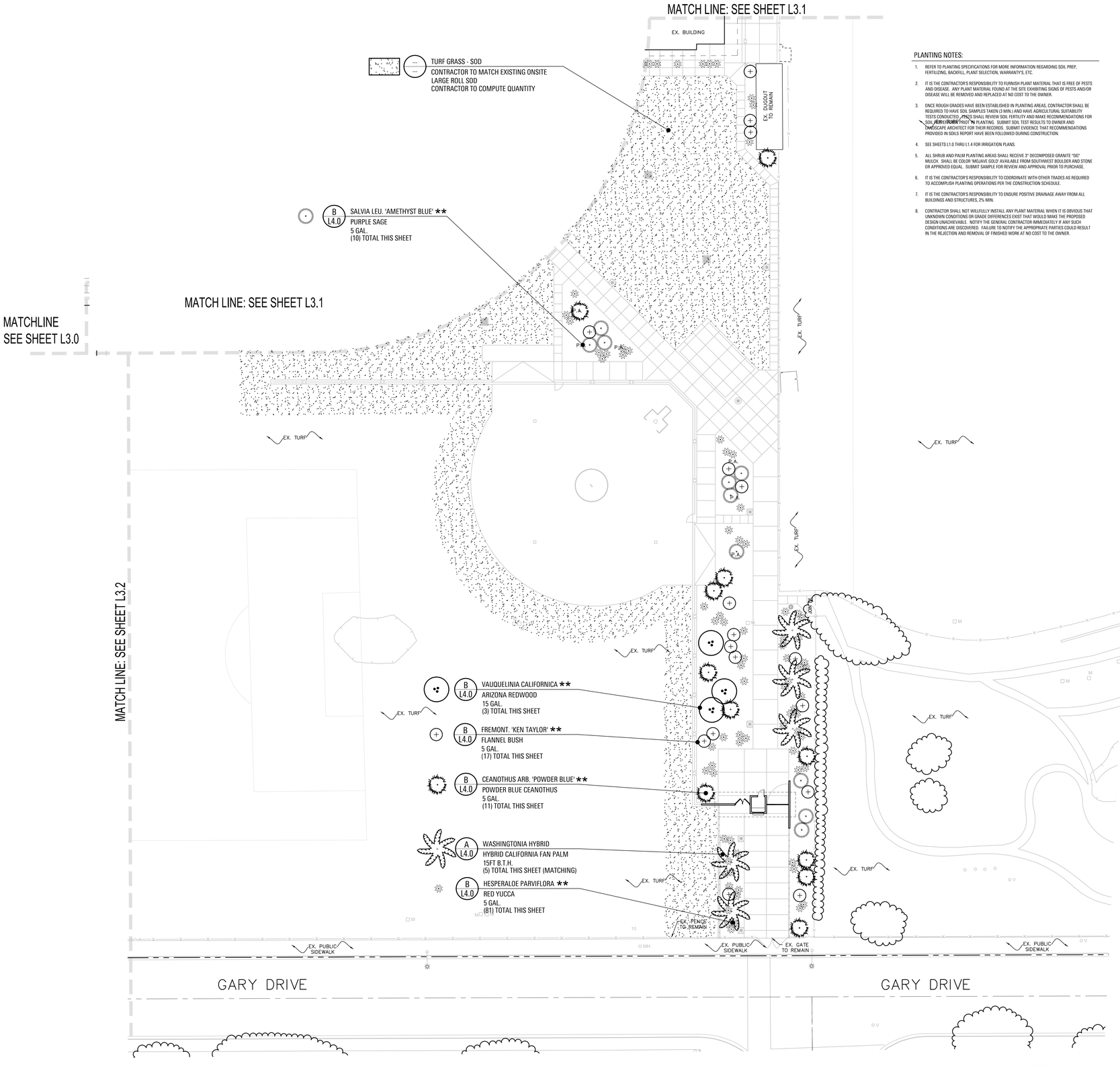
6121235305

SHEET TITLE

PLANTING PLAN

SHEET NUMBER

L3.2



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4 PLAN AREA #4

NORTH

SCALE=1"=20'

0 10 20 40 60

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT
LICENSED LANDSCAPE ARCHITECT MICHAEL K. LEBRUN No. 3553 4/30/21 03/03/20 STATE OF CALIFORNIA

SEAL
LICENSED ARCHITECT BRIAN K. BOWLES LIC. C12955 REN. 11-30-21 STATE OF CALIFORNIA

ISSUE FOR
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ISSUE DATE
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PROJECT TEAM
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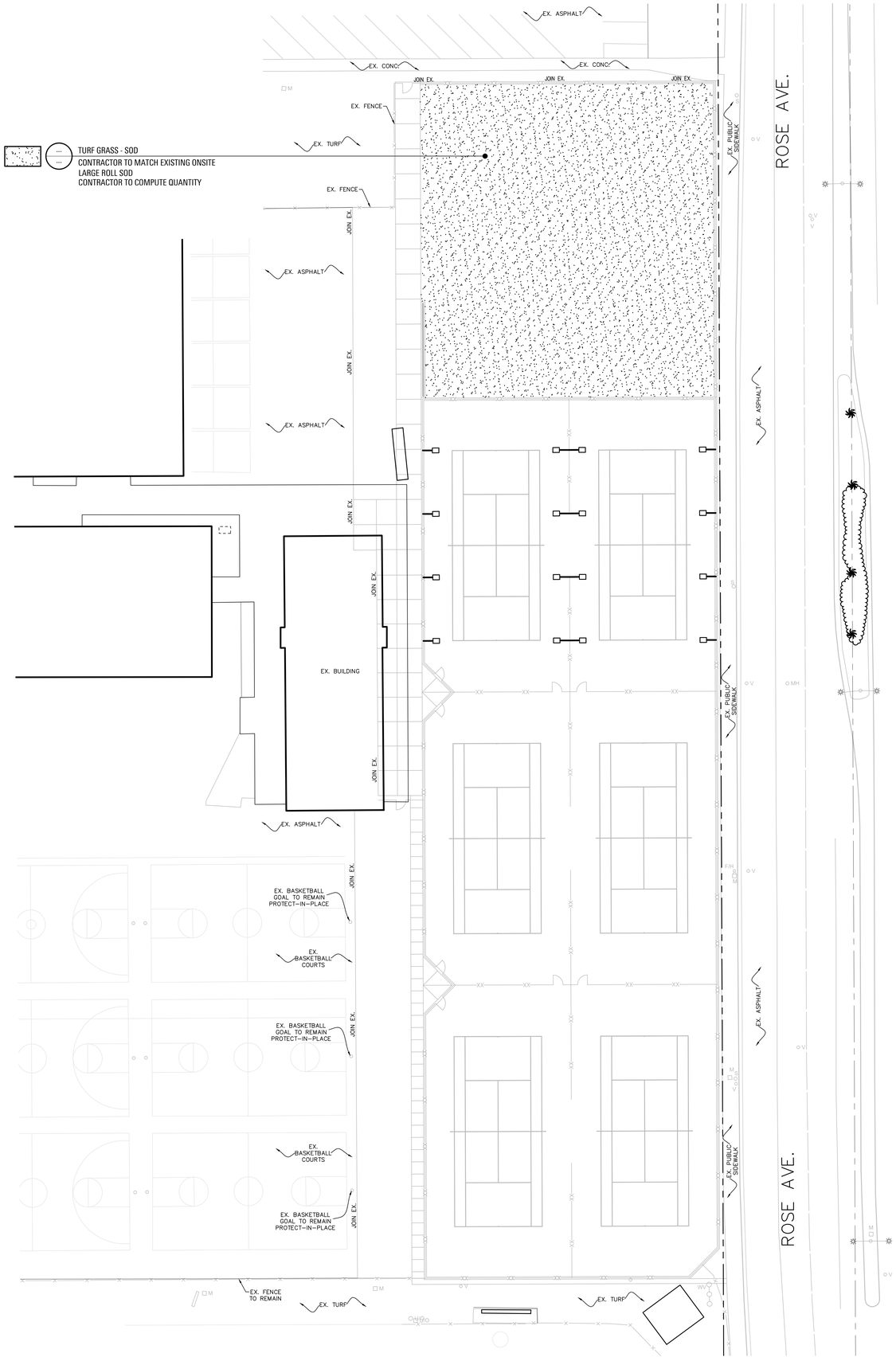
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PLANTING PLAN

SHEET NUMBER
L3.3



5 PLAN AREA #5

PLANTING NOTES:

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CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

LICENSED LANDSCAPE ARCHITECT
MICHAEL A. LEDBETTER 3533
REGISTERED
4/30/21
03/09/20
STATE OF CALIFORNIA

SEAL

LICENSED ARCHITECT
JAY R. FITTLE
NO. C12955
REN. 11-30-21
STATE OF CALIFORNIA

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PRINCIPAL IN CHARGE
BB

PROJECT MANAGER
BB

DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.

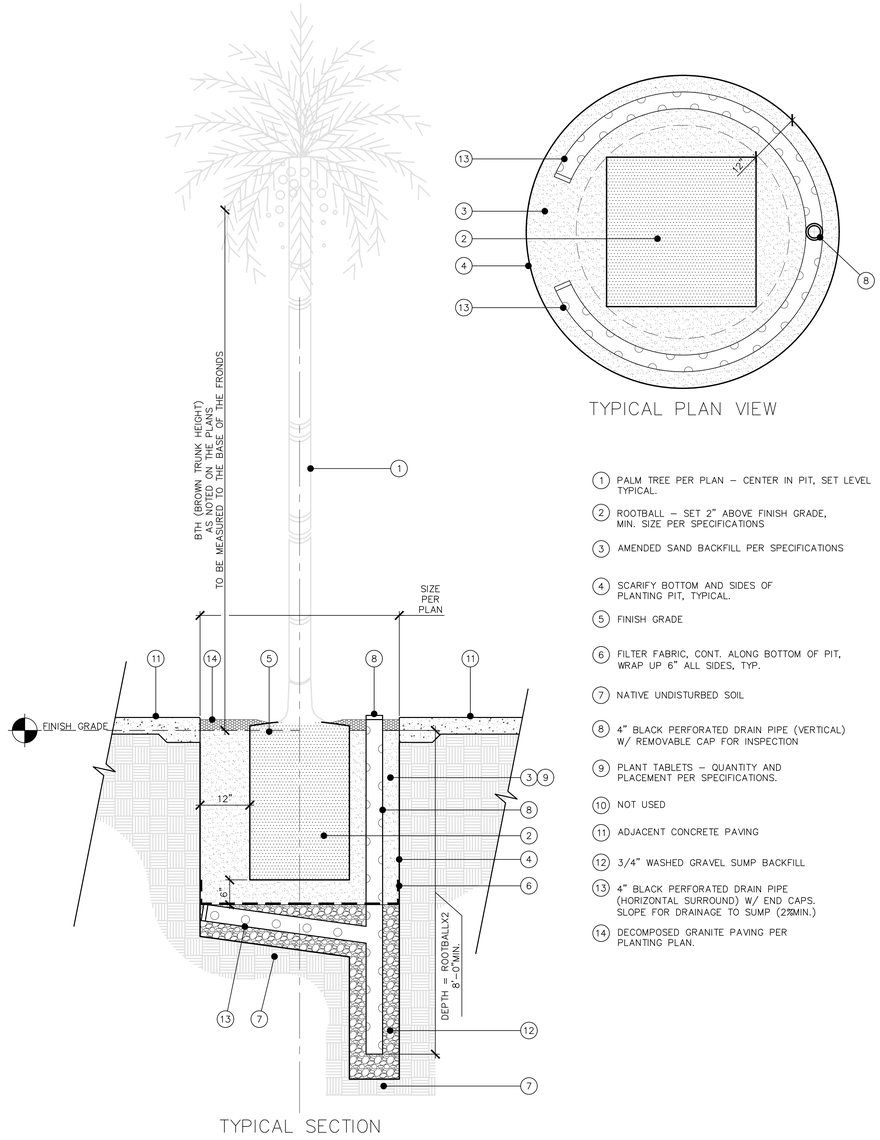
6121235305

SHEET TITLE

PLANTING PLAN

SHEET NUMBER

L3.4

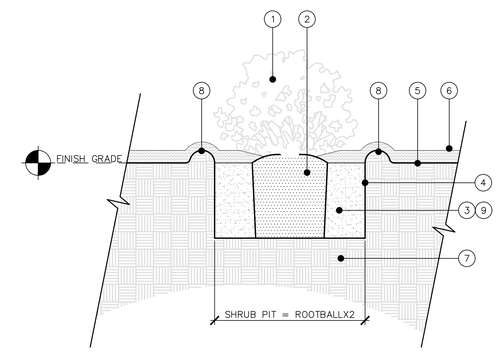


TYPICAL PLAN VIEW

TYPICAL SECTION

1. PALM TREE PER PLAN – CENTER IN PIT, SET LEVEL TYPICAL.
2. ROOTBALL – SET 2" ABOVE FINISH GRADE, MIN. SIZE PER SPECIFICATIONS
3. AMENDED SAND BACKFILL PER SPECIFICATIONS
4. SCARIFY BOTTOM AND SIDES OF PLANTING PIT, TYPICAL.
5. FINISH GRADE
6. FILTER FABRIC, CONT. ALONG BOTTOM OF PIT, WRAP UP 6" ALL SIDES, TYP.
7. NATIVE UNDISTURBED SOIL
8. 4" BLACK PERFORATED DRAIN PIPE (VERTICAL) W/ REMOVABLE CAP FOR INSPECTION
9. PLANT TABLETS – QUANTITY AND PLACEMENT PER SPECIFICATIONS.
10. NOT USED
11. ADJACENT CONCRETE PAVING
12. 3/4" WASHED GRAVEL SUMP BACKFILL
13. 4" BLACK PERFORATED DRAIN PIPE (HORIZONTAL SURROUND) W/ END CAPS. SLOPE FOR DRAINAGE TO SUMP (2%MIN.)
14. DECOMPOSED GRANITE PAVING PER PLANTING PLAN.

A PALM PLANTING
N.T.S.



1. SHRUB PER PLAN – CENTER IN PIT, SET LEVEL TYPICAL.
2. ROOTBALL – SET 2" ABOVE FINISH GRADE
3. AMENDED BACKFILL PER SPECIFICATIONS
4. SCARIFY BOTTOM AND SIDES OF PLANTING PIT, TYPICAL.
5. FINISH GRADE
6. DECOMPOSED GRANITE MULCH PER PLANTING PLAN
7. NATIVE UNDISTURBED SOIL
8. WATERING BASIN
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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

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MICHAEL A. LEDBETTER 3533
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ISSUE FOR
DSA SUBMITTAL SET

ISSUE DATE
03/09/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
BB
PROJECT MANAGER
BB
DESIGN TEAM
SA, ML, VS, AT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS + GATEWAY IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PLANTING DETAILS

SHEET NUMBER
L4.0

GENERAL NOTES

1. FOR APPLICABLE CODES AND STANDARDS, REFER TO SHEET G0.1

2. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE, TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

3. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

4. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT NO EXPENSE TO THE OWNER.

5. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

6. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.

7. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS AND CONDITIONS.

8. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY.

9. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.

10. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.

11. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.

12. ALL DIMENSIONS SHOWN ARE TO FACE OF STUD AT NEW CONSTRUCTION AND FACE OF FINISH AT EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.

13. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF ARCHITECT UNLESS NOTED (+/-) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAY-OUT CONTROL UNLESS OTHERWISE DIRECTED BY ARCHITECT.

14. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR).

15. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

16. OVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.

17. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

18. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

19. REFER TO THE PROJECT MANUAL FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.

20. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH *[OWNER/ARCHITECT/ RESIDENT INSPECTOR]* FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE *[OWNER/ARCHITECT/ RESIDENT INSPECTOR]*. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.

21. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY ARCHITECT.

22. TAKE ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL BUILDING PROCEDURES. NOTIFY OWNER IN ADVANCE OF HVAC, ELECTRICAL OR OTHER BUILDING SYSTEM SHUT-OFFS. MINIMIZE NOISE AND DUST GENERATION TO MAXIMUM EXTENT POSSIBLE. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.

23. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.

24. PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE BUILDING AND SITE TO ORIGINAL CONDITION OF ALL EXISTING PORTIONS OF THE BUILDING AND SITE AFFECTED BY CONTRACTORS WORK, TO THE SATISFACTION OF ARCHITECT AND OWNER.

25. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.

26. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS WITH ARCHITECT.

27. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.

28. CONTRACTOR SHALL INSURE ALL CONSTRUCTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.

29. PROTECTION DURING WELDING. CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE C.F.C. FOR REQUIREMENTS FOR ON SITE WELDING.

STRUCTURAL NOTES

1. SUPPORT AND BRACE ALL PIPES, DUCTS, AND CONDUITS PER THE FOLLOWING STANDARDS OR APPROVED EQUAL:

- OSHPD ANCHORAGE PRE-APPROVAL #R-0010: SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS"
- OSHPD ANCHORAGE PRE-APPROVAL #R-0003: SUPERSTRUT SEISMIC RESTRAINT SYSTEM (FOR PIPES AND CONDUIT ONLY)

2. PROVIDE ALL TEMPORARY SHORING AND BRACING AS REQUIRED FOR ALL DEMOLITION AND NEW WORK AS REQUIRED. ASSUME FULL RESPONSIBILITY FOR REPAIR AND/OR REPLACEMENT OF DAMAGED AREAS, INCLUDING BUT NOT NECESSARILY LIMITED TO, STRUCTURE, FINISHES, EQUIPMENT AND FURNISHINGS IF DAMAGE OF ANY KIND OCCURS AS RESULT OF IMPROPER OR INADEQUATE SHORING OR BRACING,

3. UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, DO NOT CUT OR OTHERWISE MODIFY STRUCTURAL ELEMENTS WITHOUT DIRECTION FROM ARCHITECT. PROVIDE REINFORCEMENT, SUPPORT, TEMPORARY SHORING SATISFACTORY TO THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING ELEMENT. PROVIDE ALL CUTTING OF STRUCTURAL ELEMENTS, AND ALL ASSOCIATED REPAIR OR REFINISHING OF ADJACENT SURFACES AT NO ADDITIONAL EXPENSE TO THE OWNER.

4. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWER DRIVEN PINS IN EXISTING NON-PRE-STRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWER DRIVEN PINS IN EXISTING PRE-STRESSED REINFORCED CONCRETE (POST OR PRE TENSIONED), USE A NON-DESTRUCTIVE METHOD TO LOCATE TENDONS PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

5. PROVIDE TEMPORARY SHORING FOR EXCAVATIONS THAT REMOVE THE LATERAL SUPPORT FROM AN EXISTING BUILDING OR A PUBLIC WAY. PRIOR TO ISSUANCE OF PERMIT, OBTAIN APPROVAL FROM THE ENFORCING AGENCY FOR EXCAVATIONS ADJACENT TO A PUBLIC WAY.

6. OBTAIN NECESSARY PERMITS, INCLUDING CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, PRIOR TO ISSUANCE OF A BUILDING OR GRADING PERMIT FOR ALL TRENCHING.

DEMO AND RENOVATION NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

2. VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, ELECTRICAL, PNEUMATIC TUBE, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF EXISTING SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

3. REFER TO DOCUMENTS PREPARED BY CONSULTING ENGINEERS FOR INFORMATION REGARDING THE REMOVAL OF EXISTING SYSTEMS.

4. COMPLY WITH ANSI A10.6 "SAFETY REQUIREMENTS FOR DEMOLITION" PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.

ACCESSIBILITY NOTES

1. PUBLIC WALKS FROM THE BUILDING TO THE PUBLIC WAY AND TO PARKING AREAS DESIGNATED AS ACCESSIBLE SHALL COMPLY WITH CHAPTER 11B, PART 2, TITLE 24, CCR. PROVIDE WALKS A MINIMUM OF 48 INCHES WIDE AND WITH A GRADIENT NOT GREATER THAN 5% (1:20), WITH NO ABRUPT CHANGES GREATER THAN 1/2 INCHES IN THE DIRECTION OF TRAVEL.

2. PROVIDE WALKS WITH LEVEL LANDINGS AT ALL EXTERIOR EXIT DOORS COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR., WITH NOT LESS THAN 60 INCHES X 60 INCHES IN DIMENSION AND WITH MAXIMUM 2 PERCENT SLOPE.

3. SURFACE CROSS SLOPE GRADIENT SHALL NOT EXCEED 2 PERCENT PER FOOT AT WALKS AND PATHS WITHIN THE ACCESSIBLE PATH OF TRAVEL.

4. PROVIDE ACCESSIBLE BUILDING ENTRANCES COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR., UNLESS SHOWN OTHERWISE.

5. PROVIDE WARNING CURB, RAILING/GUIDE RAIL OR OTHER PROTECTIVE DEVICE AT ALL ABRUPT CHANGES IN LEVEL, (EXCEPT BETWEEN A WALK/SIDEWALK AND ADJACENT STREET OR DRIVEWAY) COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR. PROVIDE MINIMUM 6 INCH HIGH CURB. WHERE GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED IF GUIDE RAIL IS PROVIDED CENTERED AT 3 INCHES ABOVE SURFACE OF WALKWAY, PLUS OR MINUS 1 INCH. NO CURB IS REQUIRED IF WALKWAY IS 5 PERCENT OR LESS IN GRADIENT OR NO ADJACENT HAZARD EXISTS.

6. DOOR CONSTRUCTION AND HARDWARE

PROVIDE THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING DOORS) WITH A SMOOTH UNINTERRUPTED SURFACE PERMITTING THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

LIMIT DOOR OPERATING FORCE IN COMPLIANCE WITH CHAPTER 11B, PART 2, TITLE 24, CCR. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:

8.5 POUNDS FOR EXTERIOR DOORS
5 POUNDS FOR INTERIOR DOORS.
15 POUNDS FOR DOORS WITH FIRE RATED LABELS.

PROVIDE DOOR OPENING HARDWARE COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR. CENTER HAND-ACTIVATED DOOR OPENING HARDWARE BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR. HAND ACTIVATED LATCHING AND LOCKING DOORS, LOCATED IN THE PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL BE ACCESSIBLE AS SPECIFIED IN DIRECTION OF EGRESS.

PROVIDE THRESHOLDS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR, WITH MAXIMUM TOTAL HEIGHT OF 1/2 INCHES.

7. ACCESSIBLE WATER CLOSET COMPARTMENTS AND FIXTURES

PROVIDE ACCESSIBLE WATER CLOSETS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR.

PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR.

EXCEPT FOR DOOR OPENING WIDTHS AND DOOR SWINGS, PROVIDE A MINIMUM 44 INCH WIDE CLEAR AND UNOBSTRUCTED ACCESS PATH TO ACCESSIBLE WATER CLOSET COMPARTMENTS.

PROVIDE MINIMUM 48 INCH CLEAR SPACE IMMEDIATELY IN FRONT OF WATER CLOSET WHEN DOOR IS AT END OF COMPARTMENT.

PROVIDE MINIMUM 60 INCH CLEAR SPACE IMMEDIATELY IN FRONT OF WATER CLOSET WHEN DOOR IS AT SIDE OF COMPARTMENT.

PROVIDE ACCESSIBLE WATER CLOSETS WITH SEAT HEIGHTS A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES AFF, MEASURED TO THE TOP OF THE TOILET SEAT.

PROVIDE FLUSH CONTROLS OPERABLE BY AN OSCILLATING HANDLE WITH A MAXIMUM OPERATING FORCE OF FIVE POUNDS, REMOTE LOW VOLTAGE BUTTON OR OTHER APPROVED CONTROL DEVICE. LOCATE HANDLE OR CONTROL TO BE OPERABLE WITHOUT REQUIRING EXCESSIVE BODY MOVEMENT.

PROVIDE WATER CLOSET COMPARTMENT DOORS WITH AN AUTOMATIC CLOSING DEVICE, PROVIDE COMPARTMENT DOORS WITH A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

8. ACCESSIBLE URINALS

PROVIDE ACCESSIBLE URINALS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR .

PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR.

WHERE URINALS ARE PROVIDED, PROVIDE AT LEAST ONE ELONGATED RIM FIXTURE WITH RIM MOUNTED AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR. PROVIDE FLUSH CONTROLS OPERABLE BY AN OSCILLATING HANDLE WITH A MAXIMUM OPERATING FORCE OF FIVE POUNDS, REMOTE LOW VOLTAGE BUTTON OR OTHER APPROVED CONTROL DEVICE. MOUNT CONTROL A MAXIMUM OF 44 INCHES AFF.

9. ACCESSIBLE LAVATORIES

PROVIDE LAVATORIES COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR.

PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR.

PROVIDE LAVATORIES WITH MINIMUM 29 INCHES CLEARANCE FROM FINISH FLOOR TO APRON. PROVIDE KNEE CLEARANCE UNDER FRONT APRON MINIMUM 30 INCHES WIDE, MINIMUM 27 INCHES HIGH MEASURED 8 INCHES BACK FROM APRON FRONT EDGE. PROVIDE TOE CLEARANCE MINIMUM 9 INCHES HIGH, 30 INCHES WIDE, EXTENDING MINIMUM 17 INCHES IN DEPTH FROM THE FRONT OF LAVATORY.

INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORY. SHARP OR ABRASIVE SURFACES UNDER LAVATORIES ARE NOT PERMITTED.

PROVIDE FAUCET CONTROLS AND OPERATING MECHANISMS OPERABLE WITH ONE HAND AND NOT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. LIMIT FORCE REQUIRED TO ACTIVATE CONTROLS TO MAXIMUM 5 POUNDS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

10. ACCESSIBLE SINKS

PROVIDE SINKS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR CHAPTER 11B.

PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR.

PROVIDE KNEE CLEARANCE UNDER SINKS MINIMUM 30 INCHES WIDE AND MINIMUM 27 INCHES HIGH, MEASURED FROM FINISH FLOOR TO BOTTOM OF SINK, AND EXTENDING A MINIMUM OF 19 INCHES FROM APRON FRONT EDGE.

PROVIDE SINKS WITH MAXIMUM DEPTH OF 6-1/2 INCHES.

INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER SINK. SHARP OR ABRASIVE SURFACES UNDER SINKS ARE NOT PERMITTED.

PROVIDE FAUCET CONTROLS AND OPERATING MECHANISMS OPERABLE WITH ONE HAND AND NOT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. LIMIT FORCE REQUIRED TO ACTIVATE CONTROLS TO MAXIMUM 5 POUNDS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

11. GRAB BARS

PROVIDE GRAB BARS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR.

SHARP OR ABRASIVE SURFACES ADJACENT TO GRAB BARS ARE NOT PERMITTED.

LOCATE GRAB BARS ON ONE SIDE AND THE BACK OF THE WATER CLOSET, 33 INCHES ABOVE AND PARALLEL TO THE FLOOR. PROVIDE SIDE GRAB BARS AT LEAST 48 INCHES LONG, WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. LOCATE SIDE MOUNTED GRAB BAR MAXIMUM 12 INCHES FROM REAR WALL.

PROVIDE REAR GRAB BARS AT LEAST 36 INCHES LONG, MOUNTED WITH CLOSEST END A MAXIMUM OF 6 INCHES FROM SIDE WALL..

PROVIDE GRAB BARS WITH GRIPPING SURFACE DIAMETER OR WIDTH LIMITED TO 1-1/4 INCHES TO 1-1/2 INCHES OR EQUIVALENT GRIPPING SURFACE. PROVIDE MINIMUM 1/8 INCH RADIUS AT ALL GRAB BAR EDGES. WHERE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES.

GRAB BARS SHALL NOT ROTATE IN THEIR FITTINGS.

12. ACCESSIBLE TOILET ACCESSORIES

PROVIDE ACCESSORIES COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR.

WHERE TOWEL, SOAP AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, PROVIDE AT LEAST ONE OF EACH TYPE WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, LOCATED MAXIMUM 40 INCHES AFF.

MOUNT MIRRORS WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE MAXIMUM 40 INCHES AFF.

LOCATE TOILET TISSUE DISPENSERS WITHIN 12 INCHES OF THE FRONT EDGE OF THE TOILET SEAT.

ACCESSIBILITY NOTES

13. ACCESSIBLE DRINKING FOUNTAINS

PROVIDE DRINKING FOUNTAINS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR, CHAPTER 15, PART 5, TITLE 24, CCR.

PROVIDE DRINKING FOUNTAIN WITH MINIMUM 18 INCH DEPTH.

PROVIDE DRINKING FOUNTAINS WITH KNEE CLEARANCE MINIMUM 32 INCHES WIDE, MINIMUM 27 INCHES HIGH MEASURED 8 INCHES BACK FROM FOUNTAIN FRONT EDGE. PROVIDE TOE CLEARANCE MINIMUM 9 INCHES HIGH, 32 INCHES WIDE, EXTENDING MAXIMUM 6 INCHES IN DEPTH FROM THE REAR WALL.

SIDE APPROACH DRINKING FOUNTAIN IS NOT ACCEPTABLE.

ACTIVATE WITH LEVER, PUSH BAR OR OTHER APPROVED CONTROL LOCATED MAXIMUM 6 INCHES FROM FRONT EDGE. LOCATE BUBBLER ORIFICE MAXIMUM 6 INCHES FROM FRONT EDGE AND MAXIMUM 36 INCHES AFF. THE WATER STREAM FROM THE BUBBLER SHALL BE SUBSTANTIALLY PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.

14. ACCESSIBILITY SIGNAGE

PROVIDE ACCESSIBLE PARKING SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION II, PART 2, TITLE 24, CCR.

PROVIDE TOILET ROOM ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR.

PROVIDE PERMANENT ROOM ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR.

PROVIDE DIRECTIONAL AND INFORMATIONAL ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR.

IDENTIFY EACH ACCESSIBLE PARKING SPACE WITH A PERMANENTLY AFFIXED REFLECTORIZED SIGN, NO SMALLER THAN 70 SQUARE INCHES, DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHEN LOCATED IN PATH OF TRAVEL, INSTALL BOTTOM OF SIGN AT MINIMUM 80 INCHES ABOVE FINISHED GRADE. HEIGHT OF 80 INCHES FROM BOTTOM OF SIGN TO FINISHED GRADE AT PATH OF TRAVEL. SIGN MAY BE CENTERED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE PARKING SPACE FINISHED GRADE.

PROVIDE SIGN AT EACH ENTRANCE TO OFF-STREET PARKING WITH ACCESSIBLE PARKING, NOT LESS THAN 17 X 22 INCHES IN SIZE, WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT CLEARLY AND CONSPICUOUSLY STATING THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT _____."

PROVIDE AT EACH ACCESSIBLE PARKING SPACE A SURFACE APPLIED IDENTIFICATION DUPLICATING THE SYMBOL OF ACCESSIBILITY IN BLUE PAINT, A MINIMUM OF 3 X 3 FEET, AND VISIBLE FROM DRIVE AREA WHEN VEHICLE IS PROPERLY PARKED.

PROVIDE 1/4" THICK IDENTIFICATION SYMBOLS ON DOORS TO SANITARY FACILITIES, CONSISTING OF A 12 INCH TRIANGLE FOR MEN AND 12 INCH DIAMETER CIRCLE FOR WOMEN.

FIRE & LIFE SAFETY NOTES

1. ALL INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO THE REQUIREMENTS OF 2016 CBC CHAPTER 8. ALL FINISHES SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH 2016 CBC TABLE 803.11.

2. ALL INSULATION MATERIALS INSTALLED WITHIN ROOF-CEILING ASSEMBLIES, ATTICS, OR WALLS SHALL HAVE A FLAME - SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH 2016 CBC SECTION 720.

3. ALL RATED DOORS SHALL BE POSITIVE LATCHING.

4. ALL FIRE RATED DOOR ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.

5. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED OPENING ASSEMBLIES.

6. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATIONS, INCLUDING CONDUITS AND PIPING, THROUGH FIRE RATED WALL, FLOOR AND CEILING ASSEMBLIES SHALL BE TIGHTLY AND SOLIDLY SEALED WITH FIRESTOPPING COMPLYING WITH 2016 CBC SECTION 714 AND THE PROJECT MANUAL. WHERE ITEM PENETRATES AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL.

7. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10BC WITHIN A 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.

8. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.

9. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PEDESTRIAN PROTECTION AS REQUIRED BY LOCAL CODE AND SPECIFICATION.

10. DO NOT BLOCK EXITS AT ANY TIME.

11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, STANDARDS AS DEFINED IN CHAPTER 35 CALIFORNIA BUILDING CODE AND APPLICABLE NFPA STANDARDS.

12. THE CONTRACTOR SHALL PROVIDE PROTECTION COMPLYING WITH TITLE 8, CCR, DURING WELDING. FURTHER PROTECTION SHALL BE PROVIDED TO ANY OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT.

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT JAY R. TITTLE NO. C-29571 REN. 08-31-21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
A0.0.1

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ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
AB	ANCHOR BOLT
ABAN	ABANDON
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACOUS	ACOUSTICAL
AC PVG	ASPHALT CONCRETE PAVING
ACP	ACOUSTICAL PANEL
ACT	ACOUSTICAL TILE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMT	AMOUNT
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
ASD	AUTOMATIC SPRINKLER DRAIN
ASPH	ASPHALT
ASSY	ASSEMBLY
AV	AUDIO VISUAL
AWP	ACOUSTICAL WALL PANEL
BAL	BALANCE
BBD	BULLETIN BOARD
BBRG	BALL BEARING
BC	BACK OF CURB
BD	BOARD
BG	BUMPER GUARD
BETW	BETWEEN
BEV	BEVEL
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLW	BELOW
BM	BEAM
BM	BENCH MARK
BMU	BRICK MASONRY UNIT
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BRS	BRASS
BRZ	BRONZE
BSMNT	BASEMENT
BUR	BUILT-UP ROOF
C_	CENTERLINE
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CAB	CABINET
CB	CORNER BEAD
CB	CATCHBASIN
CBD	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTER CLOCKWISE
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CF	CLEAR FINISH COATING
CFX	CLEAR FINISH COATING - EXTERIOR
CG	CORNER GUARD
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLG REG	CEILING REGISTER
CLO	CLOSET
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMPL	COMPLETE
CONC	CONCRETE
CONC FL	CONCRETE FLOOR
COND	CONDENSER/CONDENSATE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS/CONTINUATION
CONTR	CONTRACT/CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COTG	CLEAN OUT TO GRADE
COV	COVER
COV PL	COVER PLATE
CP	CONCRETE PAVING
CP	CONTROL PANEL
CPT	CARPET
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CRASHRAIL
CR	COAT RACK/COAT ROD
CRSTL	COLD ROLLED STEEL
CS	CHANGING STATION
CSK	COUNTERSINK
CSMNT	CASEMENT
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CU YD	CUBIC YARD
CW	COLD WATER
CYL	CYLINDER
DAT	DATUM
DBL ACT	DOUBLE ACTING
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIAG	DIAGONAL
DIAM	DIAMETER
DIFF	DIFFERENCE
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DR	DOOR
DRN	DRAIN
DS	DIRECTIONAL SIGN
DS	DOWNSPOUT
DUPL	DUPLICATE

DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWV	DRAIN WASTE & VENT
E	EAST
EA	EACH
(E)	EXISTING
EC	ELASTOMERIC COATING
ECON	ECONOMIZER
ECU	EVAPORATIVE COOLING UNIT
EF	EACH FACE
EHD	ELECTRIC HAND DRYER
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EP	ELECTRICAL PANEL
EOP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATE
ESMNT	EASEMENT
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXIST GR	EXISTING GRADE
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F/F	FACE TO FACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCABLE
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEM	FEMALE
FGL	FIBERGLASS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FH	FIRE HYDRANT
FIN	FINISH
FIXT	FIXTURE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLASHING
FL	FLOW LINE
FLR	FLOOR/FLOORING
FLR FIN	FLOOR FINISH
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPM	FEET PER MINUTE
FREQ	FREQUENCY
FS	FLOOR SINK
FSPKR	FIRE SPRINKLER
FSS	FOLDING SHOWER SEAT
FSTNR	FASTENER
FT	FOOT
FTG	FITTING
FTG	FOOTING
FURR	FURRING
FURN	FURNITURE
FUT	FUTURE
FWC	FABRIC WALL COVERING
G	GAS
GA	GAGE/GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUE LAMINATED
GLBM	GLUE LAMINATED BEAM
GLZ	GLAZING
GMU	GLASS MASONRY UNIT
GND	GROUND
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRADE/GRADING
GRC	GRAFITTI RESISTANT COATING
GR BM	GRADE BEAM
GR LN	GRADE LINE
GRTG	GRATING
GRV	GRAVITY ROOF VENTILATOR
GSTL	GALVANIZED STEEL
GV	GRAVITY VENT
GVL	GRAVEL
GVTR	GAS VENT THROUGH ROOF
GYP	GYPSUM
GBD	GYPSUM BOARD
H	HIGH
H PLAM	HIGH PRESSURE LAMINATE
HB	HOSE BIBB
HC	HOLLOW CORE
HC	HOSE CABINET
HD	HEAD
HDBD	HARDBOARD
HDR	HEADER
HDWL	HEADWALL
HDWR	HARDWARE
HGR	HANGER
HGT	HEIGHT
HHWS	HEX HEAD WOOD SCREW
HM	HOLLOW METAL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HTG	HEATING
HTR	HEATER
HVY	HEAVY
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT

ID	INSIDE DIAMETER
IF	INSIDE FACE
ILLUM	ILLUMINATION
INCAND	INCANDESCENT
INL	INLET
INSTL	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
IP	IRON PIPE
IPS	INSIDE PIPE SIZE
IPS	INTERNATIONAL PIPE STANDARD
ISO	ISOMETRIC
IWH	INSTANTANEOUS WATER HEATER
JAN	JANITOR
JB	JUNCTION BOX
JST	JOIST
JT	JOINT
KD	KILN DRIED
KD	KNOCK DOWN
KO	KNOCKOUT
KPL	KICKPLATE
L	LEFT
LAD	LADDER
LAM	LAMINATED
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LB	POUND
LDG	LANDING
LDR	LEADER
LF	LINEAR FOOT
LG	LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LP	LOW PRESSURE
LS	LUMP SUM
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LUB	LUBRICATE
LV	LOW VOLTAGE
LVL	LEVEL
LVR	LOUVER
LVR	LEVER
LWC	LIGHTWEIGHT CONCRETE
M	MIRROR
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MIXING BOX
MBF	THOUSAND BOARD FEET
MBD	MARKER BOARD
MC	MOMENT CONNECTION
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAID
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFGR	MANUFACTURER
MH	MANHOLE
MI	MILE
MIR	MIRROR
MGL	MIRROR GLASS
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE
MON	MONUMENT
MPH	MILES PER HOUR
MR	MOP RACK
MS	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MEETING
MTG	MOUNTING
MTR	METER
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
#	NUMBER
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NCP	NON-REINFORCED CONCRETE PIPE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NRC	NOISE REDUCTION COEFFICIENT
NST	NATURAL STONE TILE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OUTSIDE AIR
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OUTSIDE DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD
OHWS	OVAL HEAD WOOD SCREW
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OVFL	OVERFLOW
OZ	OUNCE
d	PENNY
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLEBOARD
PC	PIECE

PC	POINT OF CURVE
PC	PORTLAND CEMENT
PCF	POUNDS PER CUBIC FOOT
PD	PLANTER DRAIN
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PAINT FINISH
PFX	PAINT FINISH - EXTERIOR
PGL	PLASTIC GLAZING
PH	PHASE
PHOTO	PHOTOGRAPH
PHS	PHILLIP HEAD SCREW
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PKG	PACKAGE
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISHED
PORT	PORTABLE
POS	POSITIVE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PTS	PNUEMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
RA	RETURN AIR
RA GR	RETURN AIR GRILLE
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	PREINFORCED CONCRETE PIPE
RD	ROAD
RD	ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECIRC	RECIRCULATE
RECPT	RECEPTACLE
RECPT	RECEPTIONIST
RECT	RECTANGULAR
REF	REFERENCE
REFL	REFLECTOR
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED/REINFORCING
REM	REMOVABLE
RE	RIM ELEVATION
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
RFG	ROOFING
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPW	RIGID PROTECTIVE WALLCOVERING
RS	ROOM SIGN
RSF	RESILIENT SHEET FLOORING
RTF	RESILIENT TILE FLOOR
RWC	RAIN WATER CONDUCTOR
RWF	RESILIENT WOOD FLOOR
RWL	RAIN WATER LEADER
S	SOUTH
S	SHELF
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SALV	SALVAGE
SAN	SANITARY
SAT	SATURATION
SB	SPLASH BLOCK
SC	SHOWER CURTAIN
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER
SD	STORM DRAIN
SD	SUPPLY DIFFUSER
SDS	SITE DIRECTIONAL SIGN
SEC	SECOND
SECT	SECTION
SGL	SINGLE
SHT	SHEET/SHEETING
SHTHG	SHEATHING
SHV	SHELVES/SHELVING
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLV	SLEEVE
SM	SHEET METAL
SMS	SHEET METAL SCREW
SNK	SINK
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPD	SANITARY PRODUCTS DISPENSER
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SPW	SANITARY PRODUCTS WASTE RECEPTACLE

SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SR	SHOWER ROD
SSNK	SERVICE SINK
SSTL	STAINLESS STEEL
ST	STREET
ST	STAIN FINISH
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STX	STAIN FINISH - EXTERIOR
SUH	SUSPENDED UNIT HEATER
SUSP	SUSPENDED
SV	STONE VENEER
SWHR	SHOWER
SWR	SEWER
SYM	SYMBOL
SYM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TEE
T	THERMOSTAT
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TB	TOWEL BAR
TBD	TACKBOARD
TBD	TO BE DETERMINED
TBT	THIN BRICK TILE
TC	TOP OF CONCRETE
TC	TOP OF CURB
TD	TOWEL DISPENSER
TD	TRENCH DRAIN
TDR	TOWEL DISPENSER WASTE RECEPTACLE
TE	TOP ELEVATION
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERED
TEMP	TEMPERATURE
TEMP	TEMPORARY
TER	TERRAZZO
TERM	TERMINAL
THK	THICKNESS
THRESH	THRESHOLD
THRU	THROUGH
TOBM	TOP OF BEAM
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PAVING
TOP	TOP OF PARAPET
TOS	TOP OF SHEATHING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TPH	TOILET PAPER HOLDER
TPL	TOP OF PLATE
TRANS	TRANSPARENT
TRMS	TAMPER RESISTANT METAL SCREW
TRWS	TAMPER RESISTANT WOOD SCREW
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNGND	UNDERGROUND
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
UV	ULTRAVIOLET
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VCP	VITRIFIED CLAY PIPE
VCTBD	VINYL COVERED TACKBOARD
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VIB	VIBRATION
VIT	VITREOUS
VNR	VENEER
VOL	VOLUME
VS	VEHICULAR SIGN
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRE GLASS
WH	WALL HYDRANT
WHTR	WATER HEATER
WI	WROUGHT IRON
WIC	WOODWORK INSTITUTE OF CALIFORNIA
WID	WIDTH
WL	WATER LINE
WL	WIND LOAD
WP	WORKING POINT
WP	WATERPROOF
WR	WATER RESISTANT
WR	WASTE RECEPTACLE
WSCT	WAINSCOT
WSP	WET STAND PIPE
WT	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER
YB	YARD BOX
YD	YARD
ZA	ZINC ALLOY

SYMBOLS

NORTH ARROW

ITEM / ELEVATION — SPOT ELEVATION

ITEM / ELEVATION — FINISH FLOOR LEVEL

A / 1 — STRUCTURAL GRID LINES

MATCH LINE

DTL # / SHT # — DETAIL REFERENCE TAG
DETAIL NUMBER
SHEET NUMBER

DTL # / SHT # — BUILDING SECTION TAG
DETAIL NUMBER
SHEET NUMBER

DTL# / SHT# — ELEVATION TAG
DETAIL NUMBER
SHEET NUMBER

NAME / NO. / X'-X" — ROOM NAME TAG
ROOM NUMBER
ROOM CEILING HEIGHT

D / C / SHT # / A / B — INTERIOR ELEVATION TAG
DETAIL NUMBER
SHEET NUMBER

X — WALL TAG
(SEE SHEET A9.0.1)

X — WINDOW NUMBER TAG
(SEE WINDOW SCHEDULE)

X — DOOR NUMBER TAG
(SEE DOOR / FRAME SCHEDULE)

X — KEYNOTE
(SEE LEGEND EACH SHEET)

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AGENCY REVIEW

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DIV. OF THE STATE ARCHITECT
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT — JAY R. TITTLE — No. C12345 — REN. 08.31.21 — STATE OF CALIFORNIA

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ISSUE DATE
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REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
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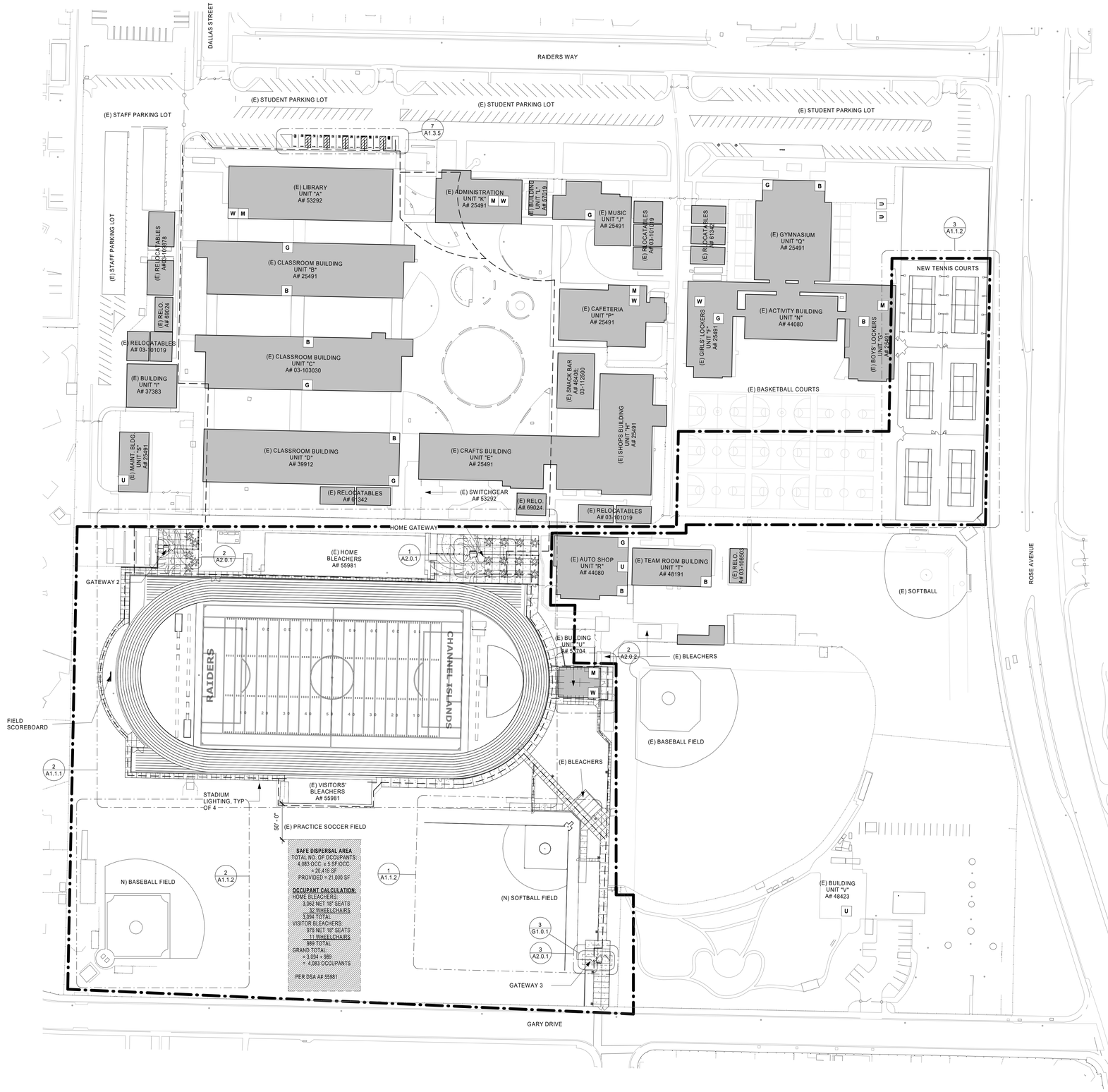
PROJECT NO.
6121235305

SHEET TITLE
SYMBOLS / ABBREVIATIONS

SHEET NUMBER
A0.1.1



OVERALL SITE PLAN 1
1" = 60'-0" A1.0.1

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ACCESSIBILTY NOTES

1. ARCHITECT TO VERIFY PATH OF TRAVEL REQUIREMENTS ARE MET FOR P.O.T. FROM ACCESSIBLE PARKING AND PUBLIC WAY TO RESTROOMS, DRINKING FOUNTAINS, SCHOOL ADMINISTRATION BUILDING, ACCESIBLE SEATING AND INSIDE TRACK AS INDICATED. ANY DEVIATION FROM P.O.T. DEFINITION LISTED BELOW SHALL BE BROUGHT INTO COMPLIANCE BY THE ARCHITECT PREPARING A CCD AND SUBMITTING IT TO DSA FOR APPROVAL.

2. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER-FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. P.O.T. SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (2016 CBC 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE WALL AND ABOVE 27" AND LESS THAN 80" (CBC 11B-307). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CHAPTER 11 DIVISION 4 OF THE 2016 CBC .

3. ALL NEW PAVING AND SURFACING TO BE FLUSH TO EXISTING PAVING EDGE.

4. FOR GRADE ELEVATIONS, SEE CIVIL DRAWINGS.

5. FOR DEMOLITION WORK, SEE CIVIL DRAWINGS.

6. DIMENSIONS ARE TO BE FIELD VERIFIED.

7. ALL EXISTING ELEMENTS TO REMAIN SHALL BE PROTECTED IN PLACE, TYP.

STATEMENT BY DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

"THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONTS OR PORTIONS OF THE P.O.T THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE 2016 CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

LEGEND

	(E) BUILDING TO REMAIN
	EXTENT OF SCOPE OF WORK
	ACCESSIBLE PATH OF TRAVEL 4'-0" WIDE MIN. CONCRETE OR A.C. PAVED. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON MATERIAL, SLOPES AND ELEVATIONS.
U	UNISEX RESTROOM
W	WOMEN'S RESTROOM
M	MEN'S RESTROOM
G	GIRLS' RESTROOM
B	BOYS' RESTROOM
DF	DRINKING FOUNTAIN

PARKING ANALYSIS

TOTAL SPACES PROVIDED:	302	
(E) STAFF PARKING LOT:	97	
ACCESSIBLE SPACES:		
	REQUIRED:	4
	PROVIDED:	5
VAN ACCESSIBLE SPACES:		
	REQUIRED:	0
	PROVIDED:	0
(E) STUDENT PARKING	205	
ACCESSIBLE SPACES:		
	REQUIRED:	7
	PROVIDED:	11
VAN ACCESSIBLE SPACES:		
	REQUIRED:	2
	PROVIDED:	2

DSA CERTIFICATIONS

DSA A#	STATUS
03-103030	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #2, 11/17/2010
03-109496	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #2, 01/29/2010
03-109175	CERTIFICATION AND CLOSE OF FILE, VOID, 10/06/2005
03-103165	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #1, 09/01/2010
03-112158	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #2, 11/10/2014
03-112500	CERTIFICATION AND CLOSE OF FILE, VOID, 05/31/2016
03-109878	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #1, 06/11/2015
03-113824	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #1, 08/14/2013
03-113024	CERTIFICATION AND CLOSE OF FILE, LETTER TYPE #1, 07/09/2013
03-119339	SUBMITTED 12/11/2018, OPEN

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT JAY R. TITTLE NO. C-25855 REN. 08.31.21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A1.0.1

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	AIM	IMAGE ELEVATION	Pole MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	QTY / POLE	TIME GRID	OTHER GRIDS
1	A1	80°	-	60'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	1	1	0
1	A2	80°	-	60'	TLC-LED-600	2	2	0
				80'	TLC-LED-1500	1	1	0
1	B1	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
1	B2	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
4	TOTALS					9	9	0

Channel Island High School Football Retrofit
Oxnard,CA

GRID SUMMARY

Name:	North Seating
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average:	7.72
Maximum:	16
Minimum:	1
Avg / Min:	2.40
Max / Min:	5.33
UG (adjacent pts):	1.77
CU:	0.11
No. of Points:	132

LUMINAIRE INFORMATION

Color / CRI:	5700K - 75 CRI
Luminaire Output:	65,600 / 160,000 lumens
No. of Luminaires:	9
Total Load:	8.62 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 30
0' 30' 60'

Pole location(s) ✚ dimensions are relative to 0,0 reference point(s) ⓡ

ENGINEERED DESIGN By: T. Hamilton • File #2018208-Egress • 05-Mar-20

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	AIM	IMAGE ELEVATION	Pole MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	QTY / POLE	TIME GRID	OTHER GRIDS
1	A1	80°	-	60'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	1	1	0
1	A2	80°	-	60'	TLC-LED-600	2	2	0
				80'	TLC-LED-1500	1	1	0
1	B1	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
1	B2	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
4	TOTALS					9	9	0

Channel Island High School Football Retrofit
Oxnard,CA

GRID SUMMARY

Name:	Home Bleacher Surroundings
Size:	355' x 192'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average:	2.41
Maximum:	10
Minimum:	0
Avg / Min:	21.78
Max / Min:	92.10
UG (adjacent pts):	2.74
CU:	0.05
No. of Points:	185

LUMINAIRE INFORMATION

Color / CRI:	5700K - 75 CRI
Luminaire Output:	65,600 / 160,000 lumens
No. of Luminaires:	9
Total Load:	8.62 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 40
0' 40' 80'

Pole location(s) ✚ dimensions are relative to 0,0 reference point(s) ⓡ

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	AIM	IMAGE ELEVATION	Pole MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	QTY / POLE	TIME GRID	OTHER GRIDS
1	A1	80°	-	60'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	1	1	0
1	A2	80°	-	60'	TLC-LED-600	2	2	0
				80'	TLC-LED-1500	1	1	0
1	B1	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
1	B2	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
4	TOTALS					9	9	0

Channel Island High School Football Retrofit
Oxnard,CA

GRID SUMMARY

Name:	South Seating
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average:	9.41
Maximum:	13
Minimum:	6
Avg / Min:	1.51
Max / Min:	2.06
UG (adjacent pts):	1.43
CU:	0.05
No. of Points:	48

LUMINAIRE INFORMATION

Color / CRI:	5700K - 75 CRI
Luminaire Output:	65,600 / 160,000 lumens
No. of Luminaires:	9
Total Load:	8.62 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 20
0' 20' 40'

Pole location(s) ✚ dimensions are relative to 0,0 reference point(s) ⓡ

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	AIM	IMAGE ELEVATION	Pole MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	QTY / POLE	TIME GRID	OTHER GRIDS
1	A1	80°	-	60'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	1	1	0
1	A2	80°	-	60'	TLC-LED-600	2	2	0
				80'	TLC-LED-1500	1	1	0
1	B1	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
1	B2	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
4	TOTALS					9	9	0

Channel Island High School Football Retrofit
Oxnard,CA

GRID SUMMARY

Name:	Away Bleacher Surroundings
Size:	355' x 192'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average:	6.66
Maximum:	13
Minimum:	0
Avg / Min:	21.14
Max / Min:	61.40
UG (adjacent pts):	2.89
CU:	0.07
No. of Points:	100

LUMINAIRE INFORMATION

Color / CRI:	5700K - 75 CRI
Luminaire Output:	65,600 / 160,000 lumens
No. of Luminaires:	9
Total Load:	8.62 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 20
0' 20' 40'

Pole location(s) ✚ dimensions are relative to 0,0 reference point(s) ⓡ

ENGINEERED DESIGN By: T. Hamilton • File #2018208-Egress • 05-Mar-20

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	AIM	IMAGE ELEVATION	Pole MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	QTY / POLE	TIME GRID	OTHER GRIDS
1	A1	80°	-	60'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	1	1	0
1	A2	80°	-	60'	TLC-LED-600	2	2	0
				80'	TLC-LED-1500	1	1	0
1	B1	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
1	B2	70°	-	60'	TLC-LED-600	1	1	0
				70'	TLC-LED-1500	1	1	0
4	TOTALS					9	9	0

Channel Island High School Football Retrofit
Oxnard,CA

GRID SUMMARY

Name:	Path of Egress
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average:	3.32AVE
Maximum:	13.00
Minimum:	0.00
No. of Points:	71

LUMINAIRE INFORMATION

Color / CRI:	5700K - 75 CRI
Luminaire Output:	65,600 / 160,000 lumens
No. of Luminaires:	9
Total Load:	8.62 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-1500	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 80
0' 40' 80'

Pole location(s) ✚ dimensions are relative to 0,0 reference point(s) ⓡ

ENGINEERED DESIGN By: T. Hamilton • File #2018208-Egress • 05-Mar-20

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ILLUMINATION SUMMARY

C:\Users\farnaz.mahjoob\Documents\6121235305 OXNARD UHSD CHANNEL ISLANDS HS TRACK & FIELD IMPROVEMENTS-CENTRAL 2018_farnaz.mahjoob.rvt
3/6/2020 12:02:51 AM

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE™
DIVERSIFIED ARCHITECTURAL CONSULTING

1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT
JEFFREY K. TITUS
No. C-23305
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR

DSA SUBMITTAL

ISSUE DATE

03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JT

PROJECT MANAGER
LEB

DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.

