



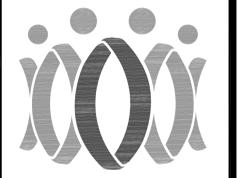
OXNARD UNION HIGH SCHOOL DISTRICT

TRANSPORTATION FACILITY

3400 WEST GONZALES ROAD, OXNARD CA 93036

AGENCY

PTN. - APPL -



FLEWELLING & MOODY
architecture planning interiors

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E-Mail: fm-lancaster@flewelling-moody.com

An Equal Opportunity Employer

ARCHITECT



CONSULTANT

GENERAL NOTES

- CHANGES TO THE APPROVED CONTRACT DOCUMENT DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY WRITTEN CHANGE ORDER. ADDENDA AND CHANGE ORDERS MUST BE REVIEWED AND APPROVED BY THE ARCHITECT AND THE OWNER, PRIOR TO EXECUTION OF THE WORK.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO START OF WORK AND DETERMINE ANY DISCREPANCIES WHICH MAY EXIST BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND ACTUAL FIELD CONDITIONS. NO EXTRA WILL BE ALLOWED DUE TO EXTRA COST ARISING FROM SUCH DISCREPANCIES.
- THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE AND VERIFY ALL EXISTING CONDITIONS AND THE DIMENSIONS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS REQUIRING MODIFICATION OR CHANGE PRIOR TO STARTING WORK.
- IF EXISTING FINISH MATERIAL IS DISTURBED/DAMAGED/REMOVED DURING THE WORK, CONTRACTOR SHALL REPAIR/REPLACE AS NECESSARY TO MATCH EXIST. CONDITIONS. ALL NEW MATERIALS ADDED SHALL MATCH EXIST. IN ALL RESPECTS (FORM, THICKNESS, QUALITY, TEXTURE, COLOR).
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES AND SUBSTRUCTURES WITHIN THE LIMITS OF THE PROJECT WHETHER SHOWN ON THE PLANS OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR WILL BE HELD RESPONSIBLE AND SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES DAMAGED BY HIS OPERATION IN CONNECTION WITH EXECUTION OF THIS WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL DAMAGE ARISING AND/OR CONNECTED WITH DAMAGED TO SAID UTILITIES AND SUBSTRUCTURES AS OUTLINED ABOVE.
- THE EXISTING GRADES AND ELEVATIONS INDICATED WITHIN THE CONSTRUCTION CONTRACT DRAWINGS WERE OBTAINED FROM A COMBINATION OF BY SURVEY PROCEDURES UNIQUE TO THIS CURRENT PROJECT, AS WELL AS BY REFERENCE TO RECORD DRAWING INFORMATION OBTAINED FROM EARLIER PROJECTS. NO EXTRA COMPENSATION WILL BE GRANTED TO THE CONTRACTOR BECAUSE OF ANY DIFFERENCES AND/OR DISCREPANCIES WHICH MAY EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THOSE AS REPRESENTED ON THESE DRAWINGS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN CONTROLLING THE AIR QUALITY AND DUST CONTROL DURING DEMOLITION.
- IN THE EVENT THAT TRENCHES OR EXCAVATIONS 4'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND ARE DETERMINED TO BE NECESSARY, THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND ALL OTHER MEASURES NECESSARY IN ACCORDANCE WITH OSHA REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL TELEPHONE AND DATA CABLES, FREE OF ANY DAMAGE, DURING THE CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL EXISTING TELEPHONE AND DATA WIRING THAT RUNS WITHIN THE PROJECT AREA.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ANY LANDSCAPING, SHRUBS, TURF, TREES, ETC., AND IRRIGATION LINES TO THEIR ORIGINAL CONDITION SHOULD ANY BE DAMAGED OR DISTURBED IN ANY WAY DURING CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR SHALL FURNISH AND INSTALL SIGNS READING: "CONSTRUCTION AREA, CONSTRUCTION PERSONNEL ONLY", OR OTHER TYPE SIGNS DIRECTED BY THE DISTRICT AT ALL ENTRANCES TO THE AREA OF THE CONSTRUCTION WORK.
- THE CONTRACTOR SHALL PROVIDE SECURITY AND GATES, AND SHALL ASCERTAIN THAT ALL CONSTRUCTION ENTRANCES ARE LOCKABLE.
- THE CONTRACTOR SHALL PATCH, REPAIR, AND REFINISH AREAS AFFECTED BY THE RECONSTRUCTION WORK TO MATCH EXISTING ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR), 2019 EDITION.
- THE ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, UNDERPINNING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR THE SATISFACTORY COMPLETION OF WORK. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND THE CONTRACT DOCUMENTS.
- FINAL CLEAN UP AND DISPOSAL: REMOVE DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE DISTRICT PROPERTY TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDERS. UPON COMPLETION OF WORK, ALL CONSTRUCTION AREAS SHALL BE LEFT VACANT CLEAN AND FREE FROM DEBRIS. CLEAN ALL DUST, DIRTY, STAINS, HAND MARKS, PAINT SPOTS, DROPPINGS, AND OTHER BLEMISHES.
- WORK INSTALLED IN CONFLICT WITH CONSTRUCTION DOCUMENTS SHALL BE CORRECTED BY CONTRACTOR AT HIS EXPENSE, AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW, PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED AS BEING EXISTING OR PROVIDED BY OTHERS.
- WHERE GRADES ARE SHOWN ON THE DRAWINGS THEY ARE FINISH GRADES. THE CONTRACTOR SHALL DETERMINE NECESSARY SUBGRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITIONS BETWEEN FINISH GRADES SHOWN. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PLACING OF BASE AND FINISH MATERIALS. ALL UTILITY BOXES SHALL BE ADJUSTED TO SIT FLUSH WITH FINISH GRADES AND SURFACES WHEN COMPLETED.

- THE CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH EACH OTHER AND WITH ALL OTHER TRADES.
- ALL SHOP OR FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDER AND CONTRACTOR SHALL NOTIFY THE OWNER AND INSPECTORS OF RECORD IN ADVANCE (MINIMUM 48 HOURS) SO AS TO ALLOW ADEQUATE TIME TO SCHEDULE SPECIAL INSPECTIONS.
- ALL WORK SPECIFIED OR NOTED IN THE KEY NOTES APPLIES TO THE GENERAL AREA INDICATED, SO THAT A CALL-OUT ON ONE DRAWING MAY ALSO AFFECT OTHER DRAWINGS.
- ITEMS MARKED N.I.C. (NOT IN CONTRACT) ON THE DRAWINGS ARE NOT PART OF THIS CONTRACT. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANNING, COORDINATING, INTERFACING AND MAKING PROVISIONS FOR HIS WORK TO RECEIVE OR TO BE CONSTRUCTED AND INSTALLED IN CONJUNCTION WITH THOSE ITEMS NOTED OR MARKED ON THE DRAWINGS AS BEING "N.I.C."
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PLANNING, COORDINATING, INTERFACING AND MAKING PROVISIONS FOR HIS WORK TO RECEIVE OR TO BE CONSTRUCTED AND INSTALLED IN CONJUNCTION WITH THOSE ITEMS NOTED OR MARKED ON THE DRAWINGS AS BEING FURNISHED, PROVIDED OR INSTALLED "BY OTHERS".
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK OF EQUAL QUALITY.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE SIMILAR TO THAT INDICATED OR NOTED FOR SIMILAR CONDITIONS OF CONSTRUCTION ON THE PROJECT. REFERENCES OF NOTES AND DETAILS TO SPECIFIC CONDITIONS AND LOCATIONS SHALL NOT LIMIT THEIR APPLICABILITY.
- THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS. THE WRITTEN DIMENSIONS INDICATED SHALL TAKE PRECEDENCE AND SHALL BE VERIFIED AT THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR EXISTING DIMENSIONS AND CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS REQUIRING MODIFICATION OR CHANGE PRIOR TO START OF WORK.
- CONTRACTORS SHALL OBTAIN AND PAY FOR ALL PERMITS WHICH RELATE SPECIFICALLY TO THEIR WORK, INCLUDING BUT NOT NECESSARILY LIMITED TO PLUMBING AND ELECTRICAL WORK.
- CONFIGURE ALL HORIZONTAL SURFACES SUCH THAT WATER IS DIRECTED DOWN AND AWAY FROM PROPOSED FUTURE FACES OF BUILDINGS, AT A RATE OF NO LESS THAN 1% AND NO GREATER THAN 2% FOR WALKING SURFACES.
- THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS (CALGreen) CODE (TITLE 24, PART 11 -EFFECTIVE 1 / 1 / 14)
- THE PROVISIONS OF CFC AND CBC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.
- A DSA-CERTIFIED CLASS 1 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR, CLASS 1 RECD.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

APPLICABLE CODES

Part 1	2019 California Building Standards Administrative Code, Title 24 C.C.R.
Part 2	2019 California Building Code, Title 24 C.C.R. (2018 International Building Code of the International Code Council, with California Amendments)
Part 3	2019 California Electrical Code, Title 24 C.C.R. (2016 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4	2019 California Mechanical Code, Title 24 C.C.R. (2018 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5	2019 California Plumbing Code, Title 24 C.C.R. (2018 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6	2019 California Energy Code, Title 24 C.C.R.
Part 8	2019 California Historical Building Code, Title 24 C.C.R.
Part 9	2019 California Fire Code, Title 24 C.C.R. (2018 International Fire Code of the International Code Council)
Part 10	2019 California Existing Building Code, Title 24 C.C.R. (2018 International Existing Building Code of the International Code Council, with amendments)
Part 11	2019 California Green Building Standards Code (CALGreen Code), Title 24 C.C.R.
Part 12	2019 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:

2019 California Building Code (for SFM) Referenced Standards Chapter 35	
NFPA 13 Automatic Sprinkler Systems (California Amended)	2019 Edition
NFPA 14 Standpipe Systems (California Amended)	2019 Edition
NFPA 17 Dry Chemical Extinguishing Systems	2019 Edition
NFPA 17A Wet Chemical Extinguishing Systems	2019 Edition
NFPA 20 Stationary Pumps	2019 Edition
NFPA 24 Private Fire Service Mains (California Amended)	2019 Edition
NFPA 72 National Fire Alarm and Signaling Code (California Amended)	2019 Edition
NFPA 80 Fire Door and Other Opening Protectives	2019 Edition
NFPA 253 Critical Radiant Flux of Floor Covering Systems	2019 Edition
NFPA 2001 Clean Agent Fire Extinguishing Systems (California Amended)	2019 Edition

ABBREVIATIONS

ADD.	ADDITIONAL	GA.	GAUGE
@	AT	G.S.	GALVANIZED STEEL
BTWN.	BETWEEN	H.	HIGH
CL.	CENTERLINE	INFO.	INFORMATION
CLR.	CLEAR	MAX.	MAXIMUM
CONC.	CONCRETE	MIN.	MINIMUM
CONT.	CONTINUOUS	MTL.	METAL
DN.	DOWN	N.I.C.	NOT IN CONTRACT
DR.	DOOR	O.C.	ON CENTER
DWG.	DRAWING	SF	SQUARE FEET
(E)	EXISTING	SHT.	SHEET
EA.	EACH	SL.	SLOPE
ELEC.	ELECTRIC	STD.	STANDARD
EQ.	EQUAL	STL.	STEEL
EQ.	EQUAL	T&B	TOP AND BOTTOM
EXT.	EXTERIOR	TYP.	TYPICAL
F.O.	FACE OF	U.N.O.	UNLESS NOTED OTHERWISE
FIN.	FINISH	W.	WIDE
FLR.	FLOOR	VERT.	VERTICAL
F.O.C.	FACE OF CONCRETE	W.	WIDE
		W/	WITH