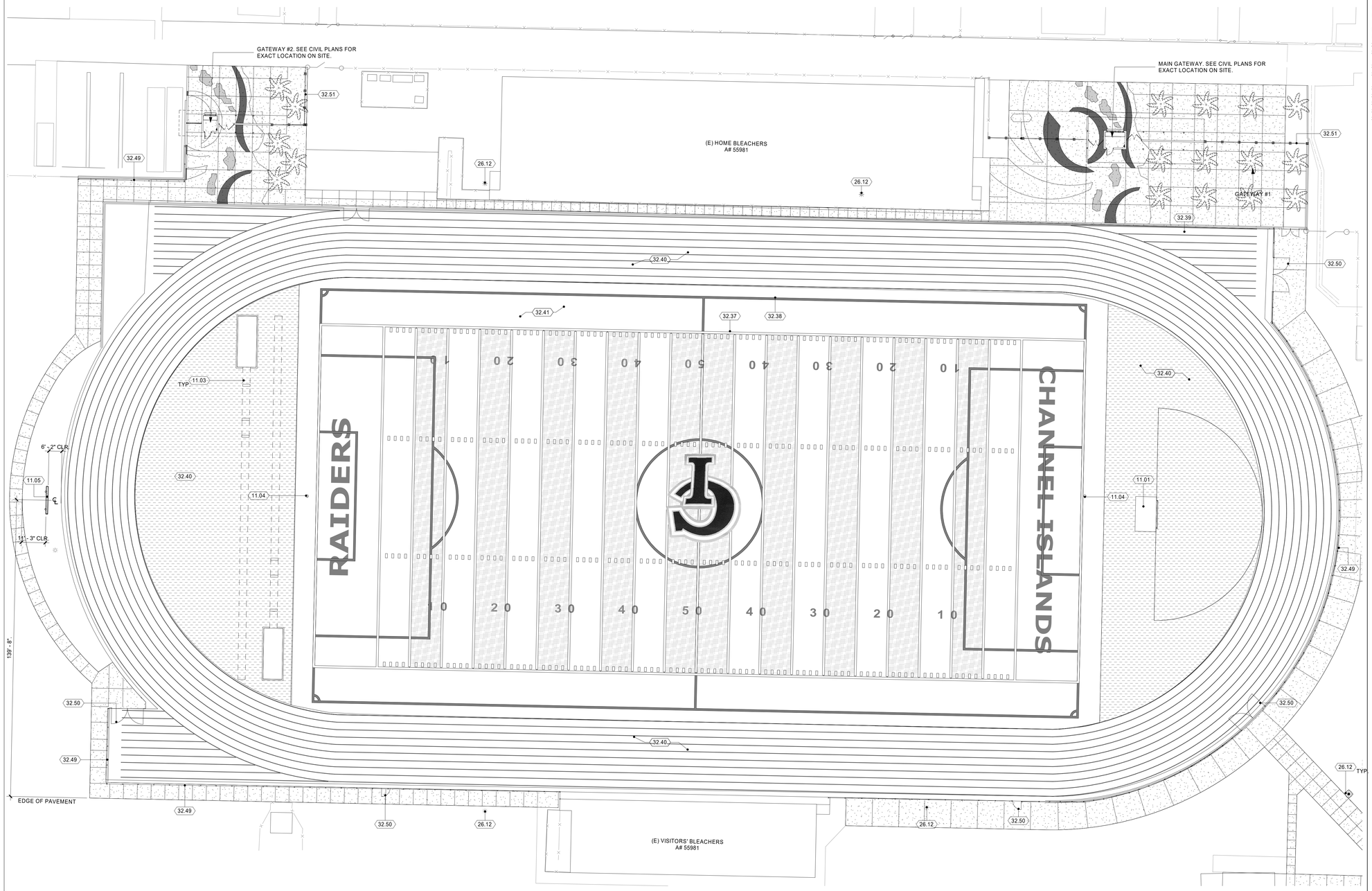
6121235305

SHEET TITLE

EGRESS PHOTOMETRIC SCANS

SHEET NUMBER

A1.0.2



ENLARGED SITE PLAN - TRACK & FIELD 2 A1.1.1
1" = 20'-0"

KEYNOTES

11.01 NEW HIGH JUMP, SEE DETAIL 7/A1.3.2 - 11 68 33.43
11.03 NEW LONG/TRIPLE JUMP, SEE DETAILS 5 AND 6/A1.3.3 - 11 68 33.43
11.04 NEW GOAL POST, SEE DETAIL 9/A1.3.3 - 11 68 33.13
11.05 NEW SCOREBOARD, SEE DETAIL 13/A1.3.3 - 11 68 43.13
26.12 NEW SITE LIGHTING FIXTURE
32.37 FOOTBALL FIELD STRIPING, SEE DETAIL 2/A1.3.2 - 32 18 23.29
32.38 SOCCER FIELD STRIPING, SEE DETAIL 1/A1.3.2 - 32 18 23.29
32.39 RUNNING TRACK STRIPING, SEE DETAIL 3/A1.3.2 - 32 18 23.33
32.40 SYNTHETIC RUNNING TRACK SURFACING - 32 18 23.33
32.41 SYNTHETIC TURF - 32 18 23.29
32.49 NEW CHAIN LINK FENCE. SEE DETAIL 9/A1.3.1.
32.50 NEW CHAIN LINK GATE. SEE DETAIL 1/A1.3.5
32.51 NEW FABRICATED METAL FENCE, SEE DETAIL 4/A1.3.4.

LEGEND

CONCRETE PAVING
TRACK SURFACE
SYNTHETIC TURF
CHAIN LINK FENCE
FABRICATED METAL FENCE

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. C17955
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

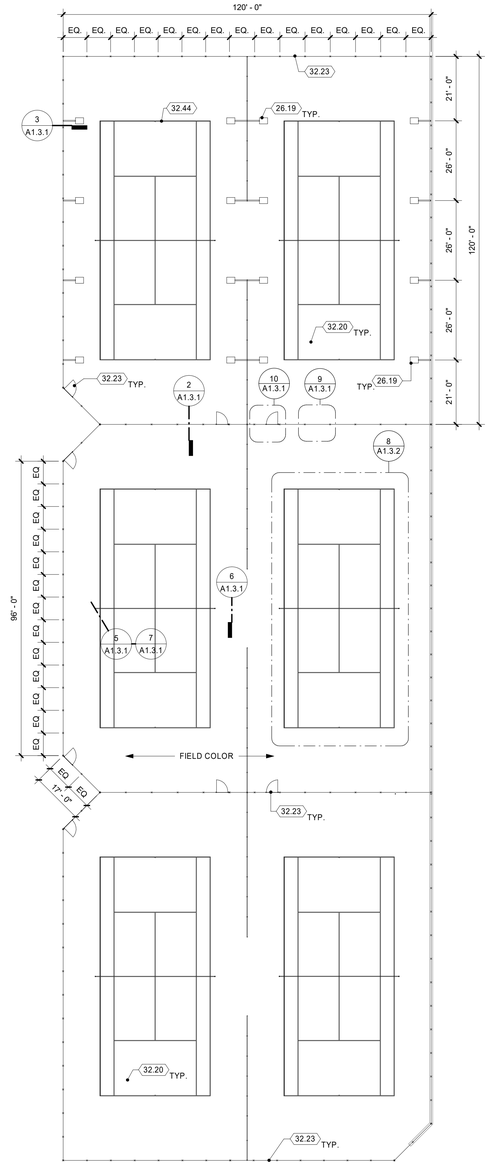
PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

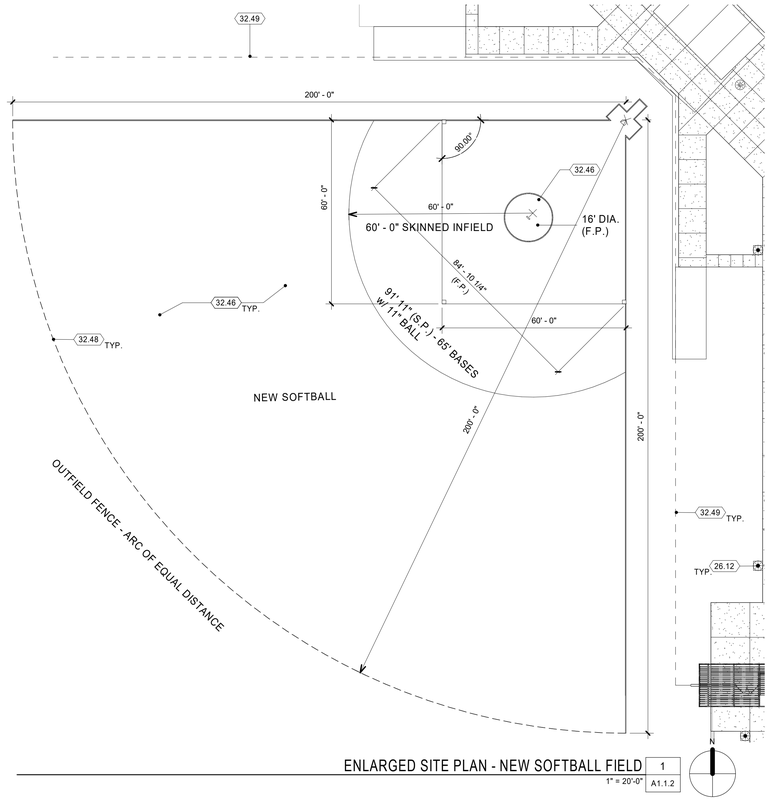
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A1.1.1

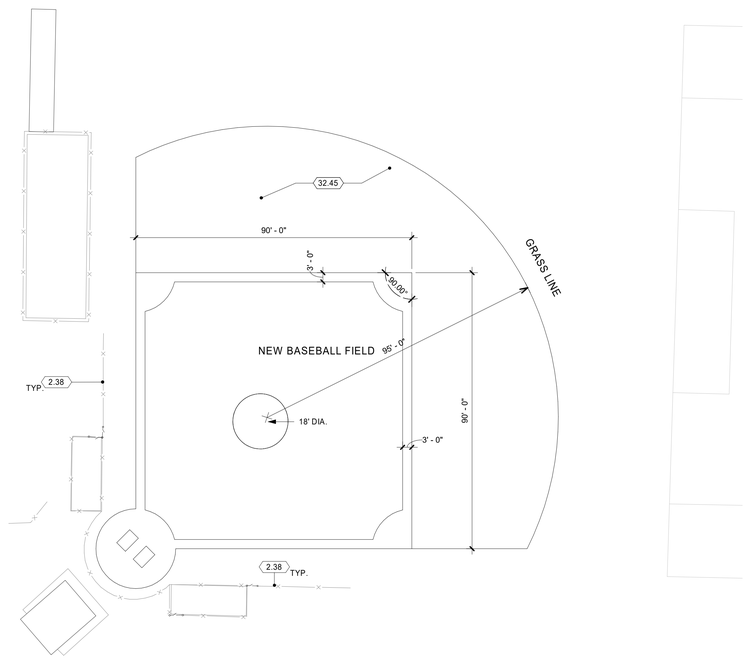
C:\Users\farnaz.mahjoob\Documents\6121235305 OXNARD UHSD CHANNEL ISLANDS HS TRACK & FIELD IMPROVEMENTS-CENTRAL 2018_farnaz.mahjoob.rvt
3/6/2020 12:03:03 AM



ENLARGED SITE PLAN - TENNIS COURTS 3 A1.1.2
1" = 20'-0"



ENLARGED SITE PLAN - NEW SOFTBALL FIELD 1 A1.1.2
1" = 20'-0"



ENLARGED SITE PLAN - NEW BASEBALL FIELD 2 A1.1.2
1" = 20'-0"

KEYNOTESTES

2.38 (E) FENCE ENCLOSURE TO REMAIN. PROTECT IN PLACE.
26.12 NEW SITE LIGHTING FIXTURE
26.19 TENNIS COURT LIGHT POLE, SEE ELECTRICAL DRAWINGS
32.20 TENNIS COURT SURFACING - 32 18 26
32.23 TENNIS COURT FENCES AND GATES, SEE DETAILS 1 THROUGH 12/A1.3.1 - 32 31 13
32.44 TENNIS COURT STRIPING, SEE DETAIL 8/A1.3.2
32.45 NEW BASEBALL FIELD
32.46 NEW SOFTBALL FIELD
32.48 NEW SOFTBALL FIELD ENCLOSURE, SEE DETAILS 14 AND 15/A1.3.3
32.49 NEW CHAIN LINK FENCE. SEE DETAIL 9/A1.3.1.

AGENCY REVIEW

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

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DSA SUBMITTAL

ISSUE DATE
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PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A1.1.2

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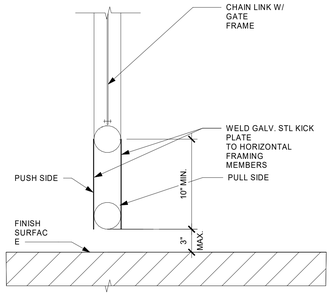
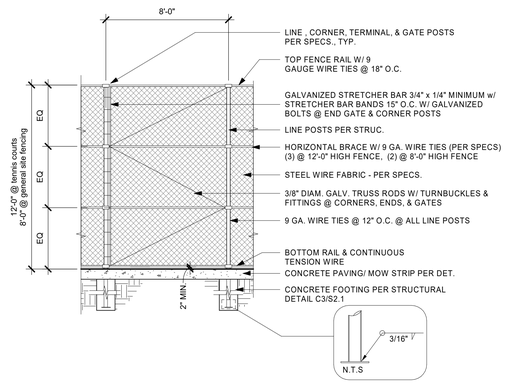
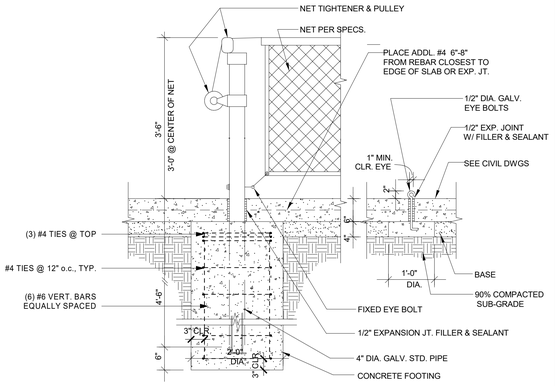
3/6/2020 12:03:13 AM



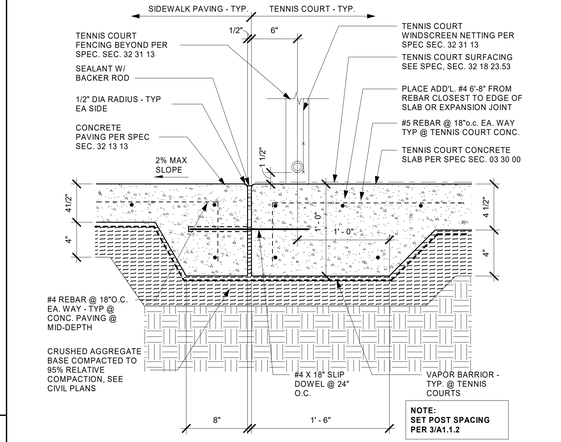
KICK PLATES TO CHAIN LINK GATE — 13 — 1 1/2" = 1'-0" — A1.3.1



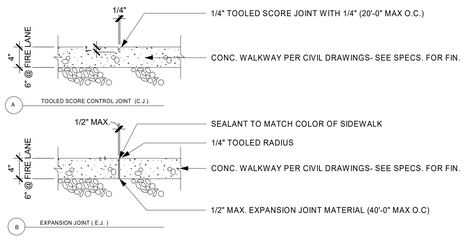
FENCE DETAIL — 9 — 1/4" = 1'-0" — A1.3.1



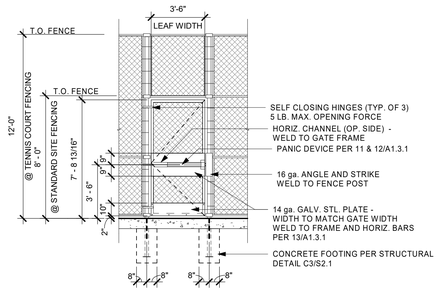
TENNIS NET POST + ANCHOR AT CENTER — 5 — 3/4" = 1'-0" — A1.3.1



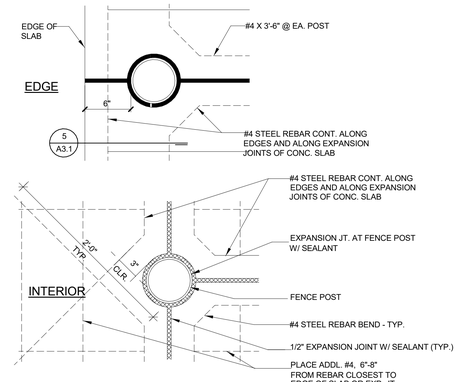
TENNIS COURT / CONC. PAVING DETAIL - TYP. — 1 — 1 1/2" = 1'-0" — A1.3.1



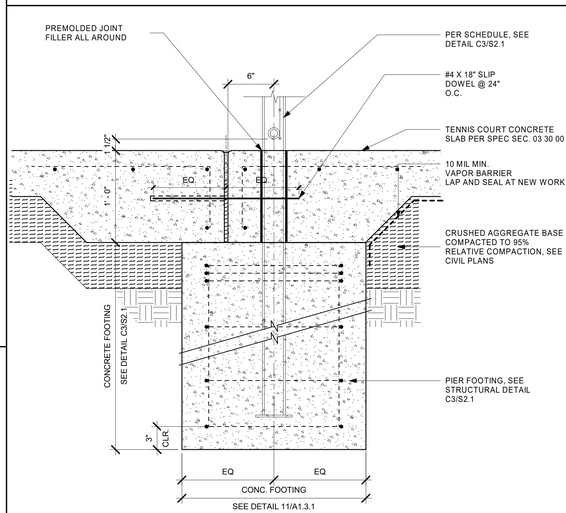
CONCRETE CONSTRUCTION JOINT — 4 — 1" = 1'-0" — A1.3.1



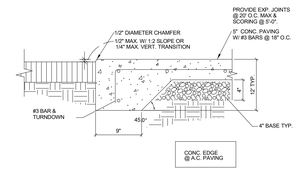
SINGLE GATE ELEVATION WITH PANIC HARDWARE — 10 — 1/4" = 1'-0" — A1.3.1



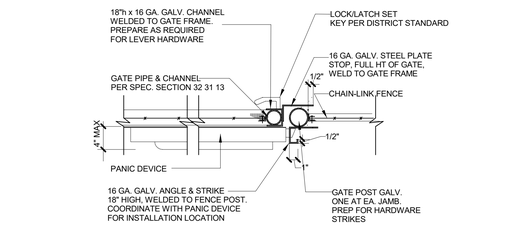
SLAB JOINT - COURT FENCE POST — 6 — 1 1/2" = 1'-0" — A1.3.1



TENNIS COURT POST FOOTING — 2 — 1 1/2" = 1'-0" — A1.3.1

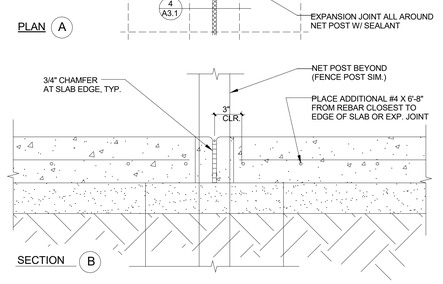


TRANSITION @ A.C. PAVING — 14 — 1" = 1'-0" — A1.3.1

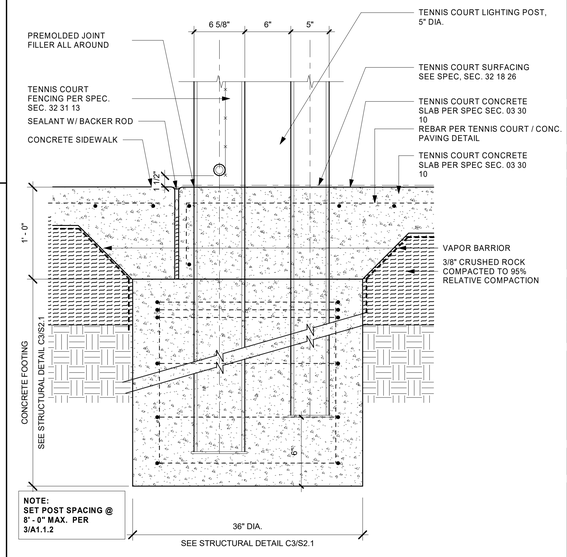


NOTE: GATES AT SWIMMING POOL ENCLOSURE SHALL BE EQUIPPED WITH SELF- CLOSING AND SELF -LATCHING DEVICES.

DETAIL @ GATE PANIC HARDWARE — 11 — 1 1/2" = 1'-0" — A1.3.1

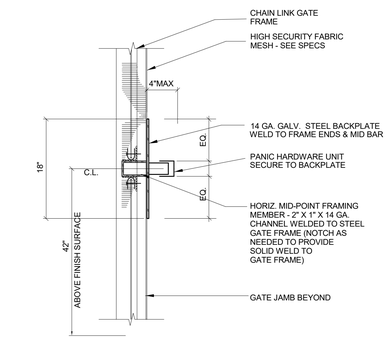


SLAB DETAIL - TENNIS COURT NET POST — 7 — 1 1/2" = 1'-0" — A1.3.1

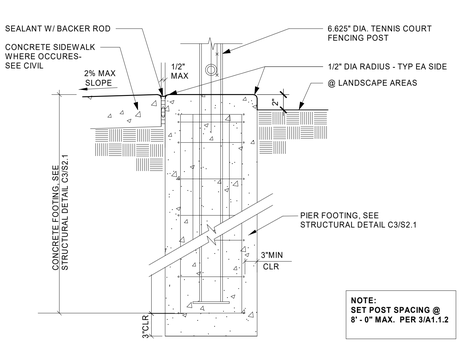


TENNIS FENCE & LIGHT POST FOOTING — 3 — 1 1/2" = 1'-0" — A1.3.1

0422-1003



SECTION DETAIL @ GATE PANIC HARDWARE — 12 — 1 1/2" = 1'-0" — A1.3.1



FENCE POST FOOTING — 8 — 1 1/2" = 1'-0" — A1.3.1

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PROJECT NAME

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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. C 12625 REN. 08-31-21 STATE OF CALIFORNIA

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PROJECT MANAGER
LEB

DESIGN TEAM
FM/ RG/ JR/ CL/ TA

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CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.

6121235305

SHEET TITLE

SITE DETAILS

SHEET NUMBER

A1.3.1

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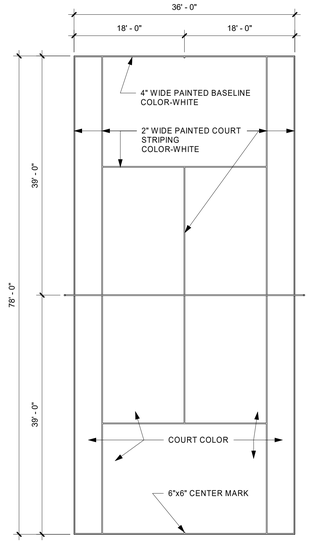
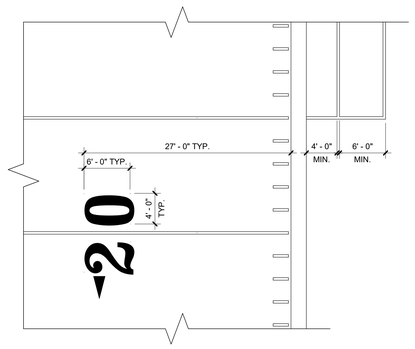
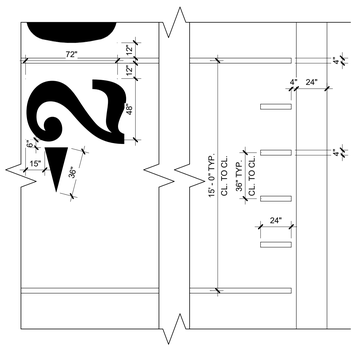


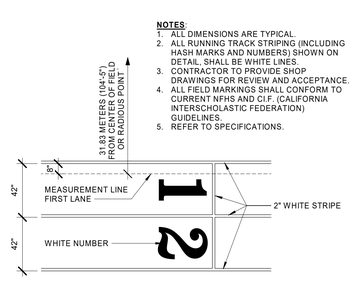
TENNIS COURT STRIPING 8
1" = 10'-0" A1.3.2



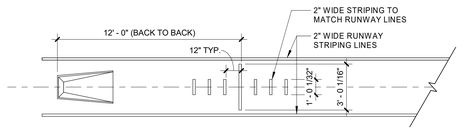
ENLARGED STRIPING DETAIL 5
1/8" = 1'-0" A1.3.2



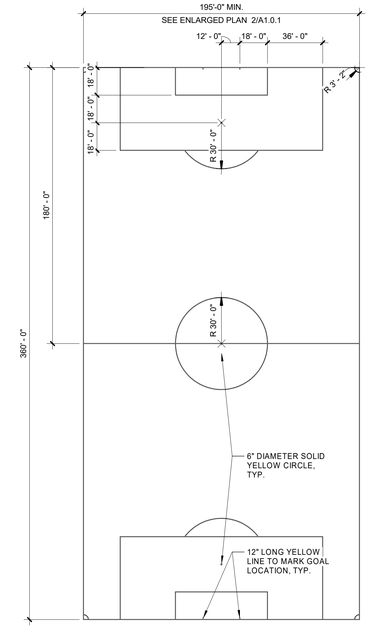
ENLARGED STRIPING DETAIL 6
1/4" = 1'-0" A1.3.2



RUNNING TRACK STRIPING 3
1/4" = 1'-0" A1.3.2

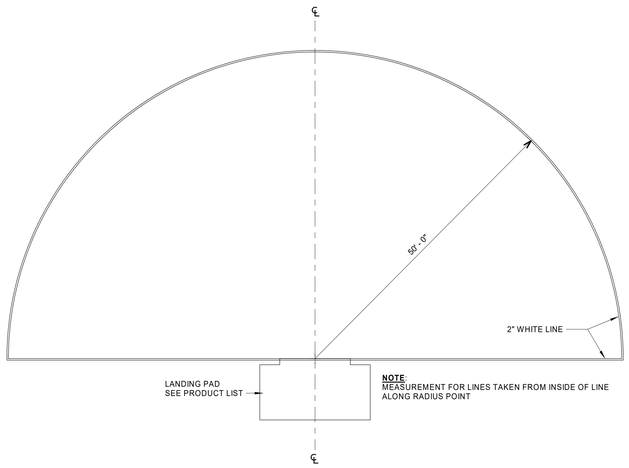


POLE VAULT STRIPING 4
1/4" = 1'-0" A1.3.2



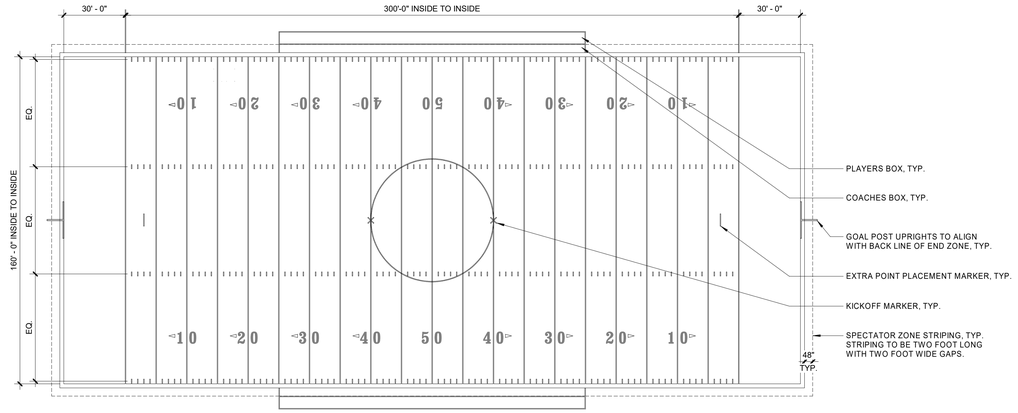
NOTES:
1. DIMENSIONS ARE SHOWN FROM OUTSIDE TO OUTSIDE OF 4" WIDE LINE.
2. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.
4. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F (CALIFORNIA. INTERSCHOLASTIC FEDERATION) GUIDELINES.

SOCCER FIELD STRIPING 1
1" = 40'-0" A1.3.2



HIGH JUMP STRIPING 7
1" = 10'-0" A1.3.2

NOTES:
1. ALL DIMENSIONS ARE TYPICAL.
2. ALL STADIUM FOOTBALL FIELD STRIPING (INCLUDING HASH MARKS AND NUMBERS) SHOWN ON DETAIL, SHALL BE INLAID OR TUFTED WHITE LINES.
3. THE STADIUM FOOTBALL FIELD COACHES BOX AND PLAYERS BOX EXTENDS FROM 25 YARD LINE TO 25 YARD LINE, AND HAVE SAME DIMENSIONS.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.
5. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F. (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.
6. REFER TO SPECIFICATIONS, SITE FURNISHINGS AND SYNTHETIC TURF PLAYING FIELD.



FOOTBALL FIELD STRIPING 2
1" = 30'-0" A1.3.2

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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT
JAY R TITTMAN
No. C-26,
Renewal 08-31
STATE OF CALIFORNIA

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PROJECT NO.
6121235305

SHEET TITLE
T+F STRIPING DETAILS

SHEET NUMBER
A1.3.2

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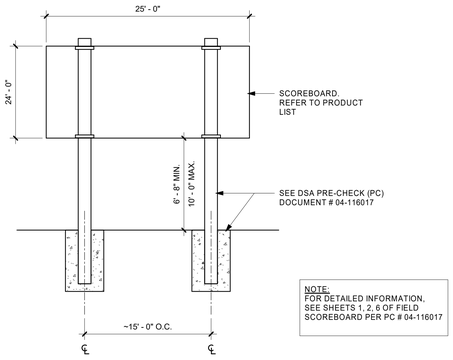
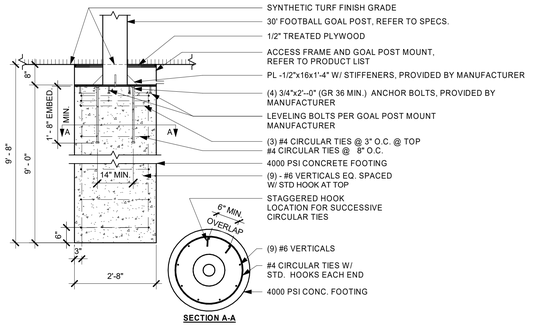


NOTE:
FOR DETAILED INFORMATION, SEE SHEETS 1, 2, 6 OF FIELD SCOREBOARD PER PC # 04-116017

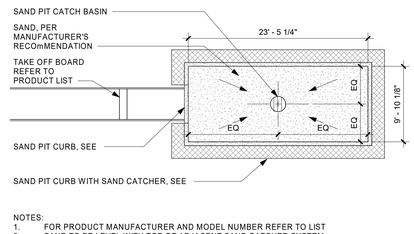
SCOREBOARD 13
1/4" = 1'-0" A1.3.3



SECTION A-A

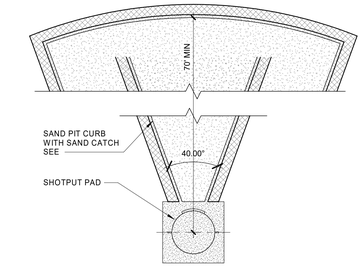
NOTES:
1. ENSURE THAT THE FRONT EDGES OF THE CROSSBARS ARE 360'-0" FROM EACH OTHER, AND THAT THE FRONT EDGE OF THE CROSSBAR IS IN LINE WITH THE FRONT EDGE OF THE BACK LINE OF THE FOOTBALL END ZONE.
2. INSTALL THE GOAL POSTS SO THAT THE TOP OF THE CROSSBARS ARE 10 FEET ABOVE THE FINISH GRADE OF THE TURF, MEASURED AT THE CENTER OF THE CROSSBAR.

FOOTBALL GOAL POST 9
1/2" = 1'-0" A1.3.3

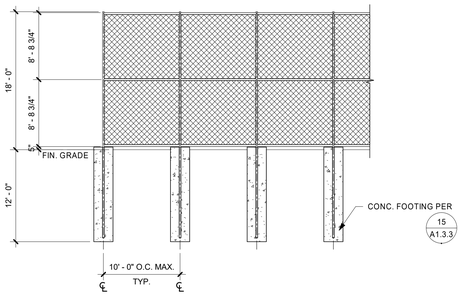


NOTES:
1. FOR PRODUCT MANUFACTURER AND MODEL NUMBER REFER TO LIST
2. SAND TO BE LEVEL WITH TOP OF ADJACENT SAND CATCHER SYSTEM
3. THIS DETIAL IS FOR POURED IN PLACE JUMP PIT

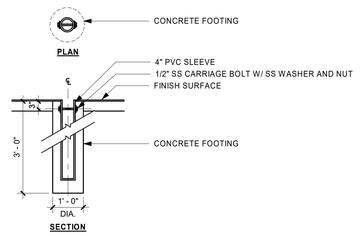
SAND PIT / TAKE OFF STRIPING 5
1/8" = 1'-0" A1.3.3



SHOT PUT THROWING SECTOR 1
1" = 10'-0" A1.3.3

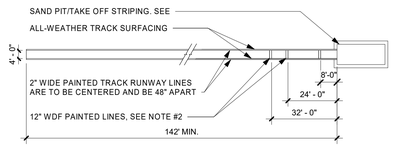


ENCLOSURE @ SOFTBALL/BASEBALL FIELDS 14
1/8" = 1'-0" A1.3.3



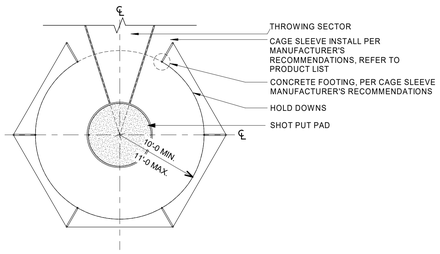
SECTION

HOLD DOWNS 10
1/2" = 1'-0" A1.3.3



NOTES:
1. DIMENSIONS TO TAKE OFF ARE MEASURED FROM FACE OF LANDING PIT EDGE.
2. COLOR OF 32' TRIPLE JUMP TAKE OFF LINE SHALL BE WHITE AND 24' TAKE OFF LINE SHALL BE PASTEL GREEN.

LONG / TRIPLE JUMP 6
1" = 30'-0" A1.3.3



THROWING CAGE 2
1/8" = 1'-0" A1.3.3

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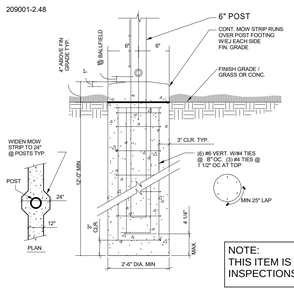
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

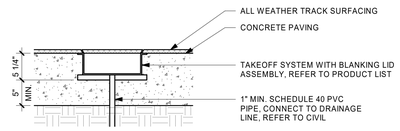
SHEET TITLE
T+F CONSTRUCTION DETAILS

SHEET NUMBER
A1.3.3

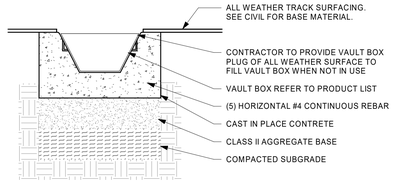


NOTE:
THIS ITEM IS EXEMPTED FOR SPECIAL INSPECTIONS PER DSA 103.

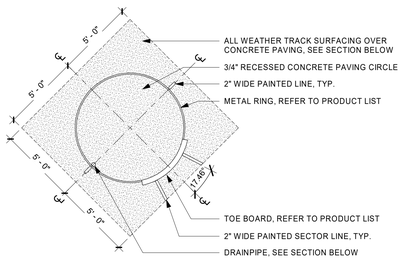
CONC. FOOTING AT BASEBALL/SOFTBALL ENCLOSURE 15
1" = 1'-0" A1.3.3



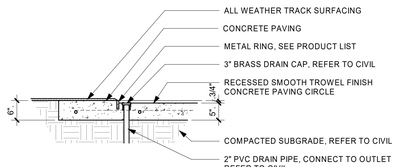
TAKE-OFF BOARD 11
1" = 1'-0" A1.3.3



POLE VAULT BOX 7
1" = 1'-0" A1.3.3

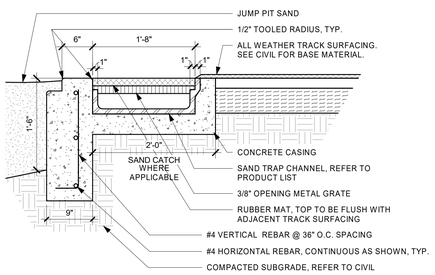


PLAN

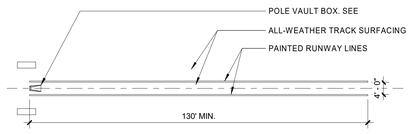


SECTION

SHOT PUT 3
1/4" = 1'-0" A1.3.3



SAND PIT CURB AND SAND CATCHER 12
1" = 1'-0" A1.3.3



POLE VAULT 8
1" = 20'-0" A1.3.3

1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENT ARE FOR BIDDING ONLY. REFER TO PRODUCT LIST AND SHOP DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.

EQUIPMENT NOTES 4
12" = 1'-0" A1.3.3

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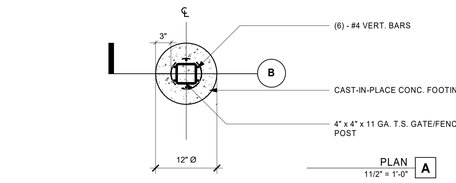
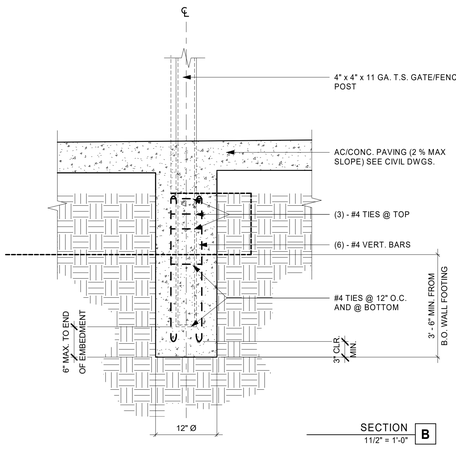
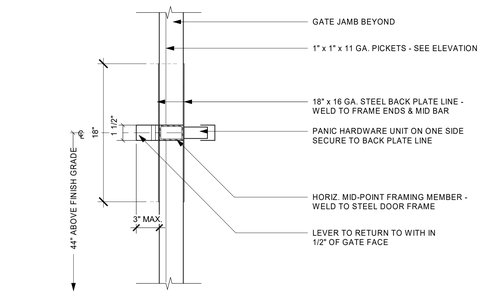


PLAN A
11/2" = 1'-0"



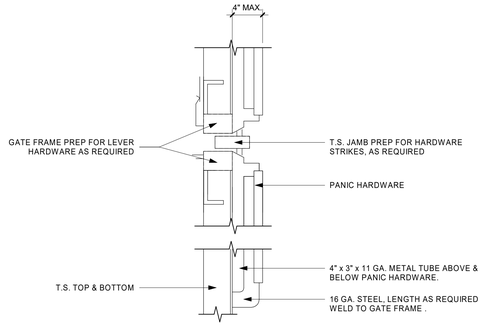
SECTION B
11/2" = 1'-0"

FABRICATED METAL GATE/ FENCE POST FOOTING @ GATEWAYS 9
1" = 1'-0" A1.3.4

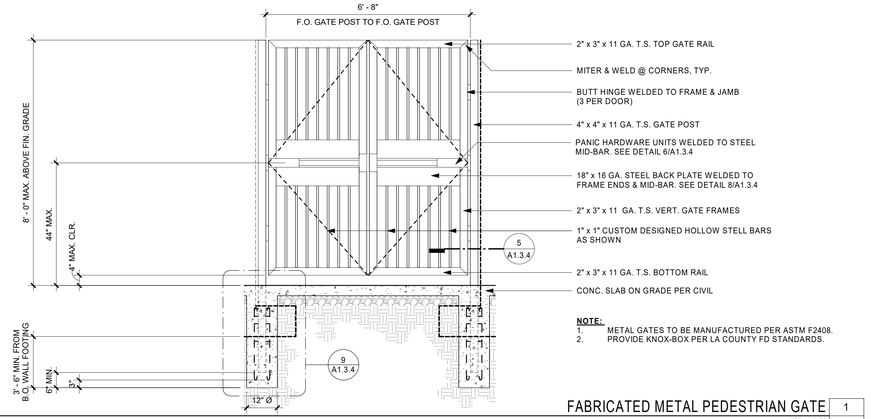


NOTE:
PROVIDE 1 1/2" ø STEEL PULL w/ WELDED ATTACHMENT ON ONE SIDE. PROVIDE HOLD OPEN & STOP ASSEMBLY. PROVIDE 10" x 16 GA. MIN. METAL KICKPLATE @ BOTTOM OF GATE ON BOTH SIDES OF GATE LEAF.

PANIC HARDWARE @ FABRICATED GATE - SECTION 6
1 1/2" = 1'-0" A1.3.4

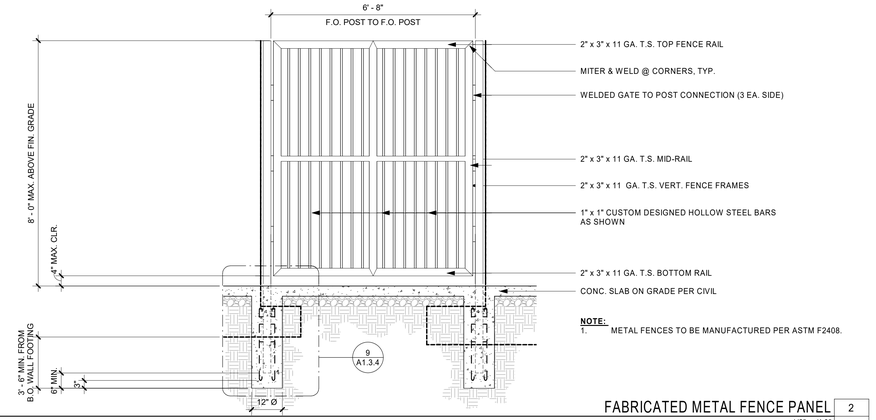


PANIC HARDWARE @ FABRICATED GATE - PLAN 7
1 1/2" = 1'-0" A1.3.4



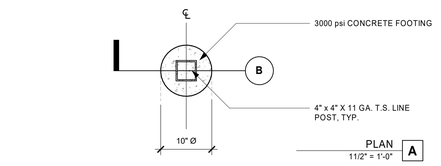
NOTE:
1. METAL GATES TO BE MANUFACTURED PER ASTM F2408.
2. PROVIDE KNOX-BOX PER LA COUNTY FD STANDARDS.

FABRICATED METAL PEDESTRIAN GATE 1
1/2" = 1'-0" A1.3.4

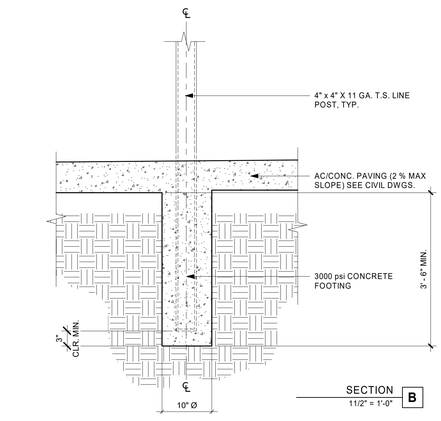


NOTE:
1. METAL FENCES TO BE MANUFACTURED PER ASTM F2408.

FABRICATED METAL FENCE PANEL 2
1/2" = 1'-0" A1.3.4

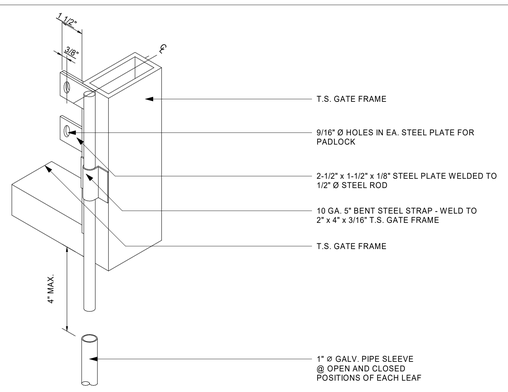


PLAN A
11/2" = 1'-0"

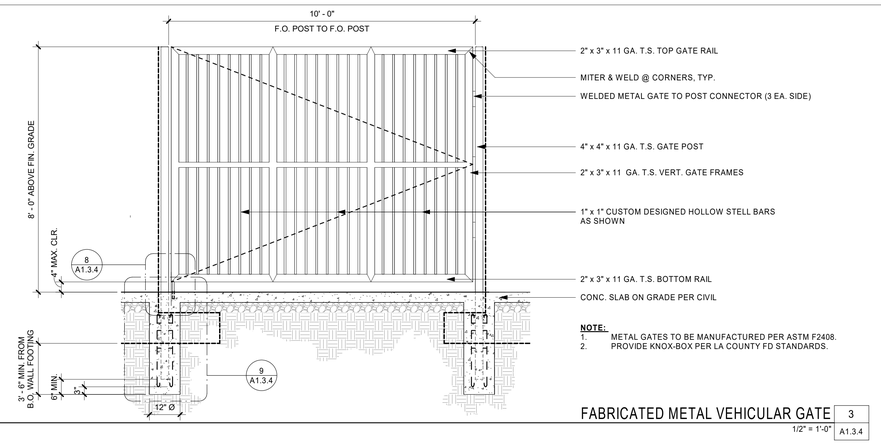


SECTION B
11/2" = 1'-0"

FENCE POST FOOTING (@ RUNS ONLY) 10
1" = 1'-0" A1.3.4

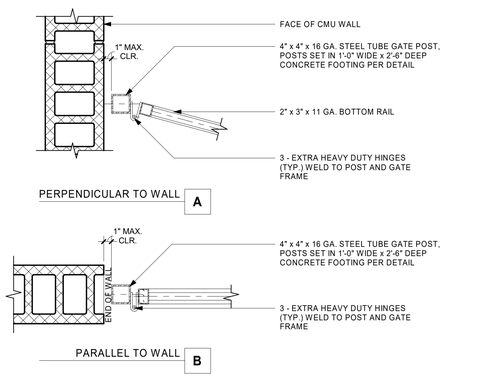


CANE BOLT ASSEMBLY FOR FABRICATED GATE 8
3" = 1'-0" A1.3.4

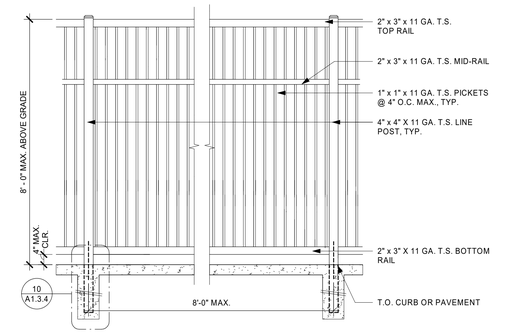


NOTE:
1. METAL GATES TO BE MANUFACTURED PER ASTM F2408.
2. PROVIDE KNOX-BOX PER LA COUNTY FD STANDARDS.

FABRICATED METAL VEHICULAR GATE 3
1/2" = 1'-0" A1.3.4



FABRICATED GATE HINGE @ WALL 5
1 1/2" = 1'-0" A1.3.4



NOTE:
1. FABRICATED METAL FENCES TO BE MANUFACTURED PER ASTM F2408.

FABRICATED TYPICAL METAL FENCE PANEL 4
1/2" = 1'-0" A1.3.4

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AGENCY REVIEW

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DATE: 03/09/2020

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1300 Dove Street, Suite 100
Newport Beach, CA. 92660
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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT TAFT R. TITUS NO. C-33015 REN. 08/31/21 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

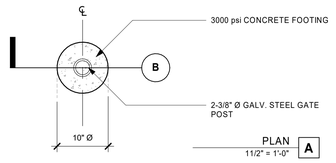
PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

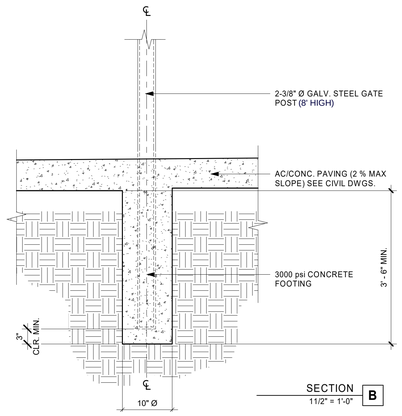
PROJECT NO.
6121235305

SHEET TITLE
SITE DETAILS - GATEWAYS

SHEET NUMBER
A1.3.4



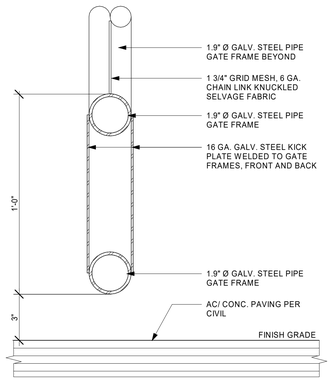
PLAN 11/2" = 1'-0" A



SECTION 11/2" = 1'-0" B

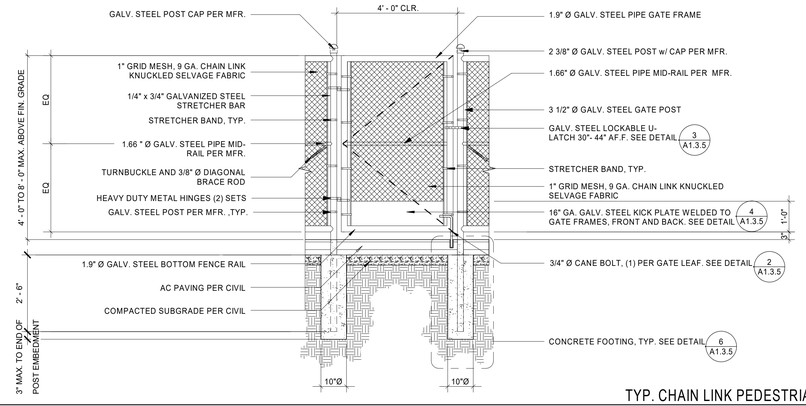
FENCE POST FOOTING (@ RUNS ONLY)

1" = 1'-0" | 6 | A1.3.5



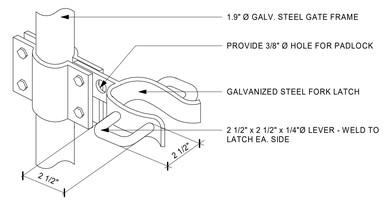
CHAINLINK GATE KICK PLATE

3" = 1'-0" | 4 | A1.3.5



TYP. CHAIN LINK PEDESTRIAN GATE

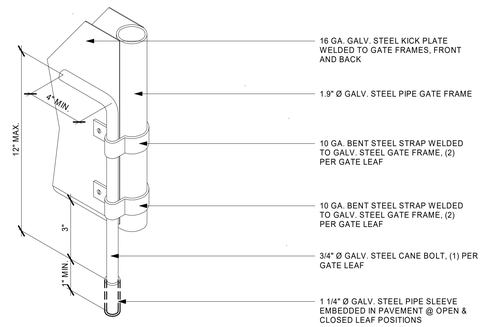
1/2" = 1'-0" | 1 | A1.3.5



NOTE:
HOT-DIP GALVANIZE LATCH ASSEMBLY AFTER WELDING LEVERS TO LATCH

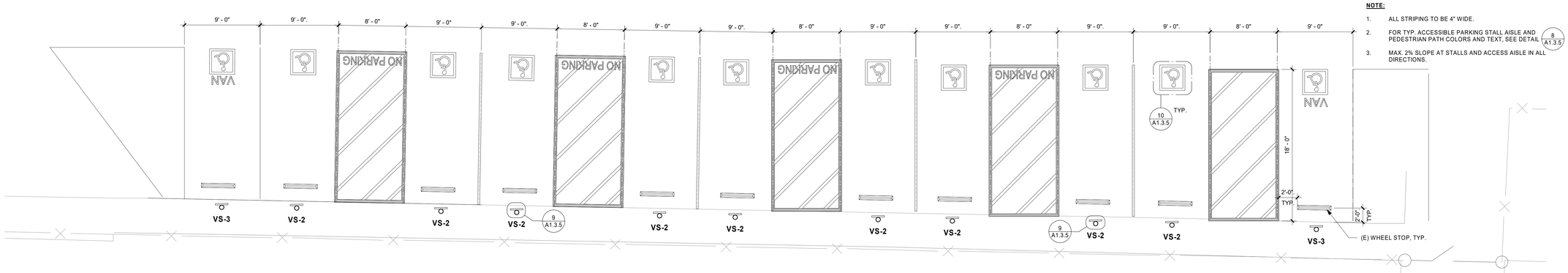
CHAINLINK GATE NON-GRASP LATCH

6" = 1'-0" | 3 | A1.3.5



CHAINLINK GATE CANE BOLT ASSEMBLY

3" = 1'-0" | 2 | A1.3.5



NOTE:

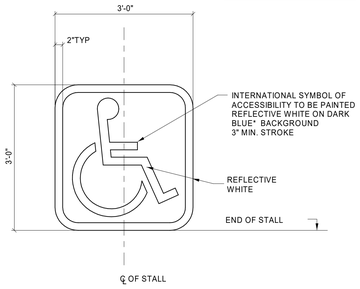
1. ALL STRIPING TO BE 4" WIDE.
2. FOR TYP. ACCESSIBLE PARKING STALL AISLE AND PEDESTRIAN PATH COLORS AND TEXT, SEE DETAIL 8 A1.3.5
3. MAX. 2% SLOPE AT STALLS AND ACCESS AISLE IN ALL DIRECTIONS.

(E) ACCESSIBLE PARKING PLAN

3/16" = 1'-0" | 7 | A1.3.5

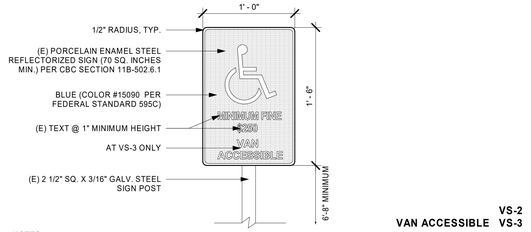
* NOTE:

BLUE BACKGROUND COLOR SHALL BE: COLOR NO. 15090 IN FEDERAL STD. 595B



INTERNATIONAL SIGN OF ACCESSIBILITY SYMBOL

3/4" = 1'-0" | 10 | A1.3.5



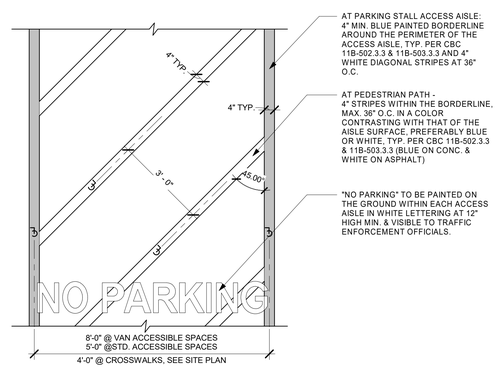
VAN ACCESSIBLE VS-2 VS-3

NOTES:

1. SIGN LOCATIONS SHOWN ON ENLARGED PLAN 1/A1.1.3. (E) SIGN POSTED AT EACH ACCESSIBLE PARKING STALL PER PLAN.
2. (E) "VAN ACCESSIBLE" SIGN (VS-3) DISPLAYED AT VAN ACCESSIBLE STALLS PER PLANS.
3. "VAN ACCESSIBLE" TEXT (FOR VS-3)EXCLUDED @ TYPICAL ACCESSIBLE STALL SIGNS.
2. MECHANICAL MOUNTING W/ VANDAL-RESISTANT FASTENERS PROVIDED. COMPLIANT W/ TITLE 24 AND AMERICANS WITH DISABILITIES ACT (A.D.A.) REQUIREMENTS.
3. CHARACTER PROPORTIONS ARE PER CBC 11B-703.2.4.
4. CHARACTERS AND SYMBOLS CONTRAST WITH THEIR BACKGROUND PER CBC 11B-703.5.1 (70%MIN.).
5. LETTERS, NUMBERS AND GRAPHICS ON SIGNS ARE SANS-SERIF UPPERCASE CHARACTERS.

TYP. ACCESSIBLE PARKING STALL SIGNAGE

1 1/2" = 1'-0" | 9 | A1.3.5



(E) ACCESSIBLE PARKING STALL AISLE AND PEDESTRIAN PATH

1/2" = 1'-0" | 8 | A1.3.5

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AGENCY REVIEW

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DATE: 03/09/2020

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PROJECT NAME

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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

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ISSUE DATE
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REVISIONS

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PROJECT TEAM

PRINCIPAL IN CHARGE
JT

PROJECT MANAGER
LEB

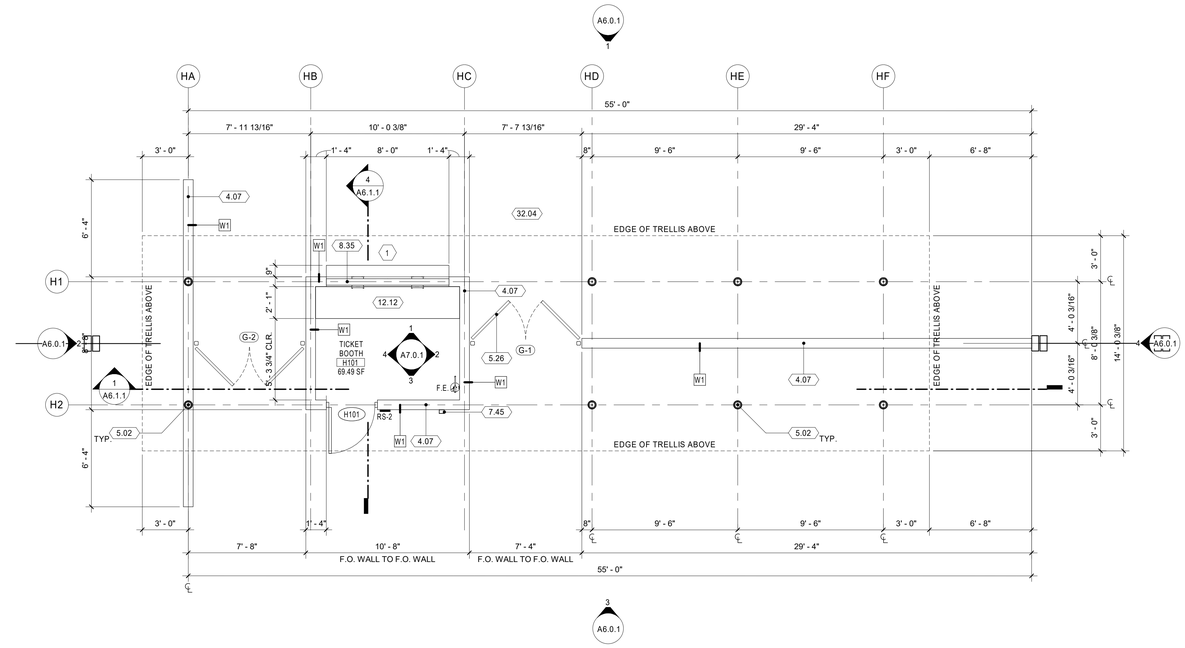
DESIGN TEAM
FM/RG/CL/TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

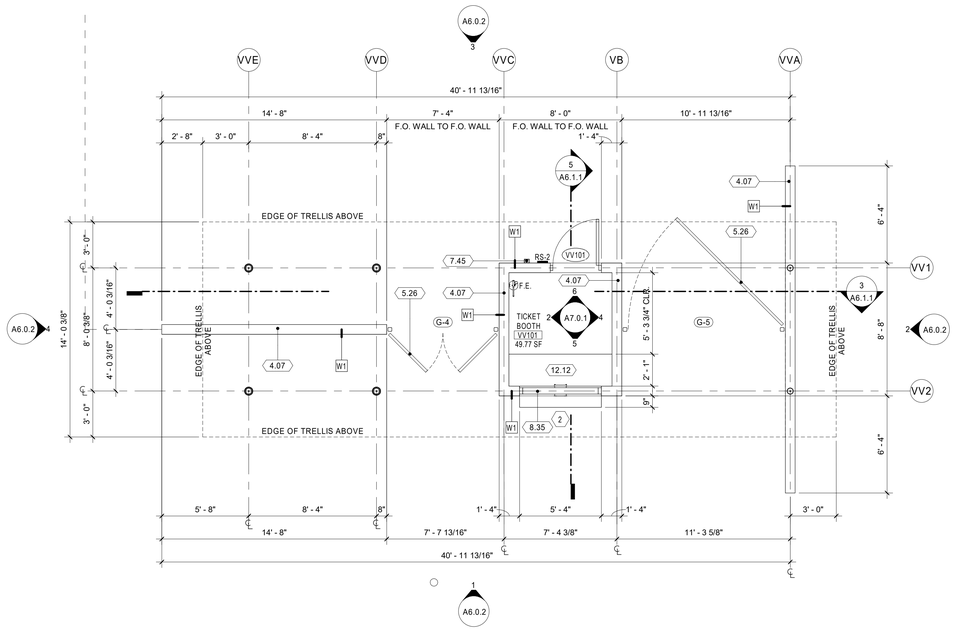
PROJECT NO.
6121235305

SHEET TITLE
SITE DETAILS - FENCES AND (E) ACCESSIBLE PARKING

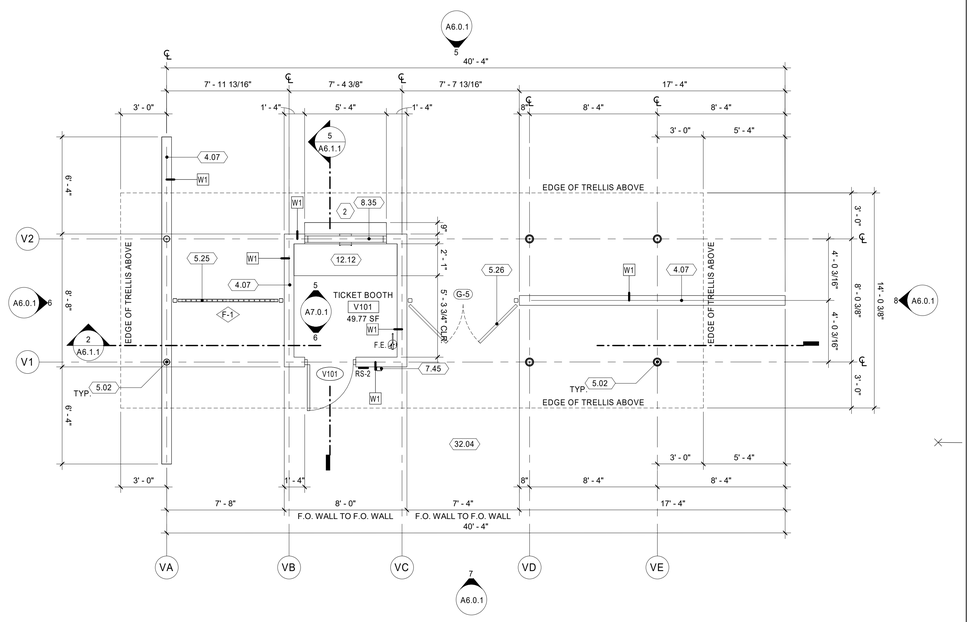
SHEET NUMBER
A1.3.5



HOME GATEWAY - FLOOR PLAN 1
1/4" = 1'-0" A2.0.1



GATEWAY 3 - FLOOR PLAN 3
1/4" = 1'-0" A2.0.1



GATEWAY 2 - FLOOR PLAN 2
1/4" = 1'-0" A2.0.1

KEYNOTES

4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
5.02	STEEL COLUMN PER STRUCTURAL - 05 12 00
5.25	FABRICATED STEEL FENCE - 05 50 00
5.26	FABRICATED STEEL GATE - 05 50 00
7.45	METAL SCUPPER - 07 60 00
8.35	ALUMINUM PASS THRU WINDOW WITH SPEAK THROUGH DEVICE- 08 56 19
12.12	STAINLESS STEEL COUNTERTOP - 12 36 00
32.04	CONCRETE PAVING - 32 13 13

FLOOR PLAN LEGEND

- NEW WALL
- RS-2 — SIGNAGE TYPE
- W1 — WALL TAG
- F.E. — BRACKET-MOUNTED PORTABLE FIRE EXTINGUISHER. MIN. 2-A-10BC RATING

CONSTRUCTION NOTES

1. REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS WHEN APPLICABLE. CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF WORK IN QUESTION.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL WALL/PARTITION LOCATIONS, DIMENSIONS AND TYPES, DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT.

AGENCY REVIEW

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APP. 03-120287 INC:
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1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT
LAY R. TITTLE
No. C-13535
REN. 08-31-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JT

PROJECT MANAGER
LEB

DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
FLOOR PLANS - GATEWAYS AND FENCES

SHEET NUMBER
A2.0.1

C:\Users\famaz.mahjoob\Documents\6121235305 OXNARD UHSD CHANNEL ISLANDS HS TRACK & FIELD IMPROVEMENTS-CENTRAL 2018_famaz.mahjoob.rvt

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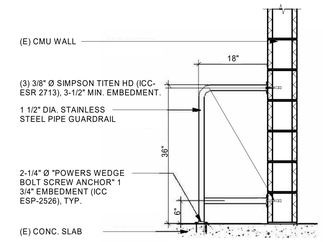
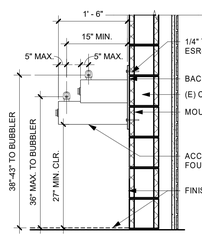
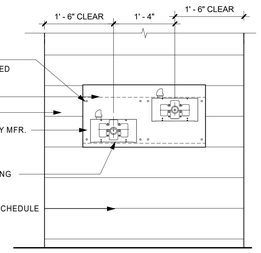


PROTECTION RAIL SIDE ELEVATION



DRINKING FOUNTAIN SIDE ELEVATION

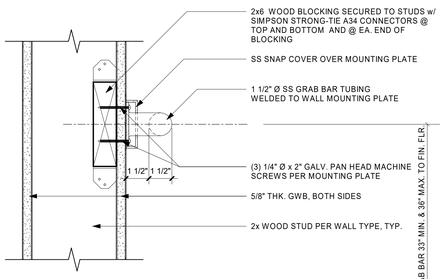


DRINKING FOUNTAIN FRONT ELEVATION

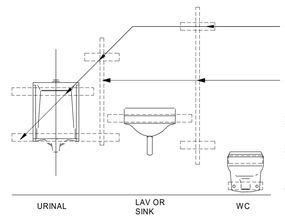
NOTE:

1. MINIMIZE OPENINGS ON (E) CMU WALL. DO NOT DAMAGE (E) REBARS. CONTRACTOR TO LOCATE (E) REBARS PRIOR TO PENETRATING CMU WALL. MAX 8" x 8" OPENINGS IN CMU WALL.
2. CONTRACTOR TO VERIFY WITH MANUFACTURER (ELKAY OR EQUAL) ON PLACEMENT OF WATER SUPPLY, DRAINAGE LINES, AND ACCESS PANELS ON (E) FURRING WALL BEHIND CMU WALL. CONTRACTOR TO CONNECT TO NEAREST (E) WATER SUPPLY AND DRAINAGE LINES.
3. PATCH AND REPAIR CERAMIC TILES ON FURRING WALL TO MATCH (E).

DRINKING FOUNTAIN & PROTECTION RAIL ANCHORAGE @ (E) CMU WALL — 3 / A2.0.2
3/4" = 1'-0"



GRAB BAR ANCHORAGE @ FURRING WALL — 7 / A2.0.2
3" = 1'-0"

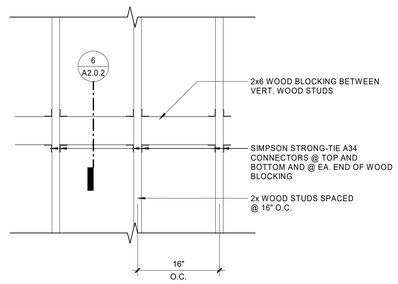


TYP. PARTITION/SCREEN SUPPORT:
PLATE WELDED TO 3 STUDS MIN.

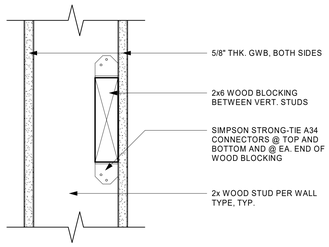
TYP. FIXTURE SUPPORT:
PLATE WELDED TO 3 STUDS MIN.

NOTES:
1. VERIFY LOCATION OF PLATE WITH TYPE & LOCATION OF FIXTURE OR PARTITION BEFORE INSTALLATION.
2. SEE PLAN FOR ACTUAL FIXTURE LOCATION.

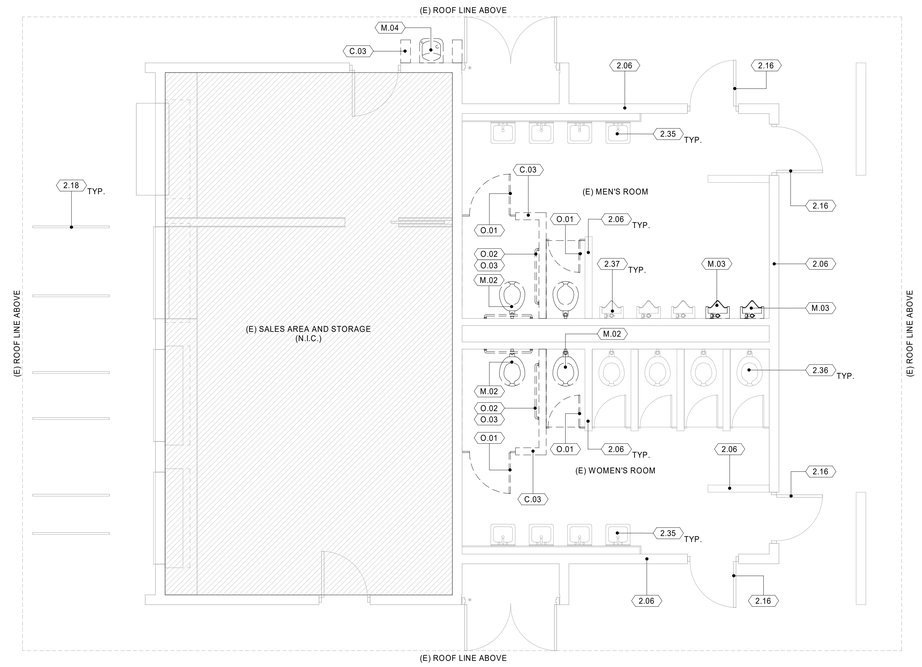
TOILET FIXTURE SUPPORT — 4 / A2.0.2
12" = 1'-0"



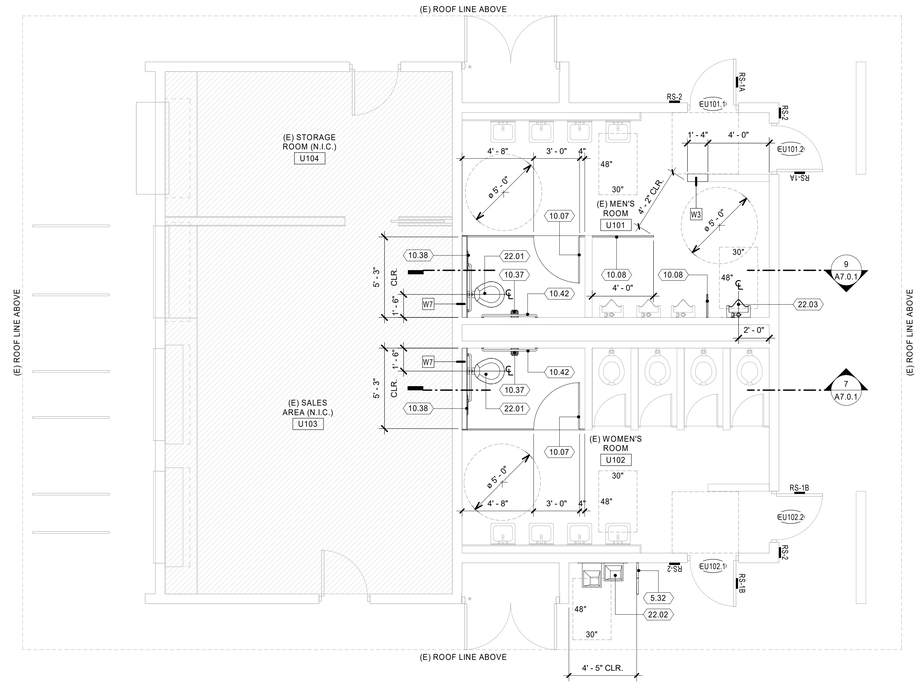
TYP. BLOCKING IN WOOD STUD WALL — 5 / A2.0.2
1" = 1'-0"



TYP. BLOCKING SECTION — 6 / A2.0.2
3" = 1'-0"



(E) UNIT 'U' RESTROOMS - DEMOLITION PLAN — 1 / A2.0.2
1/4" = 1'-0"



(E) UNIT 'U' RESTROOMS - CONSTRUCTION FLOOR PLAN — 2 / A2.0.2
1/4" = 1'-0"

KEYNOTES

C.03	REMOVE (E) CONCRETE MASONRY WALL. PATCH AND REPAIR AFFECTED AREA OF FLOOR TO MEET AND MATCH (E) ADJACENT FLOOR FINISH.
M.02	REMOVE (E) WATER CLOSET AND ASSOCIATED PLUMBING AND ACCESSORIES. SEE PLUMBING DRAWINGS FOR PORTION OF (E) PLUMBING LINES TO BE RETAINED AND PROTECTED FOR CONNECTION TO (N) FIXTURES.
M.03	REMOVE (E) URINAL AND ASSOCIATED PLUMBING AND ACCESSORIES. SEE PLUMBING DRAWINGS FOR PORTION OF (E) PLUMBING LINES TO BE RETAINED AND PROTECTED FOR CONNECTION TO (N) FIXTURES.
M.04	REMOVE (E) DRINKING FOUNTAIN, ANCHORAGE AND ASSOCIATED PLUMBING AND ACCESSORIES.PATCH AND REPAIR AFFECTED AREA OF WALL TO MATCH EXISTING.
O.01	REMOVE (E) PARTITIONS AND DOORS, ANCHORAGE AND ASSOCIATED HARDWARE AND ACCESSORIES.
O.02	REMOVE (E) GRAB BARS, ANCHORAGE AND ASSOCIATED HARDWARE. PATCH/REPAIR ADJACENT FINISHES DAMAGED IN THE COURSE OF REMOVAL.
O.03	REMOVE (E) TOILET ACCESSORIES, ANCHORAGE AND ASSOCIATED HARDWARE. PATCH/REPAIR ADJACENT FINISHES DAMAGED IN THE COURSE OF REMOVAL.
2.06	(E) CONCRETE MASONRY WALL TO REMAIN. PROTECT IN PLACE.
2.16	(E) DOOR TO REMAIN. PROTECT IN PLACE.
2.18	(E) METAL RAILING TO REMAIN. PROTECT IN PLACE.
2.35	(E) WALL-HUNG LAVATORY TO REMAIN. PROTECT IN PLACE.
2.36	(E) WATER CLOSET TO REMAIN. PROTECT IN PLACE.
2.37	(E) URINAL TO REMAIN. PROTECT IN PLACE.
5.32	STEEL PIPE PROTECTION RAIL. SEE DETAIL 3/A2.0.2 - 05 50 00
10.07	HDPE TOILET COMPARTMENT AND DOOR - 10 21 14
10.08	HDPE URINAL SCREEN. SEE DETAIL 4/A2.0.2 FOR ANCHORAGE - 10 21 14
10.37	SURFACE-MOUNTED TOILET PAPER HOLDER - 10 28 00
10.38	RECESSED TOILET SEAT COVER DISPENSER - 10 28 00
10.42	GRAB BAR. SEE DETAIL 7/A2.0.2 FOR ANCHORAGE - 10 28 00
22.01	WALL-HUNG WATER CLOSET. SEE DETAIL 4/A2.0.2 FOR ANCHORAGE - 22 40 00
22.02	HI-LO DRINKING FOUNTAIN. SEE DETAIL 3/A2.0.2 FOR ANCHORAGE - 22 40 00
22.03	ACCESSIBLE WALL-HUNG URINAL. SEE DETAIL 4/A2.0.2 FOR ANCHORAGE - 22 40 00

DEMOLITION PLAN LEGEND

- EXISTING ITEM TO REMAIN
- EXISTING ITEM TO BE REMOVED/DEMOLISHED
- EXISTING WALL TO REMAIN
- AREA NOT INCLUDED IN SCOPE OF WORK (N.I.C.)
- EXISTING DOOR TO REMAIN

DEMOLITION NOTES

1. THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR IN CONTRACT OR AS REQUIRED TO CLEAR THE AREAS FOR NEW CONSTRUCTION.
2. ALL DEMOLITION WORK SHALL BE PREFORMED WITH "DUE CARE AND DILIGENCE" AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED, OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT PRIOR TO REMOVAL FOR FINAL DISPOSITION.
3. WORK DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND PATCHED OR REPAIRED SHOULD DAMAGE OCCUR.
4. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
5. ALL DEBRIS BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED DAILY FROM THE PREMISES AT THE CONTRACTOR'S EXPENSE AND BE DISPOSED OF ACCORDING TO LOCAL CODES AND GOVERNING AUTHORITIES. VERIFY SALVAGE MATERIALS WITH THE OWNER'S REPRESENTATIVE.
6. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH NEW ELECTRICAL WORK.
7. CONTRACTOR SHALL CONSULT OTHER TRADES PRIOR TO COMMENCING DEMOLITION WORK, TO AVOID CONFLICT.
8. DEMOLITION DRAWINGS ARE DIAGRAMMATIC AND SHOW INTENT OF WORK TO BE DONE. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR REQUIRED AND COST FOR REMOVAL OF ALL SYSTEMS CALLED FOR IN CONTRACT.
9. ALL EXISTING CONSTRUCTION SHALL REMAIN UNLESS NOTED OTHERWISE.
10. CONTRACTOR TO PATCH AND REPAIR ALL AREAS AFFECTED BY THE DEMOLITION.
11. CONTRACTORS SHALL COORDINATE THE SEQUENCE FOR DEMOLITION AND THE LOCATION OF ON-SITE STORAGE AREAS FOR EXISTING ITEMS TO BE REUSED, AND PROVIDE THE OWNER WITH COPIES OF DEMOLITION INVENTORY.

FLOOR PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING ITEM TO REMAIN
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- RS-1 — SIGNAGE TYPE
- W1 — WALL TAG

CONSTRUCTION NOTES

1. REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS WHEN APPLICABLE. CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF WORK IN QUESTION.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL WALL/PARTITION LOCATIONS, DIMENSIONS AND TYPES, DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT.

AGENCY REVIEW

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DATE: 03/09/2020

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL
LICENSED ARCHITECT JAY R. TITTLE NO. C-25305 REN. 08-31-21 STATE OF CALIFORNIA

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PRINCIPAL IN CHARGE: JT
PROJECT MANAGER: LEB
DESIGN TEAM: FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
FLOOR PLANS - UNIT 'U'

SHEET NUMBER
A2.0.2

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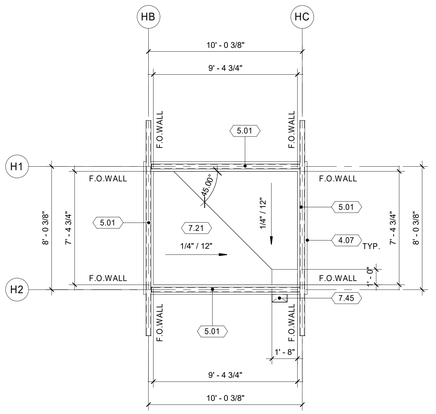
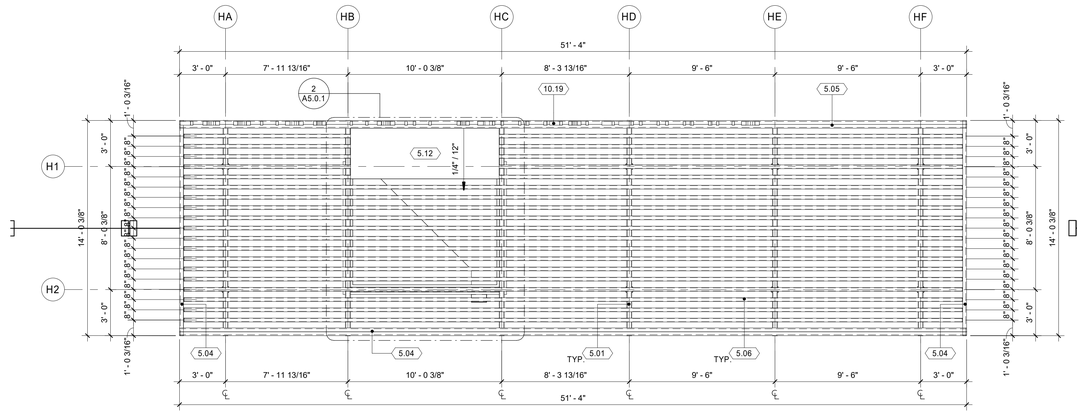


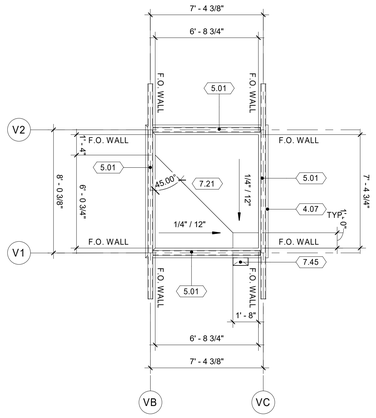
HOME GATEWAY - LOWER ROOF PLAN 2
1/4" = 1'-0" A5.0.1



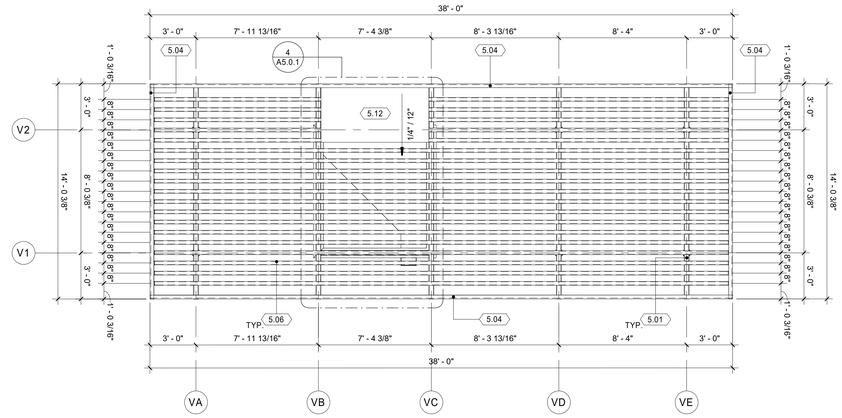
HOME GATEWAY - ROOF PLAN 1
1/4" = 1'-0" A5.0.1

KEYNOTES

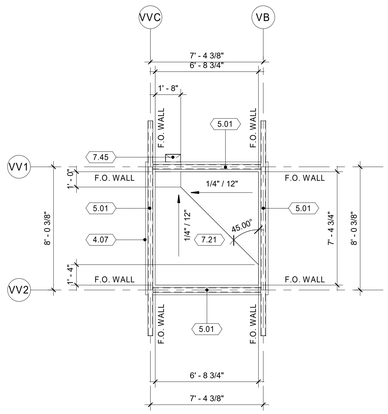
4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
5.01	STEEL BEAM PER STRUCTURAL - 05 12 00
5.04	STEEL CHANNEL PER STRUCTURAL -05 12 00
5.05	STEEL DOUBLE CHANNEL PER STRUCTURAL - 05 12 00
5.06	STEEL TUBE TRELLIS PURLIN PER STRUCTURAL - 05 12 00
5.12	METAL ROOF DECK - 05 31 00
7.21	CLASS A ROOF ASSEMBLY WITH MODIFIED BITUMEN WATERPROOFING. SEE DETAIL 1/A9.0.1 - 07 52 10
7.45	METAL SCUPPER - 07 60 00
10.19	BRUSHED ALUMINUM DIMENSIONAL SIGNAGE - 10 14 00



GATEWAY 2 - LOWER ROOF PLAN 4
1/4" = 1'-0" A5.0.1



GATEWAY 2 - ROOF PLAN 3
1/4" = 1'-0" A5.0.1



GATEWAY 3 - LOWER ROOF PLAN 6
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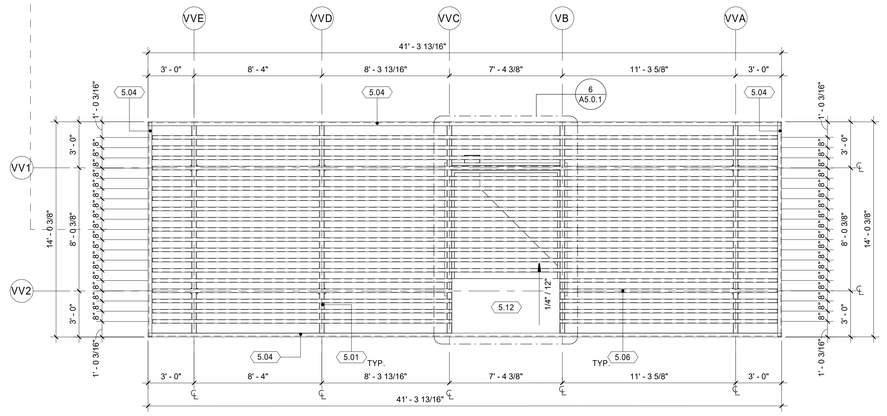

GATEWAY 3 - ROOF PLAN 5
1/4" = 1'-0" A5.0.1

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FM/ RG/ JR/ CL/ TA

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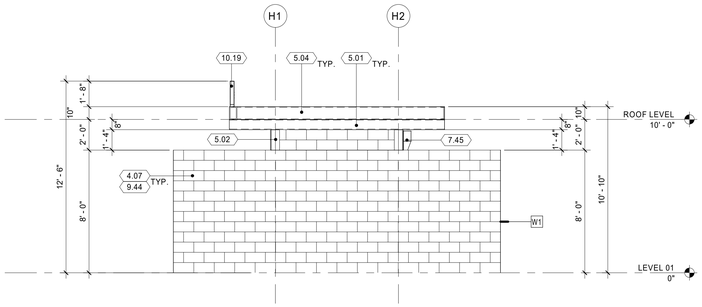
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

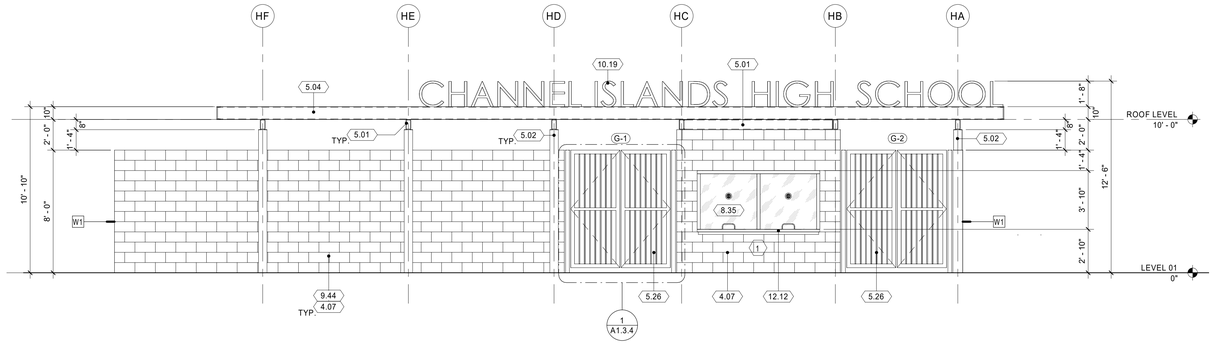
PROJECT NO.
6121235305

SHEET TITLE
ROOF PLANS - GATEWAYS

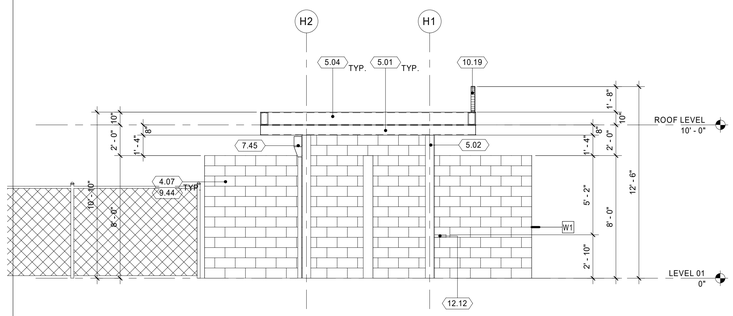
SHEET NUMBER
A5.0.1



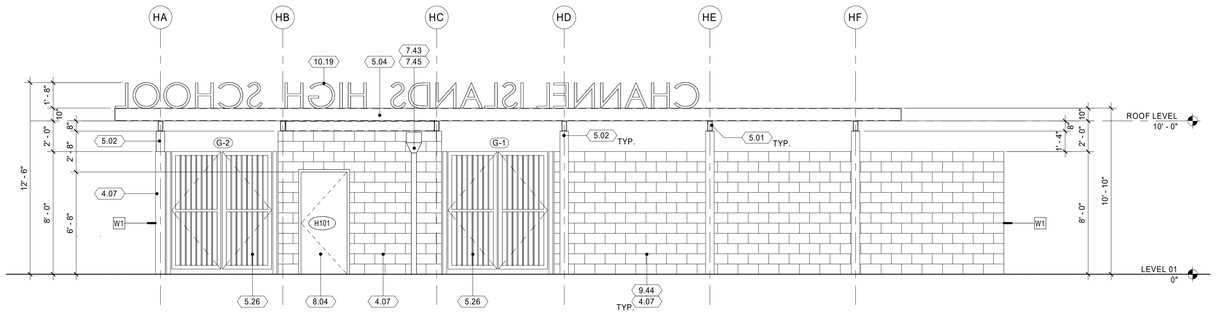
HOME GATEWAY - RIGHT SIDE ELEVATION 2
1/4" = 1'-0" A6.0.1



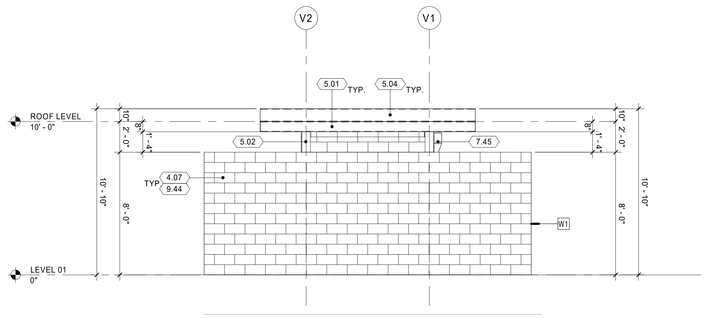
HOME GATEWAY - FRONT ELEVATION 1
1/4" = 1'-0" A6.0.1



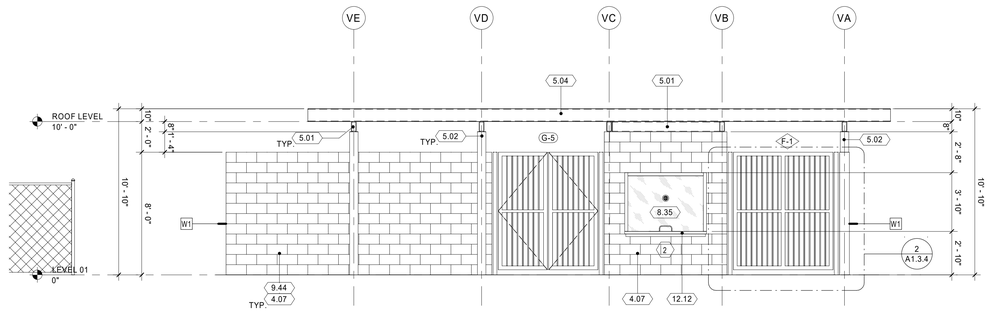
HOME GATEWAY - LEFT SIDE ELEVATION 4
1/4" = 1'-0" A6.0.1



HOME GATEWAY - REAR ELEVATION 3
1/4" = 1'-0" A6.0.1



GATEWAY 2 - RIGHT SIDE ELEVATION 6
1/4" = 1'-0" A6.0.1



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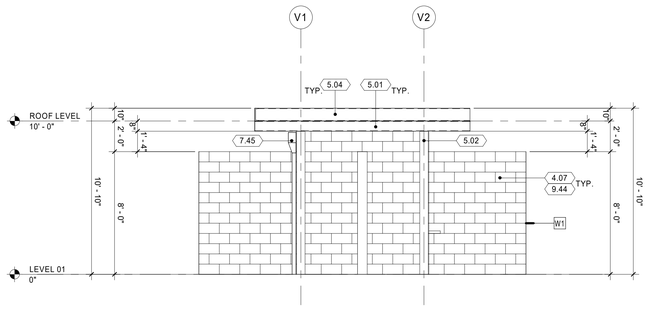

GATEWAY 2 - LEFT SIDE ELEVATION 8
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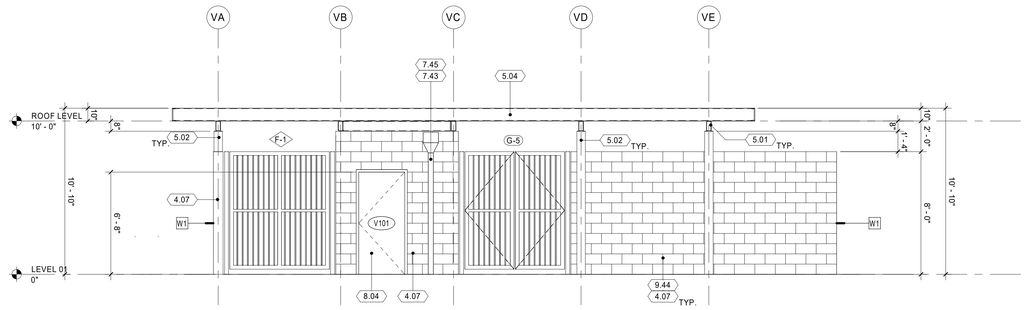

GATEWAY 2 - REAR ELEVATION 7
1/4" = 1'-0" A6.0.1

KEYNOTES

4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
5.01	STEEL BEAM PER STRUCTURAL - 05 12 00
5.02	STEEL COLUMN PER STRUCTURAL - 05 12 00
5.04	STEEL CHANNEL PER STRUCTURAL -05 12 00
5.25	FABRICATED STEEL FENCE - 05 50 00
5.26	FABRICATED STEEL GATE - 05 50 00
7.43	METAL DOWNSPOUT - 07 60 00
7.45	METAL SCUPPER - 07 60 00
8.04	HOLLOW METAL DOOR - 08 11 00
8.35	ALUMINUM PASS THRU WINDOW WITH SPEAK THROUGH DEVICE- 08 56 19
9.44	CERAMIC TILE - 09 30 13
10.19	BRUSHED ALUMINUM DIMENSIONAL SIGNAGE - 10 14 00
12.12	STAINLESS STEEL COUNTERTOP - 12 36 00

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SEAL
LICENSED ARCHITECT
JAY R. TITTLE
No. C-30305
REN. 08/31/21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
EXTERIOR ELEVATIONS - GATEWAYS

SHEET NUMBER
A6.0.1

C:\Users\famaz.mahjoob\Documents\6121235305 OXNARD UHSD CHANNEL ISLANDS HS TRACK & FIELD IMPROVEMENTS-CENTRAL 2018_famaz.mahjoob.rvt
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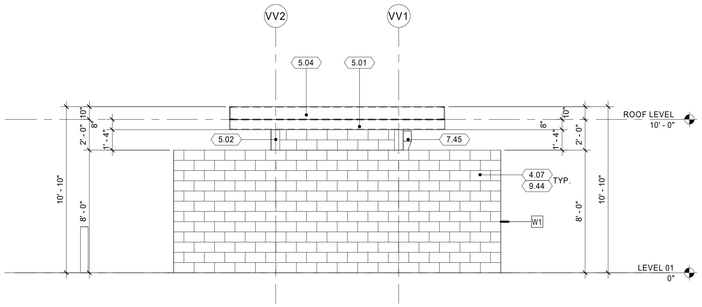
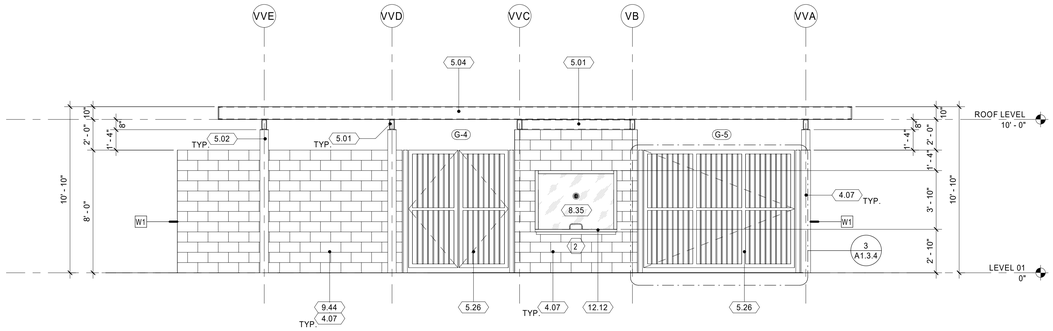
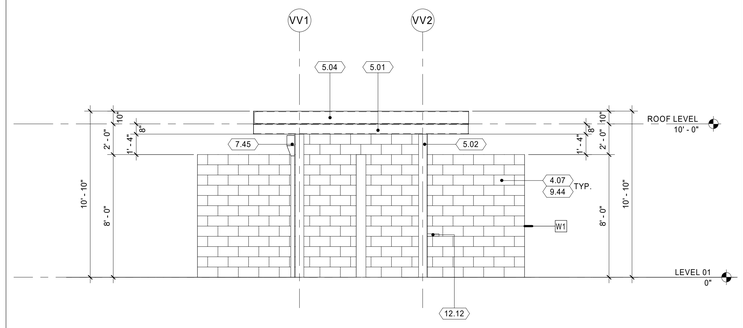


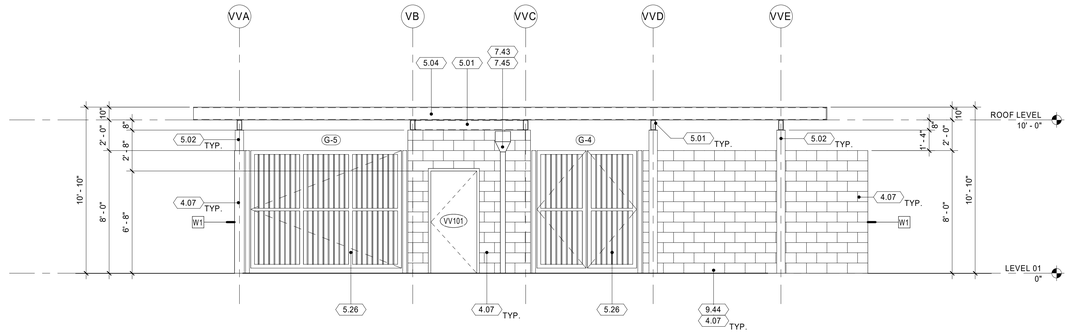
GATEWAY 3 - RIGHT SIDE ELEVATION 2 A6.0.2
1/4" = 1'-0"



GATEWAY 3 - FRONT ELEVATION 1 A6.0.2
1/4" = 1'-0"



GATEWAY 3 - LEFT SIDE ELEVATION 4 A6.0.2
1/4" = 1'-0"



GATEWAY 3 - REAR ELEVATION 3 A6.0.2
1/4" = 1'-0"

KEYNOTES

4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
5.01	STEEL BEAM PER STRUCTURAL - 05 12 00
5.02	STEEL COLUMN PER STRUCTURAL - 05 12 00
5.04	STEEL CHANNEL PER STRUCTURAL -05 12 00
5.26	FABRICATED STEEL GATE - 05 50 00
7.43	METAL DOWNSPOUT - 07 60 00
7.45	METAL SCUPPER - 07 60 00
8.35	ALUMINUM PASS THRU WINDOW WITH SPEAK THROUGH DEVICE- 08 56 19
9.44	CERAMIC TILE - 09 30 13
12.12	STAINLESS STEEL COUNTERTOP - 12 36 00

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
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www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

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EXTERIOR ELEVATIONS - GATEWAYS

SHEET NUMBER
A6.0.2

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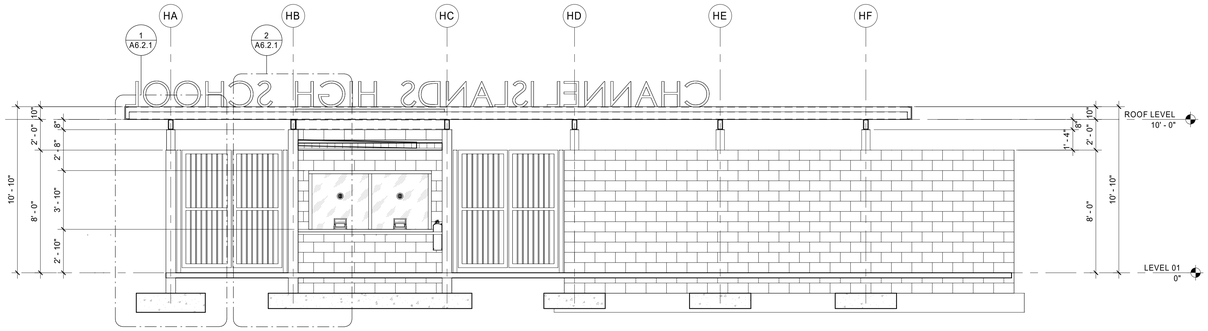
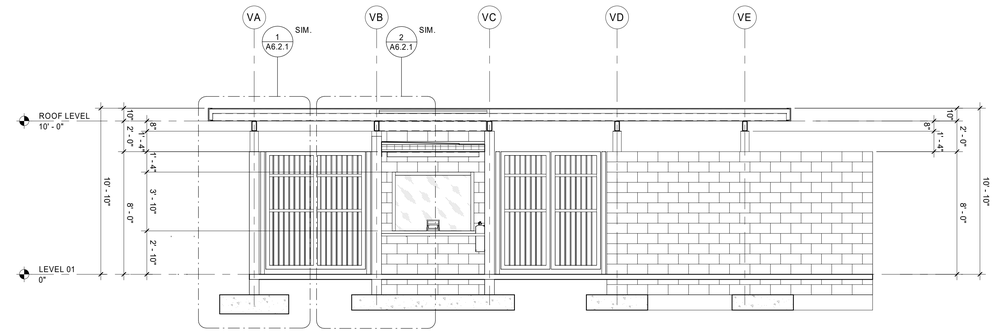
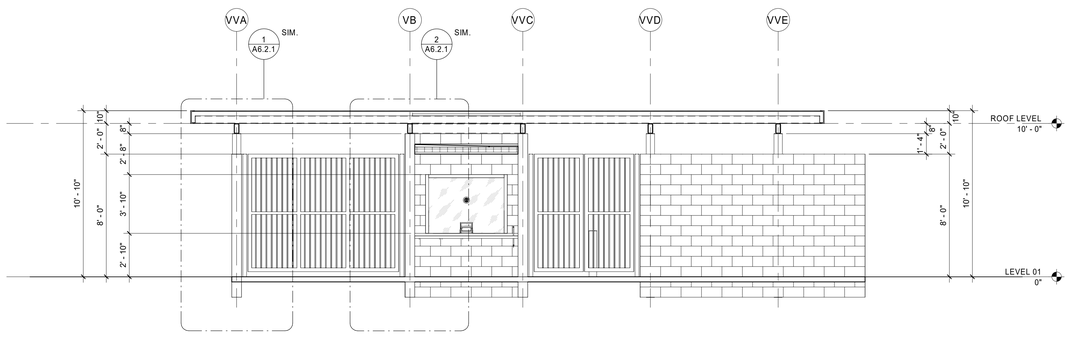