DRAWING INDEX

A0.01	TITLE SHEET
ARCHITECTURAL	
A1.01	OVERALL SITE PLAN
A1.03	SITE PLAN, DETAILS
CIVIL	
C1.01	COVER SHEET
C1.02	GENERAL NOTES
C2.01	EROSION CONTROL PLAN
C2.02	EROSION CONTROL DETAILS
C3.01	GRADING, DRAINAGE AND PAVING PLAN
C3.02	GRADING, DRAINAGE AND PAVING PLAN
C3.03	SITE SECTIONS
C4.01	WATER AND SEWER PLAN
C5.01	DETAILS
C6.01	HORIZONTAL CONTROL PLAN
LANDSCAPE	
L1.01	LANDSCAPE PLAN
L2.01	LANDSCAPE DETAILS
PLUMBING	
P1.01	PLUMBING FRONT SHEET
P2.01	PLUMBING SITE PLAN
P2.02	PLUMBING ENLARGED PLAN
P3.01	PLUMBING DETAILS SHEET
ELECTRICAL	
E1.01	ELECTRICAL FRONT SHEET
E1.02	SINGLE LINE DIAGRAM
E1.03	PANEL SCHEDULE
E2.01	ELECTRICAL SITE PLAN
E2.02	ELECTRICAL ENLARGED PLAN
E2.03	ELECTRICAL ENLARGED PLAN
E2.04	ELECTRICAL ENLARGED PLAN
E3.01	ELECTRICAL DETAILS SHEET
E3.02	ELECTRICAL DETAILS SHEET
E4.01	ELECTRICAL PHOTOMETRIC SITE PLAN
E5.01	T-24 CALCULATIONS
E6.01	EQ. SPECS
E6.02	EQ. SPECS

PROJECT DESCRIPTION

BUS AND FLEET VEHICLE. ELECTRIC CHARGING STATIONS, SITE LIGHTING, A.C. PAVEMENT, CHAIN LINK FENCING, GATES, BELOW GRADE INFRASTRUCTURE UTILITIES TO SERVE FUTURE BUILDINGS, DETENTION BASIN, LANDSCAPING AND IRRIGATION. ALTHOUGH PLANNED FOR THE FUTURE, THIS PROJECT INCLUDES NO BUILDINGS.

GEOTECHNICAL REPORTS

THE FOLLOWING GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT SITE:

1. FINAL STRUCTURAL PAVING SECTIONS REPORT, FOR OXNARD UNION HIGH SCHOOL DISTRICT TRANSPORTATION CENTER, OXNARD HIGH SCHOOL, OXNARD, CALIFORNIA, BY EARTH SYSTEMS, 1731 WALTER STREET, SUITE A, VENTURA, CALIFORNIA 93003. PROJECT NO. 200372-001. REPORT NO. 20-5-24. DATED MAY 12, 2020.

IT IS THE RESPONSIBILITY OF ALL CONTRACTORS BIDDING AND PERFORMING CONSTRUCTION WORK ON THIS PROJECT TO OBTAIN COPIES OF THIS REPORT DIRECTLY FROM THE DISTRICT (OWNER'S AUTHORIZED REPRESENTATIVE), AND TO FAMILIARIZE THEMSELVES THOROUGHLY WITH THE CONTENTS OF SUCH REPORT AND TO TAKE THE REQUIREMENTS OF SUCH REPORT INTO ACCOUNT, PRIOR TO BIDDING OR PERFORMING WORK OF ANY KIND ON THIS PROJECT.

HAZARDOUS MATERIALS

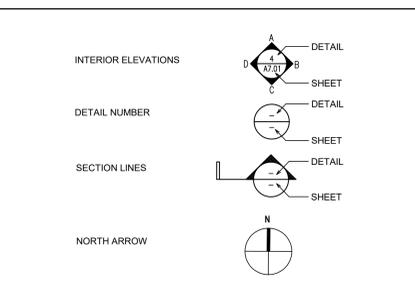
THE OWNER IS RESPONSIBLE FOR ALL HAZARDOUS MATERIAL TESTING, ABATEMENT AND HANDLING. ANY REPORT PREPARED BY A SEPARATE CONSULTANT TO PERFORM INITIAL TESTING, ANALYSIS, IDENTIFICATION AND TO DEVELOP A FULL AND THOROUGH REPORT OF THEIR FINDINGS INCLUDING METHODS AND MEANS FOR THE ABATEMENT, ENCAPSULATION OR OTHER PROTECTIVE MEASURES REQUIRED BY ALL GOVERNING LAWS AND REGULATIONS, IS NOT A PART OF THE ARCHITECT'S SCOPE OF WORK OR THE ARCHITECT'S SERVICES. THE ARCHITECT HAS NO PART IN THE PREPARATION OF THE OWNER'S CONSULTANT REPORT AND ASSUMES NO LIABILITY FOR ANY WORK OF THE OWNER'S CONSULTANT, REPORTS, RECOMMENDATIONS, ABATEMENT CONTRACTORS' WORK OR ANY OTHER WORK IN CONNECTION WITH SAID HAZARDOUS MATERIALS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH OWNER WHETHER ANY HAZARDOUS MATERIALS INVESTIGATION REPORTS) EXIST, AND IF SO, SHALL REVIEW SUCH REPORTS) THOROUGHLY AND VISIT THE JOB SITE TO ENSURE TO HIM/HERSELF THAT THE WORK AREA IS FREE OF HAZARDOUS MATERIALS TO THE BEST OF HIS KNOWLEDGE, PRIOR TO BIDDING OR PROCEEDING WITH THE WORK OF THIS PROJECT.

IF THE CONTRACTOR ENCOUNTERS ADDITIONAL SUSPECTED FRAGILE ASBESTOS OR OTHER HAZARDOUS MATERIALS IS ENCOUNTERED DURING CONSTRUCTION IN AREAS WHERE CONTRACTOR IS REQUIRED TO WORK, THE CONTRACTOR SHALL STOP WORK IN SUCH AREAS AND NOTIFY THE OWNER AND THE ARCHITECT. THE MATERIAL WILL BE INSPECTED AND, IF NECESSARY TESTED, BY A LICENSED SPECIALIST SELECTED AND PAID BY THE OWNER. IF THE MATERIAL IS FOUND TO BE A HAZARDOUS MATERIAL, WHICH IS REQUIRED TO BE REMOVED OR ENCAPSULATED, THE OWNER WILL PROVIDE FOR ITS REMOVAL OR ENCAPSULATION WITHOUT DELAY AT OWNER'S EXPENSE. AFTER TREATMENT, THE OWNER'S SPECIALIST WILL CERTIFY THAT THE HAZARDOUS MATERIAL HAS BEEN REMOVED OR CONTROLLED TO WITHIN LEGAL LIMITS AND THE CONTRACTOR WILL BE NOTIFIED TO PROCEED WITH CONSTRUCTION IN WRITING BY THE OWNER.

PROJECT TEAM

<p>OWNER</p> <p>OXNARD UNION HIGH SCHOOL DISTRICT 309 South K Street Oxnard, CA 93030 TEL: (805) 385-2500</p> <p>Contact: Paul Hanson BOND PROJECT MANAGER Email: paulhanson@oxnardunion.org</p>	<p>CIVIL ENGINEER</p> <p>ENCOMPASS CONSULTANT GROUP 25115 Stanford Avenue, suite A320 Santa Clarita, CA 91355 TEL: (661) 800-9367</p> <p>Contact: Josiah Jenison Email: josiah.jenison@ecggroup.com</p>
<p>LANDSCAPE ARCHITECT</p> <p>OASIS ASSOCIATES 3427 Miguelito Court San Luis Obispo, CA 93401 TEL: (805) 541-4509</p> <p>Contact: Michael Cripe Email: michael@oasisassoc.com</p>	<p>PLUMBING ENGINEER</p> <p>BUDLONG & ASSOCIATES, INC. 315 Arden Avenue, suite 23 Glendale, CA 91203 TEL: (818) 638-8780</p> <p>Contact: Patrick Fitzsimmons Email: patrick@budlong.com</p>
	<p>ELECTRICAL ENGINEER</p> <p>BUDLONG & ASSOCIATES, INC. 315 Arden Avenue, suite 23 Glendale, CA 91203 TEL: (818) 638-8780</p> <p>Contact: Patrick Fitzsimmons Email: patrick@budlong.com</p>

SYMBOLS



VICINITY MAP



ELECTRICAL

E1.01	ELECTRICAL FRONT SHEET
E1.02	SINGLE LINE DIAGRAM
E1.03	PANEL SCHEDULE
E2.01	ELECTRICAL SITE PLAN
E2.02	ELECTRICAL ENLARGED PLAN
E2.03	ELECTRICAL ENLARGED PLAN
E2.04	ELECTRICAL ENLARGED PLAN
E3.01	ELECTRICAL DETAILS SHEET
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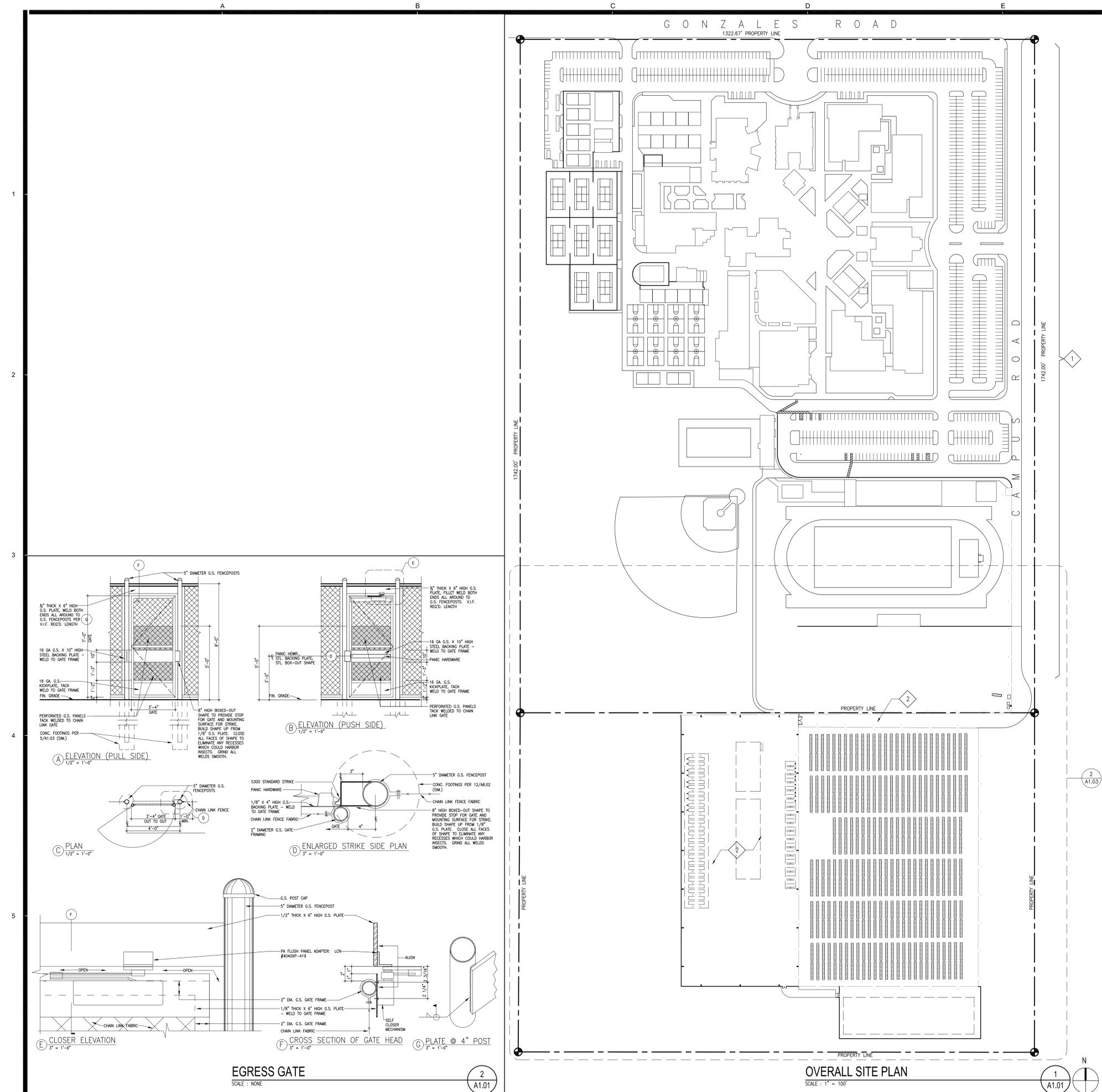
TITLE SHEET