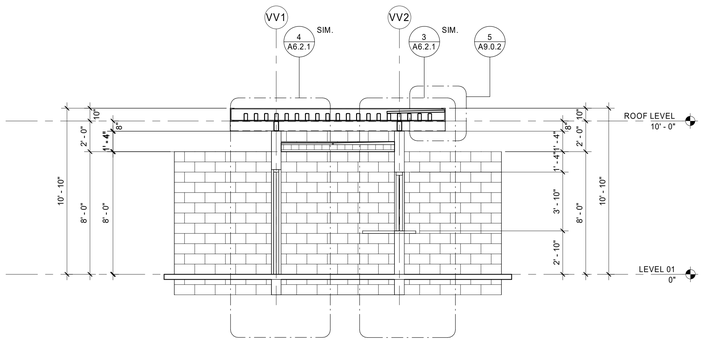
HOME GATEWAY - LONGITUDINAL SECTION 1 A6.1.1
1/4" = 1'-0"



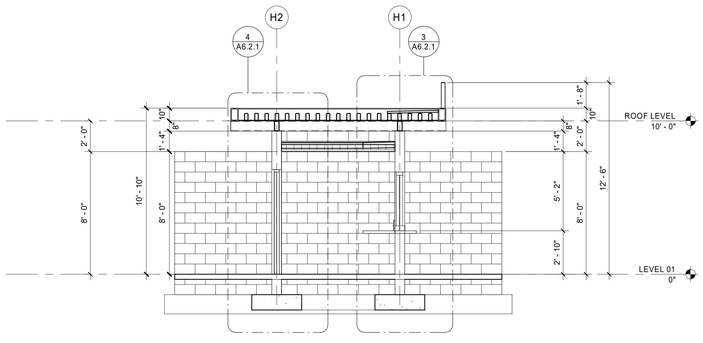
GATEWAY 2 - LONGITUDINAL SECTION 2 A6.1.1
1/4" = 1'-0"



GATEWAY 3 - LONGITUDINAL SECTION 3 A6.1.1
1/4" = 1'-0"



GATEWAY 3 - CROSS SECTION (GATEWAY 2 SIM.) 5 A6.1.1
1/4" = 1'-0"



HOME GATEWAY - CROSS SECTION 4 A6.1.1
1/4" = 1'-0"

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PROJECT NAME

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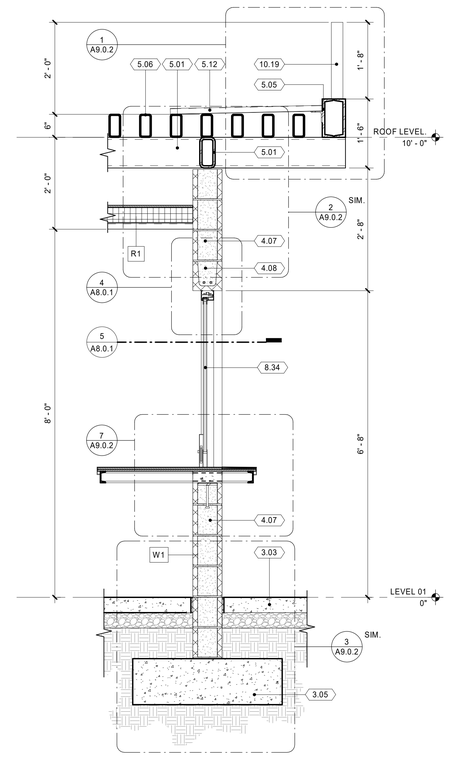
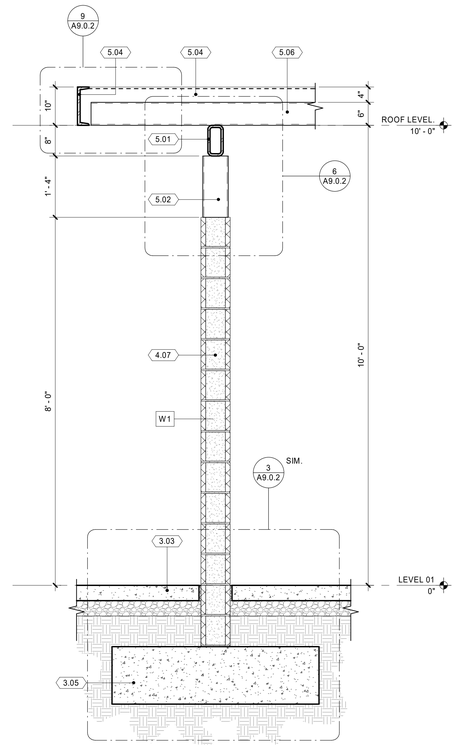
6121235305

SHEET TITLE
BUILDING SECTIONS - GATEWAYS

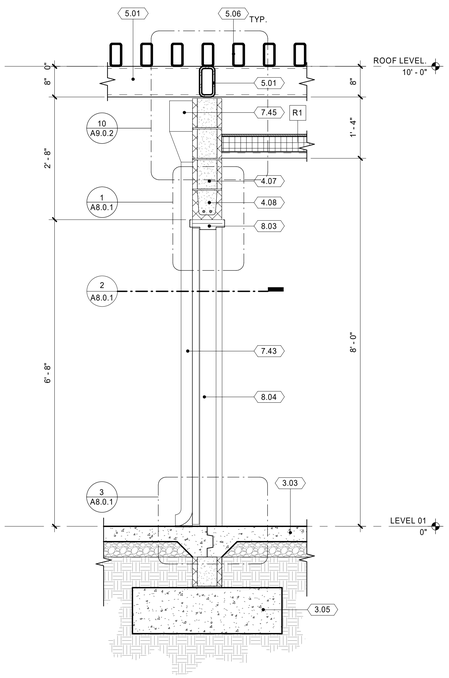
SHEET NUMBER
A6.1.1



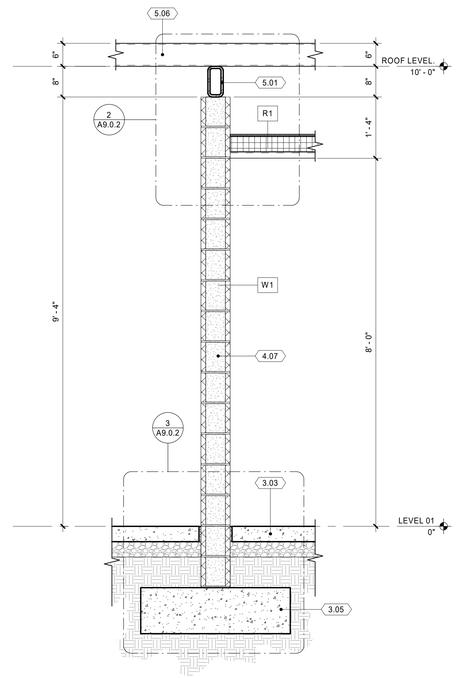
WALL SECTION - TICKET BOOTH WINDOW WALL 3 A6.2.1
3/4" = 1'-0"



WALL SECTION - END WALL 1 A6.2.1
3/4" = 1'-0"



WALL SECTION - TICKET BOOTH DOOR WALL 4 A6.2.1
3/4" = 1'-0"



WALL SECTION - TICKET BOOTH SIDE WALL 2 A6.2.1
3/4" = 1'-0"

KEYNOTES

3.03	CAST-IN-PLACE CONCRETE SLAB - 03 30 10
3.05	CAST-IN-PLACE CONCRETE FOOTING - 03 30 10
4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
4.08	PILASTER UNIT CMU - 04 22 00
5.01	STEEL BEAM PER STRUCTURAL - 05 12 00
5.02	STEEL COLUMN PER STRUCTURAL - 05 12 00
5.04	STEEL CHANNEL PER STRUCTURAL -05 12 00
5.05	STEEL DOUBLE CHANNEL PER STRUCTURAL - 05 12 00
5.06	STEEL TUBE TRELLIS PURLIN PER STRUCTURAL - 05 12 00
5.12	METAL ROOF DECK - 05 31 00
7.43	METAL DOWNSPOUT - 07 60 00
7.45	METAL SCUPPER - 07 60 00
8.03	HOLLOW METAL DOOR FRAME - 08 11 00
8.04	HOLLOW METAL DOOR - 08 11 00
8.34	ALUMINUM WINDOW WITH VERTICAL SLIDING TICKET WINDOW- 08 51 13
10.19	BRUSHED ALUMINUM DIMENSIONAL SIGNAGE - 10 14 00

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PROJECT NO.
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SHEET TITLE
WALL SECTIONS - GATEWAYS

SHEET NUMBER
A6.2.1

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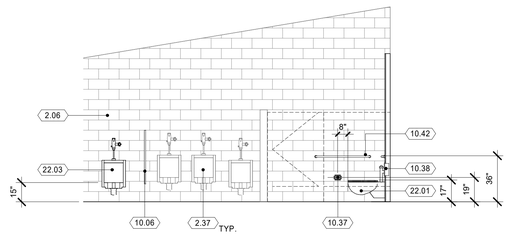
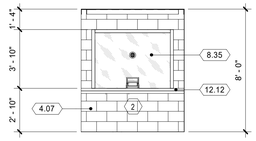
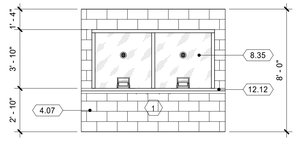


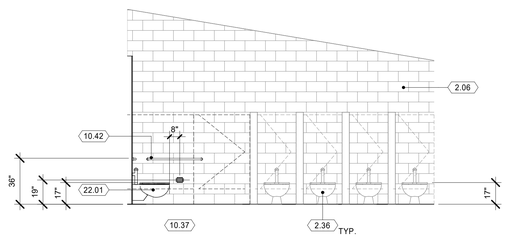
(E) MEN'S ROOM U101 - SOUTH WALL INT. ELEV. 9
1/4" = 1'-0" A7.0.1



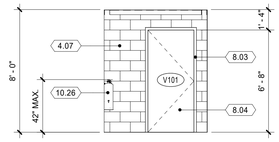
TYP. GATEWAY 2/3 TICKET BOOTH - FRONT WALL INT. ELEV. 5
1/4" = 1'-0" A7.0.1



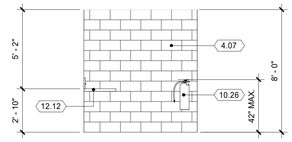
HOME GATEWAY TICKET BOOTH -FRONT WALL INT. ELEV. 1
1/4" = 1'-0" A7.0.1



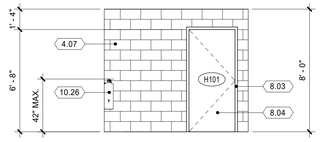
(E) WOMEN'S ROOM U102 - NORTH WALL INT. ELEV. 7
1/4" = 1'-0" A7.0.1



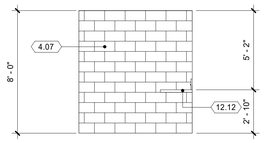
TYP GATEWAY 2/3 TICKET BOOTH - REAR WALL INT. ELEV. 6
1/4" = 1'-0" A7.0.1



TYP. GATEWAY TICKET BOOTH - SIDE WALL INT. ELEV. 1 2
1/4" = 1'-0" A7.0.1



HOME GATEWAY TICKET BOOTH - REAR WALL INT. ELEV. 3
1/4" = 1'-0" A7.0.1



TYP. GATEWAY TICKET BOOTH - SIDE WALL INT. ELEV. 2 4
1/4" = 1'-0" A7.0.1

KEYNOTES

2.06	(E) CONCRETE MASONRY WALL TO REMAIN. PROTECT IN PLACE.
2.36	(E) WATER CLOSET TO REMAIN. PROTECT IN PLACE.
2.37	(E) URINAL TO REMAIN. PROTECT IN PLACE.
4.07	CONCRETE MASONRY UNIT, 8" x 8" x 16," RUNNING BOND - 04 22 13
8.03	HOLLOW METAL DOOR FRAME - 08 11 00
8.04	HOLLOW METAL DOOR - 08 11 00
8.35	ALUMINUM PASS THRU WINDOW WITH SPEAK THROUGH DEVICE- 08 56 19
10.06	METAL URINAL SCREEN- 10 21 13
10.26	BRACKET-MOUNTED PORTABLE FIRE EXTINGUISHER - 10 44 16
10.37	SURFACE-MOUNTED TOILET PAPER HOLDER - 10 28 00
10.38	RECESSED TOILET SEAT COVER DISPENSER - 10 28 00
10.42	GRAB BAR. SEE DETAIL 7/A2.0.2 FOR ANCHORAGE - 10 28 00
12.12	STAINLESS STEEL COUNTERTOP - 12 36 00
22.01	WALL-HUNG WATER CLOSET. SEE DETAIL 4/A2.0.2 FOR ANCHORAGE - 22 40 00
22.03	ACCESSIBLE WALL-HUNG URINAL. SEE DETAIL 4/A2.0.2 FOR ANCHORAGE - 22 40 00

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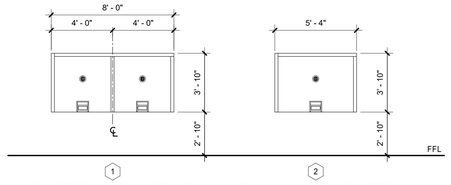
ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR MAT.	FLOOR FIN.	BASE	WALLS NORTH MAT.	WALLS NORTH FIN.	WALLS EAST MAT.	WALLS EAST FIN.	WALLS SOUTH MAT.	WALLS SOUTH FIN.	WALLS WEST MAT.	WALLS WEST FIN.	CEILING MAT.	CEILING FIN.	REMARKS
H101	HOME GATEWAY TICKET BOOTH	CONC.	CS-1	-	CMU	PF-1	CMU	PF-1	CMU	PF-1	CMU	PF-1	EXP	UNF	1
V101	GATEWAY 2 TICKET BOOTH	CONC.	CS-1	-	CMU	PF-1	CMU	PF-1	CMU	PF-1	CMU	PF-1	EXP	UNF	1
VV101	GATEWAY 3 TICKET BOOTH	CONC.	CS-1	-	CMU	PF-1	CMU	PF-1	CMU	PF-1	CMU	PF-1	EXP	UNF	1

DOOR SCHEDULE

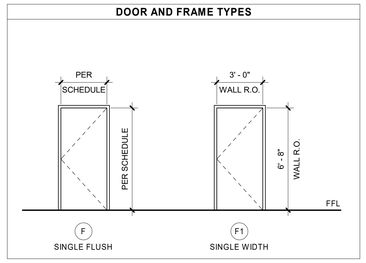
NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FIN.	FRAME TYPE	FRAME MAT.	FRAME FIN.	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	REMARKS
H101	3' - 0"	6' - 8"	F	HM	PFX-1	F1	HM	PFX-1	1/A8.0.1	2/A8.0.1	3/A8.0.1	
V101	3' - 0"	6' - 8"	F	HM	PFX-1	F1	HM	PFX-1	1/A8.0.1	2/A8.0.1	3/A8.0.1	
VV101	3' - 0"	6' - 8"	F	HM	PFX-1	F1	HM	PFX-1	1/A8.0.1	2/A8.0.1	3/A8.0.1	



DOUBLE FIXED ALUMINUM WINDOW WITH VERTICAL SLIDING TICKET WINDOW OPENINGS AND SPEAK THROUGH DEVICES

FIXED ALUMINUM WINDOW WITH VERTICAL SLIDING TICKET WINDOW OPENING AND SPEAK THROUGH DEVICE

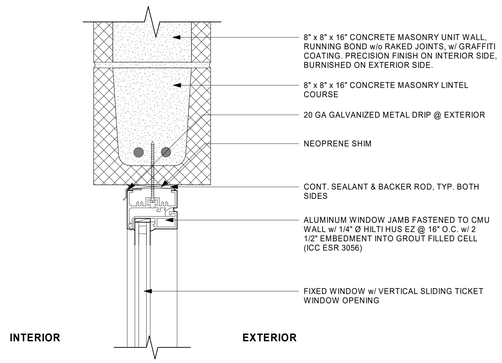
WINDOW TYPES LEGEND
NOT TO SCALE



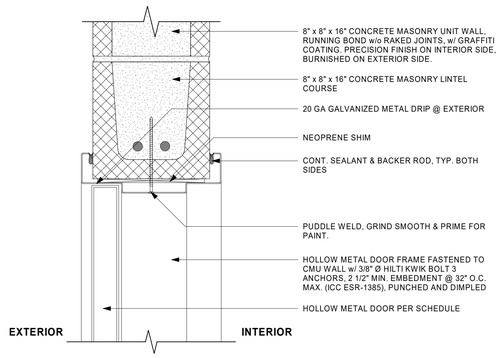
SINGLE FLUSH

SINGLE WIDTH

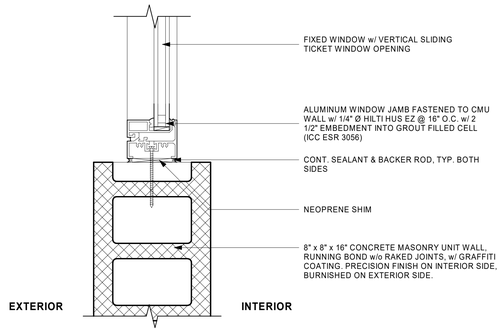
DOOR AND FRAME TYPES LEGEND
NOT TO SCALE



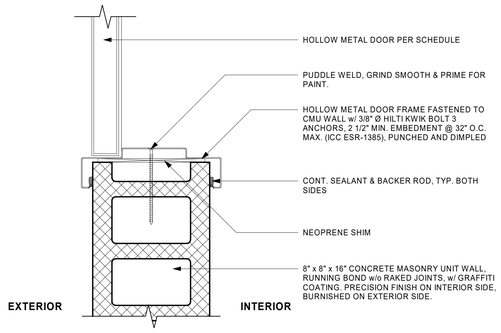
ALUMINUM WINDOW HEAD @ CMU WALL
4
3" = 1'-0"
A8.0.1



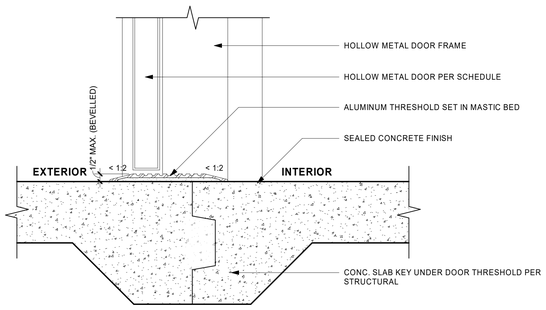
METAL DOOR HEAD @ CMU WALL
1
3" = 1'-0"
A8.0.1



ALUMINUM WINDOW JAMB @ CMU WALL
5
3" = 1'-0"
A8.0.1



METAL DOOR JAMB @ CMU WALL
2
3" = 1'-0"
A8.0.1



METAL DOOR @ THRESHOLD
3
3" = 1'-0"
A8.0.1

MATERIALS

CBU	CEMENTITIOUS BACKER UNIT
CS-1	CONCRETE SEALER - COLORLESS - 03 30 10
CONC	EXPOSED CONCRETE
CMU	CONCRETE MASONRY UNIT
CT-3	CERAMIC TILE PAVER- 12 x 12 FLOOR - 09 30 13
EXP	EXPOSED STRUCTURE
FF	FACTORY FINISH
GB	GYPSUM BOARD - 09 21 16
GBX	GYPSUM BOARD, FIRE RATED - 09 21 16
GBMR	GYPSUM BOARD, MOISTURE RESISTANT - 09 21 16
GBMRX	GYPSUM BOARD, FIRE RATED, MOISTURE RESISTANT - 09 21 16
ALUM	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
STL	STEEL
PF-1	PAINT - SEMI-GLOSS - 09 91 00
PF-2	PAINT - EGGSHELL - 09 91 00
PF-3	PAINT - SEMI-GLOSS ENAMEL - 09 91 00
PF-4	PAINT - FERROUS METAL PIPING, MISC. METALS - 09 91 00
PF-5	PAINT - GALV. DUCTWORK, ELECT CONDUIT - 09 91 00
PF-6	PAINT - EPOXY - 09 91 00
PFX-1	PAINT - STEEL DOORS & FRAMES - 09 91 00
PFX-2	PAINT - HIGH PERFORMANCE COATING - 09 91 00
PFX-3	PAINT - FERROUS METAL PIPING, MISC. METALS - 09 91 00
PFX-4	PAINT - FLAT FINISH ACRYLIC - 09 91 00
UNF	UNFINISHED

INTERIOR PAINT COLORS

PT-1
PT-2
PT-3
PT-4

GENERAL NOTES - FINISHES

1. ALL FINISHES SHALL COMPLY WITH 2016 CBC CHAPTER 8 AND WITH TITLE 19 C.C.R. & 2016 CFC.
2. PREPARE ALL SURFACES TO BE FINISHED PRIOR TO PAINTING, INCLUDING GALVANIZED STEEL AND ALL SURFACES ON WHICH DEBRIS OR OTHER RESIDUES EXIST WHICH MAY INTERFERE WITH FINISHING.

FINISH SCHEDULE REMARKS

1. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK AND ELECTRICAL COMPONENTS - 09 91 00

DOOR SCHEDULE REMARKS

1. EXISTING DOOR TO REMAIN. PROTECT IN PLACE.
2. ALL DOORS ARE 1-3/4" THICK UNLESS NOTED OTHERWISE.

AGENCY REVIEW

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DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

LICENSED ARCHITECT — JEFFREY R. TITTLE — No. C-31206 — REN. 08-31-21 — STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JT

PROJECT MANAGER
LEB

DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
ROOM FINISH SCHEDULE, DOOR SCHEDULE, DOOR & WINDOW TYPES, DETAILS - GATEWAYS

SHEET NUMBER
A8.0.1

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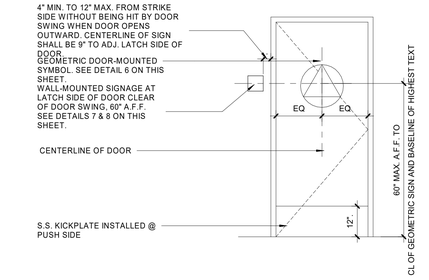
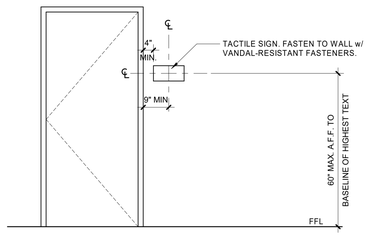
NOTES:
1. PROVIDE ONE SIGN FOR EACH RESTROOM DOOR. LOCATE SIGN 12" MAX. AWAY FROM DOOR STRIKE SIDE. WHERE THERE IS NO WALL SPACE ON STRIKE SIDE, PLACE ON NEAREST ADJACENT WALL.
2. SIGNAGE, SYMBOLS & BACKGROUNDS TO COMPLY w/ TITLE 24 THE AMERICANS WITH DISABILITIES ACT (A.D.A.) REQUIREMENTS. MOUNT SIGNS w/ VANDAL RESISTANT FASTENERS.
3. ALLOW FOR UP TO THREE (3) LINES AND THIRTY-SIX (36) CHARACTERS TOTAL FOR EACH SIGN. OWNER TO DETERMINE NAMES.

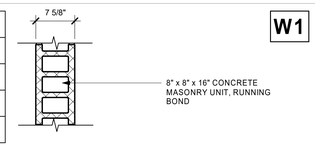


RESTROOM SIGNAGE LOCATION @ DOOR 7
1 1/2" = 1'-0" A9.0.1



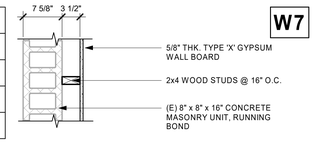
ROOM ID SIGN LOCATION @ DOOR 4
1/2" = 1'-0" A9.0.1

SCALE:	1" = 1'-0"
FIRE RATING:	N-R
ASSEMBLY REF:	N/A
SOUND RATING:	N/A
REMARKS:	EXT. WALL



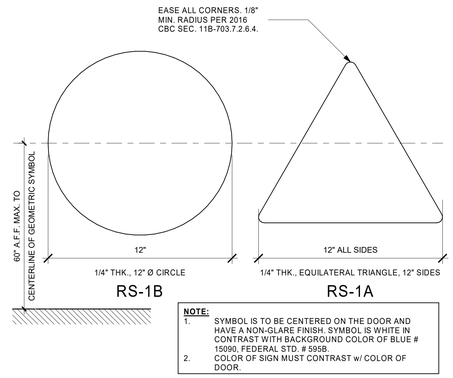
W1

SCALE:	1" = 1'-0"
FIRE RATING:	N-R
ASSEMBLY REF:	N/A
SOUND RATING:	N/A
REMARKS:	FURRING WALL



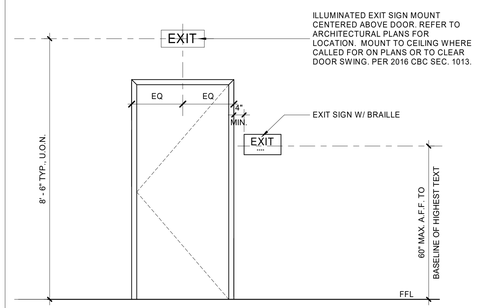
W7

WALL AND ROOF ASSEMBLIES1 1
1" = 1'-0" A9.0.1



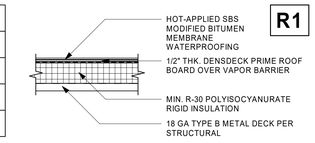
NOTE:
1. SYMBOL IS TO BE CENTERED ON THE DOOR AND HAVE A NON-GLARE FINISH. SYMBOL IS WHITE IN CONTRAST WITH BACKGROUND COLOR OF BLUE # 15090, FEDERAL STD. # 595B.
2. COLOR OF SIGN MUST CONTRAST w/ COLOR OF DOOR.

RS-1 RESTROOM GEOMETRIC SYMBOLS 8
3" = 1'-0" A9.0.1



EXIT SIGN LOCATION @ DOOR 5
1/2" = 1'-0" A9.0.1

SCALE:	1" = 1'-0"
FIRE RATING:	N-R
ASSEMBLY REF:	UL TGKX.458
SOUND RATING:	N/A
REMARKS:	CLASS A ROOF



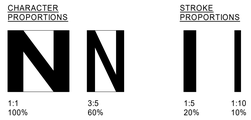
R1

SIGNAGE GENERAL NOTES

1. **CHARACTER TYPE:** CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE. SEE NOTE #5 BELOW.
2. **CHARACTER SIZE:** RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 mm) AND A MAXIMUM OF 2" (51 mm) IN HEIGHT PER 2016 CBC SEC. 11B-703.2.5.
3. **FINISH & CONTRAST:** CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH PER 2016 CBC SEC. 11B-703.5.1.
4. **PROPORTIONS:** CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10 11B-703.2.4.

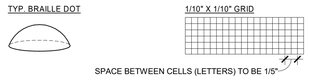
   ALL LETTERS MEASURED MUST BE UPPERCASE AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS "I", "X", AND "O" AT 1 INCH HIGH. PLACE THE TEMPLATES 1:1 SQUARE OVER THE "X" OR "O", WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1 INCH, NOR NARROWER THAN 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD AND 1:10 RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO NARROW. IF ALL LETTERS PASS THE ABOVE TESTS, THE TYPE STYLE IS COMPLIANT WITH THE PROPORTIONS CODE 1117B.5.3

   WIDTH-TO-HEIGHT CHARACTER PROPORTIONS TEMPLATE



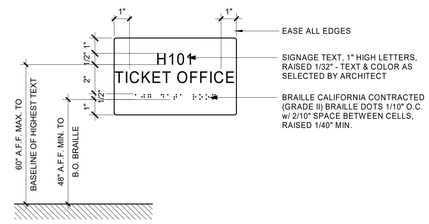
5. **BRAILLE:** CALIFORNIA GRADE II BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 MM) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 MM) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 MM) ABOVE THE BACKGROUND. PER 2016 CBC SEC.11B-703.4.

   BRAILLE SPACING TEMPLATE PER TITLE 24



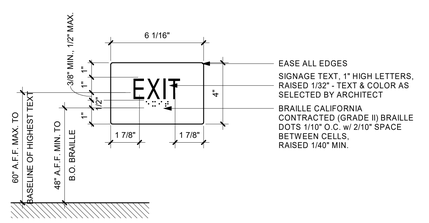
   RECOMMENDED ROUNDED OR DOMED BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE UNREADABLE FOR MANY BRAILLE USERS.
6. ATTACH SIGN USING FLATHEAD COUNTERSUNK SCREWS, QUANTITY AND LOCATIONS SHOWN IN DETAILS, TO SOLID BACKING & ADHESIVE TO BACK.
7. FOR INTERIOR SIGNAGE USE PLATE OF 1/8" THICK PHOTO SENSITIVE ACRYLIC ETCHED TO FORM A SINGLE PLAQUE SIGN WILL BE A (2) TWO COLOR SIGN WITH A LIGHT BACKGROUND & DARK CHARACTERS. COLORS TO BE DETERMINED BY ARCHITECT.
8. FOR EXTERIOR SIGNAGE USE PLATE OF 1/8" ANODIZED ALUMINUM ETCHED TO FORM A SINGLE PLAQUE SIGN WITH (2) COLORS: LIGHT BACKGROUND & DARK CHARACTERS. COLORS TO BE DETERMINED BY ARCHITECT.
9. ALL ROOM LOCATIONS OF SIGNAGE SHALL BE REVIEWED BY OWNER BEFORE INSTALLATION.

4' HIGH STEEL TUBE GATE 6
1/2" = 1'-0" A9.0.1



NOTE:
1. CHARACTERS AND BACKGROUND OF SIGNS TO BE NON-GLARE FINISH.
2. COLOR AND CONTRAST OF SIGN TO BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAST OF WALL.
3. PROVIDE AT LEAST 70% CONTRAST BETWEEN CHARACTERS AND NON-GLARE BACKGROUND.
4. RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I."
5. STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.

RS-2 TACTILE ROOM ID SIGN 2
3" = 1'-0" A9.0.1



NOTE:
1. CHARACTERS AND BACKGROUND OF SIGNS TO BE NON-GLARE FINISH.
2. COLOR AND CONTRAST OF SIGN TO BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAST OF WALL.
3. PROVIDE AT LEAST 70% CONTRAST BETWEEN CHARACTERS AND NON-GLARE BACKGROUND.
4. RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I."
5. STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.

ES - TACTILE EXIT SIGN 3
3" = 1'-0" A9.0.1

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OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

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LICENSED ARCHITECT
JAY R. TITTLE
No. C-23605
REN. 08/31/21
STATE OF CALIFORNIA

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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

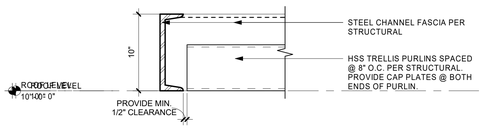
PROJECT TEAM
PRINCIPAL IN CHARGE
JT
PROJECT MANAGER
LEB
DESIGN TEAM
FM/ RG/ JR/ CL/ TA

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

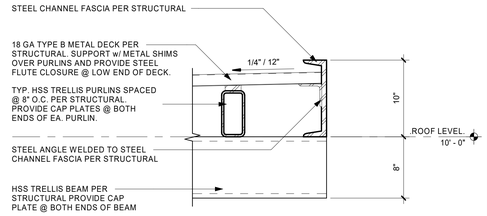
PROJECT NO.
6121235305

SHEET TITLE
WALL TYPES, SIGNAGE, AND INTERIOR DETAILS - GATEWAYS & UNIT 'U'

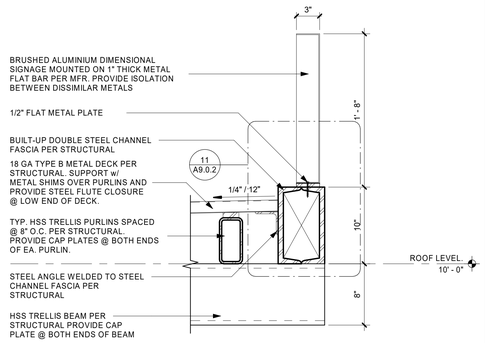
SHEET NUMBER
A9.0.1



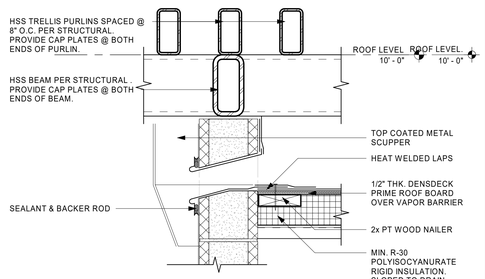
TYP. END CHANNEL FASCIA 9
1 1/2" = 1'-0" A9.0.2



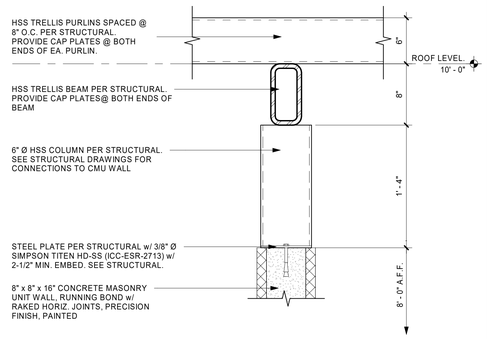
FRONT CHANNEL FASCIA @ METAL DECK ROOF 5
1 1/2" = 1'-0" A9.0.2



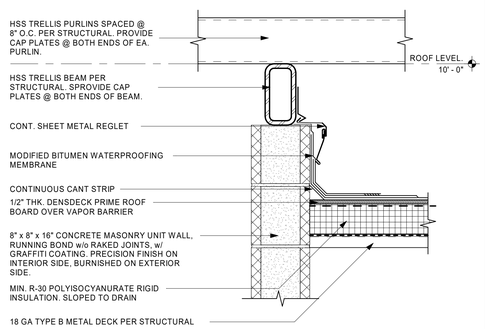
DOUBLE CHANNEL FASCIA AND DIMENSIONAL SIGNAGE 1
1 1/2" = 1'-0" A9.0.2



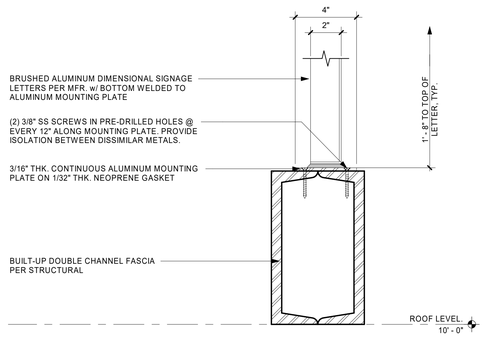
METAL SCUPPER @ CMU WALL 10
1 1/2" = 1'-0" A9.0.2



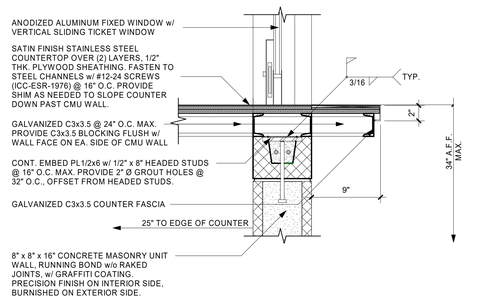
COLUMN/CMU END WALL CONNECTION 6
1 1/2" = 1'-0" A9.0.2



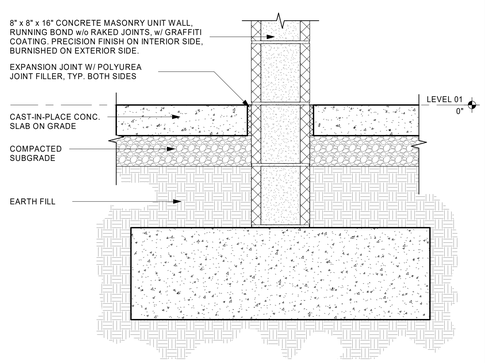
ROOF/CMU WALL CONNECTION 2
1 1/2" = 1'-0" A9.0.2



DIMENSIONAL SIGNAGE MOUNTING 11
3" = 1'-0" A9.0.2



STAINLESS STEEL TICKET COUNTER 7
1 1/2" = 1'-0" A9.0.2



CMU WALL/CONC. SLAB CONNECTION 3
1 1/2" = 1'-0" A9.0.2

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CONSULTANT

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LICENSED ARCHITECT TAY R. TITUS NO. C-33305 REN. 08-31-21 STATE OF CALIFORNIA

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CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
EXTERIOR DETAILS - GATEWAYS

SHEET NUMBER
A9.0.2

GENERAL CONDITIONS AND STATEMENTS

1. THESE NOTES SHALL APPLY UNLESS INDICATED OTHERWISE BY DRAWINGS OR SPECIFICATIONS. IN THE EVENT THAT CONFLICTS OCCUR BETWEEN THESE NOTES, DRAWINGS OR SPECIFICATIONS NOTIFY THE STRUCTURAL ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
2. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT.
3. SUBMIT SHOP DRAWINGS ON ALL STRUCTURAL MATERIALS FOR APPROVAL BEFORE FABRICATION. CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMISSION.
4. THE STRUCTURE INDICATED BY THE DRAWINGS AND SPECIFICATIONS IS STRUCTURALLY STABLE ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCES AND OPERATIONS OF CONSTRUCTION AND SHALL PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
5. ALL DETAILS, SECTIONS, AND NOTES INDICATED ON THE DRAWINGS SHALL APPLY AT ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY THE DETAIL, SECTION, OR NOTE.
6. CENTERLINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTIONS UNLESS NOTED OTHERWISE.
7. CENTERLINES OF FLOOR AND ROOF FRAMING MEMBERS SHALL COINCIDE WITH GRID LINES UNLESS NOTED OTHERWISE.
8. EQUALLY SPACE FLOOR AND ROOF FRAMING MEMBERS BETWEEN GRID LINES UNLESS NOTED OTHERWISE.
9. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DATA FILES.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND ALL OTHER RELEVANT TRADES. IN CASE OF CONFLICT BETWEEN STRUCTURAL WORK AND DRAWINGS RELATED TO OTHER TRADES THE CONTRACTOR SHALL MAKE IN THEIR BID ALLOWANCE FOR THE MORE SEVERE REQUIREMENTS. CONFLICTS BETWEEN THE STRUCTURAL WORK AND THE DRAWINGS OF OTHER TRADES SHALL NOT BE A REASON FOR ANY ADDITIONAL COST OR DELAY IN EXECUTION OF THE WORK.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.

ABBREVIATIONS

ADDL	ADDITIONAL	EL	ELEVATION	LLV	LONG LEG VERTICAL
ADH	ADHESIVE	ELEC	ELECTRICAL	LSH	LONG SIDE HORIZONTAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	ELEV	ELEVATOR	LSV	LONG SIDE VERTICAL
		EOD	EDGE OF DECK	LW	LIGHT WEIGHT
AFF	ABOVE FINISHED FLOOR	EOS	EDGE OF SLAB	MAX	MAXIMUM
ALT	ALTERNATE	EQ	EQUAL	MECH	MECHANICAL
ARCH	ARCHITECT	EQUIP	EQUIPMENT	MFR	MANUFACTURER
B/	BOTTOM OF	EW	EACH WAY	MIN	MINIMUM
BCB	BOTTOM CHORD BRACING	EXP	EXPANSION	MOW	MIDDLE OF WALL
BCX	BOTTOM CHORD EXTENSION	EXT	EXTERIOR	NTS	NOT TO SCALE
BFF	BELOW FINISHED FLOOR	EXIST; E	EXISTING	NW	NORMAL WEIGHT
BLDG	BUILDING	FFE	FINISHED FLOOR ELEVATION	OC	ON CENTER
BOTT	BOTTOM	FIN	FINISHED	OH	OPPOSITE HAND
BP	BASE PL	FLR	FLOOR	OPNG	OPENING
BRG	BEARING	FOB	FACE OF BRICK	PAF	POWDER/ POWER ACTUATED
BTWN	BETWEEN	FOM	FACE OF MASONRY		FASTENER
CIP	CAST IN PLACE	FOS	FACE OF STUD	PC	PRECAST or PILE CAP
CJ	CONTRACTION OR CONSTRUCTION JOINT	FRTW	FIRE RETARDANT TREATED WOOD	PJF	PRE-MOLDED JOINT FILLER
				PL	PLATE
CL	CENTERLINE	FTG	FOOTING	PLBG	PLUMBING
CLR	CLEAR	GA	GAGE	PT	PRESSURE TREATED or POST TENSIONED
CMU	CONCRETE MASONRY UNIT	GALV	GALVANIZED		
COL	COLUMN	GB	GRADE BEAM	QTY	QUANTITY
CONC	CONCRETE	GC	GENERAL CONTRACTOR	REINF	REINFORCEMENT
CONN	CONNECTION	GLB	GLULAM BEAM	REF	REFERENCE
CONT	CONTINUOUS	HD	HEADED	REQD	REQUIRED
COORD	COORDINATE	HORIZ; H	HORIZONTAL	SCHD	SCHEDULE
CTR	CENTER	INT	INTERIOR	SFRS	SEISMIC FORCE RESISTING SYSTEM
DBA	DEFORMED BAR ANCHOR	JBE	JOIST BEARNING ELEVATION		
DCJ	DOWELED CONSTRUCTION JOINT	JT	JOINT	SIM	SIMILAR
		K	KIPS	SOG	SLAB ON GRADE
DEFL	DEFLECTION	KLF; PLF	KIPS/POUNDS PER LINEAR FOOT	SPEC	SPECIFICATIONS
DEMO	DEMOLISH or DEMOLITION			STD	STANDARD
DIA; Ø	DIAMETER	KSI; PSI	KIPS/POUND PER SQUARE INCH	T/	TOP OF
DIM	DIMENSION			TYP	TYPICAL
DWG	DRAWING	KSF; PSF	KIPS/POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
DWL	DOWEL			VERT; V	VERTICAL
EA	EACH	LB	POUND	VIF	VERFIY IN FIELD
EF	EACH FACE	LG	LONG	w/	WITH
EJ	EXPANSION JOINT	LLH	LONG LEG HORIZONTAL	WWF	WELDED WIRE FABRIC

DESIGN CRITERIA

DESIGN CODES

1.	BUILDING CODE	2016 CALIFORNIA BUILDING CODE
2.	DESIGN LOADS	ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3.	STEEL	AISC 360-10 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
4.	CONCRETE	ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
5.	CONCRETE MASONRY	ACI 530-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

DESIGN LOADS

1.	BUILDING RISK CATEGORY	II		
2.	GATEWAY TRELLIS	SELF WEIGHT		
		SUPERIMPOSED DEAD LOAD	5 PSF	
3.	ROOF DEAD LOAD (TICKET BOOTH)	ROOF MEMBRANE	1 PSF	
		COVER BOARD	1 PSF	
		METAL DECK	3 PSF	
		STEEL	1.5 PSF	
		SUSPENDED (LIGHTS)	.5 PSF	
		TOTAL DEAD LOAD	7 PSF	
4.	ROOF LIVE LOAD		20 PSF	
5.	SEISMIC LOAD (TRELLIS ONLY)	Ie	1.0	
		SITE CLASSIFICATION	E	
		Ss	2.333	
		Sds	1.4	
		S1	0.828	
		Sd1	1.325	
		SEISMIC DESIGN CATEGORY	E	
		SFRS (NS)	ORDINARY CANTILEVERED COLUMN; R=1.25	Cs = 1.245
		SFRS (NS)	SPECIAL REINF MASONRY WALLS; R=5 (R=1.25 USED)	Cs = 1.245
		SFRS (EW)	SPECIAL REINF MASONRY WALLS; R=5	Cs = 0.311
		SFRS (SCREEN WALL)	SELF SUPPORTING CANTILEVERED WALL	
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		
		SEISMIC BASE SHEAR NS (HOME)	45 KIPS	
		SEISMIC BASE SHEAR EW (HOME)	11 KIPS	
		SEISMIC BASE SHEAR NS (GW #2)	36 KIPS	
		SEISMIC BASE SHEAR EW (GW#2)	9 KIPS	
		SEISMIC BASE SHEAR NS (GW #3)	36 KIPS	
		SEISMIC BASE SHEAR EW (GW#3)	9 KIPS	
6.	WIND LOAD (TRELLIS ONLY)	WIND SPEED	110 MPH	
		EXPOSURE	C	
		Iw	1.0	
		P	28 PSF (ULTIMATE)	
		WIND BASE SHEAR NS (HOME GATEWAY)	21 KIPS	
		WIND BASE SHEAR EW (HOME GATEWAY)	8 KIPS	
		WIND BASE SHEAR NS (GW #2)	17 KIPS	
		WIND BASE SHEAR EW (GW #2)	8 KIPS	
		WIND BASE SHEAR NS (GW #3)	17 KIPS	
		WIND BASE SHEAR EW (GW #3)	8 KIPS	

SOIL AND SUBSURFACE CONDITIONS

1. SOIL BEARING CAPACITY SHALL BE VERIFIED BY PROJECT GEOTECHNICAL ENGINEER.
2. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE REPORT OF GEOTECHNICAL EXPLORATION PREPARED BY EARTH SYSTEMS PACIFIC PROJECT NO. 303276-002 DATED 11/26/2019.
3. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
4. THE FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE FOLLOWING DESIGN VALUES FROM THE GEOTECHNICAL REPORT:
   SPREAD FOOTING BEARING PRESSURE 1,700 PSF
   CONTINUOUS FOOTING BEARING PRESSURE 1,400 PSF
5. FENCE POST PIERS (DRILLED PIERS IN UNCOMPACTED SOILS) HAVE BEEN DESIGNED BASED ON THE FOLLOWING PRESUMPTIVE VALUES FROM CBC TABLE 1806 A.2:
   VERTICAL FOUNDATION PRESSURE 1,500 PSF
   LATERAL BEARING PRESSURE 100 PSF/FT
6. THE CONTRACTOR SHALL VERIFY WITH THE GEOTECHNICAL ENGINEER THAT THE FOLLOWING ARE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT:
   A. THE BEARING STRATUM AT EACH FOUNDATION IS AS ASSUMED IN THE REPORT
   B. THE ALLOWABLE BEARING PRESSURE MEETS OR EXCEEDS THE REQUIRED VALUE
   C. ENGINEERED FILL IS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REPORT.
   D. THE INSTALLATION OF THE FOUNDATION IS AS ASSUMED IN THE REPORT.
7. SOIL WITHIN 5'-0" OF NEW BUILDINGS AND WITHIN 3'-0" OF FOOTINGS MUST BE OVER EXCAVATED TO A DEPTH OF 4'-6" BELOW FINISH GRADE. THE RESULTING SURFACE SHOULD BE SCARIFIED AN ADDITIONAL 6" MOISTURE CONDITIONED, AND RECOMPACTED TO ATLEAST 90% OF THE MAXIMUM DRY DENSITY.
8. ALL FILL MATERIALS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
9. FOOTING BEARING ELEVATIONS SHALL BE ADJUSTED AT TIME OF EXCAVATION TO ACHIEVE THE REQUIRED BEARING CAPACITY IF SO REQUIRED.
10. BACKFILLING OF RETAINING WALLS SHALL BE PLACED SO THAT EQUAL LOADING SHALL BE MAINTAINED ON EACH SIDE OF WALL UNTIL THE LOWER GRADE IS REACHED.
11. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS BOTH DURING CONSTRUCTION AND PERMANENTLY.
12. MAINTAIN STABILITY OF EXCAVATIONS UNTIL PROPERLY BACKFILLED. KEEP EXCAVATIONS FREE OF LOOSE MATERIAL. DEWATER EXCAVATIONS AND REMOVE ANY WET MATERIAL PRIOR TO PLACING CONCRETE.
13. PLACE A 3" THICKNESS "MUDMAT" OF CONCRETE IN THE BOTTOM OF FOOTINGS THAT WILL BE EXPOSED TO RAIN OR LEFT OPEN OVER NIGHT.
14. HEAVY EQUIPMENT USED FOR PLACING OR COMPACTING BACKFILL SHALL NOT BE OPERATED WITHIN A DISTANCE EQUAL TO THE HEIGHT OF THE BACKFILL ABOVE THE TOP OF FOOTING, (1 HORIZONTAL TO 1 VERTICAL). HAND OPERATED COMPACTION EQUIPMENT SHALL BE USED FOR COMPACTION OPERATIONS IN THIS AREA.
15. GRADE SHALL BE SUCH THAT THE THICKNESS OF ANY FOUNDATION OR SLAB ON GRADE IS NOT REDUCED BY MORE THAN 5% OF THAT INDICATED.
16. EXCAVATION BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION BRACING SHALL BE DESIGNED FOR LATERAL LOADING RESULTING FROM AN EQUIVALENT FLUID PRESSURE OF 60 PCF AND A SURFACE SURCHARGE OF 250 PSF.
17. THE LOCATION OF THE PROPOSED GATEWAYS HAVE POTENTIAL FOR LIQUEFACTION. SEE CIVIL OVEREX AND RECOMPACTION DETAIL, GEOTECHNICAL REPORT, AND SPECIFICATIONS FOR GEOGRID REMEDIATION REQUIREMENTS.

CAST IN PLACE STRUCTURAL CONCRETE

1. SUBMIT MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED.
2. SUBMIT DATA FOR ALL ADMIXTURES, CURING COMPOUNDS AND HARDENERS THAT ARE INTENDED FOR USE.
3. TESTING LABORATORY SHALL SAMPLE AND TEST CONCRETE PER DSA 103 AND REQUIREMETNS OF CBC SECTION 1705A.3. TEST REPORTS SHALL BE SENT TO THE STRUCTURAL ENGINEER AND SHALL BE AVAILABLE AT THE JOBSITE
4. CONCRETE SHALL HAVE THE MINIMUM 28 DAY COMPRESSIVE STRENGTH AND WEIGHTS:

LOCATION	28 DAY STRENGTH	UNIT WEIGHT
FOUNDATIONS AND SLAB ON GRADE	4,500 PSI	145 PCF
FENCE PIER FOUNDATIONS	3,000 PSI	145 PCF

5. CONCRETE WORK SHALL CONFORM TO ACI 318.
6. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
7. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706 GRADE 60.
8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185. PROVIDE MATERIAL IN SHEETS. LAP ALL WELDED WIRE FABRIC ONE FULL SQUARE PLUS 2" AT ALL SHEET EDGES.
9. SLAB ON GRADE DOWELS SHALL BE SMOOTH RODS CONFORMING TO ASTM A36 WITH ENDS SMOOTH CUT.
10. REINFORCING BAR SUPPORT DEVICES SHALL CONFORM TO CRSI MANUAL OF STANDARD PRACTICE.
11. CONCRETE CLEAR COVER ON EMBEDDED REINFORCING SHALL BE AS FOLLOWS:

LOCATION	BAR SIZE	MINIMUM CLEAR COVER
FOOTINGS	ALL	3" BOTTOM AND SIDES, 2" TOP
CONCRETE EXPOSED TO EARTH OR WEATHER	#5 AND SMALLER	1 1/2"
	#6 THROUGH #18	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER		
SLABS, WALLS AND JOISTS	#11 AND SMALLER	3/4"
	#14 AND #18	1 1/2"

12. ALL CONTINUOUS BARS SHALL HAVE A CLASS B TENSION LAP SPLICE AT ALL SPLICES UNO. PROVIDE CORNER BARS FOR ALL CONTINUOUS BARS AT ALL FOUNDATION AND WALL CORNERS AND INTERSECTIONS. LAP CORNER BARS 48 BAR DIAMETERS EACH END.
13. PROVIDE DOWELS TO FOOTINGS TO MATCH ALL WALL, PIER AND COLUMN VERTICAL REINFORCING UNO. EMBED DOWELS IN FOOTING WITH HOOK TO WITHIN 3" OF BOTTOM OF FOOTING. EXTEND DOWELS ABOVE FOOTING FOR 48 BAR DIAMETER LAP SPLICE WITH VERTICAL REINFORCING UNO.
14. CONSTRUCTION OR CONTRACTION JOINTS SHALL BE INSTALLED IN SLABS ON GRADE AT A SPACING NOT TO EXCEED 12'-0" OC EACH DIRECTION UNO ON FOUNDATION PLAN. ASPECT RATIO OF SLAB AREAS BETWEEN JOINTS (RATIO OF LONG SIDE TO SHORT SIDE) SHALL NOT EXCEED 1.5. SAW CUT JOINTS SHALL BE MADE AS SOON AS SLABS WILL SUPPORT MEN AND EQUIPMENT. EMBEDDED EDGE ANGLES SHALL BE DISCONTINUOUS AT SLAB JOINT LOCATIONS.
15. CONSTRUCTION AND CONTRACTION JOINTS IN WALLS SHALL BE LOCATED AT 25'-0" OC MAXIMUM AND 25'-0" MAXIMUM FROM WALL CORNERS. ALIGN JOINTS IN WALLS WITH JOINTS IN SLABS AT LOCATIONS WHERE SLABS ARE CONNECTED TO WALLS.
16. CONFORM TO ACI 306 FOR COLD WEATHER CONCRETE AND ACI 305 FOR HOT WEATHER CONCRETE WORK WHEN ANY COMBINATION OF TEMPERATURE, HUMIDITY OR WIND SPEED RESULTS IN CONDITIONS THAT WOULD IMPAIR THE QUALITY OF CONCRETE. CONCRETE IS TO BE REJECTED IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90 DEGREES F OR ABOVE.
17. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNO. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EMBEDDED ITEMS IN CONCRETE WORK. COORDINATE WITH THE FOLLOWING: CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, PRECAST SHOP DRAWINGS, MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AND FIXTURE REQUIREMENTS

CONCRETE MASONRY

1. UNO HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM-WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH F'm = 2,000 PSI ON THE NET BLOCK AREA.
2. MORTAR SHALL CONFORM TO ASTM C270 CEMENT-LIME TYPE M OR S. MINIMUM COMPRESSIVE STRENGTH TO BE 2,000 PSI.
3. COURSE MASONRY GROUT SHALL CONFORM TO ASTM C476 WITH MAXIMUM AGGREGATE SIZE OF 3/8". MINIMUM COMPRESSIVE STRENGTH SHALL BE 2,000 PSI AT 28 DAYS. PROVIDE CLEAN OUT OPENINGS WHERE GROUT POUR EXCEEDS 5'-0".
   A. CONCRETE MASONRY QUALITY CONTROL
      a. WORK IN PROGRESS SHALL BE INSPECTED FOR CONFORMANCE WITH SPECIFIED MATERIALS AND THAT WORKMANSHIP AND CONSTRUCTION IS IN COMPLIANCE WITH PLANS, SPECIFICATIONS AND INDUSTRY STANDARDS.
      b. MORTAR: INSPECT PROPORTIONING OF MORTARS IN ACCORDANCE WITH ASTM C780. VERIFY ALL MATERIALS ARE AS APPROVED FOR THE PROJECT.
      c. GROUT:TEST 3"x3" PRISMS IN ACCORDANCE WITH ASTM C1019. TEST (2) PRISMS FOR EACH 30 CUBIC YARDS OR FRACTION THEREOF PLACED EACH DAY AND WHEN MIX PROPORTIONS ARE CHANGED.
4. PROVIDE DOWELS TO MATCH VERTICAL BARS AT THE BASE OF ALL WALLS. LAP 52 BAR DIAMETERS MINIMUM WITH VERTICAL BARS UNO.
5. MASONRY DESIGN BASED ON LRFD, UNO

STRUCTURAL STEEL

1. STRUCTURAL STEEL CONSTRUCTION DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
   A. STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SHAPES	ASTM A992
ANGLE, CHANNELS AND PLATES	ASTM A36
ANCHOR RODS <= 3/4"Ø	ASTM F1554 GRADE 36
ROUND HSS	ASTM A500 GRADE B, 42 ksi
RECTANGULAR HSS	ASTM A500 GRADE B, 46 ksi
HEADED STUDS	ASTM A108, GRADE 1015-1020

2. STEEL EXPOSED TO WEATHER
   A. SEE ARCH FOR STEEL FINISH.
   B. ALL STEEL EXPOSED TO WEATHER TO BE PROTECTED BY HIGH PERFORMANCE EXTERIOR PAINT UNO.
   C. GC COORD PAINT SYSTEM AND SHOP PRIMER WITH FABRICATOR.
   D. REFERENCE 05 12 13 - ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING, 09 91 13 - EXTERIOR PAINTING, AND 09 96 00 - HIGH-PERFORMANCE COATING FOR ADDITIONAL INFORMATION.
3. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER FOR THE LOCATION AND TYPE OF SPLICE.
4. CAMBER BEAMS WHERE INDICATED. WHERE NO CAMBER IS INDICATED, BEAMS SHALL BE FABRICATED SO THAT AFTER ERECTION, ANY NATURAL CAMBER IS UPWARD.
5. ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES SHALL BE INDICATED ON THE SHOP DRAWINGS AT TIME OF SUBMITTAL FOR REVIEW.
6. FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL STEEL AND SHALL INDICATE COMPLETE CONNECTION INFORMATION, BOTH SHOP AND FIELD.
8. FILL SOLID WITH NON-SHRINK GROUT UNDER ALL BASE AND BEARING PLATES.
9. CONNECTION NOTES:
   A. CONNECTION MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:

ANGLES	ASTM A36
PLATES	ASTM A36
BOLTS	ASTM A325 OR ASTM A490
NUTS	ASTM A563
WASHERS	ASTM F436
WELDING ELECTRODES	E70XX

   B. BOLTED CONNECTIONS SHALL CONFORM TO THE PROVISIONS OF THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
   C. WELDED CONNECTIONS SHALL BE MADE WITH CONTINUOUS FILLET WELDS UNO. MINIMUM WELD SIZE SHALL BE 1/4" OR AS REQUIRED BY AISC SPECIFICATION, WHICHEVER IS LARGER. MINIMUM WELD LENGTH SHALL BE 2".
   D. ALL WELDS SHALL BE MADE BY CERTIFIED WELDERS.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS)

1. STRUCTURAL STEEL NOTED AS AESS ON THE STRUCTURAL DRAWINGS SHALL BE CLASSIFIED AS AESS 3 UNLESS OTHERWISE SPECIFIED. FABRICATION, AND ERECTION TOLERANCES TO BE HELD AT HALF THOSE INDICATED IN CODE OF STANDARD PRACTICE.
2. FABRICATION OF AESS SHALL HAVE WELDS GROUND SMOOTH, MILL MARKS REMOVED, AND PIECE MARKS HIDDEN. SURFACE PREPARATION SHALL CONFORM TO SSPC-SP-3 POWER TOOL CLEANING.
3. UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS, FIELD WELDS EXPOSED TO VIEW SHALL BE MADE CONTINUOUS AND GROUND SMOOTH WITH BACKING BARS AND RUNOFF TABS REMOVED.

METAL ROOF DECK

1. THE DESIGN, MANUFACTURE AND ERECTION OF STEEL ROOF DECK AND ITS ANCHORAGE SHALL BE IN ACCORDANCE WITH THE ANSI/SDI "STANDARD FOR STEEL ROOF DECK".
2. SEE ESR 1736P FOR VERCO DECK EVALUATION REPORT.
3. ALL METAL DECKS TO BE HOT DIPPED GALVANIZED
4. PROVIDE ROOF DECK OF TYPE, DEPTH AND MINIMUM THICKNESS INDICATED.
5. INSTALL ROOF DECK WITH A MINIMUM END BEARING LENGTH OF 1 1/2".
6. ROOF DECK SHALL BE FASTENED TO SUPPORTS AS INDICATED ON THE DRAWINGS. FASTEN TO SUPPORTS AT DECK PERIMETER WITH A MINIMUM OF 5/8" DIAMETER WELDS SPACED AT 6" OC.

POST-INSTALLED ANCHORS - TESTING NOTES & FREQUENCY

1. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.
2. ALL POST INSTALLED ANCHORS SHALL BE TENSION TESTED UNO. TORQUE-CONTROLLED POST-INSTALED ANCHORS AND SCREW TYPE ANCHORS SHALL BE PERMITTED TO BE TESTED USING TORQUE BASED ON AN APPROVED TEST REPORT USING CRITERIA LISTED HERE.
3. ALL POST INSTALLED ANCHORS USED FOR STRUCTURAL APPLICATIONS SHALL BE TESTED UNLESS A LESSER FREQUENCY IS NOTED BELOW.
4. 10% OF POST INSTALLED ANCHORS USED FOR SILL PLATE AND BOTTOM TRACK BOLTING APPLICATIONS SHALL BE TESTED.
5. 50% OF POST INSTALLED EQUIPMENT ANCHORAGE BOLTS SHALL BE TESTED.
6. 25% OF REBAR DOWELED THROUGH COLD JOINTS (ANCHORS TO BE CHOSEN AT RANDOM BY IOR).

POST-INSTALLED ANCHORS - TESTING LOADS & CRITERIA

1. 200% OF THE MAXIMUM ALLOWABLE TENSION LOAD OR 125% OF THE MAXIMUM DESIGN STRENGTH OF ANCHORS AS PROVIDED IN AN APPROVED EVALUATION REPORT. NOTE TESTING LOAD NEED NOT EXCEED 80% THE NOMINAL YIELD STRENGTH OF THE ANCHOR (0.8*Ase*Fya).
2. THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE BASED ON AN APPROVED EVALUATION REPORT.
3. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED APPARATUS SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST.
4. FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING APPARATUS SUPPORT SHALL NOT BE LOCATED WITHIN 1.5 TIMES THE ANCHOR'S EMBEDMENT DEPTH TO AVOID RESTRICTING THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURING.
5. TORQUE WRENCH METHOD: TORQUE CONTROLLED POST-INSTALLED ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH SHALL ATTAIN THE SPECIFIED TORQUE WITHIN 1/4 TURN OF THE NUT AFTER INITIAL SEATING OF THE SCREW HEAD.
6. SEE SECTIONS FOR TESTING LOADS.

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY
OXNARD, CA 93033

CONSULTANT
REGISTERED PROFESSIONAL ENGINEER BRYAN T. STARR No. S5076 Exp: 6/30/21 STRUCTURAL STATE OF CALIFORNIA
3/9/20

SEAL
LICENSED ARCHITECT MATT R. TITUS NO. C-33925 REN. 08-31-19 STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
3/9/20

REVISIONS

NO.	REASON	DATE

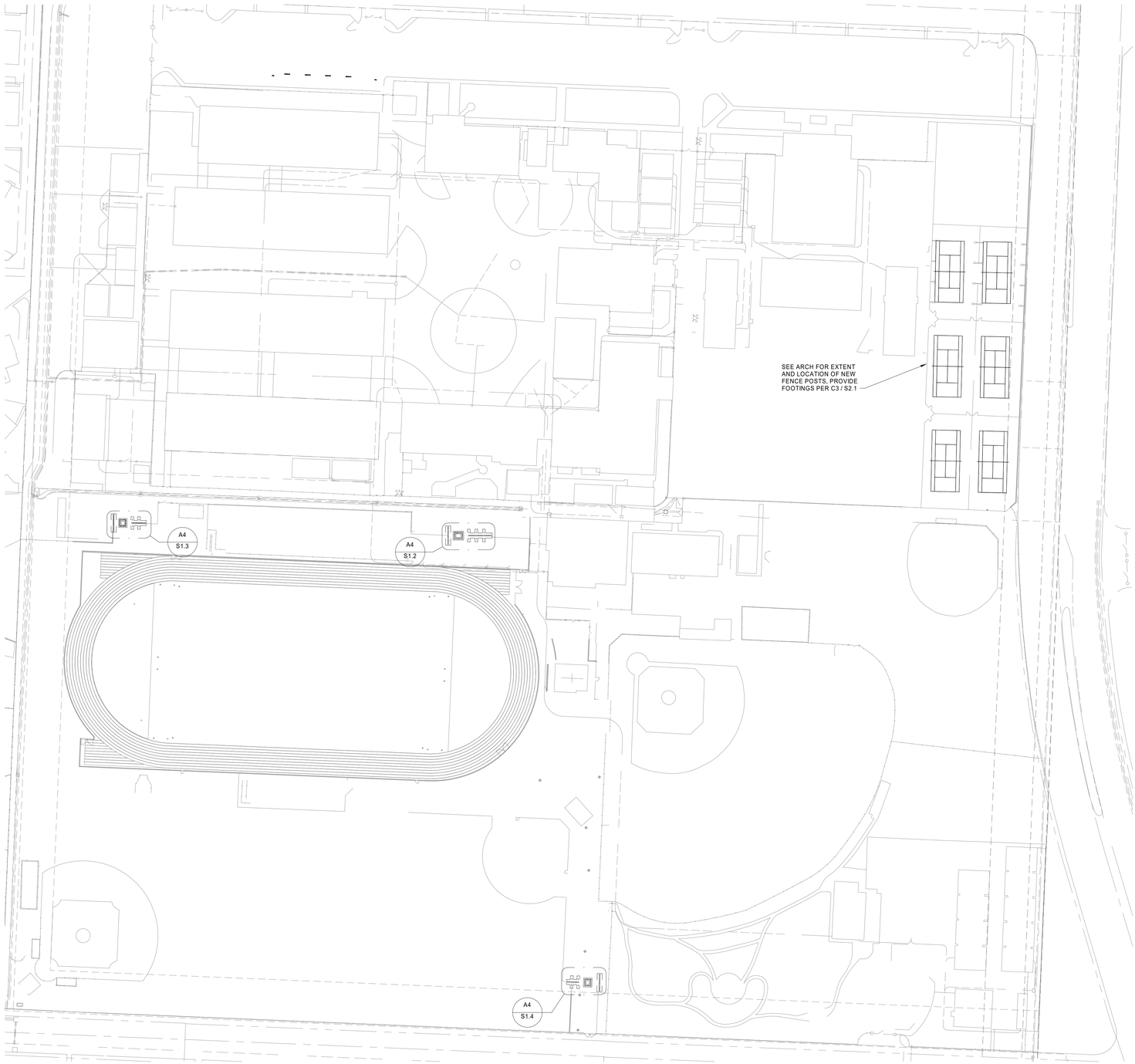
PROJECT TEAM
PRINCIPAL IN CHARGE
Bryan Starr, SE
PROJECT MANAGER
Bryan Starr, SE
DESIGN TEAM
BS/EC

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S0.1



A2 S1.1 OVERALL SITE PLAN
1" = 60'-0"

N

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DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400

www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY
OXNARD, CA 93033

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BRYAN T. STARR
No. S5076
Exp: 6/30/22
STRUCTURAL
STATE OF CALIFORNIA
3/9/20

SEAL

LICENSED ARCHITECT
JAY R. TITTL
NO. C17955
REN. 11-30-19
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
3/9/20

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
Bryan Starr, SE

PROJECT MANAGER
Bryan Starr, SE

DESIGN TEAM
BS/EC

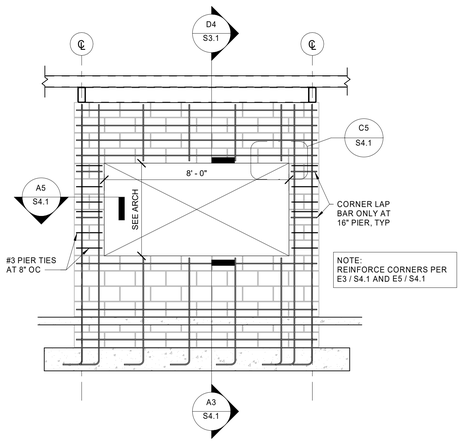
PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

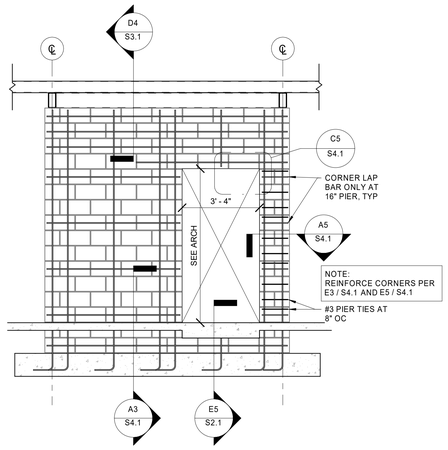
PROJECT NO.
6121235305

SHEET TITLE
OVERALL SITE PLAN

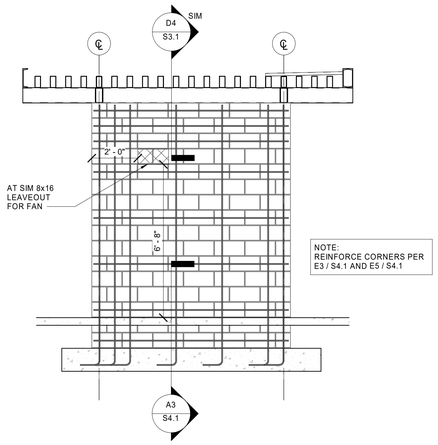
SHEET NUMBER
S1.1



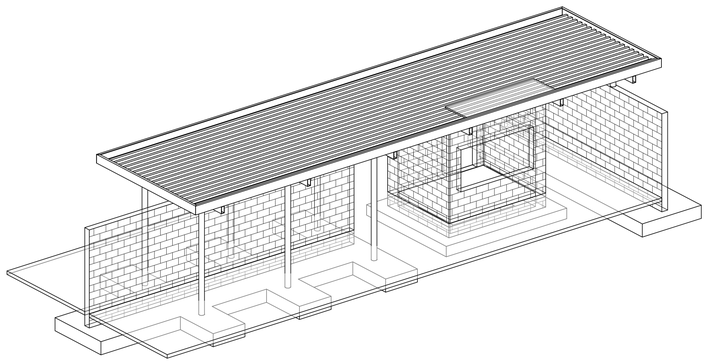
E1 TICKET Bbooth - FRONT ELEVATION
S1.2 3/8" = 1'-0"



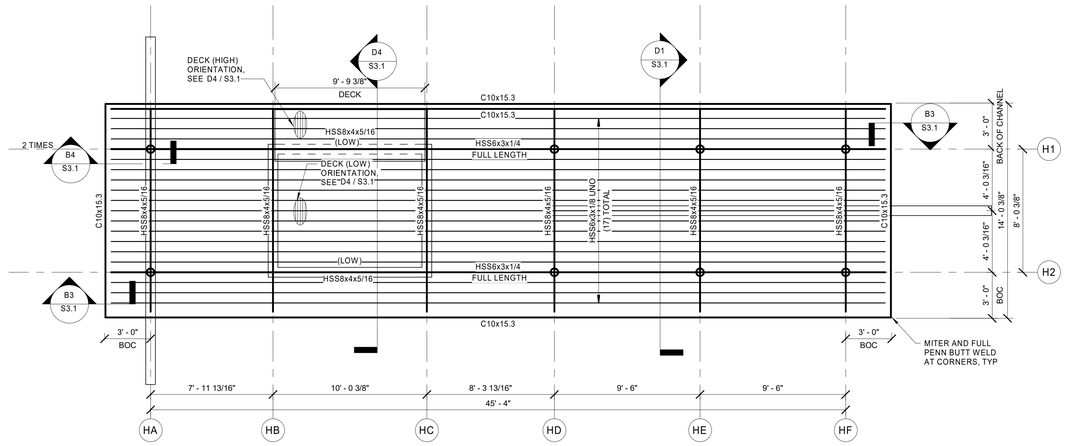
E2 TICKET BOOTH - BACK ELEVATION
S1.2 3/8" = 1'-0"



C1 TICKET BOOTH - SIDE ELEVATION
S1.2 3/8" = 1'-0"

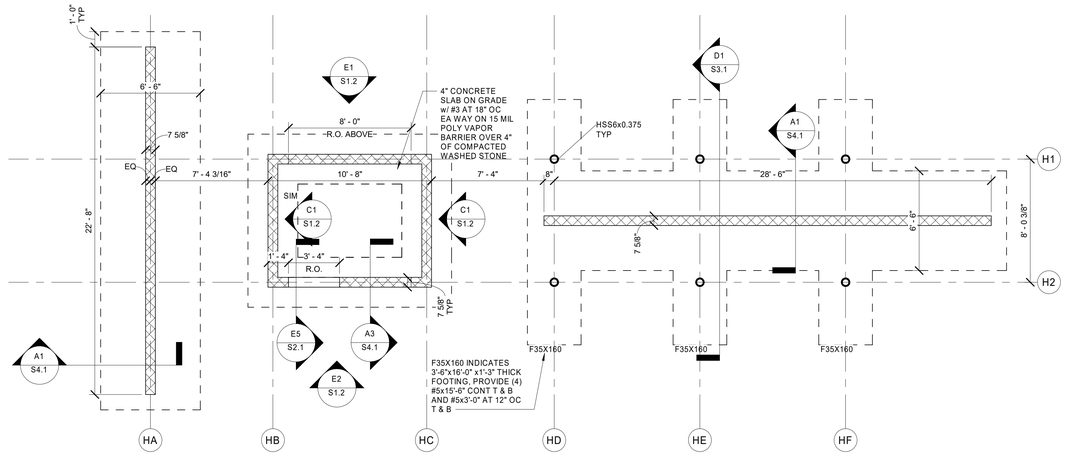


A1 ISOPARAMETRIC VIEW - HOME GATEWAY - FOR INFORMATION ONLY
S1.2



D4 FRAMING PLAN - HOME GATEWAY
S1.2 1/4" = 1'-0"

FRAMING NOTES:
1. SEE S0.1 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL ELEVATIONS REFERENCED FROM FFE (0'-0")
3. SEE S3.1 FOR TYPICAL ROOF FRAMING DETAILS.
4. SEE S4.1 FOR TYPICAL MASONRY DETAILS.
5. ALL EXPOSED STEEL TO BE FINISHED TO AESS3.
6. ALL EXPOSED STEEL TO BE PAINTED UNO, COORD W/ ARCH AND DETAILS.



A4 FOUNDATION PLAN - HOME GATEWAY
S1.2 1/4" = 1'-0"

FOUNDATION NOTES:
1. SEE S0.1 FOR GENERAL NOTES AND ABBREVIATIONS.
2. SEE CIVIL FOR FINISHED FLOOR ELEVATION AND LOCATION OF STRUCTURES. REFERENCE ELEVATION 0'-0", DATUM.
   TOP OF FOOTING 1'-4" BELOW FINISHED FLOOR ELEVATION, UNO. <No> INDICATES TOP OF FOOTING ELEVATION, SEE PLAN.
3. <#> ——— INDICATES STEP IN WALL FOOTING, SEE C1 / S2.1, DETAIL MAY BE USED AS REQUIRED IN FIELD.
4. SEE S2.1 FOR TYPICAL SLAB CONSTRUCTION DETAILS.
5. SEE S2.1 FOR TYPICAL REBAR LAP AND BEND REQUIREMENTS.
6. SEE S4.1 FOR TYPICAL MASONRY CONSTRUCTION DETAILS AND REQUIREMENTS AT OPENINGS.
7. SOIL WITHIN 5'-0" OF NEW BUILDINGS AND WITHIN 3'-0" OF FOOTINGS MUST BE OVER EXCAVATED TO A DEPTH OF 4'-6" BELOW FINISH GRADE. THE RESULTING SURFACE SHOULD BE SCARIFIED AN ADDITIONAL 6" MOISTURE CONDITIONED, AND RECOMPACTED TO ATLEAST 90% OF THE MAXIMUM DRY DENSITY.
8. SEE C3 / S2.1 FOR TYPICAL FENCE POST DETAIL. SEE ARCH AND CIVIL FOR LOCATIONS.
9. GC COORD ALL ROUGH OPENING DIMENSIONS W/ ARCH.
10. LOCATION OF GATEWAY HAS POTENTIAL FOR LIQUEFACTION. SEE CIVIL OVEREX AND RECOMPACTION DETAIL FOR BUILDING PAD GEOGRID REMEDIATION REQUIREMENTS.

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PROJECT MANAGER
Bryan Starr, SE
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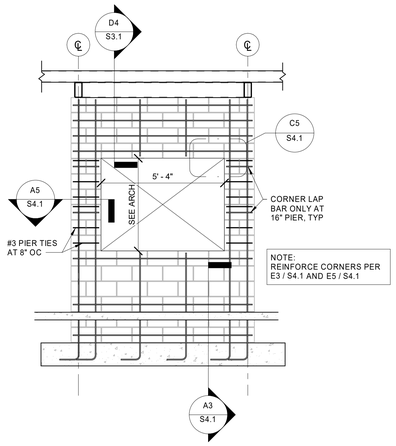
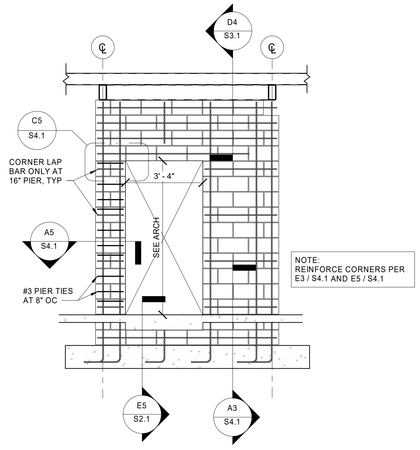
PROJECT NO.
6121235305

SHEET TITLE
GATEWAY PLANS AND ELEVATIONS - HOME GATEWAY

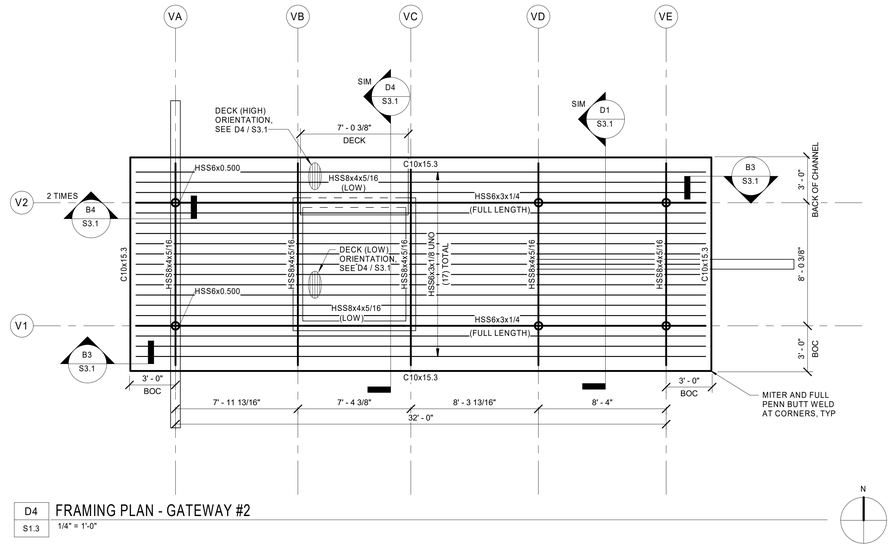
SHEET NUMBER
S1.2



E1 TICKET BOOTH - FRONT ELEVATION
S1.3 3/8" = 1'-0"



E2 TICKET BOOTH - BACK ELEVATION
S1.3 3/8" = 1'-0"



D4 FRAMING PLAN - GATEWAY #2
S1.3 1/4" = 1'-0"

FRAMING NOTES:
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2. ALL ELEVATIONS REFERENCED FROM FFE (0'-0")
3. SEE S3.1 FOR TYPICAL ROOF FRAMING DETAILS.
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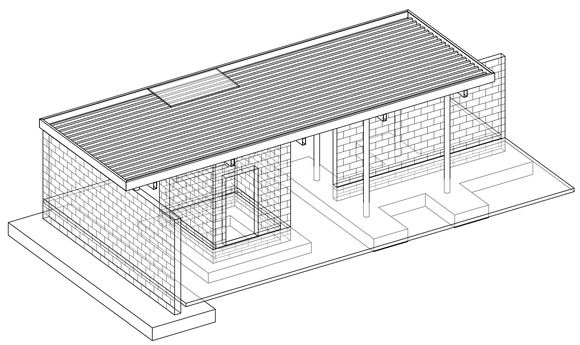
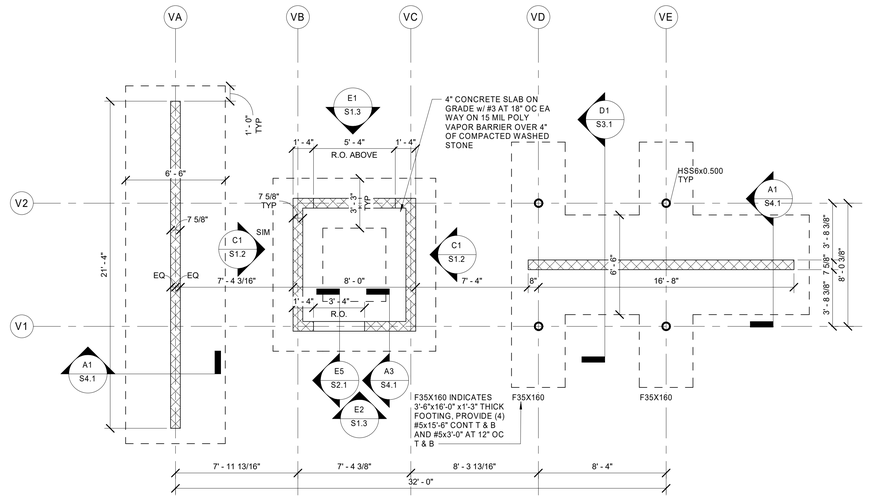


A1 ISOPARAMETRIC VIEW - GATEWAY #2 - FOR INFORMATION ONLY
S1.3



A4 FOUNDATION PLAN - GATEWAY #2
S1.3 1/4" = 1'-0"

FOUNDATION NOTES:
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   TOP OF FOOTING 1'-4" BELOW FINISHED FLOOR ELEVATION, UNO. <No> INDICATES TOP OF FOOTING ELEVATION, SEE PLAN.
3. ⌇ INDICATES STEP IN WALL FOOTING, SEE C1 / S2.1, DETAIL MAY BE USED AS REQUIRED IN FIELD.
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9. GC COORD ALL ROUGH OPENING DIMENSIONS W/ ARCH.
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RENEWAL 08-31-19
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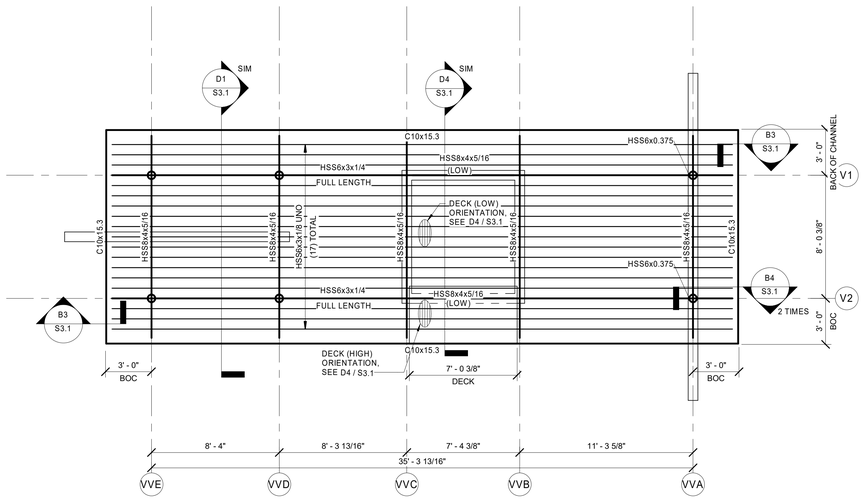
PROJECT NO.
6121235305

SHEET TITLE
GATEWAY PLANS AND ELEVATIONS - GATEWAY #2

SHEET NUMBER
S1.3



D4 S1.4 **FRAMING PLAN - GATEWAY #3**

1/4" = 1'-0"

FRAMING NOTES:
1. SEE S0.1 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL ELEVATIONS REFERENCED FROM FFE (0'-0")
3. SEE S3.1 FOR TYPICAL ROOF FRAMING DETAILS.
4. SEE S4.1 FOR TYPICAL MASONRY DETAILS.
5. ALL EXPOSED STEEL TO BE FINISHED TO AESS3.
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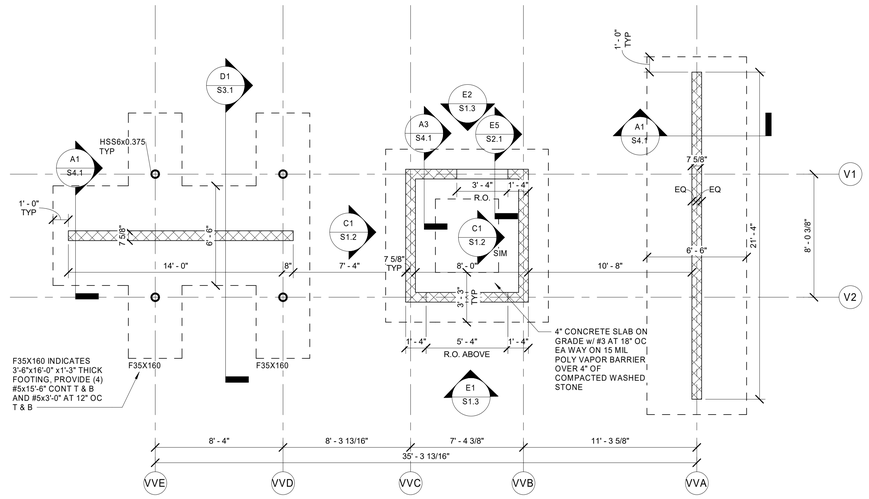
A1 S1.4 **ISOPARAMETRIC VIEW - GATEWAY #3 - FOR INFORMATION ONLY**



A4 S1.4 **FOUNDATION PLAN - GATEWAY #3**

1/4" = 1'-0"

FOUNDATION NOTES:
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   TOP OF FOOTING 1'-4" BELOW FINISHED FLOOR ELEVATION, UNO. <No> INDICATES TOP OF FOOTING ELEVATION, SEE PLAN.
3. -o------ INDICATES STEP IN WALL FOOTING, SEE C1 / S2.1, DETAIL MAY BE USED AS REQUIRED IN FIELD.
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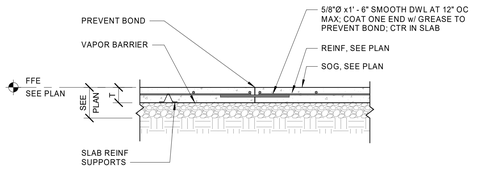
PROJECT NO.
6121235305

SHEET TITLE
GATEWAY PLANS - GATEWAY #3

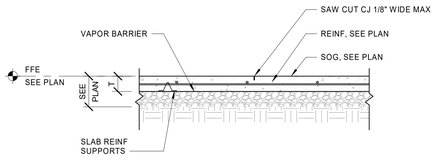
SHEET NUMBER
S1.4



E1 SLAB ON GRADE CONSTRUCTION JOINT DETAIL

S2.1 3/4" = 1'-0"

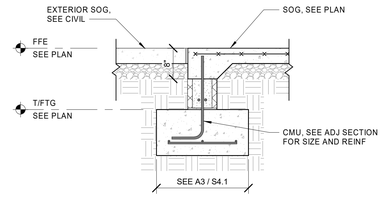
NOTES:
1. DO NOT RUN REINF THROUGH CONSTRUCTION JOINT.



E3 SLAB ON GRADE CONTRACTION JOINT DETAIL

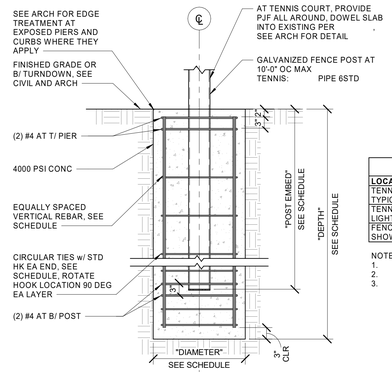
S2.1 3/4" = 1'-0"

NOTES:
1. CUT EVERY OTHER REINF WHERE CONTRACTION JOINTS ARE TO BE CUT.
2. SAW CUT SLAB WITHIN 8 HOURS OF CONCRETE POUR.



E5 CMU WALL AT DOOR

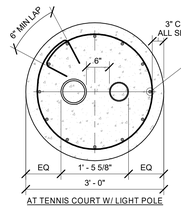
S2.1 3/4" = 1'-0"



NOTES:
1. SEE CIVIL AND ARCH FOR LOCATION OF FENCES
2. AT TENNIS COURT, EMBEDMENT BEGINS AT B/ TURN DOWN ELEVATION

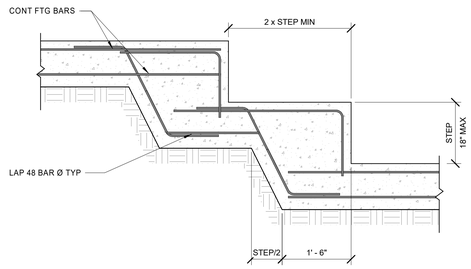
FENCE SCHEDULE							
LOCATION	DEPTH	DIA	VERT REINF	TIES	POST EMBED	MAX HEIGHT	NOTE
TENNIS COURT, TYPICAL	10'-6"	24"	(8) #5	#4 AT 6"	4'-0" MIN	12'-0" AFG	BACK BOARD FULL HEIGHT; WIND SCREEN UP TO +12'-0"
TENNIS COURT W/ LIGHT POLE	9'-8"	36"	(12) #6	#4 AT 9"	4'-0" MIN 20'-0" FIXTURE	12'-0" FENCE	WIND SCREEN UP TO +12'-0" SEE SECTION BELOW
FENCE POSTS NOT SHOWN HERE	SEE 6/A1.3.5					35'-0"	OPEN MESH FENCE PER DSA IR A-22

NOTE:
1. 100PSF/FT PASSIVE RESISTANCE W/ 1/3 INCREASE FOR LATERAL LOADS, NO OVER EXCAVATION REQUIRED.
2. REMOVE ALL LOOSE DEBRIS FROM BASE PRIOR TO POURING CONCRETE
3. MIN 6" CLR BETWEEN POSTS AT COMBINED TENNIS COURT FENCE AND LIGHT POLE FOOTINGS. CENTER IN PIER TO ENSURE EQUAL CLEAR FROM OUTSIDE FACE OF POSTS. SEE ARCH FOR DETAIL.



AT TENNIS COURT W/ LIGHT POLE

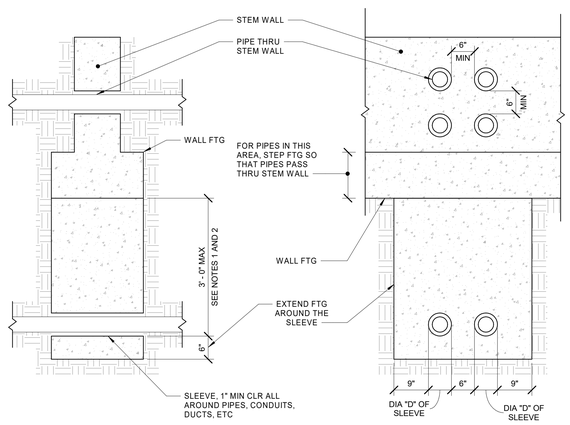
NOTE:
THIS ITEM IS EXEMPTED FOR SPECIAL INSPECTIONS PER DSA 103.



C1 TYPICAL FOOTING STEP DETAIL

S2.1 3/4" = 1'-0"

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE / VERIFY THE LOCATION OF FOOTING STEPS WITH THE FINISHED GRADING PLAN.
2. PROVIDE 1'-4" MINIMUM COVER ABOVE TOP OF FOOTING.
3. ADDED BARS TO BE THE SAME SIZE AND QUANTITY AS CONTINUOUS BARS.



A1 PIPE PENETRATION PERPENDICULAR TO FOOTING

S2.1 3/4" = 1'-0"

NOTES:
1. FOR PIPES 3' - 0" OR LESS BELOW BOTTOM OF FOOTING, PROVIDE SLEEVE AND CONCRETE AS SHOWN.
2. FOR PIPES BETWEEN 3' - 0" AND 5' - 0" BELOW BOTTOM OF FOOTING, STEP FOOTING SO THAT THE BOTTOM OF SLEEVE IS 3' - 0" MAX FROM BOTTOM OF FOOTING AS SHOWN ABOVE.
3. FOR PIPES 5' - 0" OR MORE BELOW BOTTOM OF FOOTING, SLEEVES AND FOOTING EXTENSION ARE NOT REQUIRED.

C3 TYPICAL FENCE POST FOUNDATION

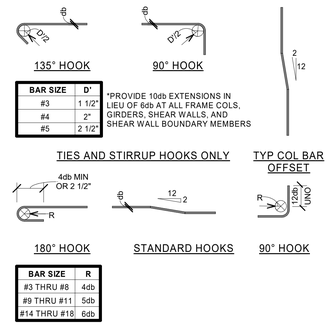
S2.1 3/4" = 1'-0"

BAR DESCRIPTION AND LOCATION IN STRUCTURE	CONC STRENGTH (PSI)	BAR SIZE	#3		#4		#5		#6		#7		#8		#9		#10		#11	
		LAP TYPE	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
BAR w/ SPACING >2x db CLR COVER >db OR BEAM AND COL BARS w/ SPACING >db CLR COVER >db	3000	TOP	1'-10"	2' - 4"	2' - 5"	3'-2"	3' - 0"	3' - 11"	3' - 7"	4' - 8"	5' - 3"	6' - 9"	6' - 0"	7' - 9"	6' - 9"	8' - 9"	7' - 7"	9' - 10"	8' - 5"	10' - 11"
		BOTTOM	1' - 5"	1'-10"	1'-10"	2' - 5"	2' - 4"	3' - 0"	2' - 9"	3' - 7"	4' - 0"	5' - 3"	4' - 7"	6' - 0"	5' - 2"	6' - 9"	5' - 10"	7' - 7"	6' - 6"	8' - 5"
	4000	TOP	1' - 7"	2' - 1"	2' - 1"	2' - 9"	2' - 7"	3' - 5"	3' - 1"	4' - 1"	4' - 6"	5' - 11"	5' - 2"	6' - 9"	5' - 10"	7' - 7"	6' - 7"	8' - 6"	7'-3"	9' - 6"
		BOTTOM	1' - 3"	1' - 7"	1' - 7"	2' - 1"	2' - 0"	2' - 7"	2' - 5"	3' - 1"	3' - 6"	4' - 6"	4' - 0"	5' - 2"	4' - 6"	5' - 10"	5' - 1"	6' - 7"	5' - 7"	7'-3"
	5000	TOP	1' - 5"	1'-10"	1' - 11"	2' - 5"	2' - 4"	3' - 0"	2' - 10"	3' - 8"	4' - 1"	5' - 3"	4' - 8"	6' - 0"	5' - 3"	6' - 9"	5' - 11"	7'-8"	6' - 6"	8' - 6"
		BOTTOM	1' - 1"	1' - 5"	1' - 5"	1' - 11"	1'-10"	2' - 4"	2' - 2"	2' - 10"	3'-2"	4' - 1"	3' - 7"	4' - 8"	4' - 0"	5' - 3"	4' - 6"	5' - 11"	5' - 0"	6' - 6"
OTHER CASES	3000	TOP	2' - 9"	3' - 6"	3' - 7"	4' - 8"	4' - 6"	5' - 10"	5' - 5"	7' - 0"	7' - 10"	10' - 2"	8' - 11"	11' - 7"	10' - 1"	13' - 1"	11'-4"	14' - 9"	12' - 7"	16' - 4"
		BOTTOM	2' - 1"	2' - 9"	2' - 9"	3' - 7"	3' - 6"	4' - 6"	4' - 2"	5' - 5"	6' - 0"	7' - 10"	6' - 11"	8' - 11"	7' - 9"	10' - 1"	8' - 9"	11' - 9"	9' - 8"	12' - 7"
	4000	TOP	2' - 4"	3' - 1"	3' - 1"	4' - 1"	3' - 11"	5' - 1"	4' - 8"	6' - 1"	6' - 9"	8' - 10"	7' - 9"	10' - 1"	8' - 9"	11'-4"	9' - 10"	12' - 9"	10' - 11"	14' - 2"
		BOTTOM	1'-10"	2' - 4"	2' - 5"	3' - 1"	3' - 0"	3' - 11"	3' - 7"	4' - 8"	5' - 3"	6' - 9"	6' - 0"	7' - 9"	6' - 9"	8' - 9"	7' - 7"	9' - 10"	8' - 5"	10' - 11"
	5000	TOP	2' - 1"	2' - 9"	2' - 10"	3' - 8"	3' - 6"	4' - 6"	4' - 2"	5' - 5"	6' - 1"	7' - 11"	6' - 11"	9' - 0"	7' - 10"	10' - 2"	8' - 10"	11' - 5"	9' - 9"	12' - 8"
		BOTTOM	1' - 8"	2' - 1"	2' - 2"	2' - 10"	2' - 8"	3' - 6"	3' - 3"	4' - 2"	4' - 8"	6' - 1"	5' - 4"	6' - 11"	6' - 0"	7' - 10"	6' - 9"	8' - 10"	7'-6"	9' - 9"

A3 SPLICE TABLE - GENERAL

S2.1 NOT TO SCALE

NOTES:
1. USE THIS TABLE FOR BAR SPLICES UNLESS SPECIFICALLY DETAILED AND DIMENSIONED ON PLANS.
2. FOR TENSION DEVELOPMENT LENGTHS "Ld," USE CLASS "A" SPLICE LENGTHS.
3. ALL SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED ON PLANS.
4. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW BAR.
5. BOTTOM BARS ARE ALL VERTICAL BARS, ALL HORIZONTAL WALL REINFORCEMENT, AND HORIZONTAL REINFORCEMENT WITH LESS THAN 12" OF CONCRETE CAST BELOW BAR.
6. COVER DESIGNATES CLEAR CONCRETE COVER FROM SPLICED BAR TO FACE OF MEMBER, SPACING DESIGNATES CLEAR DIMENSION BETWEEN SPLICED BARS.



BAR SIZE	D'
#3	1 1/2"
#4	2"
#5	2 1/2"

*PROVIDE 10db EXTENSIONS IN LIEU OF 6db AT ALL FRAME COLS, GIRDERS, SHEAR WALLS, AND SHEAR WALL BOUNDARY MEMBERS

TIES AND STIRRUP HOOKS ONLY

TYP COL BAR OFFSET

BAR SIZE	R
#3 THRU #8	4db
#9 THRU #11	5db
#14 THRU #18	6db

A6 REINFORCING BAR BENDING DETAIL

S2.1 NOT TO SCALE

NOTES:
1. FOR TENSION SPLICE SEE A3 / S2.1

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PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY
OXNARD, CA 93033

CONSULTANT
REGISTERED PROFESSIONAL ENGINEER BRYAN T. STARR No. S5076 Exp: 6/30/21 STRUCTURAL STATE OF CALIFORNIA
3/9/20

SEAL
LICENSED ARCHITECT JAY R. TITTEL NO. C-25615 RENEWAL 08-31-19 STATE OF CALIFORNIA

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Bryan Starr, SE
PROJECT MANAGER
Bryan Starr, SE
DESIGN TEAM
BS/EC

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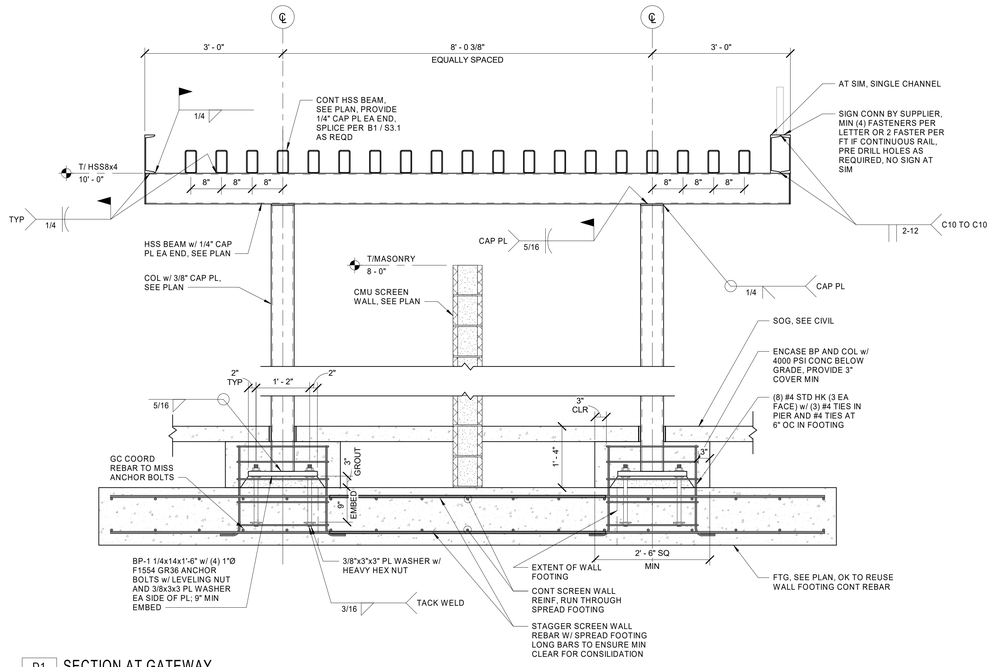
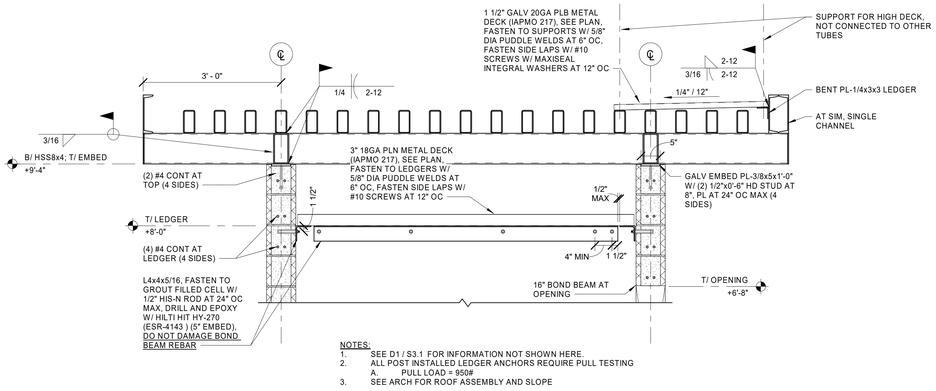
PROJECT NO.
6121235305

SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
S2.1

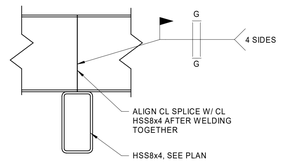


D1 SECTION AT GATEWAY
S3.1 3/4" = 1'-0"

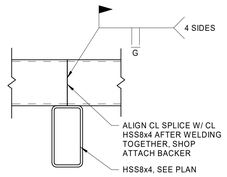


NOTES:
1. SEE D1 / S3.1 FOR INFORMATION NOT SHOWN HERE.
2. ALL POST INSTALLED LEDGER ANCHORS REQUIRE PULL TESTING
   A. PULL LOAD = 950#
3. SEE ARCH FOR ROOF ASSEMBLY AND SLOPE

D4 SECTION AT GATEWAY
S3.1 3/4" = 1'-0"



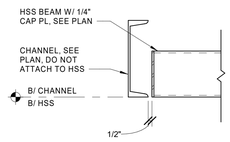
AT C10



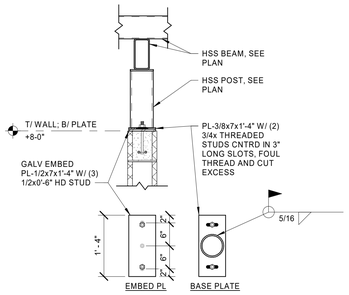
AT HSS

NOTE:
FINISH WELDS TO MATCH AESS REQUIREMENTS OF MEMBER

B1 TUBE SPLICE DETAIL
S3.1 1 1/2" = 1'-0"



B3 SECTION AT TRELLIS
S3.1 1 1/2" = 1'-0"



B4 SECTION AT POST ON MASONRY WALL
S3.1 3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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No. S5076
Exp: 4/30/21
STRUCTURAL
STATE OF CALIFORNIA
3/9/20

SEAL
LICENSED ARCHITECT
JAY R. TITTLE
No. C13035
REN: 12-31-19
STATE OF CALIFORNIA

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PROJECT MANAGER
Bryan Starr, SE
DESIGN TEAM
BS/EC

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PROJECT NO.
6121235305

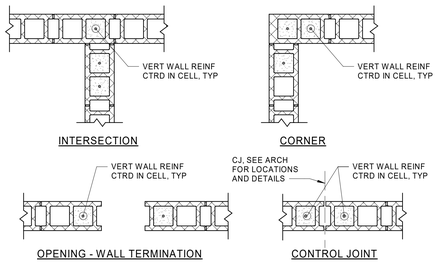
SHEET TITLE
FRAMING DETAILS

SHEET NUMBER
S3.1

CMU WALL REINFORCING LAP SPLICE SCHEDULE

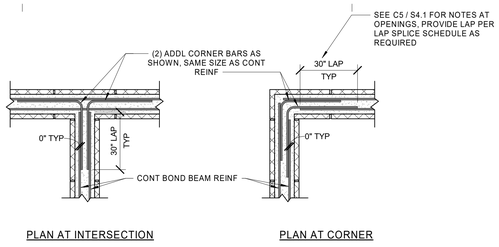
BAR SIZE	LAP SPLICE LENGTH (INCHES)			
	8" CMU		12" CMU	
	1 BAR/CELL CTRD	2 BARS/CELL CLR 3"	1 BAR/CELL CTRD	2 BARS/CELL CLR 3"
#3	19"	19"	19"	19"
#4	25"	30"	25"	25"
#5	31"	49"	31"	39"
#6	57"		53"	75"
#7	79"		61"	104"

E1 TYPICAL MASONRY LAP SPLICE SCHEDULE
S4.1 NOT TO SCALE



NOTE:
MATCH DIAMETER OF TYPICAL VERTICAL REINFORCEMENT WHERE THIS DETAIL APPLIES

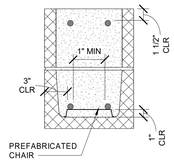
E3 TYPICAL CMU WALL REINFORCING
S4.1 NOT TO SCALE



NOTE:
MATCH DIAMETER OF TYPICAL HORIZONTAL REINFORCEMENT WHERE THIS DETAIL APPLIES

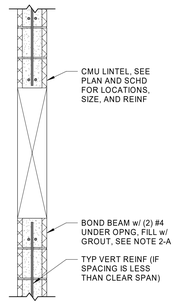
E5 TYPICAL BOND BEAM CORNERS AND INTERSECTIONS
S4.1 NOT TO SCALE

MAX CLEAR SPAN	CMU LINTEL			JAMB	
	DEPTH 'D'	8" WALL	12" WALL	WIDTH 'W'	8" WALL
4' - 0"	8"	(2) #4 BOTT		8"	(1) #5
8' - 0"	16"	(2) #4 BOTT		16"	(1) #5 EA CELL

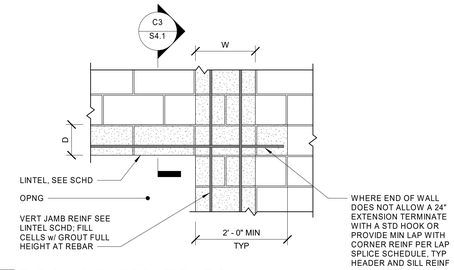


C1 TYPICAL CMU LINTEL SCHEDULE
S4.1 NOT TO SCALE

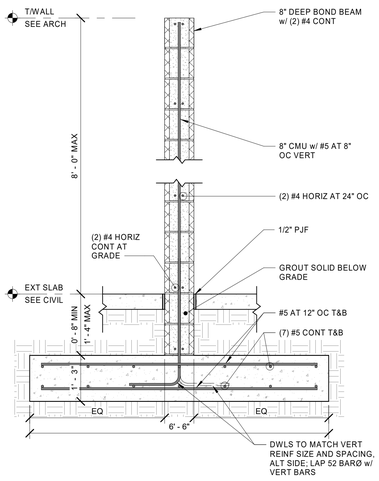
NOTES:
1. USE THIS SCHEDULE AT OPENINGS IN CMU WALLS WHERE LINTELS ARE NOT INDICATED ON PLANS.
2. SEE C3 / S4.1 AND C5 / S4.1 FOR CMU LINTEL SECTION AND ELEVATION.
3. REINFORCING TO BE HELD OFF BOTTOM OF MASONRY BLOCK USING PREFABRICATED CHAIRS (SUBMIT FOR APPROVAL). REBAR TO BE LOCATED IN BOND BEAM WITHIN ±1/4" (CONSTRUCTION TOLERANCE) AS SHOWN IN DETAIL.
4. PROVIDE 2'-0" BEARING OVER MASONRY EACH END WHERE POSSIBLE, SEE CMU WALL REINFORCING AND LINTEL DETAILS.
5. SEE ARCHITECTURAL AND MEP DRAWINGS FOR LINTELS IN NON-LOAD BEARING WALLS.