3400 W GONZALES RD,
OXNARD, CA 93036

2855.0000

A0.01

32 SHEETS TOTAL



KEY NOTES

- NOTE: ALL ITEMS LISTED BELOW ARE NEW, UNLESS NOTED OTHERWISE AS (E), WHICH MEANS EXISTING
- 1 (E) CAMPUS ROAD, REMOVE (E) PAVING AS NECESSARY TO CONNECT UTILITIES FROM THE PROJECT AREA TO UTILITY MAIN LINES IN GONZALES ROAD. PATCH, REPAIR AND REPLACE PAVING TO MATCH EXISTING ADJACENT CONDITIONS. SMOOTHLY BLEND NEW PAVING TO (E) PAVING, WITH NO VERTICAL OFFSETS OR GAPS BETWEEN NEW AND (E). ENSURE THAT THE FINAL COMPLETED ROAD (BOTH NEW AND (E) SECTIONS) IS SLOPED TO ACHIEVE POSITIVE DRAINAGE TOWARD NON-ERODIBLE DEVICES, AND SO THAT DEAD SPOTS WHICH COULD RESULT IN PONDING ARE COMPLETELY AVOIDED, OR IF EXISTING, ARE CORRECTED.
 - 2 NEW A.C. PAVING IN AREA OF FUTURE TRANSPORTATION FACILITY, AND ACCESS ROAD CONNECTING CAMPUS ROAD TO TRANSPORTATION FACILITY AREA. PROVIDE ASPHALT CONCRETE PAVEMENT CAPABLE OF SUPPORTING 75,000 LB. VEHICLE LOAD WITH MINIMUM 13'-6" VERTICAL CLEARANCE.

AGENCY

FLEWELLING & MOODY
architecture planning interiors

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An Employee Owned Corporation