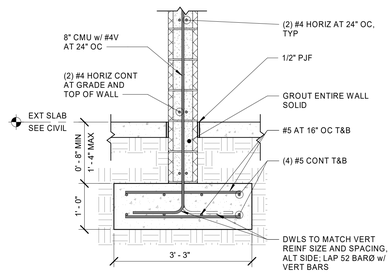
C3 TYPICAL CMU LINTEL SECTION
S4.1 NOT TO SCALE



C5 TYPICAL CMU LINTEL ELEVATION
S4.1 NOT TO SCALE

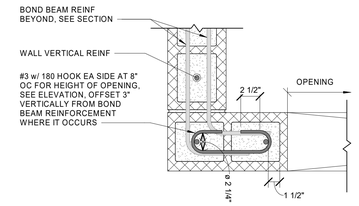


A1 SECTION AT MASONRY SCREEN WALL
S4.1 NOT TO SCALE



NOTE:
TYPICAL ALL (4) SIDES OF TICKET BOOTH, SEE E3 / S4.1 AND E5 / S4.1 FOR CORNER REINFORCEMENT

A3 SECTION AT EXTERIOR TICKET BOOTH MASONRY WALL
S4.1 3/4" = 1'-0"



NOTE:
PROVIDE EA SIDE AT WINDOW AND ONE SIDE AT DOOR

A5 TIE AT WALL PIER
S4.1 1 1/2" = 1'-0"

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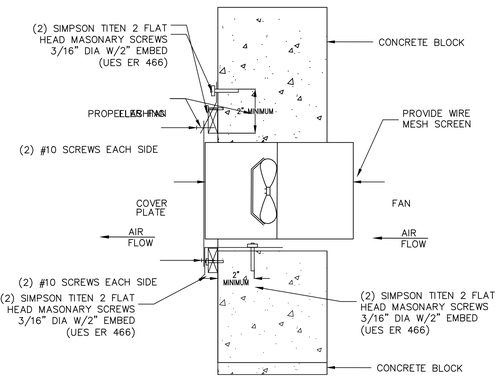
6121235305

SHEET TITLE
MASONRY DETAILS

SHEET NUMBER
S4.1



SIDEWALL PROPELLER FAN

SCALE	1
NONE	

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 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component 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 plans. 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 a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the 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 have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A. 1.24, 1616A. 1.25, and 1616A. 1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on 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 system. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP):

MP ☐ MD ☐ PP ☐ – Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☐ – Option 2: Shall comply with the applicable OSHPD Pre-Approved (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 accounts for the applicable Seismic Hazard Level AA and Connection Level 2 for the project and conditions.

HVAC SYMBOL AND ABBREVIATIONS

	SUPPLY AIR DUCT	
	RETURN, TRANSFER,EXHAUST OR BY-PASS AIR DUCT	
	SUPPLY AIR DIFFUSER	S.A
	RETURN AIR REGISTER	R.A.
T	TRANSFER AIR REGISTER	T.A.
	EXHAUST AIR REGISTER	E.A
T	AC UNIT THERMOSTAT & ZONE	
	VOLUME DAMPER	V.D.
UC	UNDER CUT DOOR	
D.L.	DOOR LOUVER	D.L.
	DUCT TRANSITION	
CLG	CEILING	
O.A	OUTSIDE AIR	
C.D.	CEILING DIFFUSER	
F.P.	FILLER PANEL	
R.C.G.	RETURN CEILING GRILLE	
R.C.R.	RETURN CEILING REGISTER	
T.C.G.	TRANSFER CEILING GRILLE	
E.C.G.	EXHAUST CEILING GRILLE	
E.C.R.	EXHAUST CEILING REGISTER	
S.W.G.	SUPPLY WALL GRILLE	
S.W.R.	SUPPLY WALL REGISTER	
R.W.G.	RETURN WALL GRILLE	
R.W.R.	RETURN WALL REGISTER	
T.W.G.	TRANSFER WALL GRILLE	
E.W.G.	EXHAUST WALL GRILLE	
E.W.R.	EXHAUST WALL REGISTER	
F.L.F.D.	FUSIBLE LINK FIRE DAMPER	
A.P.	ACCESS PANEL	
U.L.A.P.	U.L. LISTED ACCESS PANEL	
A.C.	AIR CONDITIONING UNIT	
E.F.	EXHAUST FAN	
GV	GRAVITY VENTILATOR	
FEF	FUME HOOD EXHAUST FAN	
P.O.C.	POINT OF CONNECTION	
A.F.F.	ABOVE FINISHED FLOOR	
AC	AIR CONDITIONING UNIT	
FLR	FLOOR	
C.C.	COOLING UNIT	
HP	HEAT PUMP UNIT	
KEF	KITCHEN HOOD EXHAUST FAN	
KSF	KITCHEN HOOD SUPPLY FAN	
A	FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL DIVISION OF THE SPECIFICATIONS.	
E	FURNISHED AND INSTALLED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.	
S	FURNISHED AND INSTALLED UNDER THE STRUCTURAL DIVISION OF THE SPECIFICATIONS.	
	COMBINATION SMOKE/FIRE DAMPER	CSFD
(L) OR	INTERNALLY LINED DUCTWORK	
CO_2	CARBON DIOXIDE SENSOR	
OR	S.A. OR R.A. DUCT DROPS	
	E.A. DUCT DROP	

GENERAL REQUIREMENTS

1. A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.

2. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH AND WORKMAN-LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.

3. MATERIALS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.

4. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUB-MISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS & EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

5. CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT.

6. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCTS, PIPES, CONDUIT, ETC.

7. INSULATION SHALL BE U.L. LISTED IN COMPLIANCE WITH FLAME-SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50, PER THE CALIFORNIA MECHANICAL CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA ENERGY COMMISSION AND CMC REQUIREMENTS.

8. CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.

9. BALANCING AND ADJUSTING: ALL WATER SYSTEMS SHALL BE ADJUSTED BY AN INDEPENDENT BALANCING CONTRACTOR THAT IS A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC). SUBMIT BALANCE REPORT TO OWNER PRIOR TO RECEIVING FINAL PAYMENT.

10. COORDINATE LOCATIONS OF ALL ROOF WALL OPENINGS WITH ALL RELEVANT TRADES, AND PROVIDE WATERTIGHT FLASHINGS WHEREVER PENETRATIONS OCCUR. EXACT LOCATIONS AND SIZES MAY BE DEPENDENT UPON EQUIPMENT SELECTIONS; COORDINATE SIZES AND LOCATIONS OF ALL OPENINGS WITH APPROPRIATE EQUIPMENT REQUIREMENTS.

11. PERMANENT ACCESS TO EQUIPMENT SHALL BE PROVIDED, AND A MINIMUM OF 30" CLEAR WORKING SPACE IN FRONT OF ACCESS PANELS TO THE EQUIPMENT SHALL BE PROVIDED.

12. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

13. GAS-FIRED EQUIPMENT SHALL BE EQUIPPED WITH A PILOTLESS ELECTRONIC INTERMITTENT IGNITION SYSTEM. GAS FIRED BOILER AND GAS FIRED AC UNITS SHALL MEET ALL SQAMD LO-NOX REQUIREMENTS.

14. EACH PIECE OF EQUIPMENT AND ALL SYSTEMS SHALL BE ADJUSTED AND RE-ADJUSTED TO INSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, ADEQUACY OF FLOWS AND CAPACITIES, ELIMINATION OF NOISE AND VIBRATION, AND SHALL BE LEFT IN PROPER OPERATING CONDITION.

15. AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED AND LISTED TYPE. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN IN THE STATE FIRE MARSHAL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

16. VOLUME DAMPERS SHALL BE PROVIDE IN EACH BRANCH DUCT SERVING EACH REGISTER OR DIFFUSER (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).

EXHAUST FAN SCHEDULE

BUILDING	UNIT	MAKE	MODEL	FAN TYPE	ELECTRICAL DATA			TOTAL CFM	SP (IN)	SONES	DUCT CONNECTION	OPER. WT. (LBS)	REMARKS									
					WATTS	V	PH						1	2	3	4	5	6	7	8	9	10
TICKET BOOTHS	EF-1	COOK	CBF	WALL MOUNTED	54.9	120	1	150	.25	5.1	--	35	X	X								

(1) INTERLOCK WITH WALL SWITCH. PROVIDE WITH SPEED CONTROL.
(2) PROVIDE WITH BIRDSCREEN AND MANUFACTURERS MOUNTING KIT AS REQUIRED.
(3) PROVIDE WITH MANUFACTURERS COASTAL CORROSION PREVENTION COATINGS.

DSA NOTES

1. UNLESS SPECIFIED ON STRUCTURAL / ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD AND DSA PRIOR TO START OF WORK.

2. PIPE AND DUCTS SUPPORTS:

PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHPD ANCHORAGE PRE-APPROVAL NO. R-0010, THE SMACNA GUIDELINES FOR SEISMIC RESTRAINT MANUAL FOR MECHANICAL SYSTEM. ONCE THE EXACT LOCATION OF ALL PIPES, DUCTS AND CONDUITS HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. SEE ASCE 7-05 SECTION 13.6 FOR REQUIREMENTS.

3. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7-05 SECTION 13.6 AND TABLE 13.6-1.

4. ALL PLUMBING LINES SHALL BE LOCATED 12 INCHES MINIMUM AWAY FROM STRUCTURAL HOLD DOWN BOLTS.

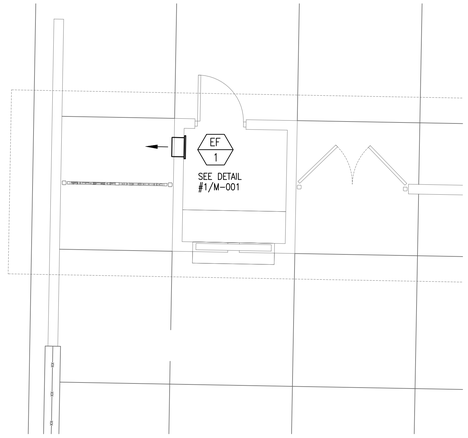
5. ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

MECHANICAL EQUIPMENT BRACING AND ANCHORAGE:

ALL MECHANICAL EQUIPMENT AND DUCTS SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEM PUBLISHED BY SMACNA (1998) AND APPROVED BY DSA.

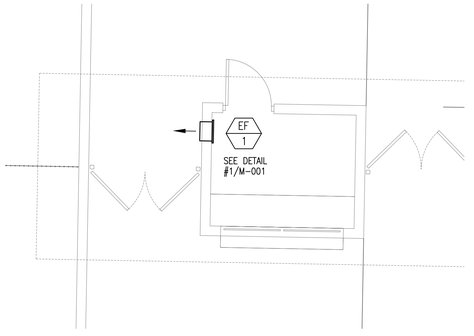
WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, THE MECHANICAL ENGINEER AND THE DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA (1998) AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.



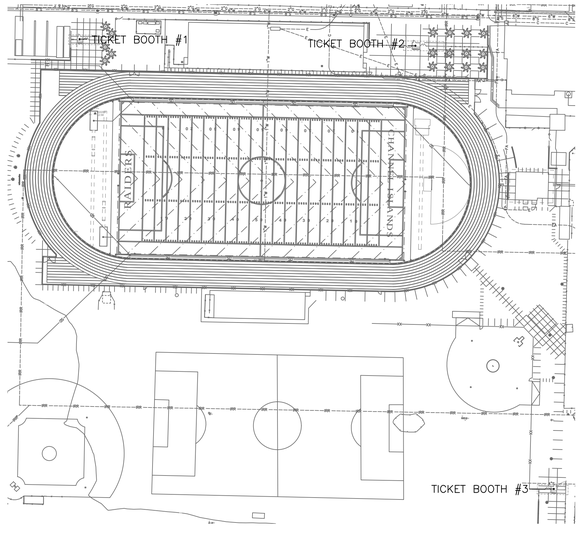
TICKET BOOTH #1 MECHANICAL FLOOR PLAN

Scale 1/4" = 1'-0"



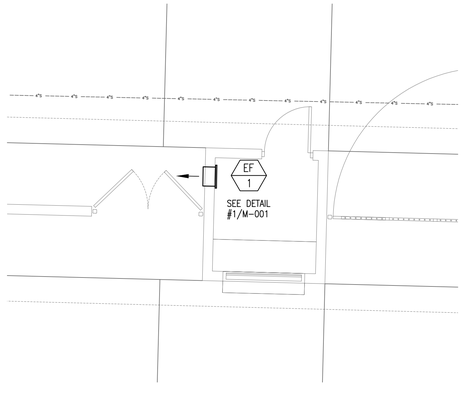
TICKET BOOTH #2 MECHANICAL FLOOR PLAN

Scale 1/4" = 1'-0"



SITE KEY PLAN

Scale 1" = 60'-0"



TICKET BOOTH #3 MECHANICAL FLOOR PLAN

Scale 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

LICENSED ARCHITECT RAY K. YTTSO No. C-29615 Exp. 11-30-21 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ALEX E. SOLOMON No. 27963 Exp. 6/30/20 MECHANICAL STATE OF CALIFORNIA

Engineous Group, Inc.
751 N. Fair Oaks Ave., Suite 201
Pasadena, CA 91103
Phone: (626) 696-3850

DSA Submittal

03/09/2020

NO.	REASON	DATE

PRINCIPAL IN CHARGE
B.E.S./A.O.

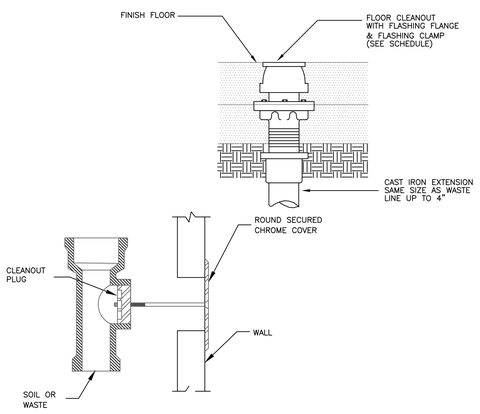
PROJECT MANAGER
A.O.

DESIGN TEAM
J.H.

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD

MECHANICAL COVER SHEET AND FLOOR PLANS

M-001



TYPICAL WALL & FLOOR CLEANOUT

SCALE	—
NONE	

SCALE	—
NONE	

SCALE	—
NONE	

SCALE	—
NONE	

PLUMBING SYMBOLS AND ABBREVIATIONS

SOIL WASTE OR SEWER ABV GRADE	S OR W
WASTE OR SEWER BELOW GRADE	S OR W
D — STORM DRAIN	S.D
SANITARY VENT	
COLD WATER	C.W.
HOT WATER	H.W.
HOT WATER RETURN	H.W.R.
T — TEMPERED WATER	T.W.
IND — INDUSTRIAL WATER	
A — AIR LINE	A.
F — FIRE LINE	F.L.
G — FUEL GAS (LOW PRESSURE)	G.
XG — FUEL GAS (MEDIUM PRESSURE)	X.G.
IW — INDIRECT WASTE	I.W.
XI — IRRIGATION MAIN	X.I.
SHUT-OFF VALVE	S.O.V.
PRESSURE REDUCING VALVE	P.R.V.
PRESSURE-TEMPERATURE RELIEF VALVE	P-T REL. V.
CHECK VALVE	C.V.
SHUT-OFF VALVE IN BOX	
CLEAN OUT TO GRADE	C.O.T.G.
WALL CLEANOUT	W.C.O.
FLOOR CLEANOUT	F.C.O.
HOSE BIBB	H.B.
DROP	
RISE	
FIRE SPRINKLER HEAD	
UNION	
V.R. — VENT RISE	
V.O. — VENT OFFSET	
V.T.R — VENT THRU ROOF	
F.E. — FIRE EXTINGUISHER	
D.C.D.A. — DOUBLE-CHECK DETECTOR ASSEMBLY	
F.H. — FIRE HYDRANT	
R.P.B.F. — REDUCED-PRESSURE BACKFLOW PREVENTER	
F.V. / F.T. — FLUSH VALVE / FLUSH TANK	
D.S. — DOWNSPOUT	
A.F.F. — ABOVE FINISH FLOOR	
M.H. — MANHOLE	
C.B. — CATCH BASIN	
F.D. — FLOOR DRAIN	
F.S. — FLOOR SINK	
S.B. — SERVICE BASIN	
S.S. — SERVICE SINK	
G.H.V. — GARDEN HOSE VALVE	
A.B. — ACCESS BOX	
A.P. — ACCESS PANEL	
I.E. — INVERT ELEVATION	
L.K.S. — LOOSE KEY STOP	
P.O.C. — POINT OF CONNECTION	
F.G. — FINISHED GRADE	
N.I.C. — NOT IN CONTRACT	
R.I.& C. — ROUGH-IN & CONNECT	
U.O.S. — UNDER OTHER SECTION	
W.H.A. — WATER HAMMER ARRESTER	
PREFIX "E" — INDICATES EXISTING	
G.P.R. — GAS PRESSURE REGULATOR	
O.D. — OVERFLOW DOWNSPOUT	
DIRECTION OF FLOW	
TPS — TRAP PRIMER SUPPLY	
ABV — ABOVE	
BEL — BELOW	
DN — DOWN	
HDR — HEADER	

APPLICABLE CODES:

THE APPLICABLE CODES TO THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO:
2016 CALIFORNIA PLUMBING CODE
2016 CALIFORNIA MECHANICAL CODE
2016 CALIFORNIA ENERGY CODE
2016 CALIFORNIA GREEN BUILDING CODE

ACCESSIBLE PLUMBING FIXTURE MOUNTING HEIGHTS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	MAKE & MODELS	T-24 REQUIREMENTS
WC CH	WATER CLOSET (WALL MOUNTED) ADULTS	17"-19" TO TOP OF SEAT	AMERICAN STANDARD 'MADERA' 3461.128 WC SLOAN "ROYAL" 111XL, 1.28 GPF FLUSH VALVE	FLUSH VALVE HANDLE TO BE ON WIDE SIDE OF WATER CLOSET
UR CH	URINALS ADULT STUDENTS	17" TO TOP LIP	AMERICAN STANDARD WASHBROOK 6590.125 UR SLOAN "ROYAL" 186-1-YB, .125 GPF FLUSH VALVE	FLUSH VALVE @ 37" ABOVE FIN. FLOOR

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE						REMARKS
		TRAP	W	V	CW	HW	TW	
WC CH	F.V. WATER CLOSET	INTEGRAL	4"	2"(a)	1"	–	–	
UR CH	F.V. URINAL	INTEGRAL	2"	1 1/2"	1 1/4	–	–	

(a) UNLESS OTHERWISE INDICATED ON THE DRAWINGS
(b) 1 1/4"x 1 1/2"
(c) WHERE APPLICABLE
(d) HOT WATER OR TEMPERED WATER AS APPLICABLE

GENERAL REQUIREMENTS

1. A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.

2. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH AND WORKMAN-LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.

3. MATERIALS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.

4. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

5. CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING CALIFORNIA TITLE 24.

6. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCTS, PIPES, CONDUIT, ETC.

7. INSULATION SHALL BE U.L. LISTED IN COMPLIANCE WITH FLAME-SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50, PER THE CALIFORNIA MECHANICAL CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA ENERGY COMMISSION AND CPC REQUIREMENTS.

8. HORIZONTAL DRAINAGE PIPING SHALL BE RUN AT A UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT TOWARD THE POINT OF DISPOSAL. WHERE APPROVED BY THE LOCAL AUTHORITY OR INDICATED ON DRAWINGS, DRAINAGE PIPING 4 INCHES, OR LARGER, MAY BE RUN AT A UNIFORM SLOPE OF 1/8INCHES PER FOOT. ALL PIPING UNDER BUILDINGS SHALL BE SLOPED AT ¼ INCHES PER FOOT.

9. ALL FLOOR SINKS SHALL BE FLUSHED TO THE FLOOR. ALL LINES DRAINING TO THE FLOOR SINK SHALL SLOPE A MINIMUM OF 1/4" PER FOOT AND SHALL TERMINATE AT LEAST ONE INCH ABOVE THE RIM OF THE FLOOR SINK. ALL FLOOR SINKS AND FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.

10. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN FEET FROM OR AT LEAST THREE FEET ABOVE ANY OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT, AND SHALL TERMINATE NOT LESS THAN 6INCHES ABOVE THE ROOF OR 1 FOOT FROM ANY VERTICAL SURFACE.

11. CLEAN-OUTS SHALL BE INSTALLED AS PER CPC REQUIREMENTS.

12. PROTECT ROOF RECEPTORS FROM RAIN WATER BY ELEVATING THE RIM 2 INCHES ABOVE THE ROOF SURFACE.

13. COORDINATE LOCATIONS OF ALL ROOF WALL OPENINGS WITH ALL RELEVANT TRADES AND PROVIDE WATERTIGHT FLASHINGS WHEREVER PENETRATIONS OCCUR. EXACT LOCATIONS AND SIZES MAY BE DEPENDENT UPON EQUIPMENT SELECTIONS; COORDINATE SIZES AND LOCATIONS OF ALL OPENINGS WITH APPROPRIATE EQUIPMENT REQUIREMENTS.

14. PENETRATIONS: PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE AN APPROVED MATERIAL SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO TEST TEMPERATURE PRESCRIBED IN THE C.B.C. FOR SPECIFIC WALL OR PARTITION TYPE.

15. PROVIDE FELT WITH METAL BACKING VIBRATION ISOLATION SLEEVES OR PADS AT ALL PIPE HANGERS OR SUPPORTS AND ALL POINTS WHERE PIPING COMES IN CONTACT WITH ANY PORTION OF THE STRUCTURE.

16. ROUGH-IN AND CONNECT EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE WORK.

17. WATER HEATING SYSTEMS AND EQUIPMENT SHALL MEET OR EXCEED ALL APPLICABLE EFFICIENCY REQUIREMENTS AS INDICATED IN THE CALIFORNIA ENERGY COMMISSION.

18. HOT WATER CIRCULATING PUMPS SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF WHEN HOT WATER IS NOT REQUIRED.

19. GAS-FIRED EQUIPMENT SHALL BE EQUIPPED WITH A PILOTLESS ELECTRONIC INTERMITTENT IGNITION SYSTEM. GAS FIRED BOILER AND GAS FIRED AC UNITS SHALL MEET ALL SQAMD LO-NOX REQUIREMENTS.

20. LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE AND WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110°F.

21. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

22. INSULATION SHALL BE PROVIDED ON ALL WATER LINES AND P-TRAPS SERVING HANDICAPPED LAVATORIES AND SINKS WITH HOT WATER SERVICE.

23. ALL ROOF OVERFLOW DRAINS SHALL SPILL BELOW SOFFIT ABOVE COVERED WALKWAY AREA WHERE POSSIBLY. DRAINS WHICH CANNOT SPILL TO SOFFIT AND ARE RUN DOWN IN EXTERIOR WALL SHALL TERMINATE MIN 9"/MAX 12" ABOVE GRADE.

24. CONTRACTOR TO COORDINATE ROOF DRAIN OUTLET INVERT ELEVATIONS WITH CIVIL STORM DRAIN PIPING STUBBED TO BUILDING, AND MAKE FINAL CONNECTION AS REQUIRED.

25. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER ROM THE DIVISION OF THE STATE ARCHITECT.

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 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component 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 plans. 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 a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the 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 have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A. 1.24, 1616A. 1.25, and 1616A. 1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on 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 system. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP):

MP ☒ MD ☒ PP ☒ – Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☐ – Option 2: Shall comply with the applicable OSHPD Pre-Approved (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 accounts for the applicable Seismic Hazard Level _2_ and Connection Level _AA_ for the project and conditions.

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APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

LICENSED ARCHITECT — MATTHEW R. TITTLE — No. C-29511 — Exp. 11-30-21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JOSEPH M. HOLLAND — No. M 27863 — Exp. 6/30/20 — MECHANICAL — STATE OF CALIFORNIA

Engineous Group, Inc.
751 N. Fair Oaks Ave., Suite 201
Pasadena, CA 91103
Phone: (626) 696-3850

DSA Submittal

03/09/2020

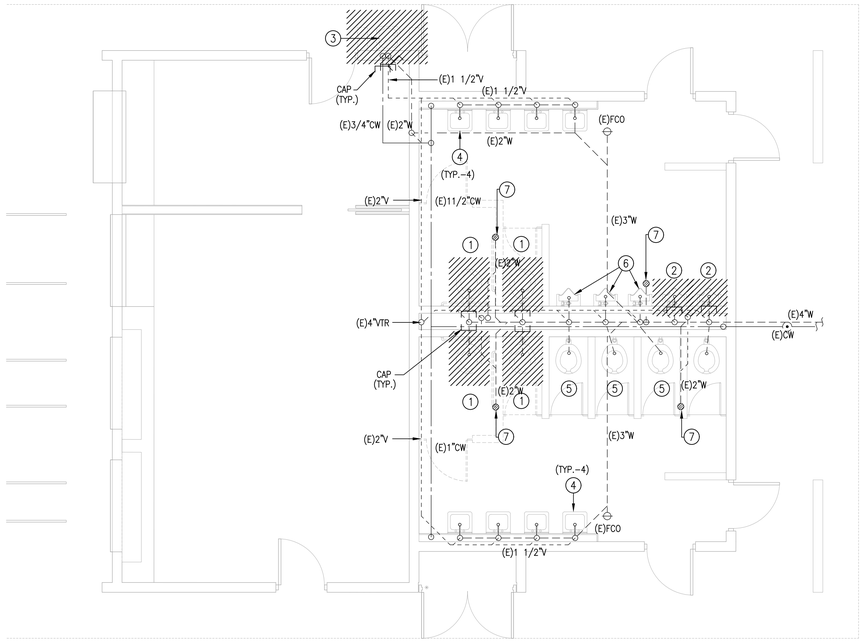
NO.	REASON	DATE

PRINCIPAL IN CHARGE
B.E.S./A.O.
PROJECT MANAGER
A.O.
DESIGN TEAM
J.H.

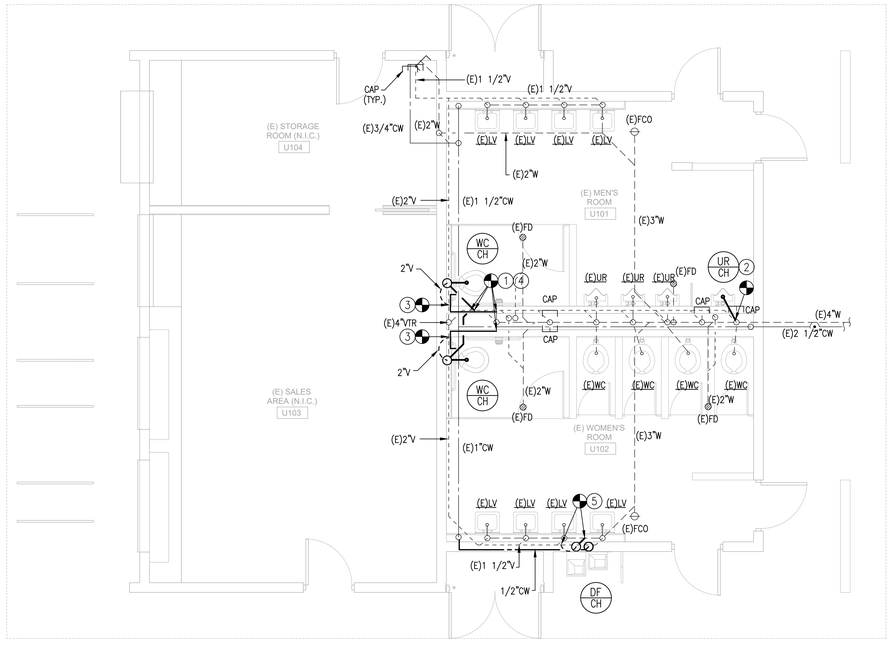
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD

PLUMBING COVER SHEET

P-001



BUULDING 'U' PLUMBING DEMO PLAN
Scale 1/4"=1' 0"



BUILDING 'U' PLUMBING FLOOR PLAN
Scale 1/4"=1' 0"

DEMOLITION KEYNOTES:

1. EXISITING WATER CLOSET TO BE REMOVED. CAP REMAINING WATER WASTE AND VENT PIPING IN WALL AND FLUSH TO FLOOR AS REQUIRED.
2. EXISITING WATER CLOSET TO BE REMOVED. CAP REMAINING WATER WASTE AND VENT PIPING IN WALL AND FLUSH TO FLOOR AS REQUIRED.
3. REMOVE EXISTING DRINKING FOUNTIAN AS INDICTAED. CAP REMAINING WATER WASTE NAS VENT PIPING IN WALL AND ABANDON. PATCH WALL AS REQUIRED. SEE ARCHITECURAL PLANS.
4. EXISTING LAVATORY TO REMAIN.
5. EXISTING WATER CLOSET TO REMAIN.
6. EXISTING URINAL TO REMAIN.
7. EXISTING FLOOR DRAIN TO REMAIN.

KEYNOTES

1. CONNECT NEW 4" WASTE PIPING FROM WC TO EXISTING BUILDING 4" WASTE PIPING. CONTRACTOR TO FIELD VERIFY EXACT POINT OF CONNECTION.
2. CONNECT NEW 2" WASTE PIPING FROM UR TO EXISTING BUILDING 4" WASTE PIPING. CONTRACTOR TO FIELD VERIFY EXACT POINT OF CONNECTION.
3. CONNECT NEW 2" VENT PIPING FROM WC TO EXISTING BUILDING 2" VENT PIPING. CONTRACTOR TO FIELD VERIFY EXACT POINT OF CONNECTION.
4. EXTEND 1 1/4" CW PIPING FROM EXISTING WATER PIPING IN CHASE AND CONNECT TO WATER CLOSET.
5. CONNECT NEW 2"WASTE AND 1 1/2" VENT PIPING FROM NEW DRINNKING FOUNTAIN TO EXISTING WASTE AND VENT PIPING IN WALL. EXTEND 1/2" COLD WATER AND CONNECT TO EXISTING WATER PIPING IN WALL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

www.littleonline.com

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

LICENSED ARCHITECT JAY R. TITTLE NO. C-12951 Rev. 11-30-21 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRADLEY E. SEVERSON No. 27963 Exp. 6/30/20 MECHANICAL STATE OF CALIFORNIA

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CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD

BUILDING U PLUMBING DEMO AND FLOOR PLANS

P-101

SYMBOLS

	SWITCHES & CONTROLS		POWER		LIGHTING/CEILING
$	SWITCH, SINGLE POLE +48" *		SERVICE DISCONNECT, FUSED OR NON FUSED PER DRAWING		LIGHT, WALL MOUNTED, HEIGHT PER DRAWING, DETAILS PER FIXTURE SCHEDULE,
$D	SWITCH, DIMMER, SIZE PER LOAD OR SPECIFICATION +48" *		SERVICE DISCONNECT, MAGNETIC STARTER		LIGHT, WALL MOUNTED, HEIGHT PER DRAWING, DETAILS PER FIXTURE SCHEDULE, EMERGENCY LIGHT IF FILLED CENTER
$D0	SWITCH, DIMMER 0-10V +48" *	VFD	SERVICE DISCONNECT, VFD		LIGHT, CEILING MOUNTED, DETAILS PER FIXTURE SCHEDULE
$3	SWITCH, 3 WAY, SINGLE POLE +48" *		OUTLET, SINGLE, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, CEILING MOUNTED, DETAILS PER FIXTURE SCHEDULE EMERGENCY LIGHT IF FILLED CENTER
$4	SWITCH, 4 WAY +48" *		OUTLET, DUPLEX, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, CEILING MOUNTED, PENDANT, DETAILS PER FIXTURE SCHEDULE
$K	SWITCH, KEY +48" *		OUTLET, HALF HOT, HALF SWITCHED, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, CEILING MOUNTED, PENDANT, DETAILS PER FIXTURE SCHEDULE EMERGENCY LIGHT IF FILLED CENTER
$P	SWITCH, PILOT LIGHT, SINGLE POLE +48" *		OUTLET, DOUBLE DUPLEX, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		FLUSH MOUNTED DOWN LIGHT, DETAILS PER FIXTURE SCHEDULE
$T	SWITCH, TIMER, 2 HR. NO HOLD MANUEL TYPE UNLESS NOTED OTHERWISE +48" *		OUTLET, DOUBLE DUPLEX, HALF HOT, HALF SWITCHED, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		FLUSH MOUNTED WALL WASH/ADJUSTABLE, DETAILS PER FIXTURE SCHEDULE
V	SWITCH, VACANCY DETECTOR +48" *		OUTLET, SINGLE, 240V SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		IN-GRADE RECESSED UP-LIGHT, DETAILS PER FIXTURE SCHEDULE
W11	OCCUPANCY SENSOR SINGLE CIRCUIT WALL SWITCH +48" *		OUTLET, SINGLE, 120/240V SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		FLUSH MOUNTED DOWN LIGHT, SQUARE CAN, DETAILS PER FIXTURE SCHEDULE
W12	OCCUPANCY SENSOR DUAL CIRCUIT WALL SWITCH +48" *		OUTLET, SINGLE, 3 PHASE SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION		FLUSH MOUNTED WALL WASH/ADJUSTABLE, SQUARE CAN, DETAILS PER FIXTURE SCHEDULE
WDH	OCCUPANCY SENSOR SINGLE CIRCUIT DIMMER 120V WALL SWITCH - LIKE LUTRON +48" *		OUTLET, DUPLEX, 120V, GFCI +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, xxxxx, DETAILS PER FIXTURE SCHEDULE
WDL	OCCUPANCY SENSOR SINGLE CIRCUIT DIMMER 0-10V WALL SWITCH - LIKE LUTRON +48" *		OUTLET, DOUBLE DUPLEX, 120V, GFCI +18" * SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION		LIGHT, xxxxxx, DETAILS PER FIXTURE SCHEDULE
U	CEILING MOUNTED MOTION SENSOR, ULTRA SOUND		OUTLET, DUPLEX, 120V, FLOOR MOUNT SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, xxxxxx, DETAILS PER FIXTURE SCHEDULE
I	CEILING MOUNTED MOTION SENSOR, INFRARED		OUTLET, DOUBLE DUPLEX, 120V, FLOOR MOUNT SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, xxxxxx, DETAILS PER FIXTURE SCHEDULE
UI1	CEILING MOUNTED MOTION SENSOR, COMBINATION ULTRA SOUND / INFRARED		OUTLET, PEDOC, DUPLEX, 120V, GFCI * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		VANITY WALL LIGHT, DETAILS PER FIXTURE SCHEDULE
R	CEILING MOUNTED RELAY / POWER PACK FOR LOW VOLTAGE MOTION SENSORS, SIZE PER CIRCUIT AND SENSOR REQUIREMENTS		OUTLET, PEDOC, DOUBLE DUPLEX, 120V, GFCI * SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION		TRACK LIGHT, DETAILS PER FIXTURE SCHEDULE
RS	CEILING MOUNTED RELAY SLAVE PACK FOR LOW VOLTAGE MOTION SENSOR, SIZE PER CIRCUIT AND SENSOR REQUIREMENTS		OUTLET, PEDOC, SINGLE, 120/240V, GFCI * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS	XX	COVE LIGHT, DETAILS PER FIXTURE SCHEDULE
T	THERMOSTAT, +48" *		OUTLET, SINGLE/2-PORT USB COMBO, 120V * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, POLE-ARM, DETAILS PER FIXTURE SCHEDULE
TC	TIME CLOCK, POLES AND VOLTAGE AS NEEDED OR SPECIFIED		OUTLET, 4-PORT USB * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, POLE-CENTER, DETAILS PER FIXTURE SCHEDULE
P	EXTERIOR=PHOTO CELL, SIZE AND VOLTAGE PER CIRCUIT OR AS SPECIFIED INTERIOR=0-10V PHOTO SENSOR RE. DAYLIGHT CONTROLLER		OUTLET, DUPLEX EM CIRCUIT, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS		LIGHT, BOLLARD SQUARE, DETAILS PER FIXTURE SCHEDULE
		J	JUNCTION BOX		LIGHT, BOLLARD ROUND, DETAILS PER FIXTURE SCHEDULE
					LANDSCAPE UP OR DOWN LIGHT, DETAILS PER FIXTURE SCHEDULE
			COMMUNICATIONS/CONTROLS		EXIT SIGN, DARK SPOT INDICATES DIRECTION THE LIGHTED FACE IS TO BE VISIBLE FROM, ARROWS INDICATE DIRECTION OF ARROWS ON THE SIGN FACE
	NOTES & MISC.	T	THERMOSTAT, +48" *		EXIT SIGN, DARK SPOTS INDICATE DIRECTION THE LIGHTED FACES ARE TO BE VISIBLE FROM, ARROWS INDICATE DIRECTION OF ARROWS ON THE SIGN FACE
?	INDICATES PLAN KEYED NOTE	H	HUMIDITY SENSOR		COMBINATION EXIT SIGN, EMERGENCY LIGHT WITH BATTERY BACK UP
?	INDICATES PLAN KEYED NOTE	S	SPEAKER AND BOX PROVIDED BY OTHERS, BOX PIPED AND INSTALLED BY E. C.		EMERGENCY LIGHT, BATTERY POWERED
?	INDICATES PLAN KEYED NOTE		TELEPHONE OUTLET, +18" *		STEP/NICHE LIGHT, DETAILS PER FIXTURE SCHEDULE
?	INDICATES REVISION		COMPUTOR OUTLET, +18" *		LIGHT, WALL SMALL UP/DN-LIGHT, HEIGHT PER DRAWING, DETAILS PER FIXTURE SCHEDULE
?	INDICATES FIXTURE TYPE		CABLE OUTLET, +18" *		ALL LIGHT FIXTURES ABOVE ARE EMERGENCY LIGHT IF FILLED CENTER
FC ?	INDICATES MECHANICAL FIXTURE TYPE		TELEPHONE OUTLET, FLOOR		FIRE
E0.1 1	INDICATES DETAIL		COMPUTOR OUTLET, FLOOR	SD	FIRE DUCT SMOKE DETECTOR
A	PANEL, MOUNTING ACCORDING TO PLACEMENT ON PLANS		CABLE OUTLET, FLOOR	FD	FIRE DUCT DAMPENER
Z	PANEL, CONTROL-LRG, MOUNTING ACCORDING TO PLACEMENT ON PLANS		COMBINATION TELEPHONE & COMPUTER OUTLET, +18" *		FIRE MINI STROBE
1	PANEL, CONTROL-SML, MOUNTING ACCORDING TO PLACEMENT ON PLANS	TV	TELEVISION OUTLET, +18" *	C	FIRE ALARM CHIME
	VALVE, ALARM CONTACT OR SOLENOID OPERATOR DEPENDING ON APPLICATION	B	PUSH BUTTON	S	FIRE STROBE & HORN
	EYS FITTING. SIZE PER CONDUIT, LOCATE PER N.E.C.	B	DOOR BELL CHIME	F	FIRE ALARM PULL BOX
	SMOKE DETECTOR, CEILING OR WALL MOUNTED PER PLANS	T	DOOR BELL TRANSFORMER		WIRE TYPES
SCD	COMBINATION SMOKE DETECTOR AND CO SENSOR	NC	NURSES CALL LIGHT		HOME RUN IN CABLE OR CONDUIT (PER SPECIS AND CODE), CIRCUIT AND CIRCUIT & CONDUCTOR SIZE AS NOTED, CONDUIT PER NEC OR AS NOTED
	EXHAUST FAN	N	NURSES CALL SWITCH WITH PULL CORD		EXISTING WIRING TO REMAIN
	CEILING FAN	E	ELECTRIC DOOR STRIKE RELEASE		EXISTING WIRING TO BE REMOVED
	MOTOR	AP	WIRELESS ACCESS POINT		NEW ABOVE FLOOR WIRING
PS	POWER SUPPLY	IC	INTERCOM		NEW UNDER FLOOR WIRING
PC 1	POWER CENTER	KEY	KEY PAD		STUB UP TO OR DOWN FROM NEXT FLOOR LEVEL
CL	CURRENT LIMITER				STUB DOWN TO OR UP FROM THE NEXT FLOOR LEVEL

* STANDARD HEIGHT TO MEET STATE ACCESSIBILITY REQUIREMENTS AND PROVISIONS OF THE ADA IS 36" - 48" AFF FOR SWITCHES AND THERMOSTATS, 15" - 48" FOR OUTLETS. HEIGHT SHOWN IN SYMBOL LIST IS PREFERRED HEIGHT TO BE CHANGED ONLY IF PHYSICAL REQUIREMENTS OF THE STRUCTURE OR CASEWORK REQUIRE. CHANGES MUST MEET STANDARDS IF OUTLET OR SWITCH IS FOR GENERAL USAGE. OUTLET TO BE MOUNTED AT HEIGHT SHOWN ON PLAN WHEN SPECIAL PURPOSE.

SYMBOLS | SCALE: NONE

GENERAL

1. All work is to be performed per the 2016 issue of the California Electrical Code and the 2016 California Energy Code as accepted by the City of OXNARD and all other applicable national, state and local codes and laws pertaining to electrical work.
2. All work in hazardous locations shall comply with CEC Art. 500 through 516 as applicable.
3. Nothing in these notes shall be construed as circumventing any more stringent specification or requirement of the contract documents.
4. Electrical Contractor shall visit the job site prior to bidding work and include in his bid the necessary costs required to complete this project according to the intent of the drawings.
5. Any discrepancies between site conditions and drawings shall be brought to the attention of the project coordinator or Architect prior to bid if possible.
6. Electrical work under this contract shall include all labor, materials and equipment necessary to complete the installation covered under the contract including control conduit and wiring as documented or inferred in the mechanical drawings.
7. All material and equipment furnished and or installed under this contract shall be new, free from defects, and shall be guaranteed for a period of one year from the date of final acceptance by owner or his representative. Should any problems develop during this warranty period due to faulty workmanship, material defects or equipment defects or failure, the Electrical Contractor shall correct the problem and repair or replace equipment or material without cost to the owners. All work shall be executed in a orkmanlike manner and shall be neat in appearance as well as functional when completed.
8. Unless noted otherwise or coordinated with the General Contractor, the Electrical Contractor shall be responsible for all demolition, cutting, and patching relating to electrical work.
9. State handicap requirements are to be met per standards listed in 'SYMBOL LIST'.
10. Cut sheets shall be provided by Electrical Contractor for all equipment provided within contract scope of work.

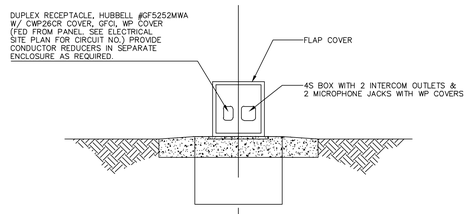
MATERIAL and INSTALLATION

1. All electrical materials and equipment are to be Underwriter's laboratory listed or listed by an equivalent nationally recognized testing laboratory accepted by the City of OXNARD. All materials shall be approved for the intended purpose and used for such purpose.
2. All 600-volt insulated wire in conduits shall be copper type THHN/THWN-2 unless noted otherwise.
3. All conductors size AWG #12 and smaller shall be solid, all conductors size #10 and larger shall be stranded.
4. All junction boxes shall be marked (in ink) with the panel number, circuit numbers, and system voltage contain within, ('Magic Markers' are acceptable). i.e. 'LA'-1,3,5 277/480V or 'RA'-2,4,6 120/208V etc.
5. When conduit must cross traffic areas, the conduit shall cross perpendicular to the normal traffic pattern.
6. All ballasts are to be CEC listed.
7. All outdoor lighting fixtures are to be listed for wet or damp location depending on type of exposure.
8. All devices shall be grounded by means of a separate grounding conductor and either a wire bond from the device strap to the box or a self-grounding screw.
9. Each multiwire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. (CEC 210.4(B))
10. The ungrounded and grounded conductors of each multiwire branch circuit shall be grouped by wire ties or similar means in at least one location within the panelboard or other point of origination. (CEC 210.4(D))
11. All new overcurrent devices installed in existing panels / switchboards shall match or exceed the make, model and interrupting capacity of the existing overcurrent devices.

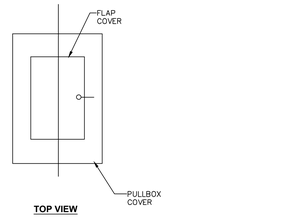
COMPLETION

1. Upon completion of work, Electrical Contractor shall insure the installation to be free from short circuits, phase grounds and neutral grounds.
2. All feeders shall have insulation tested prior to energization.
3. All panels, transformers, distribution boards, switches, etc. shall be labeled per Single Line Diagram using plastic plates with 3/8" high white letters on black backgrounds. Label shall include item name and voltage present. Transformer label shall include both primary and secondary voltages. Label shall be permanently attached using at least (2) round head stainless steel machine screws with minimum thread size 8-32.
4. Electrical Contractor shall furnish as-built drawings to Architect upon completion of work.
5. Electrical Contractor shall be available for night inspection and approval of completed work.
6. Prior to final energization, neutral feed shall be disconnected from the panel and bus with all load neutrals connected shall be tested in the presence of the electrical engineer for faults to ground.
7. All circuit breaker, neutral and ground lug connections shall be torqued per manufacturer's specifications in the presence of the electrical inspector.
8. The issuance of a permit shall not prevent the Building Official from requiring the correction of errors on these plans or from preventing any violation of the codes adopted by the city, relevant laws, ordinances, rules and/or regulations.

NOTES | SCALE: NONE



ELEVATION



TOP VIEW

GENERAL NOTES

1. THE TRACK SURFACE MATERIAL SHALL COVER PULLBOX COVER AND LID.
2. ALL PULLBOXES NEAR TYRACK SHALL BELOCATED ON EDGE OF TRACK.

POWER/INTERCOM/MIC OUTLET TERMINAL DETAIL | SCALE: NONE

GENERAL NOTES

1. THE TRACK SURFACE MATERIAL SHALL COVER PULLBOX COVER AND LID.
2. ALL PULLBOXES NEAR TRACK SHALL BE LOCATED ON EDGE OF TRACK.

PULLBOX MOUNTING DETAIL | SCALE: NONE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

LICENSED ARCHITECT
MATTHEW ZINN
NO. C-29820
EXP. 11-30-21
STATE OF CALIFORNIA

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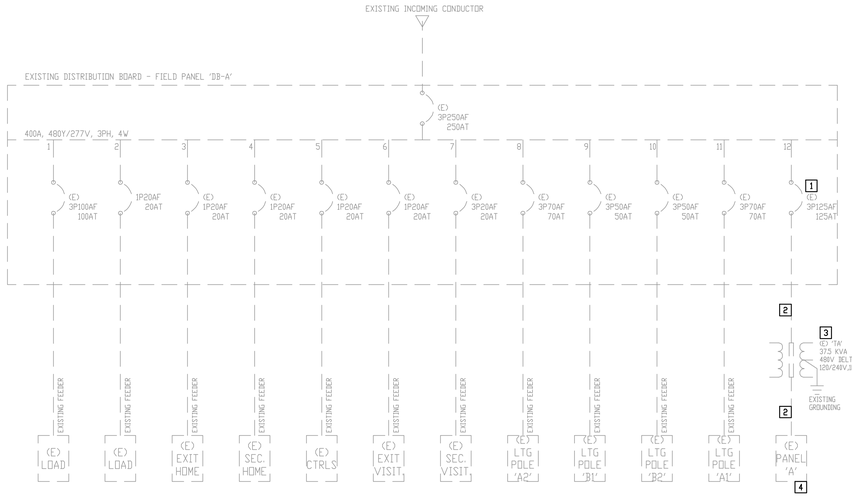
J.H.

ELECTRICAL SYMBOLS, NOTES, & DETAILS

E-000



DEMO SINGLE LINE DIAGRAM | SCALE: NONE | 1

PANELBOARD: A (NEW)

BUS AMPS: 125A
MAIN SIZE/TYPE: 125A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATING: 10000 FULLY RATED
SERVES: FIELD AREA
MOUNTING: SURFACE
LOCATION: FIELD AREA

NEMA 3R

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1						20	1	1	20		900			***EXISTING LOAD***	2
3	***EXISTING LOAD***		900			20	1	1	20			900		***EXISTING LOAD***	4
5	***EXISTING LOAD***			1,000		20	2	1	20						6
7		1,000						1	20						8
9	SCORE BORAD		1,500			20	2	2	100			9,600		***EXISTING LOAD***	10
11				1,500									9,600		12
13	GATEWAY POWER	1,200				20	1	1	20		1,200			FIELD JUNCTION BOX	14
15	GATEWAY POWER		1,200			20	1	1	20			1,200		FIELD JUNCTION BOX	16
17							1	1	20				1,200	FIELD JUNCTION BOX	18
19							1	1	20		1,200			FIELD JUNCTION BOX	20
21							1	1	20			1,200		FIELD JUNCTION BOX	22
23							1	1	20				1,200	FIELD JUNCTION BOX	24
25							1	1	20		1,200			FIELD JUNCTION BOX	26
27							1	1	20			1,200		FIELD JUNCTION BOX	28
29							1	1							30
31							1	1							32
33							1	1							34
35							1	1							36
37							1	1							38
39							1	1							40
41							1	1							42
	SUBTOTAL	2,200	3,600	2,500							4,500	14,100	12,000	SUBTOTAL	

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF
TOTAL PHASE A - VA	6,700	COOLING		1.00	REFRIGERATION		1.00
AMPS	56	HEATING		0	SIGN/DISPLAY		1.25
TOTAL PHASE B - VA	17,700	LIGHTING		1.25	KITCHEN		1.00
AMPS	148	RECEPTACLES		1.0/.5	EXISTING		1.00
TOTAL PHASE C - VA	14,500	MOTORS		1.00	LARGE MOTOR		1.25
AMPS	121	SUPP HEAT		1.00	SHOW WINDOW		1.25
TOTAL PNLBD - VA	38,900	MISC EQUIP	38,900	1.00	LTG TRACK		1.00
AMPS	108						

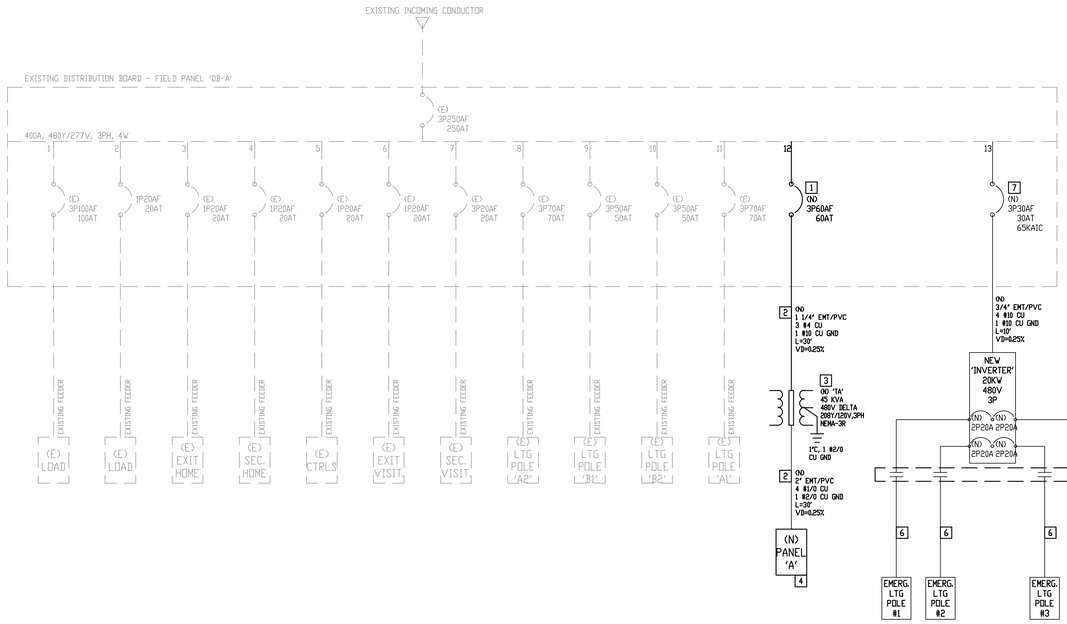
TOTAL DEMAND
38,900 VA
108 A

PANELBOARD NOTES

PANEL SCHEDULE | SCALE: NONE | 4

1. EXISTING 125A, 3P BREAKER TO BE REMOVED, DELIVERED TO DISTRICT AND REPLACED WITH NEW 60A, 3P BREAKER. NEW BREAKER SHALL BE SQUARE D AND MATCH AIC RATING WITH THE EXISTING BREAKERS TO BE FULLY RATED.
2. EXISTING FEEDER TO BE REMOVED AND REPLACED WITH THE PROPOSED FEEDERS, CONDUCTORS AND CONDUITS.
3. EXISTING 37.5KVA TRANSFORMER TO BE REMOVED, DELIVERED TO DISTRICT AND REPLACED WITH NEW 45KVA TRANSFORMER WITH PROPOSED SPECIFICATIONS.
4. EXISTING SINGLE PHASE PANEL TO BE REMOVED, DELIVERED TO DISTRICT AND REPLACED WITH NEW 125A, 208Y/120V, 3PH, 4W PANEL. EXISTING LOADS TO BE RECONNECTED TO THE NEW PANEL.
5. INTERCONNECTION BETWEEN MUSCO LIGHTING CONTROLLER.
6. NEW 2#10+1#10GND TO EMERGENCY LIGHTS. SAME CONDUITS FOR NORMAL LIGHTS COULD BE USED. REFER TO SITE LIGHTING PLAN A#03-120008 FOR CONDUIT ROUTE. CONTRACTOR SHALL VERIFY AT SITE AND COORDINATE WITH MUSCO LIGHTING PRIOR BID/CONSTRUCTION.
7. NEW BREAKER SHALL MATCH WITH AIC RATING OF THE EXISTING BREAKER. CONTRACTOR SHALL VERIFY AT SITE PRIOR BID/CONSTRUCTION.

KEYNOTES | SCALE: NONE | 7



PROPOSED SINGLE LINE DIAGRAM | SCALE: NONE | 2

STADIUM/BLEACHERS EMERGENCY LIGHTING CALCULATION

FIXTURE TYPE	POWER(W)	QUANTITY	TOTAL POWER
TLC-LED-400	400W	6	2.4KW
TOTAL CONNECTED LOAD X 1.25%			3KW
SELECTED NEW INVERTER RATING @ 277/480V, 3PH, 4W			20KW

INVERTER CALCULATION | SCALE: NONE | 5

(E) HOME BLEACHERS
A# 55981

ENLARGED ELECTRICAL ARRANGEMENT LAYOUT | SCALE: 1/8"=1'-0" | 3

KEYNOTES GENERALLY CORRESPOND TO SPECIFICATION SECTIONS BY MEANS OF THE FIVE-DIGIT NUMBER IDENTIFYING THE SPECIFICATION SECTION AS A MATTER OF REFERENCE AND CONVENIENCE. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK INDICATED HEREIN PURSUANT TO THE GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT, REGARDLESS OF WHETHER OR NOT THE KEYNOTE(S) SPECIFICALLY CORRESPOND TO ANY SPECIFICATION DIVISION PROVIDED IN THE TECHNICAL SPECIFICATIONS.

1. ALL EQUIPMENT TO BE SQUARE D OR EQUAL BY SIEMENS, CUTLER-HAMMER, G.E., OR RSC-SIERRA.
2. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SPECIFIED AND APPROPRIATE UL LISTING BASED ON THE ENVIRONMENT IN WHICH THE EQUIPMENT IS TO BE MOUNTED.
3. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AND BRACED FOR REQUIRED FAULT CURRENT RATINGS BASED ON THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM. SHOP DRAWINGS TO INCLUDE FAULT CURRENT RATINGS FOR ALL ELECTRICAL EQUIPMENT. NO SERIES RATING SHALL BE ALLOWED.
4. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREES CELSIUS CONDUCTORS.
5. ALL SERVICE ENTRANCE EQUIPMENT/DISTRIBUTION BOARDS/SWITCHBOARDS RATED AT 600A OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER-CURRENT PROTECTIVE DEVICE AND BUSSING RATED AT 100% OPERATION.
6. ALL SWITCH/DISTRIBUTION BOARDS SHALL BE PROVIDED WITH:
   A. COPPER BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND HAVE PROVISIONS FOR FUTURE EXTENSIONS WERE APPLICABLE. ALL BUSSING SHALL HAVE A MINIMUM WITHSTAND RATING EQUAL TO AVAILABLE FAULT CURRENT INDICATED ON THE AIC CALCULATION. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD ASSEMBLIES. PROVIDE 100% NEUTRAL BUSSING MINIMUM – UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUSS, AND WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS – UNLESS OTHERWISE NOTED OR REQUIRED.
   B. LUGS SHALL BE SUITABLE FOR USE WITH BOTH COPPER AND ALUMINUM CONDUCTORS AND 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   C. PERMANENT PLACARDS(S) MARKED PER THE SPECIFICATION AND PER NEC (CEC – WHERE ADOPTED SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56,700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES, ETC. AS APPLICABLE.
7. CONTRACTOR SHALL PROVIDE SWITCHBOARD SHOP DRAWINGS TO SERVING UTILITY COMPANY PRIOR TO FABRICATION OR EQUIPMENT. CONTRACTOR SHALL SECURE CONFIRMATION PROPOSED SWITCHBOARD COMPLIES WITH ELECTRICAL UTILITY COMPANY REGULATIONS.
8. ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE ACCOMPANIED BY A 1/4" = 1'-0" SCALED DRAWING WHICH REFERENCES ALL ELECTRICAL EQUIPMENT ROOMS AND EQUIPMENT. DRAWING SHALL CLEARLY IDENTIFY ADEQUATE SPACE IS PROVIDED IN ELECTRICAL ROOMS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WHILE MAINTAINING ALL REQUIRED CODE CLEARANCES. ALL SUBMITTALS NOT ACCOMPANIED BY SCALED DRAWING WILL BE REJECTED AS INCOMPLETE.
9. EC SHALL CONDUCT, WITH ASSISTANCE OF SWITCHGEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY TO DETERMINE APPROPRIATE LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E AND IEEE STD 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER- CURRENT PROTECTIVE DEVICES SHOWN ON SINGLE-LINE DIAGRAM. ADDITIONALLY:
   A. STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE-LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM STUDY WITH THE AID OF A COMPUTER PROGRAM, SKM CAPTOR, OR EQUAL. STUDY SHALL IDENTIFY SELECTIVE COORDINATION SUCH THAT DEVICE CLOSEST TO FAULT WILL TRIP FIRST. GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS 30A AND LESS.
   B. EC SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES AND TO INCLUDE GROUND FAULT SETTINGS NECESSARY TO ACHIEVE SYSTEM COORDINATION. CONTRACTOR SHALL FIELD ADJUST DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE.
   C. DURING THE CONSTRUCTION PHASE OF THE PROJECT ALL GROUND FAULT RELAYS SHALL BE SET AT SHORTEST AVAILABLE TIME DELAY.
   D. RESULT OF COORDINATION STUDY SHALL BE SUBMITTED AS PART OF OVERALL SWITCHGEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION, AND COMMENTARY REGARDING SAME.
   E. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (CEC – WHERE ADOPTED) 230.95(C). GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN PRESENCE OF LOCAL AHJ. VERIFICATION OF DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY SAME INDEPENDENT TESTING AGENCY. GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO ENGINEER OF RECORD.
   F. PERFORM ARC FLASH ANALYSIS TO DETERMINE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). ABOVE IN FORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ON A NEC (CEC WHERE ADOPTED) COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
10. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLE 250.
11. FEEDER SPECIFICATIONS ARE BASED ON USE OF COPPER CONDUCTORS AND SHALL BE PROVIDED WITH A CODE SIZED COPPER GROUNDING CONDUCTOR.
12. ALL MAIN SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, ETC SHALL BE PROVIDED WITH A COPPER BUSS RATED AT SPECIFIED AMPACITY. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL ALIGN IN FRONT. ALL PANELBOARDS SHALL BE PROVIDED WITH BOLT-ON BREAKERS, DEADFRONT COVERS WITH LOCKABLE DOORS, FACTORY INSTALLED MAIN CIRCUIT BREAKERS (IF APPLICABLE), AND PANEL DIRECTORY PER THESE DOCUMENTS.
13. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED WHITE LETTERS REFERENCING FOLLOWING INFORMATION:

    LINE 1 – 'EQUIPMENT NAME'
    LINE 2– 'FED FROM ...'
    LINE 3– 'VOLTAGE, AMPACITY, PHASE'
    LINE 4– 'DATE INSTALLED'

    NAMEPLATES SHALL BE SIZED BASED ON FOLLOWING:

    SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:

    * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC:

    * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    NAMEPLATE COLORS SHALL BE AS FOLLOWS:

    BLACK = NORMAL POWER
    RED = LIFE SAFETY/EMERGENCY POWER
    BLUE = STANDBY POWER
    GREEN = INVERTER POWER

    ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
14. ELECTRICAL DESIGN COMPUTES VOLTAGE DROP BASED ON FEEDER LENGTHS REFERENCED ON SINGLE-LINE DIAGRAM. EC TO NOTIFY ENGINEER OF RECORD IN EVENT FIELD CONDITIONS CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH.
15. ANY FLOOR-STANDING ELECTRICAL EQUIPMENT (I.E. INVERTERS, DISTRIBUTION BOARDS, SWITCHBOARDS, ATS SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS ETC.) ARE TO BE MOUNTED ON A MINIMUM 4" HIGH HOUSEKEEPING PAD WHICH EXTENDS 4" BEYOND EQUIPMENT IN ALL DIRECTIONS.
16. ALL MOTOR RELATED CIRCUITS ARE TO BE PROVIDED WITH PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER-VOLTAGE.
17. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC..
18. ALL FEEDER DISTANCES REFERENCED ON DRAWINGS ARE FOR DESIGN PURPOSES ONLY. LENGTHS AS INDICATED ARE NOT TO BE UTILIZED IN MATERIAL TAKE-OFFS.

SINGLE LINE DIAGRAM NOTES | SCALE: NONE | 6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

LICENSED ARCHITECT – STATE OF CALIFORNIA – NO. C-28857 – REG. 11-30-21

REGISTERED PROFESSIONAL ENGINEER – NATIN OSNIAN – NO. E-21455 – REG. 12-31-2020 – ELECTRICAL – STATE OF CALIFORNIA

Engineous Group, Inc.
751 N. Fair Oaks Ave., Suite 201
Pasadena, CA 91103
Phone: (626) 696-3850

DSA Submittal

03/09/2020

NO.	REASON	DATE

PRINCIPAL IN CHARGE
B.E.S./A.O.

PROJECT MANAGER
A.O.

DESIGN TEAM
J.H.

SINGLE LINE DIAGRAM, ELECTRICAL LAYOUT, AND PANEL SCHEDULES

E-001

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.		
Project Name: Channel Islands HS	Report Page:	Page 1 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

A. GENERAL INFORMATION

01	Project Location (city)	Camarillo	04	Total Illuminated Hardscape Area (ft²)	6,096
02	Climate Zone	6			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Developed Parkland ☑ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02
☑ New Lighting System	Must Comply with Allowances from §140.7.
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L										Compliance Results		
01		02		03		04		05	06	07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+ Per Specific Area §140.7(d)2 OR	Existing Power §141.0(b)2L	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)	(See Table M) OR	(See Table N)				(See Table F)	
965.44	+		+		+		OR		=	965.44	≥	960	**COMPLIES**
Cutoff Compliance (See Table G for Details)												**Not Applicable**	
Controls Compliance (See Table H for Details)												**COMPLIES**	

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Channel Islands HS	Report Page:	Page 2 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Luminaire Status[2]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 150W §130.2(b)[3]	Field Inspector Pass	Fail
Type LT-C	32w. Recessed Ceiling MTD. LED Ligh	32	Mfr. Spec[1]	30	New	☐	960		☐	☐
						Total Designed Watts:	**960**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Channel Islands HS	Report Page:	Page 3 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

01	02	03	04	05	06	07	08	
Area Description	Motion Sensor: Incandescent>100W §130.2(a)	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Sales Frontage §130.2(c)4	Façade, Ornament, Outdoor Dining §130.2(c)5	Field Inspector Pass	Fail
Mandatory Controls								
01	02	03	04	05	06	07	08	
Area Description	Motion Sensor: Incandescent>100W §130.2(a)	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Sales Frontage §130.2(c)4	Façade, Ornament, Outdoor Dining §130.2(c)5	Field Inspector Pass	Fail
Exterior Lighting	NA: No Incand>100W	Astronomical Timer	Yes	Yes	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01						
	"Use it or lose it" Allowance (Watts)					
General Hardscape Allowance	☐ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area		
☑	Table I (below)	Table J	Table K	Table L	Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Gateway #1 Perimiter	2,032	0.04	81.28	192	0.35	67.2	148.48
Gateway #2 Perimiter	2,032	0.04	81.28	192	0.35	67.2	148.48
Gateway #3 Perimiter	2,032	0.04	81.28	192	0.35	67.2	148.48
						Initial Wattage Allowance for Entire Site (Watts):	**520**
						Total General Hardscape Allowance (Watts):	**965.44**

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Channel Islands HS	Report Page:	Page 4 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	◯	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	◯	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Channel Islands HS	Report Page:	Page 5 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	◯	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Channel Islands HS	Report Page:	Page 6 of 6
Project Address: 1400 Raiders Way, Oxnard, CA 93033	Date Prepared:	9/11/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Artin Oshian	Documentation Author Signature:	
Company:	Engineous Group Inc	Signature Date:	2019-09-11
Address:	751 N. Fair Oaks Ave. Suite 201	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Pasadena, CA 91103	Phone:	(626) 969-3850

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:	Artin Oshian	Responsible Designer Signature:	
Company :	Engineous Group Inc	Date Signed:	2019-09-11
Address:	751 N Fair Oaks Ave, Suite 200	License:	21460 exp. 3/31/20
City/State/Zip:	Pasadena, CA 91103-3069	Phone:	(626) 969-3850

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
OXNARD, CA. 93033

LICENSED ARCHITECT — TAY R. TITTLE — NO. C-29307 — EXP. 11.30.21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — ARTIN N OSHTAN — NO. E-21460 — EXP. 3-31-2020 — ELECTRICAL — STATE OF CALIFORNIA

Engineous Group, Inc.
751 N. Fair Oaks Ave., Suite 201
Pasadena, CA 91103
Phone: (626) 696-3850

DSA Submittal

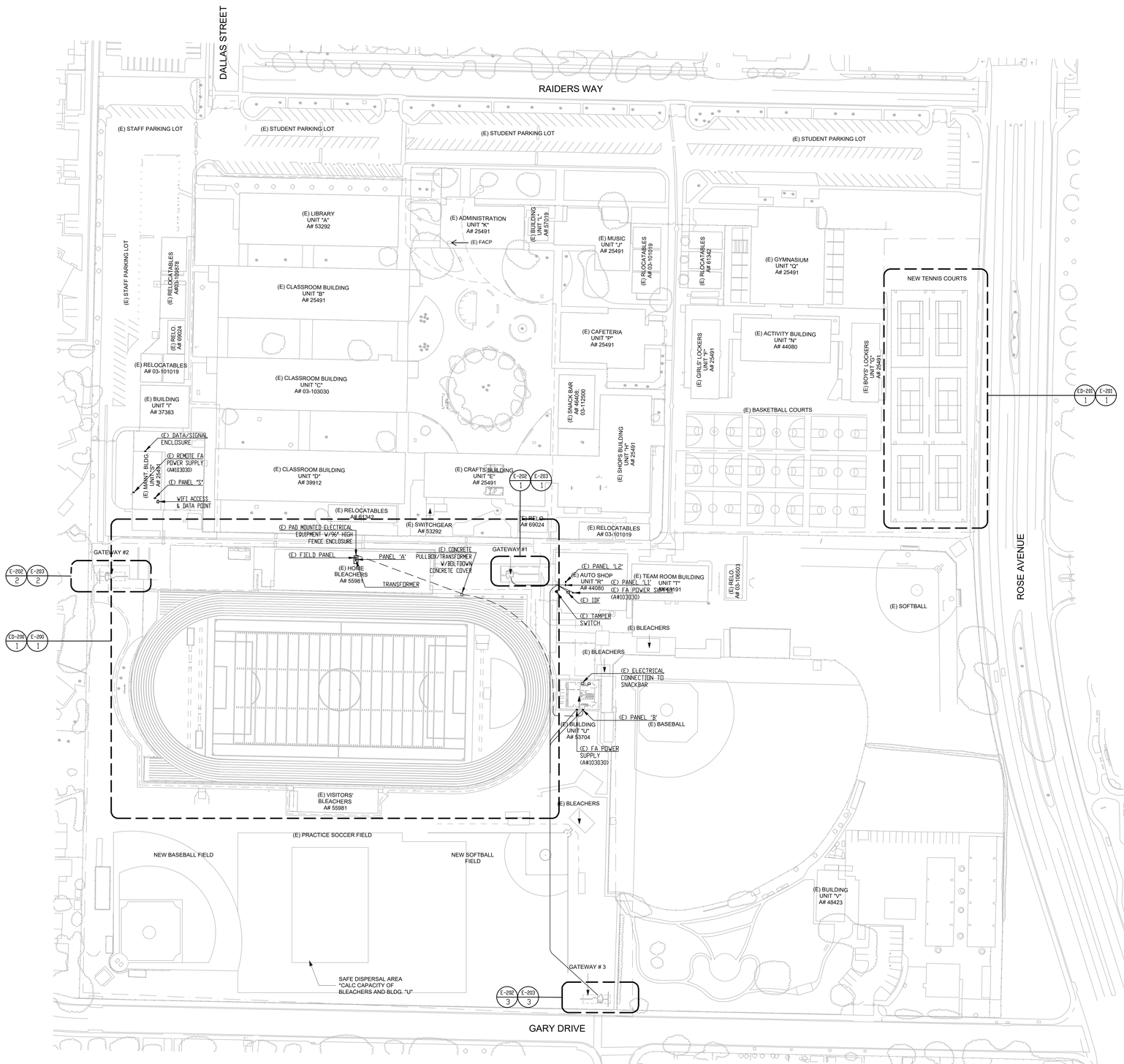
03/09/2020

NO.	REASON	DATE

PRINCIPAL IN CHARGE
B.E.S./A.O.
PROJECT MANAGER
A.O.
DESIGN TEAM
J.H.

TITLE 24
EXTERIOR LIGHTING

E-002



OVERALL ELECTRICAL SITE PLAN | SCALE: 1/64"=1'-0" | 1

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1400 RAIDERS WAY,
OXNARD, CA. 93033

LICENSED ARCHITECT
JAY R. TITLE
NO. 01-29-56
SEP. 11-30-21
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ARTIN OSHIAN
NO. E-21460
EXP. 3-31-2020
ELECTRICAL
STATE OF CALIFORNIA

Engineous Group, Inc.
751 N. Fair Oaks Ave., Suite 201
Pasadena, CA 91103
Phone: (626) 696-3850

DSA Submittal

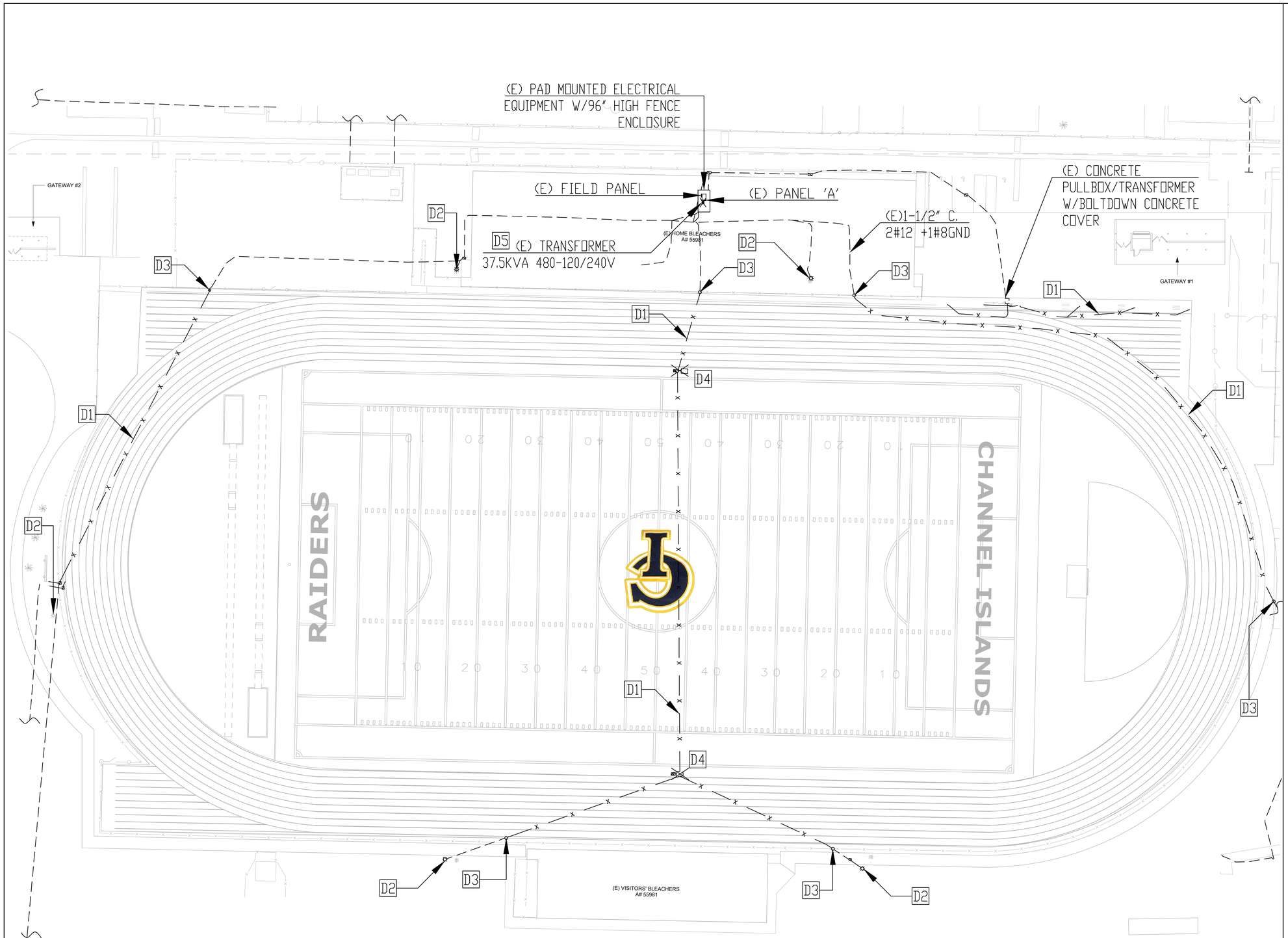
03/09/2020

NO.	REASON	DATE

PRINCIPAL IN CHARGE
B.E.S./A.O.
PROJECT MANAGER
A.O.
DESIGN TEAM
J.H.

OVERALL ELECTRICAL SITE PLAN

E-100



ENLARGED ELECTRICAL DEMO SITE PLAN - TRACK & FIELD | SCALE: 1"-20'-0" | 1

DEMOLITION GENERAL NOTES

1 EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORDS AND SITE INVESTIGATION AS LIMITED BY STRUCTURAL CONDITIONS.

2 ANY CONDUITS AND EQUIPMENT STILL REQUIRED TO BE IN USE FOR THE BUILDING OPERATION SHALL BE REPAIRED AS NEEDED PRIOR TO BEGINNING NEW WORK.

3 ANY LIVE CONDUITS OR SERVICES SHALL BE DE-ENERGISED AND TERMINATED OR REROUTED PRIOR TO BEGINNING OF NEW WORK.

4 ANY WORK THAT REQUIRES ANY ELECTRICAL, LOW VOLTAGE, MECHANICAL, COMMUNICATION OR FIRE ALARM SERVICES TO BE SHUT OFF TO ANY AREA OR SHALL BE COORDINATED WITH THE SCHOOL DISTRICT AND SCHEDULED FOR NON SCHOOL HOURS.

DEMOLITION PLAN KEYED NOTES (NOT ALL MAY APPLY)

D1 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION AND SIZING OF EXISTING JUNCTION BOXES, CONDUITS, AND CONDUCTORS, PRIOR REMOVING AND DEMOLISHING FROM EXISTING AREA.

D2 EXISTING LIGHT POLE, STADIUM LIGHT FIXTURES AND SPEAKERS TO BE REMOVED, CAP ALL THE EXISTING WIRES AND CONNECTIONS FOR THE NEW RETROFITTED FIXTURES AND SPEAKERS. CONTRACTOR SHALL DELIVER REMOVED ITEMS TO DISTRICT.

D3 DEMOLISH EXISTING CONDUIT AND CONDUCTOR AND STUB OUT FOR NEW WORK.

D4 EXISTING PULL BOXES TO BE REMOVED.

D5 EXISTING TRANSFORMER TO BE REMOVED, DELIVERED TO DISTRICT AND REPLACED WITH THE PROPOSED TRANSFORMER.

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APP. 03-120287 INC:
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DATE: 03/09/2020

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OXNARD UNION HIGH SCHOOL DISTRICT

CHANNEL ISLANDS HIGH SCHOOL
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DSA Submittal

03/09/2020

NO.	REASON	DATE

PRINCIPAL IN CHARGE
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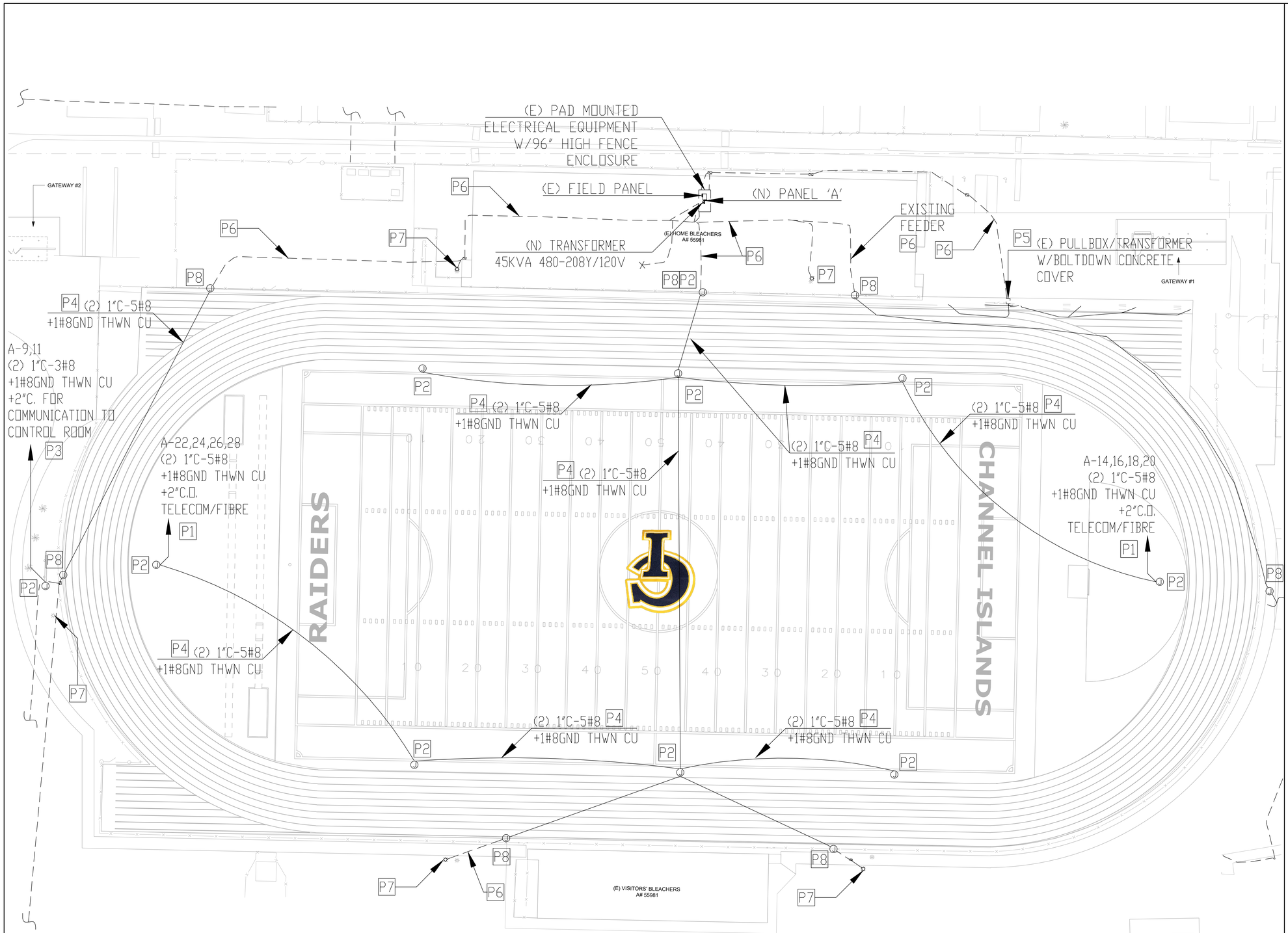
PROJECT MANAGER
A.O.
DESIGN TEAM
J.H.

TRACK & FIELD
ELECTRICAL SITE PLAN

ED-200



POWER GENERAL NOTES

1. ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS. THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATION FROM NEAT WORKMANSHIP.
2. COMBINING OF HOMERUNS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
3. CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
5. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)

P1 (2) 1"C. 5#8+1#8GND THWN CU +2" CONDUIT FOR TELELCOM/FIBER USE. CONDUITS SHALL BE BURIED 24" BELOW GRADE ENCASED IN CONCRETE. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND CONDUITS TO BE USED OR INTERCEPTED TO CLOSEST POWER PANEL, IF POSSIBLE, PRIOR BID/CONSTRUCTION.

P2 NEW JUNCTION BOXES (24"X36") FOR POWER/TV/DATA/PA TO BE INSTALLED BELOW GRADE OUTDOOR RATED WITH RUBBERIZED TRACK SURFACE MATCHING EXISTING TYPE AND COLOR OF THE TRACK. CONTRACTOR SHALL VERIFY DISTRICT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

P3 (2) 1"C-3#8+1#8GND THWN CU +2" CONDUIT FOR SCOREBOARD COMMUNICATION USE, TO NEAREST POWER PANEL. CONDUITS SHALL BE BURIED 24" BELOW GRADE ENCASED IN CONCRETE.

P4 (2) 1"C-5#8+1#8GND THWN CU +2" FIBER BETWEEN JUNCTION BOXES. CONDUITS SHALL BE BURIED 24" BELOW GRADE. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND CONDUITS TO BE USED OR INTERCEPTED, IF POSSIBLE, PRIOR BID/CONSTRUCTION.

P5 EXISTING CONCRETE PULL BOX WITH BOLTDOWN CONCRETE COER, QUICKSET MED-24.

P6 EXISTING FEEDER TO REMAIN AS IS. CONTRACTOR SHALL REPLACE WITH THE NEW ONE IF FEEDER GETS DAMAGED DURING CONSTRUCTION.

P7 EXISTING LIGHT POLE TO BE RETROFITTED. CONTRACTOR SHALL VERIFY EXISTING CONDITION AND NEW REQUIREMENTS WITH DISTRICT PRIOR BID/CONSTRUCTION.

P8 INTERCEPT NEW CONDUITS AND CONDUCTORS WITH EXISTING CONDUCTORS AND CONDUITS.

ENLARGED ELECTRICAL SITE PLAN - TRACK & FIELD | SCALE: 1"-20'-0" | 1

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03/09/2020

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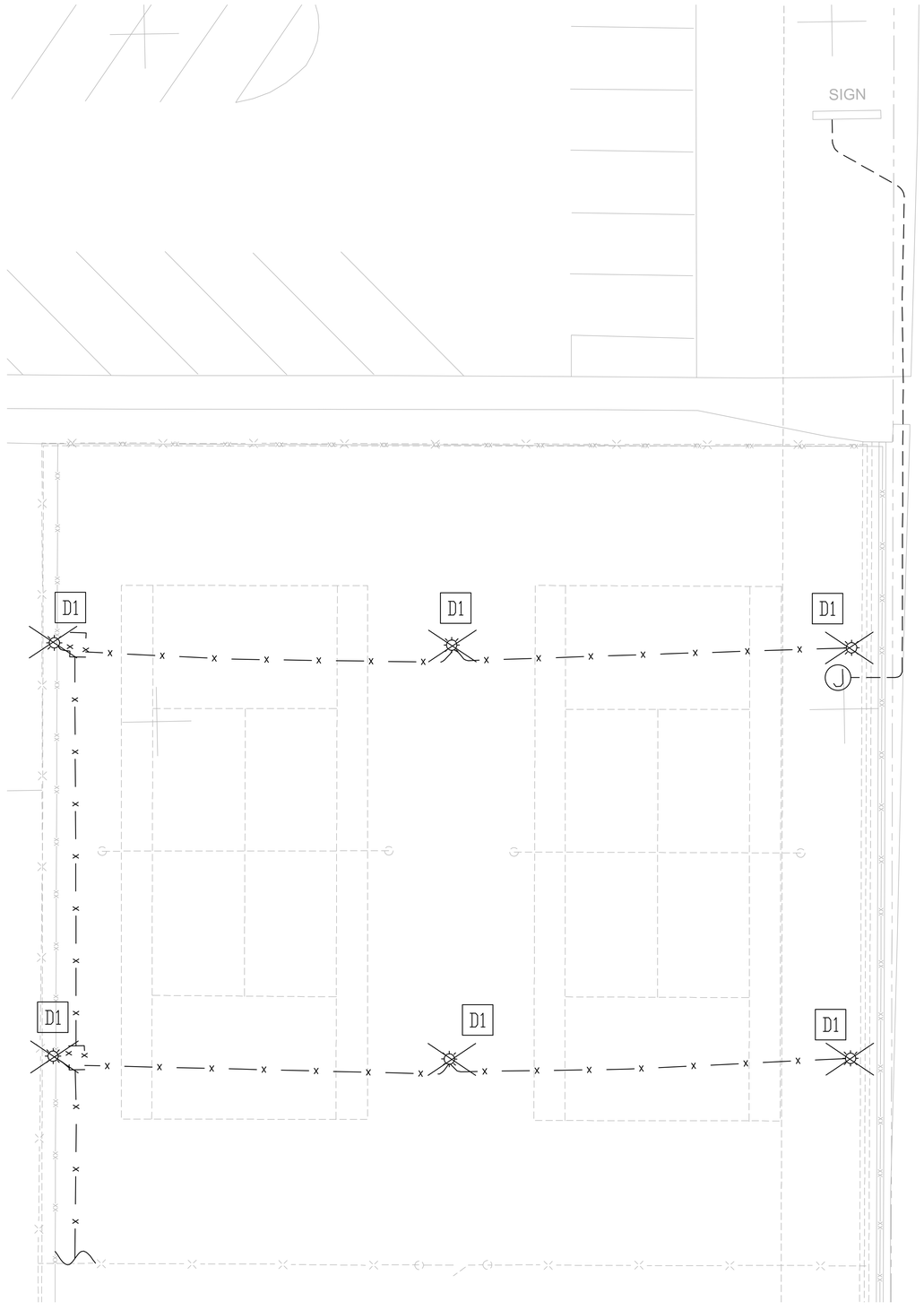
DESIGN TEAM
J.H.

TRACK & FIELD
ELECTRICAL SITE PLAN

E-200



ENLARGED DEMO TENNIS COURT ELECTRICAL PLAN | SCALE: 1/8"=1'-0" | 1

DEMOLITION GENERAL NOTES

1 EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORDS AND SITE INVESTIGATION AS LIMITED BY STRUCTURAL CONDITIONS.

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3 ANY LIVE CONDUITS OR SERVICES SHALL BE DE-ENERGISED AND TERMINATED OR REROUTED PRIOR TO BEGINNING OF NEW WORK.

4 ANY WORK THAT REQUIRES ANY ELECTRICAL, LOW VOLTAGE, MECHANICAL, COMMUNICATION OR FIRE ALARM SERVICES TO BE SHUT OFF TO ANY AREA OR SHALL BE COORDINATED WITH THE SCHOOL DISTRICT AND SCHEDULED FOR NON SCHOOL HOURS.

DEMOLITION PLAN KEYED NOTES (NOT ALL MAY APPLY)

D1 CONTRACTOR SHALL REMOVE EXISTING LIGHT POLE AND BELIVER TO DISTRICT. EXISTING CIRCUIT WIRING CONDUCTORS AND CONDUITS SHALL BE REROUTED TO PROPOSED LAYOUT.

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J.H.

DEMO TENNIS COURT
ELECTRICAL PLAN

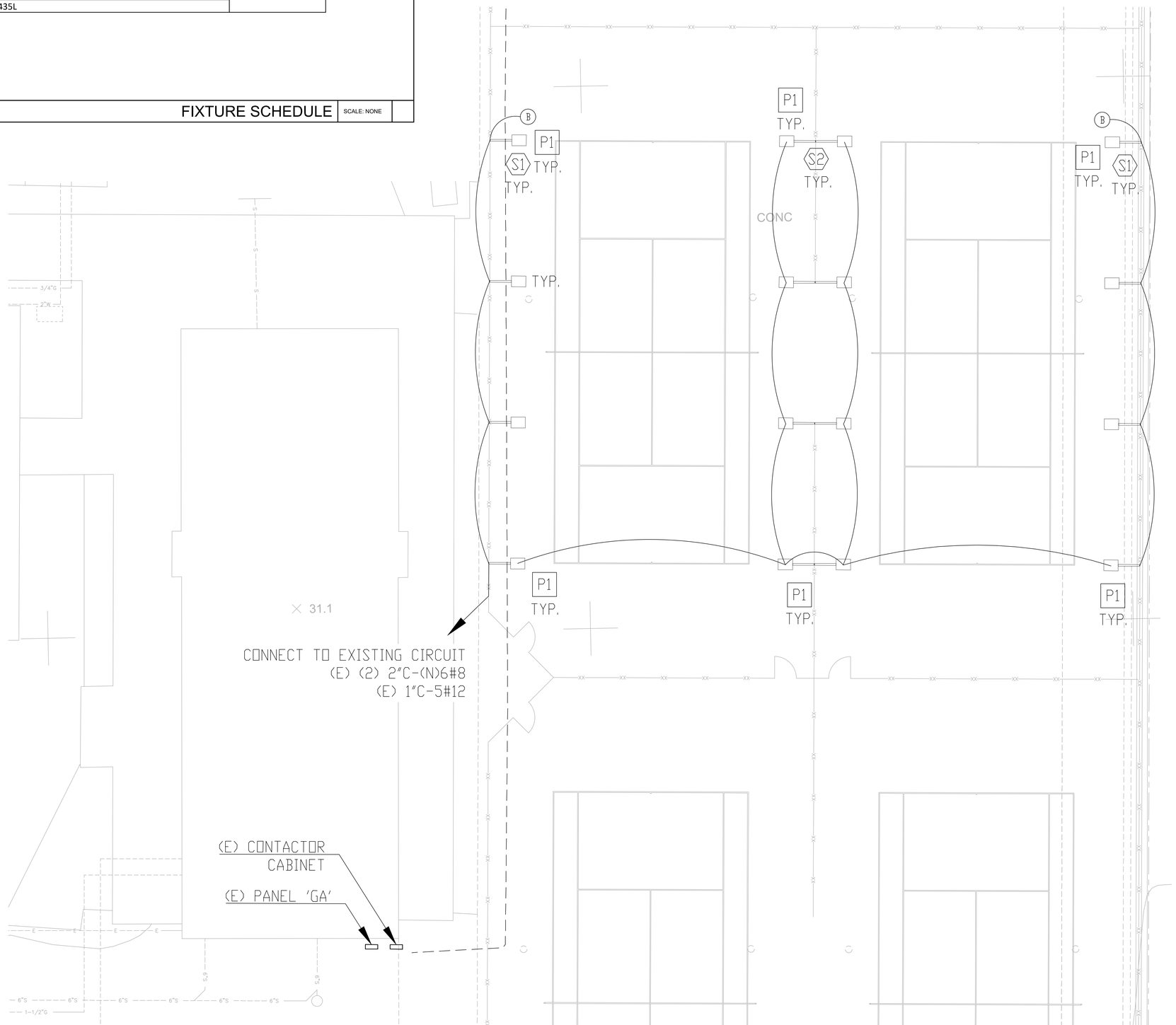
ED-201

FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION
S1	D-SERIES SIZE 2 LED DSX2-LED-80C-1000-40K-T4M-MVOLT - LITHONIA 282W 4000K LED 23435L	TENNIS COURT
S2	D-SERIES SIZE 2 LED DSX2-LED-80C-1000-40K-T4M-MVOLT - LITHONIA 564W 4000K LED 23435L	TENNIS COURT

FIXTURE SCHEDULE

SCALE: NONE



ENLARGED NEW TENNIS COURT ELECTRICAL PLAN

SCALE: 1/8"=1'-0" | 1

POWER GENERAL NOTES

1 ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS, THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATION FROM NEAT WORKMANSHIP.

2 COMBINING OF HOMERUNS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.

3 COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.

4 CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.

5 ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.

6 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)

P1 NEW LIGHT POLE, MOUNTED AT 20'-0" AFF., TO BE FED AND CONNECTED TO EXISTING REROUTED CIRCUIT AND FEEDERS.

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03/09/2020

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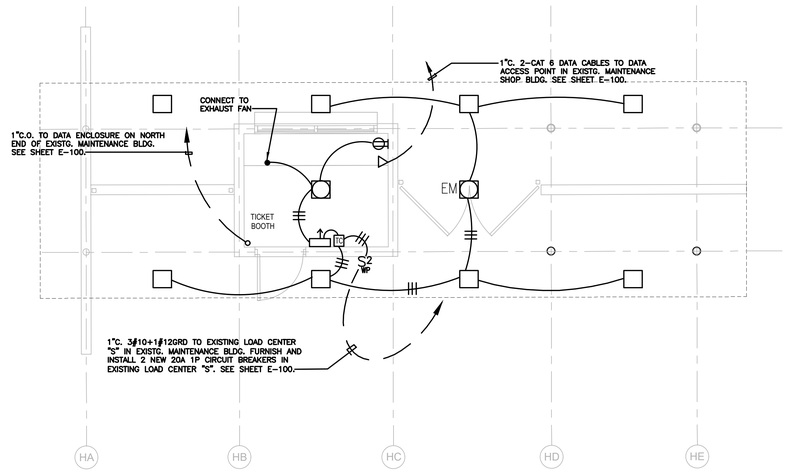
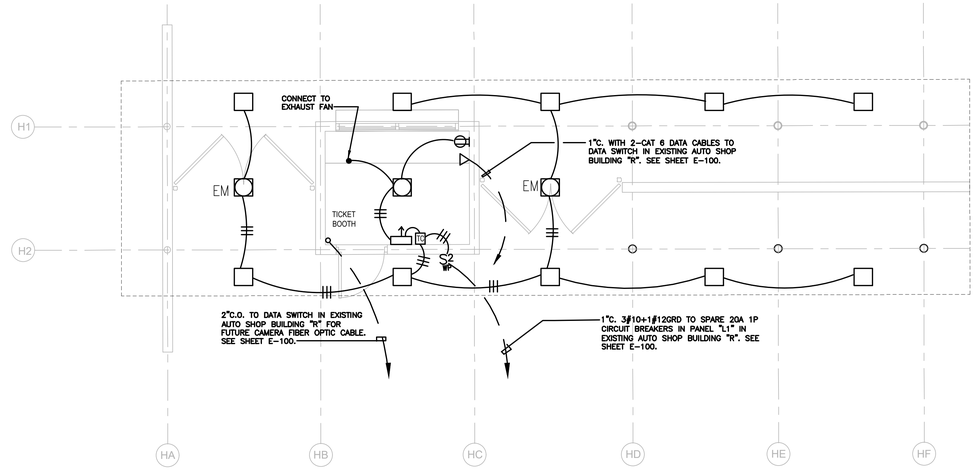
PROJECT MANAGER
A.O.
DESIGN TEAM
J.H.

NEW TENNIS COURT
ELECTRICAL PLAN

E-201



GATEWAY #2 LIGHTING AND POWER PLAN | SCALE: 1/4"=1'-0" | 2



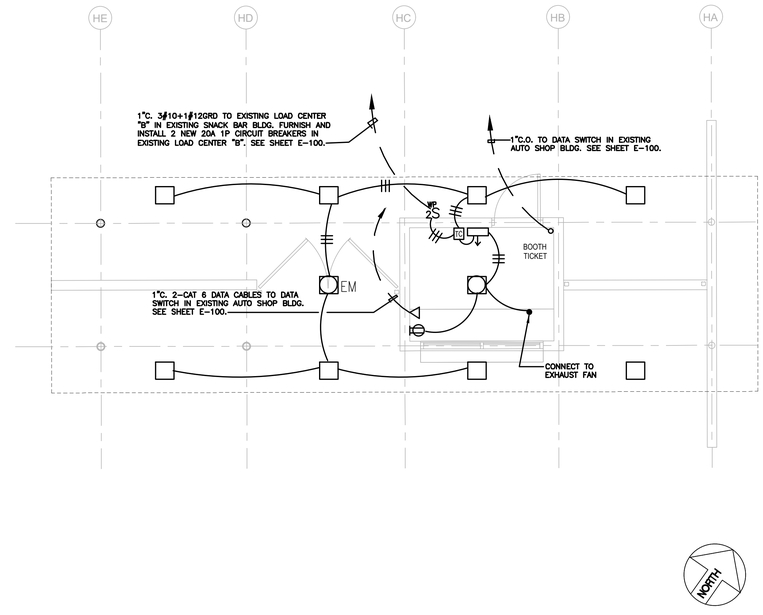
GATEWAY #1 LIGHTING AND POWER PLAN | SCALE: 1/4"=1'-0" | 1

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER/ CATALOG NO.	ALTERNATE MANUFACTURER/ CATALOG NO.
C	☐	LED 4000°K	RECESSED SQUARE UNDER CANOPY LED FIXTURE WITH, SQUARE TAMPERED GLASS LENS WITH CLEAR POLYCARBONATE BOTTOM LENS AND TAMPERPROOF SCREWS. UL LISTED FOR DAMP LOCATION. TOTAL WATTS = 36	KENALL #PC1515-8-GW-32P-1-DT OR APPROVED EQUAL	ECLIPSE 855-68.7-4759K-2EBU-WH-9002-PREC DAY-BRITE FDPH-LED
CE	☐ EM	LED 4000°K	SAME AS TYPE "J" EXCEPT WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY BACK UP. TOTAL WATTS = 36	KENALL #PC1515-8-GW-32P-1-DT-EL OR APPROVED EQUAL	ECLIPSE 855-68.7-4759K-2EBU-WH-9002-PREC DAY-BRITE FDPH-LED

LIGHTING FIXTURE SCHEDULE NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RECESSED LUMINAIRES WITH THE CEILINGS INTO WHICH THEY ARE TO BE INSTALLED, REGARDLESS OF THE MANUFACTURERS' PRODUCT NUMBERS SPECIFIED.
2. RECESSED INCANDESCENT AND COMPACT FLUORESCENT, AND HID LUMINAIRES ARE SPECIFIED TO INCLUDE PROVISION FOR THROUGH-CIRCUIT WIRING. CONTRACTOR MUST VERIFY SUITABILITY OF EACH LUMINAIRE RELATING TO CIRCUIT WIRES AND LOCAL CODE REQUIREMENTS.
3. LUMINAIRES AND CONNECTIONS TO BUILDING CONSTRUCTION MUST CONFORM TO APPLICABLE SEISMIC CODES. PROVIDE ALL SEISMIC #12 HANGER WIRES AND SCREWS PER LOCAL AUTHORITY HAVING JURISDICTION.
4. EACH RECESSED INCANDESCENT LUMINAIRE IS TO BE SUPPLIED WITH A THERMAL RESETTING DEVICE OR AS OTHERWISE NECESSARY TO MEET THE REQUIREMENTS OF NEC PARAGRAPH 410-65 (c).
5. VERIFY EXACT QUANTITY AND LOCATION FOR ALL LIGHT FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO BID.
6. ALL LIGHT FIXTURES OPERATING VOLTAGES SHALL BE CONFIRMED WITH LIGHTING PLANS BRANCH CIRCUITRY.
7. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AND AS NECESSARY TO INSURE PROPER INSTALLATION OF EACH LIGHT FIXTURE AS TO THEIR RESPECTIVE CEILING CONDITION.



GATEWAY #3 LIGHTING AND POWER PLAN | SCALE: 1/4"=1'-0" | 3

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DSA Submittal

03/09/2020

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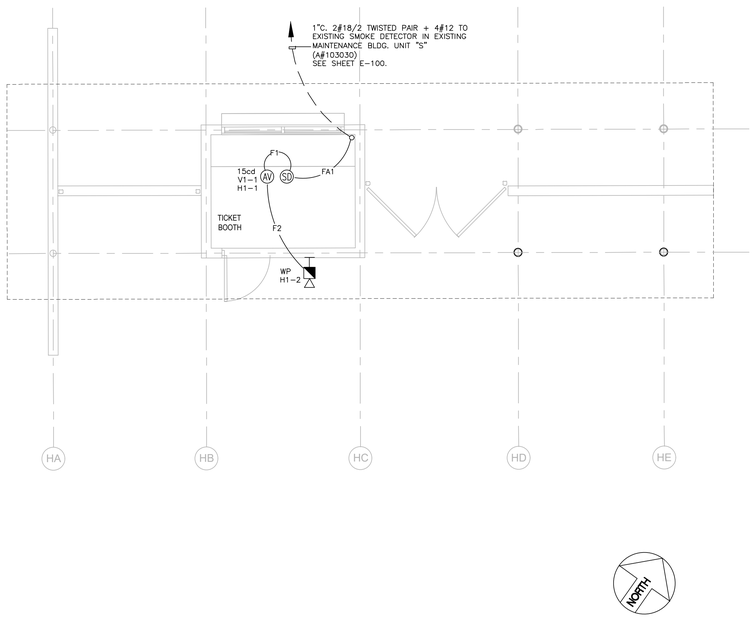
PROJECT MANAGER
A.O.

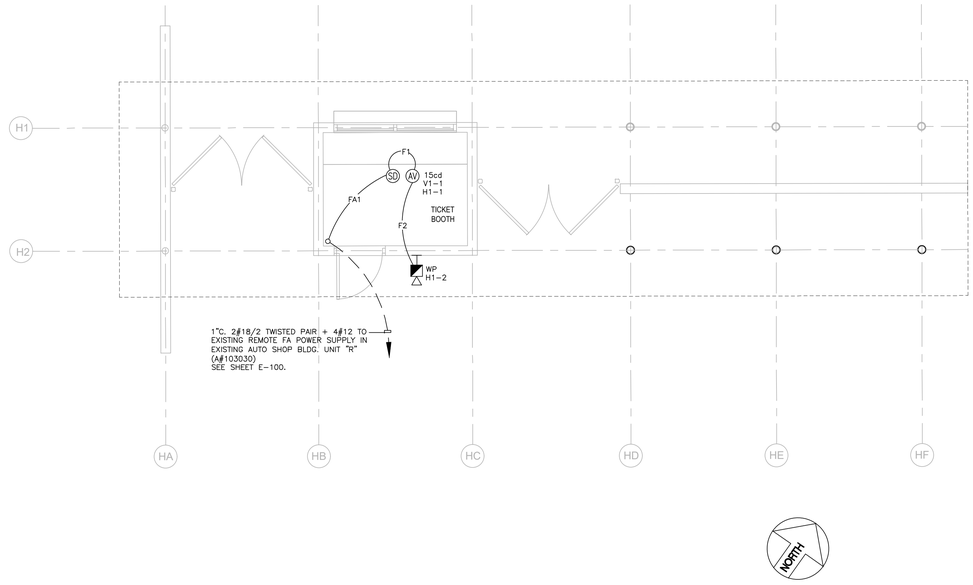
DESIGN TEAM
J.H.