ARCHITECT

CONTRACT

Drawn by: ES

Checked by: ES

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION H.S. DISTRICT

OXNARD HIGH SCHOOL
TRANSPORTATION FACILITY

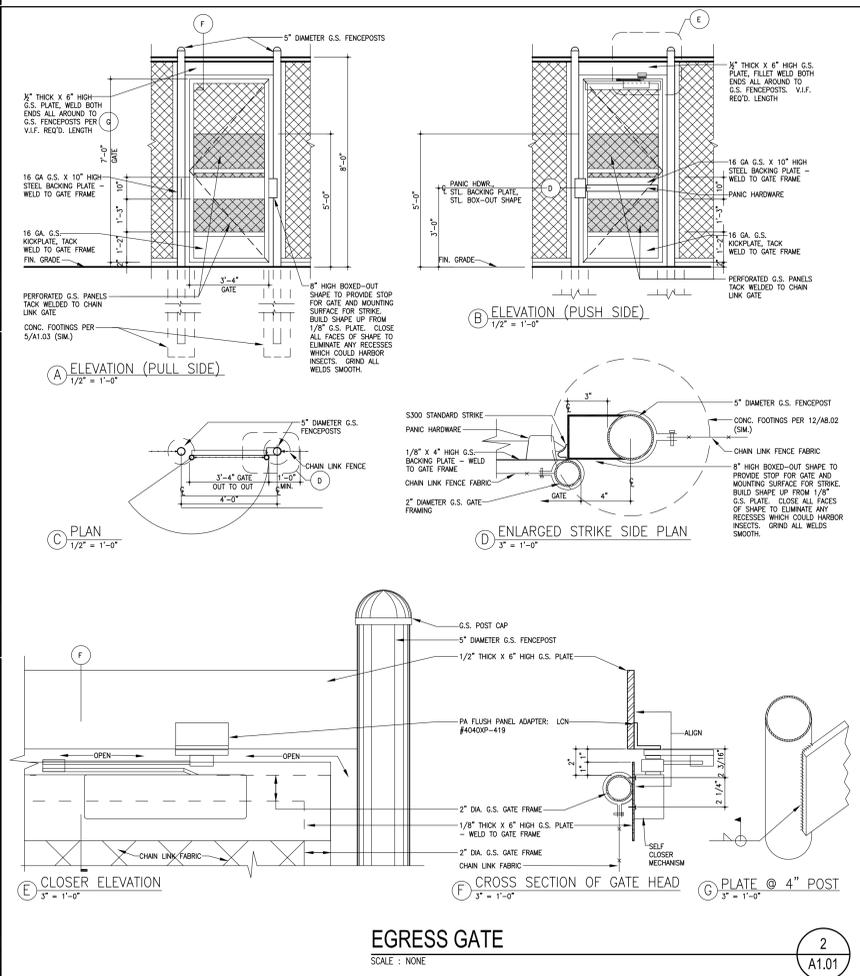
3400 W GONZALES RD,
OXNARD, CA 93036

OVERALL SITE PLAN

Job No. 2855.0000

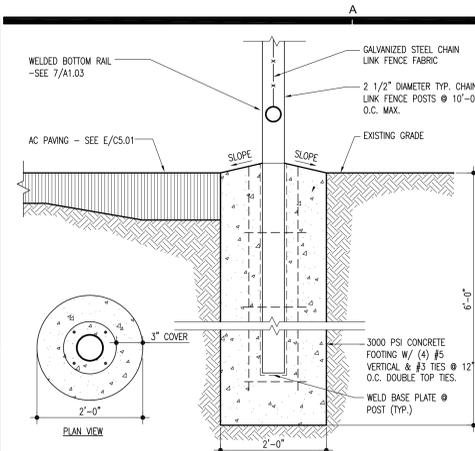
Date

A1.01

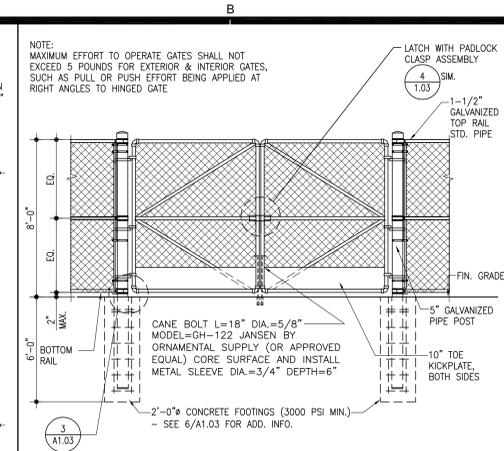


EGRESS GATE
SCALE: NONE

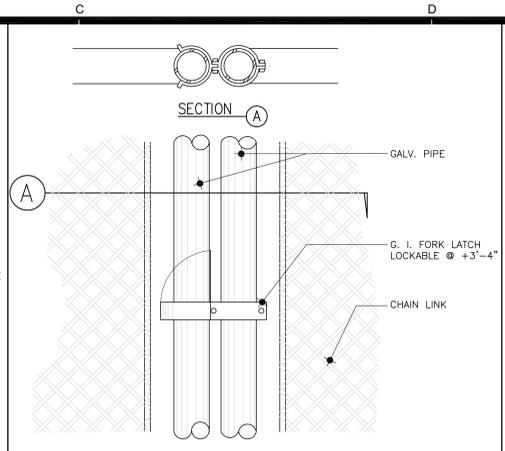
OVERALL SITE PLAN
SCALE: 1" = 100'



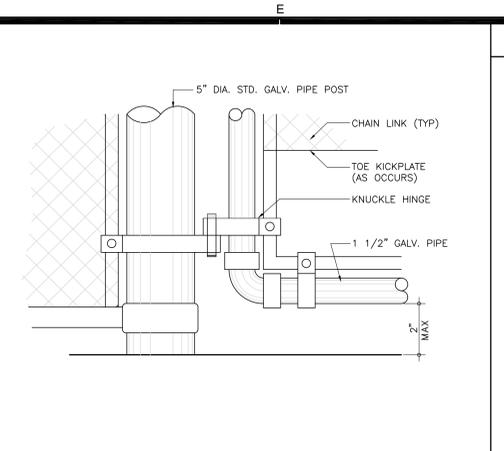
TYP. FENCE POST FOOTING
SCALE: 1 1/2"=1'-0"
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -



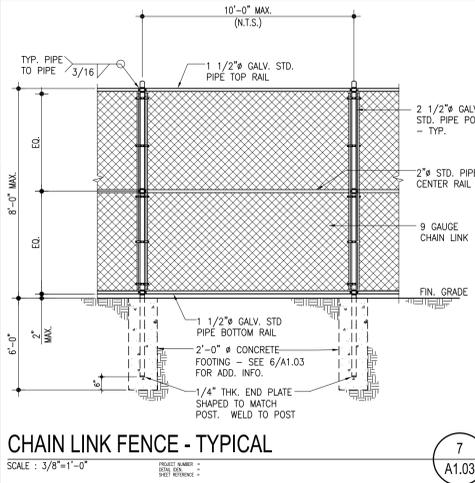
DOUBLE CHAIN LINK GATE
SCALE: 3/8"=1'-0"
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -



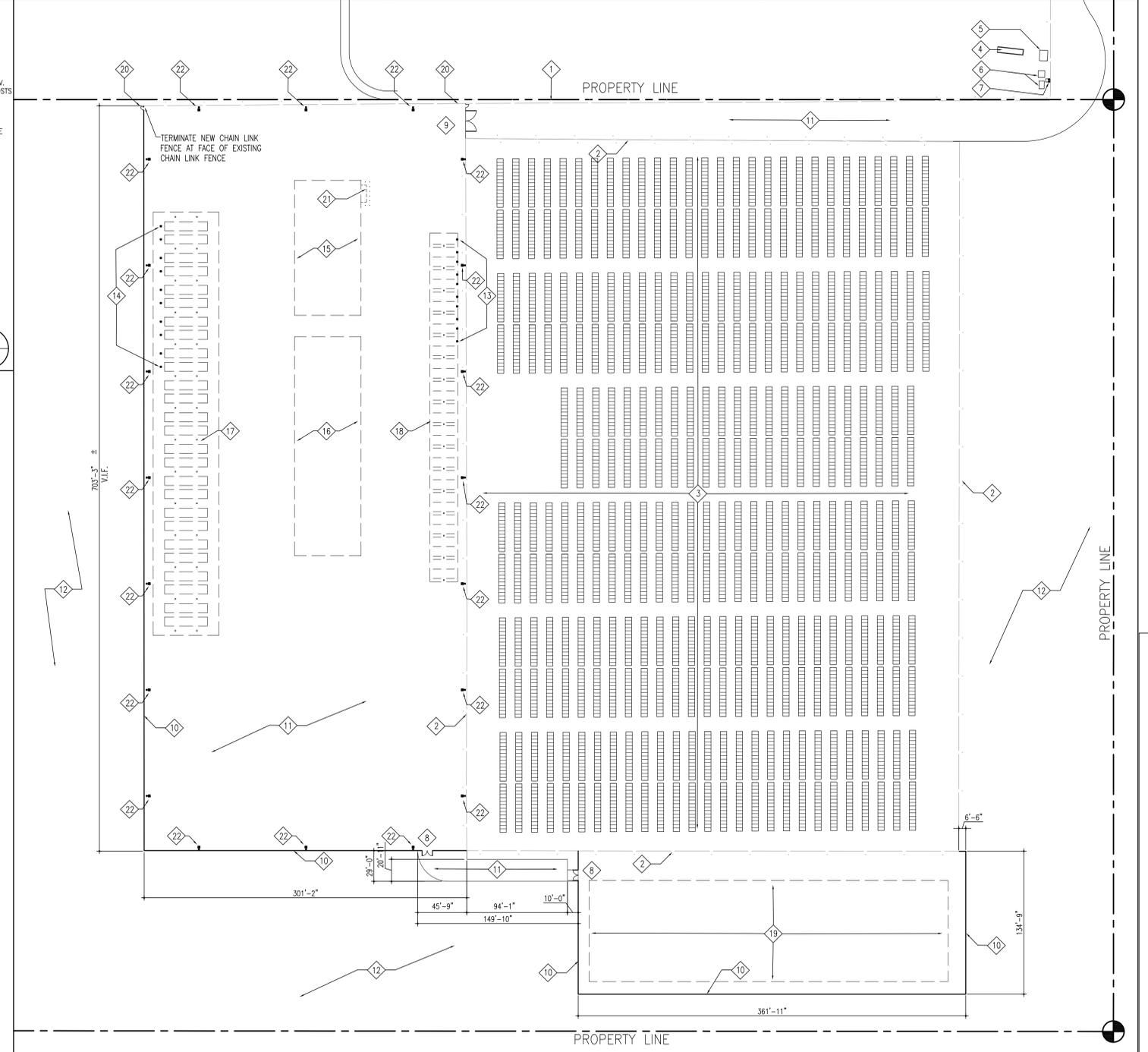
GALV. LATCH
SCALE: N.T.S.
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -



GALV. SWING GATE
SCALE: N.T.S.
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -



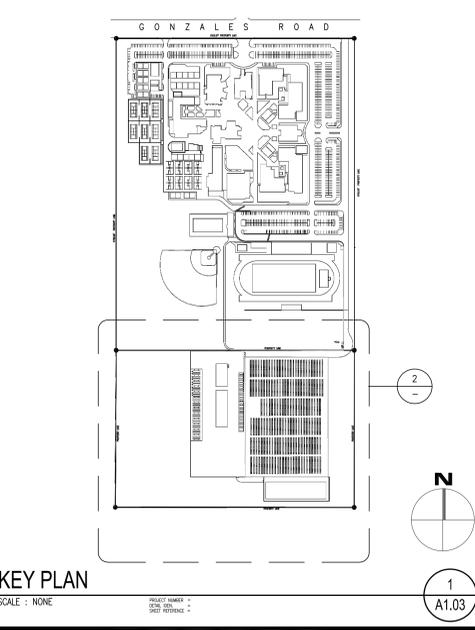
CHAIN LINK FENCE - TYPICAL
SCALE: 3/8"=1'-0"
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -



SITE PLAN
SCALE: 1"=50'
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -

KEY NOTES

- NOTE: ALL ITEMS LISTED BELOW ARE NEW, UNLESS NOTED OTHERWISE AS (E), WHICH MEANS EXISTING
- 1 (E) CHAIN LINK FENCE
 - 2 (E) METAL MESH FENCING
 - 3 (E) GROUND-MOUNTED PHOTOVOLTAIC PANELS
 - 4 (E) CONCRETE DRAINAGE STRUCTURE
 - 5 (E) CONCRETE PAD
 - 6 (E) CONCRETE PAD WITH VAULTS FOR SEWER LIFT STATION
 - 7 (E) CONCRETE PAD AND CABINET FOR SEWER LIFT STATION
 - 8 PAIR OF 8'-0" HIGH X 5'-0" WIDE CHAIN LINK GATES (10' TOTAL OPENING) - SEE 3/A1.03, 4/A1.03 AND 5/A1.03 FOR ADD. INFO.
 - 9 PAIR OF 8'-0" HIGH X 10'-0" WIDE CHAIN LINK GATES (20' TOTAL OPENING) - SEE 3/A1.03, 4/A1.03 AND 5/A1.03 FOR ADD. INFO.
 - 10 8'-0" HIGH CHAIN LINK FENCE - SEE 6/A1.03 AND 7/A1.03 FOR ADD. INFO.
 - 11 A.C. PAVING
 - 12 (E) OVERGROWN WEEDS/AGRICULTURE
 - 13 PROVIDE BELOW-GRADE CONDUIT TO ELECTRIC VEHICLE CHARGING STATIONS AT THESE (10) LOCATIONS FOR FUTURE FLEET VEHICLE PARKING. VERIFY ALL REQUIRED DIMENSIONS, CONDITIONS AND ALL ASPECTS OF CONSTRUCTION RELATED TO THESE CHARGING STATIONS WITH SOUTHERN CALIFORNIA EDISON AND WITH THE OXNARD UNION HIGH SCHOOL DISTRICT, PRIOR TO BIDDING OR PERFORMING WORK OF ANY KIND ON THIS ASPECT OF THIS PROJECT. FOR ADD. INFO., SEE 2/E3.02.
 - 14 PROVIDE BELOW-GRADE CONDUIT TO ELECTRIC VEHICLE CHARGING STATIONS AT THESE (10) LOCATIONS FOR FUTURE SCHOOL BUS PARKING. VERIFY ALL REQUIRED DIMENSIONS, CONDITIONS AND ALL ASPECTS OF CONSTRUCTION RELATED TO THESE CHARGING STATIONS WITH SOUTHERN CALIFORNIA EDISON AND WITH THE OXNARD UNION HIGH SCHOOL DISTRICT, PRIOR TO BIDDING OR PERFORMING WORK OF ANY KIND ON THIS ASPECT OF THIS PROJECT. FOR ADD. INFO., SEE 2/E3.02.
 - 15 FUTURE WAREHOUSE (DOTTED)(SIZE AND LOCATION APPROXIMATE - FOR ILLUSTRATION ONLY)
 - 16 FUTURE ADMINISTRATION/SHOPS BUILDING (DOTTED)(SIZE AND LOCATION APPROXIMATE - FOR ILLUSTRATION ONLY)
 - 17 FUTURE SCHOOL BUS PARKING CANOPY (DOTTED)(SIZE AND LOCATION APPROXIMATE - FOR ILLUSTRATION ONLY)
 - 18 FUTURE FLEET VEHICLE PARKING CANOPY (DOTTED)(SIZE AND LOCATION APPROXIMATE - FOR ILLUSTRATION ONLY)
 - 19 DETENTION BASIN. FOR ADDITIONAL INFORMATION, SEE SHEETS C2.01, C3.02 AND C3.03
 - 20 EGRESS GATE. FOR ADDITIONAL INFORMATION, SEE 2/A1.01
 - 21 FUTURE CONCRETE PAD AND BOLLARDS FOR ELECTRICAL SWITCHGEAR (DOTTED)(SIZE AND LOCATION APPROXIMATE - FOR ILLUSTRATION ONLY)
 - 22 POLE LIGHT FIXTURE. FOR ADD. INFO., SEE SHEETS E2.01 AND 3/E3.02



KEY PLAN
SCALE: NONE
PROJECT NUMBER: 2855-0000
SHEET NUMBER: A1.03
SHEET REFERENCE: -

AGENCY

PTN: _____ APPL: _____

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No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION H.S. DISTRICT

OXNARD HIGH SCHOOL TRANSPORTATION FACILITY

3400 W GONZALES RD.
OXNARD, CA 93036

SITE PLAN, DETAILS

Job No. 2855.0000
Date _____

A1.03

CIVIL IMPROVEMENTS FOR A NEW ASPHALT PAVING BUS PARKING AREA AT OXNARD HIGH SCHOOL IN THE COUNTY OF VENTURA, CA

SURVEY NOTES

1. MAPPING

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY ENCOMPASS CONSULTANT GROUP FROM AERIAL PHOTOGRAPHY DATED JANUARY 28, 2020.