GATEWAYS 1, 2 AND 3
LIGHTING, POWER AND
SIGNAL PLANS

E-202



GATEWAY #2 FIRE ALARM PLAN | SCALE: 1/4"=1'-0" | 2



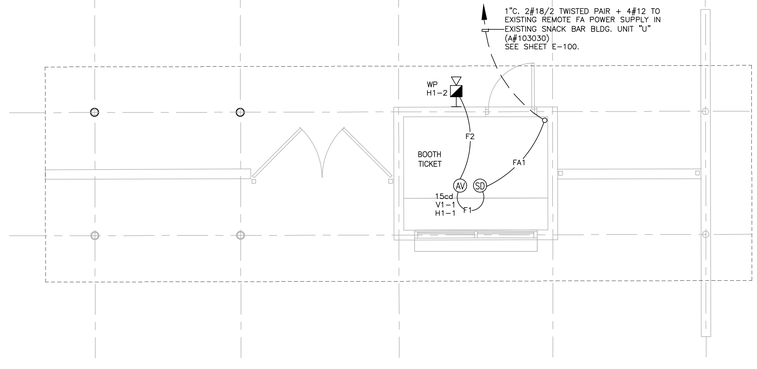
GATEWAY #1 FIRE ALARM PLAN | SCALE: 1/4"=1'-0" | 1

LEGEND

- (SD) ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. SILENT KNIGHT SD505-APS CSFM#7272-0559:0129 (STANDBY .55mA/ALARM .55mA)
- (AV) AUDIO/VISUAL DEVICE. GENTEX #GEC3-12-2415WR CSFM#7135-0569:0122 15 CANDELA @ 0.055A.
- WP WEATHERPROOF EXTERIOR HORN W/ WBB BOX. WHEELOCK MT 12-24 WP BOX CSFM#7135-0785:0118 @ 0.049A.

WIRING LEGEND

- FA1 — 1"C. (2) 2#18/2 TWISTED PAIR + 4#12
- F2 — 3/4"C. 4#12
- F1 — 3/4"C. 8#12



GATEWAY #3 FIRE ALARM PLAN | SCALE: 1/4"=1'-0" | 3

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CHANNEL ISLANDS HIGH SCHOOL
TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY,
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LICENSED ARCHITECT — KAY K. TITTLE — No. C-11-30-21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — ARTIN OSKUIAN — NO. E-21460 — ELECTRICAL — STATE OF CALIFORNIA

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PRINCIPAL IN CHARGE
B.E.S./A.O.

PROJECT MANAGER
A.O.

DESIGN TEAM
J.H.

GATEWAYS 1, 2 AND 3
FIRE ALARM PLANS

E-203

GENERAL NOTES:

SCOPE OF WORK

Remove all existing light fixtures, cross–arm supports, speakers, security light fixtures, exit illumination lights from (4) existing poles and replace with new LED light fixtures, new cross–arm supports, speaker, ball trackers, and security lights as indicated. Remove existing ballast boxes & add ballast boxes as indicated.

APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2016 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 110 MPH (Exposure C); Vasd = 85 MPH (Exposure C)
- Risk Category = II

Seismic Design Data:
- Ie = 1.0
- Risk Category = II (Self Supporting Poles)
- S_s = 2.347
- S_1 = 0.834
- Site Class = D
- S_{DS} = 1.565
- S_{D1} = 0.834
- Seismic Design Category = E
- Basic Seismic–Force–Resisting System = Non–Building Structure, not similar to buildings
- Cs = 0.445 (STRENGTH LEVEL)
- R = 1.5
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Engineer.

Contractor must check all dimensions, clearances and job conditions before starting work. Engineer shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the Engineer do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, Engineer, and the Division of the State Architect.

All changes in approved plans shall be made by means of construction change documents (CCD) approved by the Division of State Architect, as required by Section 4–338, Part 1, Title 24, CCR. All CCD documents shall be signed by the Architect and Owner. Addenda shall be signed by the design professional in general responsible charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the District (Owner) and approved by the Division of State Architect shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4–342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an Independent lab employed by the School District and approved by DSA.

Reference pole location drawings provided by the Architect, Structural Engineer, or Electrical Engineer for actual pole placement and site location.

STEEL POLE

All miscellaneous structural steel items confrom to AISC 360–10.

All weldment conforms with AWS D1.1 specification for GMAW fillet utilizing E70S–X filler metal or SAW fillet utilizing F7XX–EXXX or F8XX–EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

All field welding shall be in compliance with AWS D1.1 specification.

All welding shall be continously inspected by an AWS CWI certified inspector approved by DSA.

All exposed steel shall be hot dipped galvanized to ASTM A123 latest standards.

TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2.

STEEL MATERIALS:
Structural steel – 2203A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2203A.1

STEEL QUALITY:
Tests of structural steel & cold formed steel – 2203A.1
Non–destructive weld tests – 1705A.2.5 & DSA IR–17–2

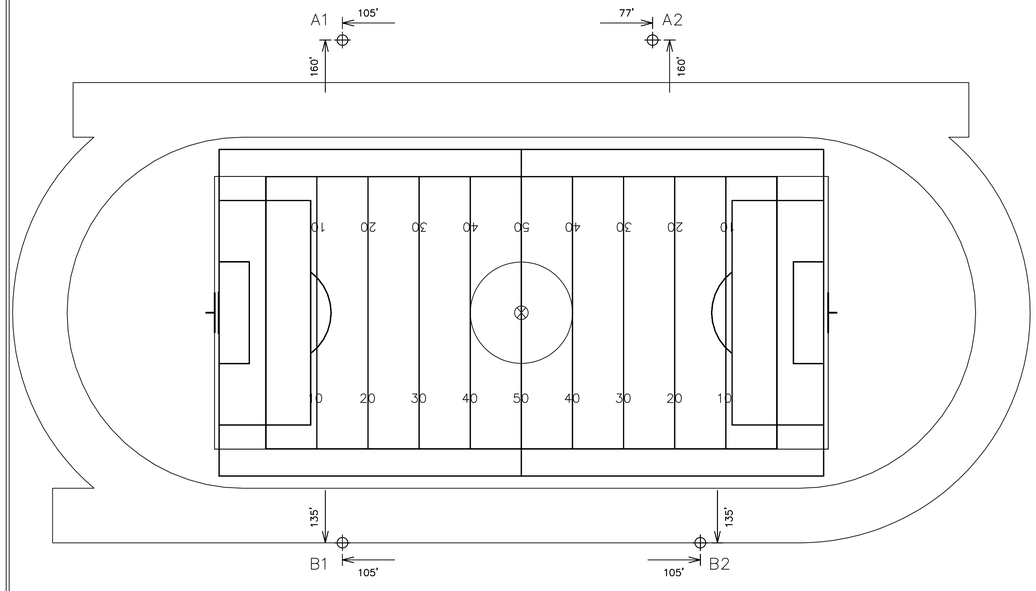
STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.5, DSA IR 17–3 and AWS D1.1.

NOTE: Field verify existing pole conditions & repair any defects, if found. Repair procedures and details to be reviewed and approved by Structural Engineer of Record and DSA.

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

INDEX OF SHEETS

MT1	NOTES, RETROFIT CONFIGURATION
MS1	70' POLE DETAILS
MS2	80' POLE DETAILS



POLE ORIENTATION PLAN

N.T.S.

NOTE: THIS PLAN IS A PICTORAL REPRESENTATION OF THE SITE LAYOUT. REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.

Exist Pole (As–Built)	Type Fixtures	Number fixtures	EPA/Fixture sq ft (1)	Total EPA sq ft	Weight/fixture lbs(2)	Total Fixtures Weight lbs	Weight Elect. Ballast Per Fixture lbs	Total ballast Weight lbs	Pole weight lbs	Total weight lbs	Max. % Weight Difference	Max. % EPA Difference
A1, A2	SC–2(3)	16	3.2	51.2	20	320	50	800	2,965	4,145		
	Security light(3)	1	3.2	3.2	20	20	–	–				
	Speaker(3)	1	1.0	1.0	20	20	–	–				
	Exit illumination light(3)	1	0.5	0.5	20	20	–	–				
B1, B2	SC–2(3)	16	3.2	51.2	20	320	50	800	2,512	3,692		
	Security light(3)	2	3.2	6.4	20	40	–	–				
	Exit illumination light(3)	1	0.5	0.5	20	20	–	–				
Exist Pole (As–Modified)	Type Fixtures	Number fixtures	EPA/ Fixtures sq ft	Total EPA sq ft	Weight/fixture lbs	Total Fixtures Weight lbs	Weight Elect. Driver Per Fixture lbs	Total Elect. Driver Weight lbs	Pole weight lbs	Total weight lbs		
A1, A2	LED1500	5	3.4	16.9	92.8	464	20	260	2,965	4,447	7.3	–14.9
		4	3.4	13.5	92.8	371						
	LED600	2	2.4	4.8	60.5	121						
	LED575	2	2.3	4.6	54.5	109						
	Speaker	1	7.7	7.7	157	157						
B1, B2	LED1500	5	3.3	16.4	92.8	464	20	240	2,512	3,767	2.0	–24.2
		4	3.3	13.1	92.8	371						
	LED600	1	2.1	2.1	71.0	71						
	LED575	2	2.3	4.6	54.5	109						
	Speaker	1	7.7	7.7	157	157	–	–				

1. EPA VALUES OF EXISTING FIXTURES WERE TAKEN FROM DSA APPROVED DRAWINGS A#51471.
2. WEIGHTS OF EXISTING FIXTURES WERE TAKEN FROM ORIGINAL CALCULATIONS
3. ALL EXISTING FIXTURES AND ATTACHMENTS TO BE REMOVED FORM ALL POLES.

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DSA–TITLE1_E

Channel Islands HS FB
FIELD LIGHTING
Oxnard,CA

REGISTERED PROFESSIONAL ENGINEER ★ WINDELL C. OLIPHANT ★ No. 24656 Exp. 6-30-21 ★ STRUCTURAL ★ STATE OF CALIFORNIA

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Oskaloosa, Iowa 52577
800/825–6020

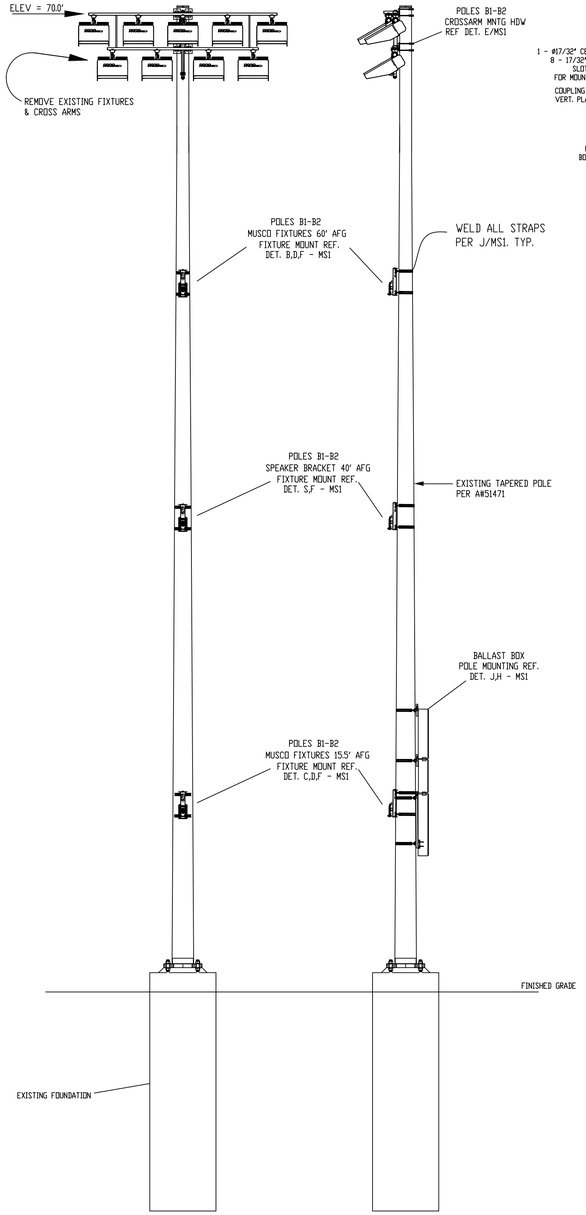
DRAWING TITLE: NOTES, RETROFIT CONFIGURATION
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 201820

DATE: 03/05/2020

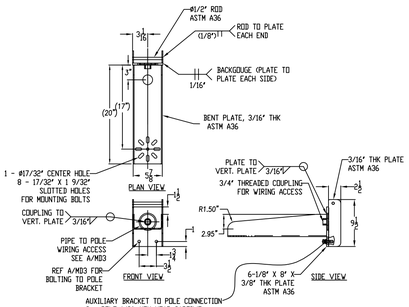
DRAWN BY: DCL

DRAWING NO. MT1
1 OF 3

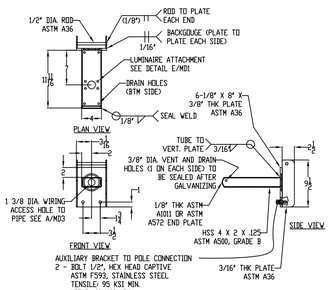


70' POLE FRONT VIEW
N.T.S.

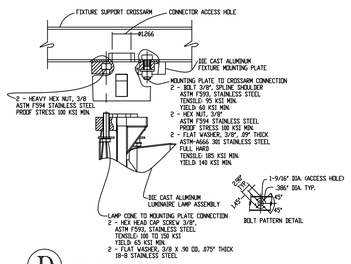
70' POLE SIDE VIEW
N.T.S.



(S) 1P INVERTED LONG-NOSE TRUNNION MOUNT
N.T.S. DSA-1P EXT-INV TRUNNION_A



(B) 1P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-1P FIXTURE MOUNT_E

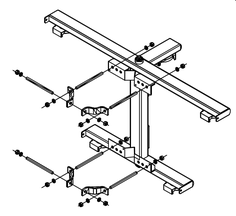


(D) LUMINAIRE ATTACHMENT DETAIL
N.T.S.

4.1-12" Diameter Pole

A (2) 1 3/4" wide 3/8"Thk. W-bracket A36 (Galv.)
B (6) 5/8"-11UNC galv. nut Gr.2 Steel (Galv.)
C (6) 5/8" galv. lock washer F436 (Galv.)
D (3) 5/8"-11UNC x 9 1/2" bolt A36 (Galv.)
Tightened to 80Ft-LBs. Using a torque wrench.
*All materials to be HDG.

Crossarm Mounting Hardware



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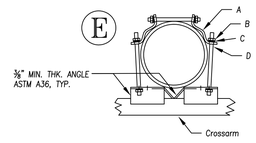
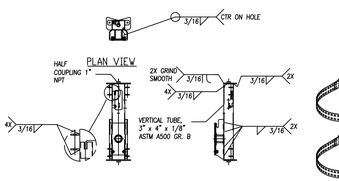
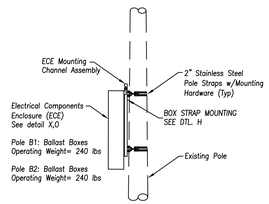
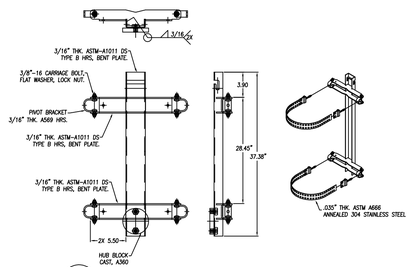




(F) AUX. FIXTURE MOUNTING
N.T.S.



(J) BALLAST BOX CONNECTION DETAIL
N.T.S.



(H) BOTTOM BOX STRAP MOUNTING
N.T.S.

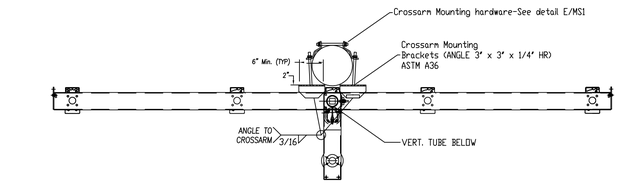
1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 92.80 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED

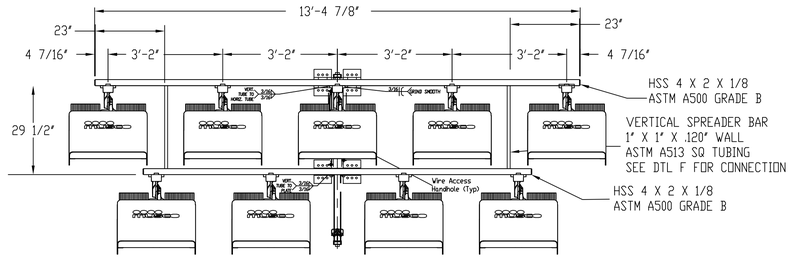
POLE SCHEDULE

SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA[1]	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	B1-B2	SEE POLE ORIENTATION PLAN	--	9 - SEE DETAIL A/MS1	29.6	SEE DETAIL X,O/MS1

DSA-POLESCHE_C

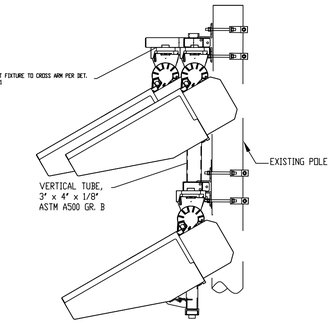


TOP VIEW

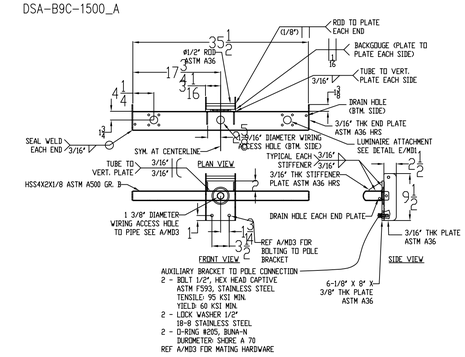


FRONT VIEW

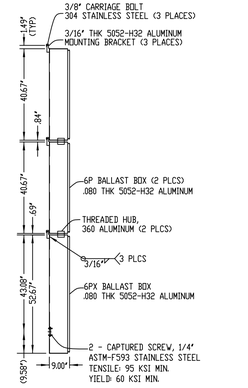
(A) 9 FIXTURE CONFIGURATION
N.T.S. DSA-B9C-1500_A



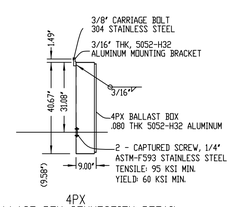
SIDE VIEW



(C) 2P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-2P FIXTURE MOUNT_E



6P/6P/6PX-LP
(X) BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-6P6P6PXLP_E



4PX
(O) BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-4PX_E

DSA-7B_A

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100 1st Avenue West
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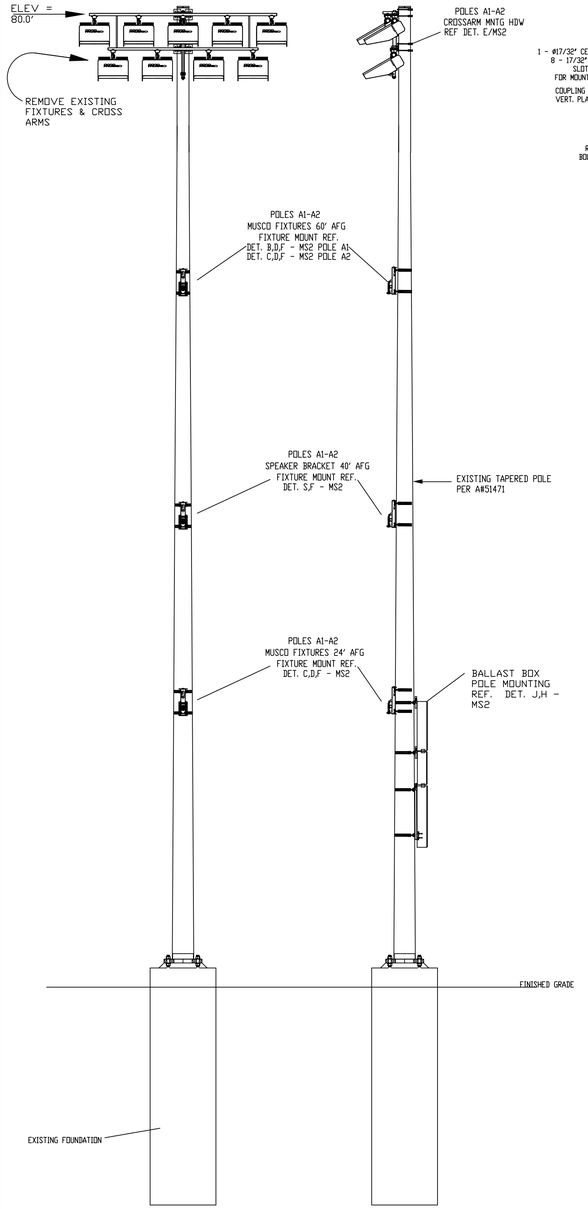
800/825-6020

DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 201820
DATE: 03/05/2020
DRAWN BY: DCL
DRAWING NO. MS1
2 OF 3



80' POLE FRONT VIEW
N.T.S.

80' POLE SIDE VIEW
N.T.S.

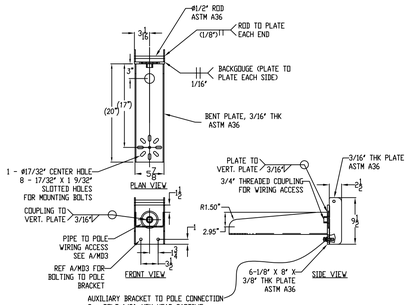
1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 92.80 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 29 LBS PER FIXTURE SERVICED

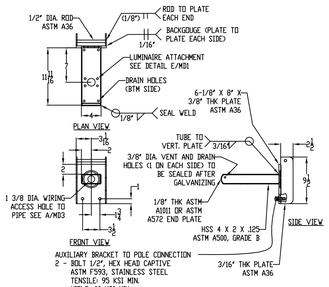
POLE SCHEDULE

SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA[1]	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	A1-A2	SEE POLE ORIENTATION PLAN --	9 - SEE DETAIL A/MS2	30.5		SEE DETAIL X,D/MS2

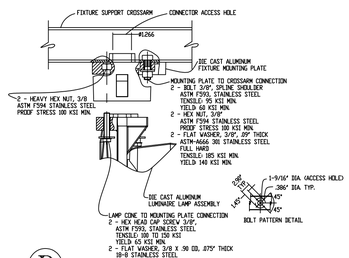
DSA-POLESCHE_C



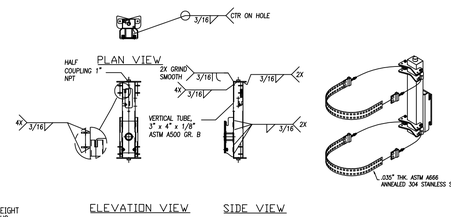
(S) 1P INVERTED LONG-NOSE TRUNNION MOUNT
N.T.S. DSA-1P EXT-INV TRUNNION_A



(B) 1P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-1P FIXTURE MOUNT_E



(D) LUMINAIRE ATTACHMENT DETAIL
N.T.S.

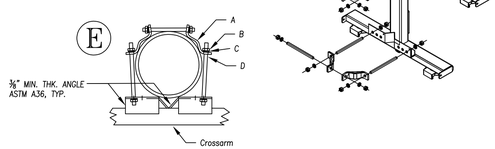


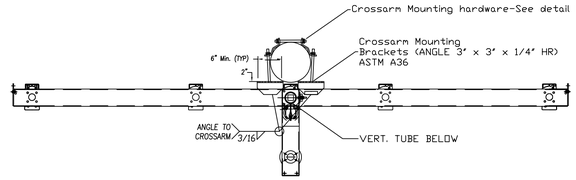
(F) AUX. FIXTURE MOUNTING
N.T.S.

4.1–12" Diameter Pole

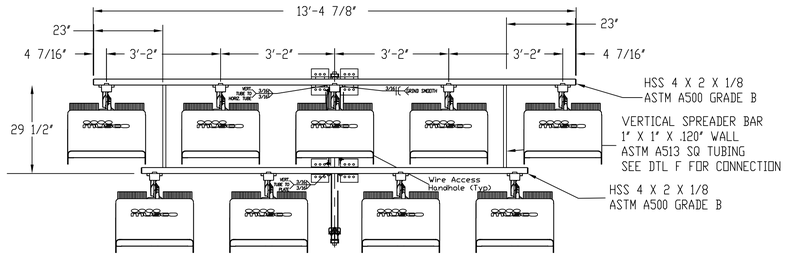
A (2) 1 3/4" wide 3/8"Thk. W-bracket A36 (Galv.)
B (6) 5/8"–11UNC galv. nut Gr.2 Steel (Galv.)
C (6) 5/8" galv. lock washer F436 (Galv.)
D (3) 5/8"–11UNC x 9 1/2" bolt A36 (Galv.)
Tightened to 80FT–LBs. Using a torque wrench.
*All materials to be HDG.

Crossarm Mounting Hardware





TOP VIEW



FRONT VIEW

(A) 9 FIXTURE CONFIGURATION
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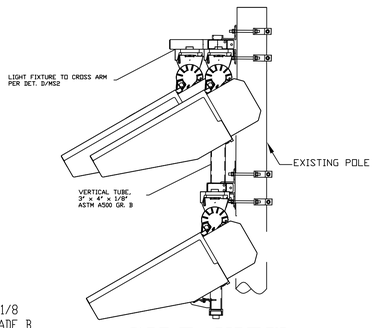
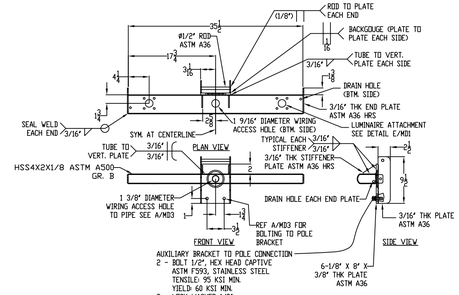
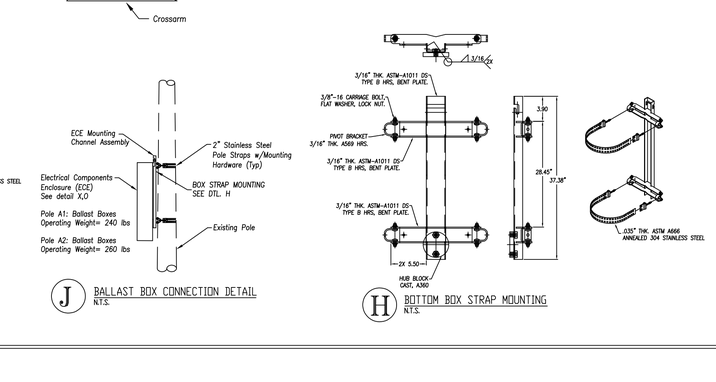


SIDE VIEW

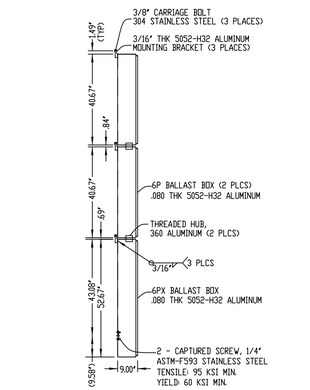


(C) 2P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-2P FIXTURE MOUNT_E



(J) BALLAST BOX CONNECTION DETAIL
N.T.S.

(H) BOTTOM BOX STRAP MOUNTING
N.T.S.



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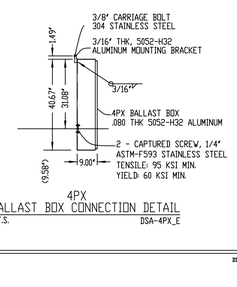

4PX
(O) BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-4PX_E

DSA-7L_A

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SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 201820

DATE: 03/05/2020

DRAWN BY: DCL

DRAWING NO. MS2

3 OF 3

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3/6/2020 12:01:22 AM

DSA-103 Issued: 10/09/2018

List of Required Structural Tests & Special Inspections - 2016 CBC

DSA

Architect / Engineer: _____ Date: _____

IR/ADDENDUM #: _____ DSA File No.: _____

Application No.: _____

Date Submitted: _____ Revised: _____

Revised: _____

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections listed below are the minimum that the Architect or Engineer of Record, Contractor, Testing Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the end of this document lists the CBC sections that require testing and/or special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A, CBC. Refer to the publications data available for projects submitted for review under the 2007, 2010, and 2013 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of work. Mark an "X" in the box next to the test or inspection that is required, including your selection of that test. Note: A minus (-) in a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

		TEST OR SPECIAL INSPECTION			CODE REFERENCE AND NOTES
-	1	SOILS			Table 1705A.3
-		1. GENERAL			
X	a.	Verify that the site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • fill has reached proper density and been placed to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative.
-		4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)			Table 1705A.4
X	a.	Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	b.	Not used.			
X	c.	Verify placements, locations, diameters, slumpness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	7	CONCRETE			Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13
-		7. CAST IN PLACE CONCRETE			
		Material Verification and Testing			
X	a.	Verify use of required design mix.	Periodic	SI*	Table 1705A.3 Item 5, 1913A.1 (1908.2.5+), * To be performed by qualified batch-plant inspector and/or testing laboratory.
X	b.	Identify, sample, and test reinforcing steel.	Test	LOR	1913A.2 (1908.2.4+), ACI 318-14 Section 26.6.1.2, DSA IR 17-10
X	c.	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6, ACI 318-14 Sections 26.5 & 26.12
X	d.	Test concrete (f'c).	Test	LOR	1905A.1.16 (1909.3.7+), ACI 318-14 Section 26.12.
-	9	STEEL, ALUMINUM			Table 1705A.2.1, AISC 360-16, AISC 341-16, AISC 205-16, AQS 5100-07/02-10
-		17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
		Material Verification			
X	a.	Verify identification of all materials and that test reports indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	2203A.1 (2203.1+), Table 1705A.2.1 Item 3a,4a, AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S240-15 Section A1.3.1, AISI S220-11 Section A1.* By special inspector or qualified technician when performed off-site.
X	b.	Identify welding materials.	Test	LOR	2205A.1 (2203.1+)
		Inspection			
	a.	Not used.			Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
X	b.	Verify welded sheet steel fabrication per DSA approved construction documents.	Periodic	SI	
-	c.	WELDING			1705A.2.5, Table 1705A.2.1 Items 4 & 5, DSA IR 17-1.3, AWS D1.1 and AWS D1.6 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
		Verification of Materials, Equipment, Welders, etc.			
X	c.	Verify weld filler material identification markings per AWS specification and the DSA approved construction documents and the WPS.	Periodic	SI	DSA IR 17-5
X	d.	Verify welder identification and welder's certificate of compliance.	Periodic	SI	DSA IR 17-5
X	e.	Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-5
-		19.1 SHOP WELDING			
X	a.	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds ≤ 5/16", and tack-welded joints.	Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-5.
X	b.	Inspect single-pass fillet welds ≥ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a5 & 5a6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-5.
-		19.2 FIELD WELDING			
X	a.	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds ≤ 5/16", and tack-welded joints.	Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-5.
X	b.	Inspect single-pass fillet welds ≥ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-5.

KEY to Columns

1 - Type –	2 - Performed By –
Continuous - Indicates that a continuous special inspection is required	GE - Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic - Indicates that a periodic special inspection is required	CW - Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4.6 DSA-103 (12) Title 24, Part 1.
Test - Indicates that a test is required	SI - Indicates that the special inspector is to be performed by a special inspector.

COMPILE | PRINT

Name of Architect or Engineer in general responsible charge: _____

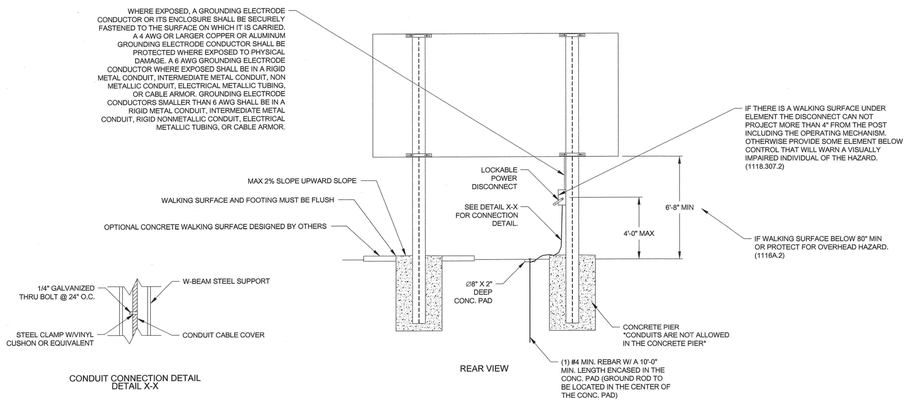
Name of Structural Engineer (Where structural design has been delegated): _____

Signature of Architect or Structural Engineer: _____ date: _____

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. # _____
AC___ NA___ FLS___ NA___ SS_____
DATE_____

STRUCTURAL TEST AND INSPECTIONS

RECEIVED
NOV 16 2017
DSA – SAN DIEGO



CONDUIT CONNECTION DETAIL
DETAIL X-X

NOTE:

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

GROUNDING DETAIL

DRAWING INDEX

SHEET 1: PC-2 TITLE PAGE.
SHEET 2: PC SIGN MOUNTING DETAILS 1.
~~SHEET 3: PC SIGN MOUNTING DETAILS 2.~~
~~SHEET 4: PC SIGN MOUNTING DETAILS 3.~~
~~SHEET 5: PC-2 25'-0" WIDE ELEVATION, WIND SPEED 150 MPH.~~
SHEET 6: PC-2 25'-0" WIDE ELEVATION, WIND SPEED 110 MPH.

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 110 MPH FOR SIGNS DEPICTED ON SHEET 6, 130 MPH FOR SIGNS DEPICTED ON SHEET 5.
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- Kzt = 1.0, Kd = 0.85, g = 0.85
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR: 1.0
- SITE CLASS: D
- Ss: 3.00
- S1: 1.50
- SDS: 2.0
- SD1: 1.50
- Cs: 0.67
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES, REF. IR A-4.13
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

GENERAL / CODE INFORMATION

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 3

PRECHECK DRAWING CHANGES:
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2016 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC)..... (PART 1, TITLE 24 CCR)
2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2..... (PART 2, TITLE 24 CCR
(2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE..... (PART 3, TITLE 24 CCR)
(2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC)..... (PART 4, TITLE 24 CCR)
(2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE..... (PART 5, TITLE 24 CCR)
(2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE..... (PART 6, TITLE 24 CCR)
2016 CALIFORNIA FIRE CODE (CFC).....(PART 9, TITLE 24 CCR)
(2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE..... (PART 11, TITLE 24 CCR)
2016 CALIFORNIA REFERENCED STANDARDS CODE..... (PART 12, TITLE 24 CCR)
NFPA 13 - 2016
NFPA 72 - 2016

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2016 CBC, CHAPTER 35
2016 CFC, CHAPTER 45

GENERAL REQUIREMENTS
THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD)
APPROVED BY THE DIVISION OF THE STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECTS SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR CLASS 3 INSPECTOR.

CONSTRUCTION SPECIFICATIONS

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE)
CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 14th ADDITION.
WIDE FLANGE SHAPES ASTM A992, Fy = 50 KSI
BOLTS BS304 F593C CW1, Fu=100 KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH MANUFACTURED EQUIPMENT.
REINFORCING STEEL ASTM 615, GRADE 60
HSS SHAPES ASTM A500 GR B, Fy=46 ksi
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.
E70XX ELECTRODES FOR SMAW PROCESSES
F7X-EXXX ELECTRODES FOR SAW PROCESSES
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2016 CBC, TABLE 1705A.2.1.

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14.
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0.45
COMPRESSIVE STRENGTH AT 28 DAYS (f'c) = 4500 PSI, MIN (DESIGN BASED ON f'c = 3000 PSI)
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

SOILS: SOIL PASSIVE PRESSURE BASED ON 2016 CBC TABLE 1806.A.2 CLASS 5. INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103. (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:

UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A. SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3. FOUNDATION INSPECTION SHALL BE REQUIRED PER 1803A.5.5.
STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2.1.

NOTES: SIGN CABINETRY SHALL BE FABRICATED IN THE SHOP OF AN APPROVED FABRICATOR
PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2016 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

PRE-CHECK (PC) DOCUMENT

CODE: 2016 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
roger t. alworth, s.e.
9138 s. State Street, Suite 101 (801) 990-1775
Sandy, Utah 84070 (801) 990-1776 FAX

VECTOR ENGINEERS
9138 S. State Street, Suite 101 (801) 990-1775
Sandy, Utah 84070 (801) 990-1776 Fax
PRO-2017-8 (01)039-607-071

REGISTERED PROFESSIONAL ENGINEER ROGER T. ALWORTH S3914 STRUCTURAL STATE OF CALIFORNIA

03/08/2017

STRUCTURAL ENGINEER OF RECORD

APPROVALS

695762-1-0

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116017
ACS JL FLS RF SS DW
DATE NOV 30 2017
FLS: R. FIEFFER
ACS: R. MULLEN
SS: D. WANG

REV	DATE	REVISED DRAWING PER DSA COMMENTS MADE ON 14 JUL 17.	BY
01	18 OCT 17		BAE

DAKTRONICS

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE PROPRIETARY TO DAKTRONICS, INC. AND SHALL NOT BE USED IN ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. 03/09

THIRD ANGLE PROJECTION

PROJECT:	2016 DSA PRE-CHECK DRAWINGS		
TITLE:	PC-2 TITLE PAGE		
DATE:	20 FEB 17	DIM UNITS: INCHES [MILLIMETERS]	SHEET 1 / REV 01
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	
DESIGN:	SEASTMA	JOB NO:	FUNC - TYPE - SIZE
DRAWN:	SEASTMA	P2015-01	F - 10 - D
			3574935

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME
OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS
1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
PROJECT MANAGER
DESIGN TEAM

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PC-2 TITLE PAGE

SHEET NUMBER
1

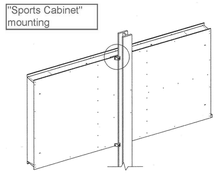
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10 FT.

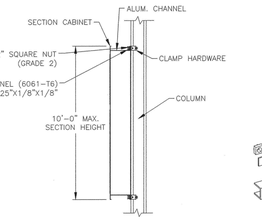
MAXIMUM SECTION WEIGHT
LESSER OF
–12 PSF
–1050 LBS FOR 2 COLUMN STRUCTURES
–1575 LBS FOR 3 COLUMN STRUCTURES

MOUNTING DETAIL 1

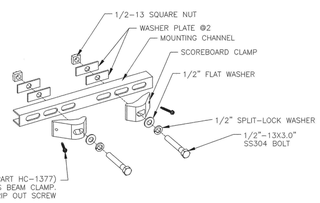
"Sports Cabinet" mounting



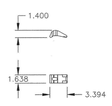
ISOMETRIC VIEW



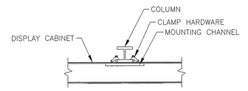
SIDE VIEW



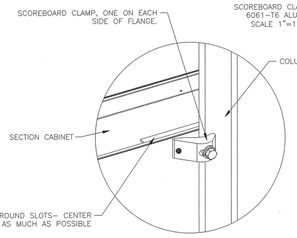
#12–14 X 1.5" SELF DRILLING SCREW (DAKTRONICS PART HC–1377) INSERT SCREW UNTIL HEAD CONTACTS BEAM CLAMP. DO NOT STRIP OUT SCREW

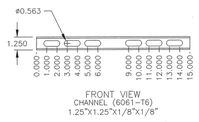


LAYOUT VIEW
SCOREBOARD CLAMPS
6061–T6 ALUM
SCALE 1"=1'

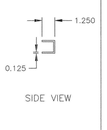


TOP VIEW





FRONT VIEW
CHANNEL (6061–T6)
1.25"X1.25"X1/8"X1/8"



SIDE VIEW

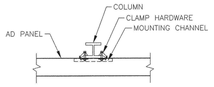
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 30 IN.

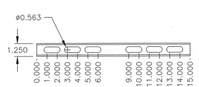
MAXIMUM SECTION WEIGHT
LESSER OF
–12 PSF
–1050 LBS FOR 2 COLUMN STRUCTURES
–1575 LBS FOR 3 COLUMN STRUCTURES

MOUNTING DETAIL 2

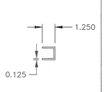
Ad panel mounting



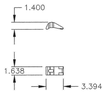
TOP VIEW



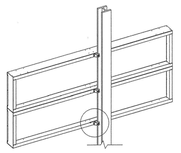
FRONT VIEW
CHANNEL (6061–T6)
1.25"X1.25"X1/8"X1/8"



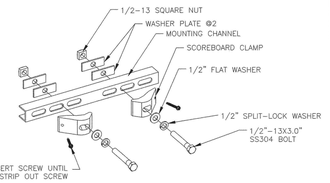
SIDE VIEW



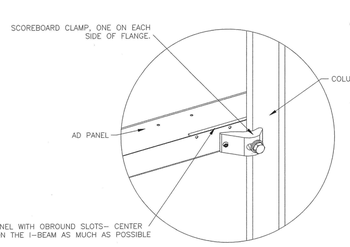
LAYOUT VIEW
SCOREBOARD CLAMPS
6061–T6 ALUM
SCALE 1"=1'

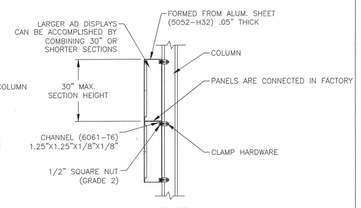


ISOMETRIC VIEW



#12–14 X 1.5" SELF DRILLING SCREW – INSERT SCREW UNTIL HEAD CONTACTS BEAM CLAMP. DO NOT STRIP OUT SCREW





SIDE VIEW

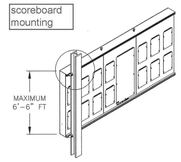
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

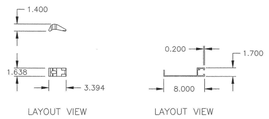
MAXIMUM SECTION HEIGHT IS 6'–6"

MAXIMUM SECTION WEIGHT
LESSER OF
–12 PSF
–1050 LBS FOR 2 COLUMN STRUCTURES
–1575 LBS FOR 3 COLUMN STRUCTURES

MOUNTING DETAIL 3

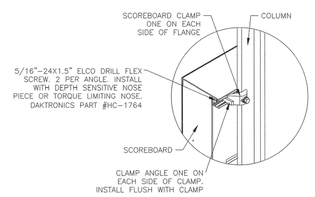
scoreboard mounting



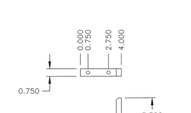


LAYOUT VIEW
SCOREBOARD CLAMPS
6061–T6 ALUM
SCALE 1"=1'

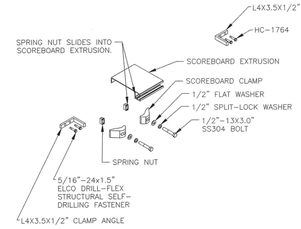
LAYOUT VIEW
SCOREBOARD EXTRUSION
6061–T6 ALUM
SCALE 1"=1'



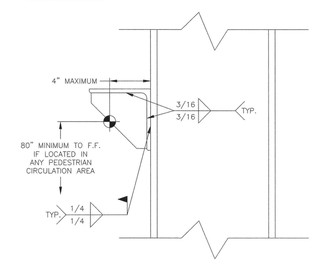
COLUMN IS A W–FLANGE. MAXIMUM FLANGE WIDTH IS 16". OPTIONAL SPACER MAY BE PLACED BETWEEN COLUMNS AND DISPLAY. MAXIMUM DEPTH INCLUDING OPTIONAL SPACER IS 22.25". MINIMUM FLANGE WIDTH IS 4". REFER TO SEAT ANGLE DETAIL MOUNTING DETAIL 4, PER SHEET 2 AND SIDE VIEW PER SHEET 5 OR 6 FOR FURTHER SPACER DETAILS.

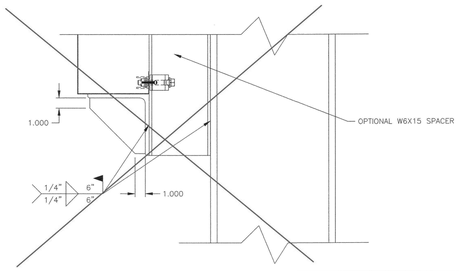


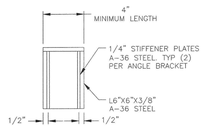
FRONT VIEW
6061–T6 ALUMINUM ANGLE, BEAM CLAMP STOP
3.5"X4.0"X.50"X.75" LG.
SCALE X 1



MOUNTING DETAIL 4







SEAT ANGLE DETAIL
MAXIMUM CAPACITY = 5,000 LBS PER SEAT
SEAT ANGLE IS REQUIRED AT BOTTOM OF DISPLAY STACKS
TYPICAL AT EACH COLUMN

PRE–CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116017
ACS 2A FLS BF SS DAJ
DATE NOV 30 2017

REV	DATE	REVISED DRAWING PER DSA COMMENTS MADE ON 14 JUL 17.	BY
01	16 OCT 17		BAE

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THIRD ANGLE PROJECTION

PROJECT:	2016 DSA PRE-CHECK DRAWINGS
TITLE:	PC SIGN MOUNTING DETAILS 1
DATE:	20 FEB 17
SCALE:	1/4" = 1'-0"
DESIGN:	SEASTMA
DRAWN:	SEASTMA
DIM UNITS:	INCHES [MILLIMETERS]
JOB NO:	P2015-01
SHEET:	2
REV:	01
FUNC - TYPE - SIZE:	F - 10 - D
	3574936

PRE-CHECK (PC) DOCUMENT

CODE: 2016 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
Roger T. Allworth, s.e.
9138 s. State Street, Suite 101 (801) 990-1775
Sandy, Utah 84070 (801) 990-1776 FAX

VECTOR ENGINEERS
9138 S. STATE STREET, SUITE 101 (801) 990-1775
SANDY, UTAH 84070 (801) 990-1776 FAX
PROJECT #:01039-607-671

REGISTERED PROFESSIONAL ENGINEER ROGER T. ALLWORTH S3914 STRUCTURAL STATE OF CALIFORNIA

03/08/2017

STRUCTURAL ENGINEER OF RECORD

APPROVALS

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120287 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/09/2020

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

1400 RAIDERS WAY, OXNARD, CA. 93033

CONSULTANT

SEAL

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
03/09/2020

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
PROJECT MANAGER
DESIGN TEAM

PROJECT NAME
CHANNEL ISLANDS HIGH SCHOOL TRACK & FIELD IMPROVEMENTS

PROJECT NO.
6121235305

SHEET TITLE
PC SIGN MOUNTING DETAILS 1

SHEET NUMBER
2

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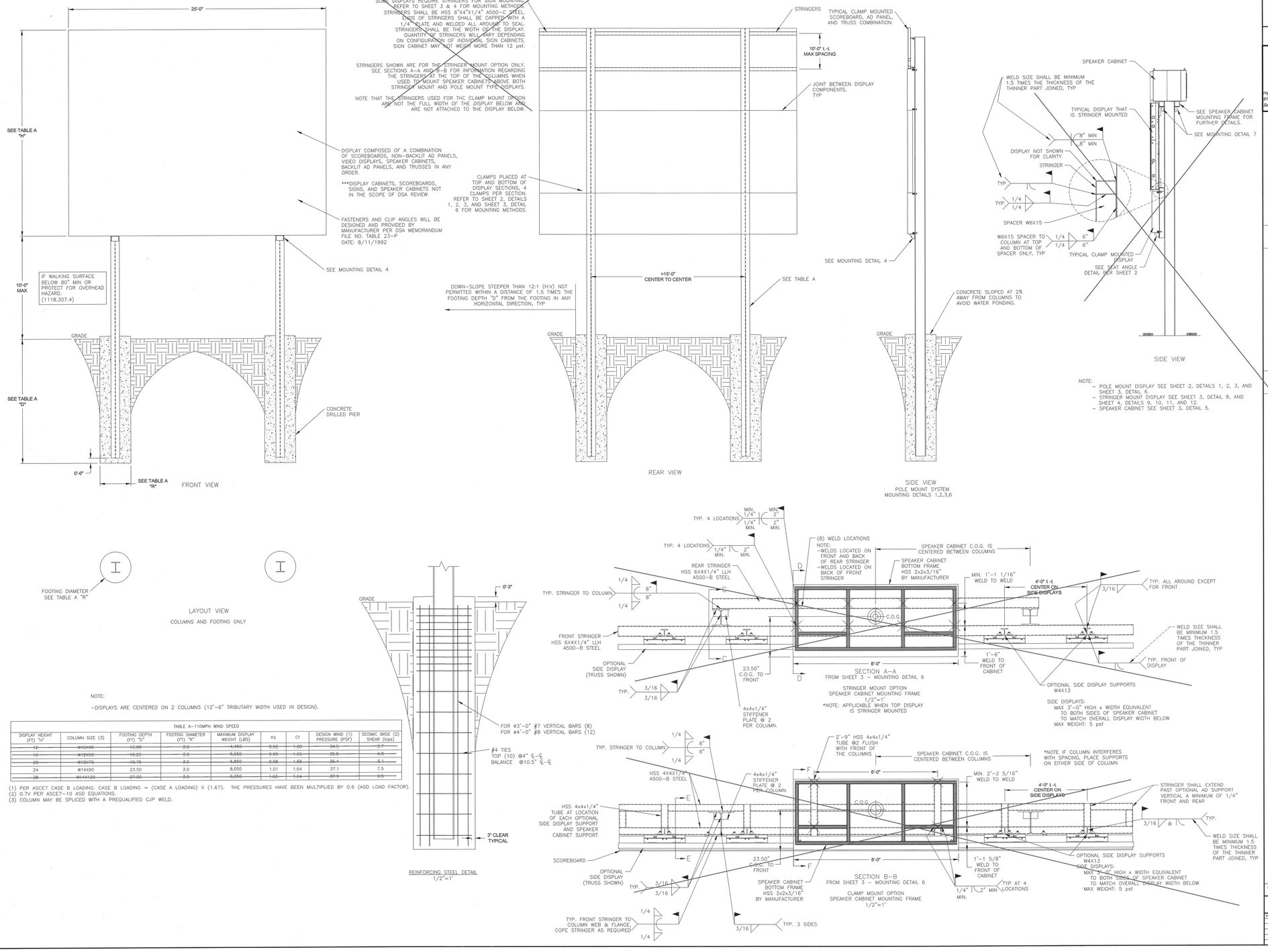

TABLE A-110MPH WIND SPEED								
DISPLAY HEIGHT (FT) "H"	COLUMN SIZE (3)	FOOTING DEPTH (FT) "D"	FOOTING DIAMETER (FT) "R"	MAXIMUM DISPLAY WEIGHT (LBS)	Kz	Cf	DESIGN WIND (1) PRESSURE (PSF)	SEISMIC BASE (2) SHEAR (kips)
12	W10X45	13.00	3.0	4,450	0.92	1.60	34.5	3.7
16	W12X50	16.25	3.0	6,650	0.95	1.66	35.5	4.8
20	W18X76	19.75	3.0	6,850	0.98	1.65	36.4	5.1
24	W14X90	23.50	3.0	8,050	1.01	1.64	37.1	7.5
28	W14X120	27.00	3.0	9,250	1.03	1.64	37.9	9.5

(1) PER ASCE7 CASE B LOADING. CASE B LOADING = (CASE A LOADING) X (1.67). THE PRESSURES HAVE BEEN MULTIPLIED BY 0.6 (ASD LOAD FACTOR).
(2) 0.7V PER ASCE7-10 ASD EQUATIONS.
(3) COLUMN MAY BE SPLICED WITH A PREQUALIFIED CJP WELD.

REINFORCING STEEL DETAIL
1/2"=1'

REV	DATE	REVISED DRAWING PER DSA COMMENTS MADE ON 14 JUL 17.	BY
01	18 OCT 17		SAE

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PROJECT:	2016 DSA PRE-CHECK DRAWINGS		
TITLE:	PC-2, 25'-0" WIDE ELEVATION, 110 MPH WIND SPEED		
DATE:	20 FEB 17	DIM UNITS: INCHES [MILLIMETERS]	SHEET / REV
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	6 / 01
DESIGN:	SEASTMA	JOB NO. [TYPE - SIZE]	
DRAWN:	SEASTMA	P2015-01 F - 10 - D	3574940

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC

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Sandy, Utah 84070 (801) 990-1776 FAX

VECTOR ENGINEERS
9138 S. STATE STREET, SUITE 101 (801) 990-1775
SANDY, UTAH 84070 (801) 990-1776 FAX
PROJECT #:01039-427-173

REGISTERED PROFESSIONAL ENGINEER ROGER T. ALLWORTH S3914 STRUCTURAL STATE OF CALIFORNIA
03/08/2017

STRUCTURAL ENGINEER OF RECORD

APPROVALS

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Code: 2016 CBC
A separate project application for construction is required.

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DIV. OF THE STATE ARCHITECT
04 116017
ACS ☒ FLS ~~☐~~ SS ~~☐~~ DSA
DATE ~~NOV 30 2017~~

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APP. 03-120287 INC:
REVIEWED FOR
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PROJECT MANAGER
DESIGN TEAM

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PROJECT NO.
6121235305

SHEET TITLE
PC-2 25'-0" WIDE ELEVATION 110 MPH WIND SPEED

SHEET NUMBER
6

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