MAPPING IS SUPPLEMENTED BY DATA COLLECTED FROM A FIELD SURVEY USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN JANUARY AND FEBRUARY 2020, AT THE REQUEST OF FLEWELLING AND MOODY.

AERIAL PHOTOGRAPHY

THE AERIAL PHOTOGRAPHY USED AS THE BACKGROUND FOR THIS MAP WAS OBTAINED ON JANUARY 28, 2020 BY ENCOMPASS CONSULTANT GROUP. THE PHOTOGRAPHY HAS BEEN CONVERTED INTO A DIGITAL FORMAT AND CORRECTED FOR HORIZONTAL AND VERTICAL DISTORTION.

2. BASIS OF BEARINGS AND COORDINATES

THE BASIS OF BEARINGS AND COORDINATES FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) AND/OR CONTINUOUS OPERATING REFERENCE STATIONS (CORS) CSCI & OVL5 BEING NORTH 27°39'18" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

3. ELEVATIONS

THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), PER GPS TIES & GEOID MODELING (GEOID12B) TO CGPS STATION CSCI. ELLIPSOID HEIGHTS ARE CONSTRAINED PER CSRC. NO COUNTY BENCHMARKS WERE MEASURED IN THIS SURVEY.

4. UTILITIES

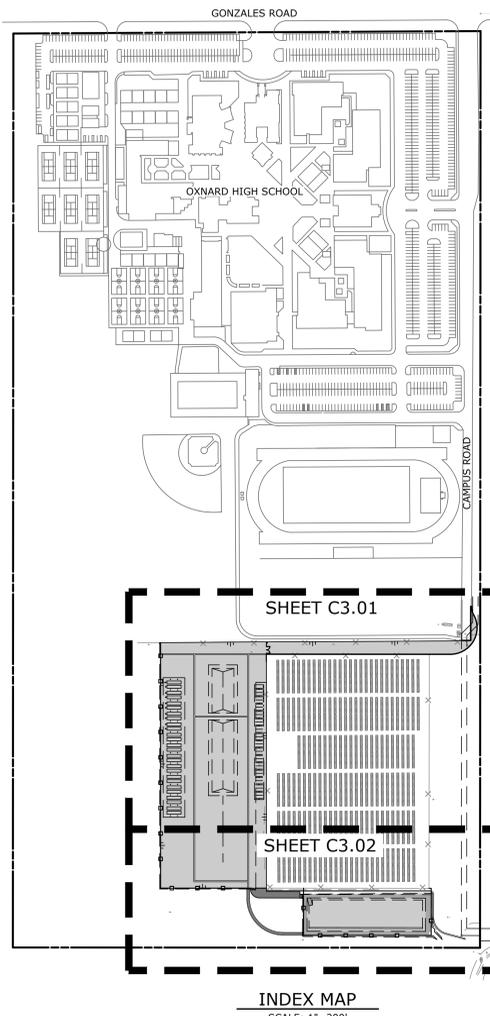
SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.

CONTROL POINT TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902638.35	6195182.81	43.88	SET 60D MAG
2	1902649.46	6194804.10	43.01	SET 60D MAG
3	1902631.73	6194572.41	42.67	SET 60D MAG
4	1901756.44	6195198.88	41.69	SET 60D MAG
5	1901806.68	6194699.96	40.19	SET 60D MAG
10	1902694.33	6195160.44	43.99	SET SCRIBED X PANEL
11	1902200.12	6195077.21	40.21	SET 60D MAG
14	1902659.32	6194281.48	42.83	SET 60D MAG
15	1902309.31	6194587.24	41.30	SET 60D MAG
16	1901862.52	6195111.10	38.86	SET 60D MAG
17	1901894.24	6194325.53	40.72	SET 60D MAG
200	1904441.75	6195259.31	51.09	FND 2.5IN BC WELL MON
201	1904506.07	6191290.85	38.74	FND 2.5IN BC WELL MON

LEGEND

	SAWCUT LINE
	PROPOSED MAJOR CONTOURS
	PROPOSED MINOR CONTOURS
	PROPOSED FLOWLINE
	PROPOSED STORM DRAIN
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED GRADE BREAK
	PROPOSED FENCE
	EXISTING RIGHT OF WAY/PROPERTY LINE
	EXISTING CENTERLINE
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING INTERMEDIATE CONTOURS
	EXISTING INDEX CONTOURS
	EXISTING EDGE OF ASPHALT PAVEMENT
	EXISTING OVER HEAD WIRE
	EXISTING ELECTRICAL LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING STORM DRAIN LINE
	EXISTING FIREWATER LINE
	EXISTING SEWER LINE
	EXISTING COMMUNICATION LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED GRADE
	PROPOSED AC PAVING (TI=8.2)
	PROPOSED AC PAVING (TI=4)
	PROPOSED LANDSCAPE AREA
	PROPOSED CLASS II AGGREGATE BASE



SHEET INDEX

C1.01	COVER SHEET
C1.02	GENERAL NOTES
C2.01	EROSION CONTROL PLAN
C2.02	EROSION CONTROL DETAILS
C3.01	GRADING, DRAINAGE AND PAVING PLAN
C3.02	GRADING, DRAINAGE AND PAVING PLAN
C3.03	SITE SECTIONS
C4.01	WATER AND SEWER PLAN
C5.01	DETAILS
C6.01	HORIZONTAL CONTROL PLAN

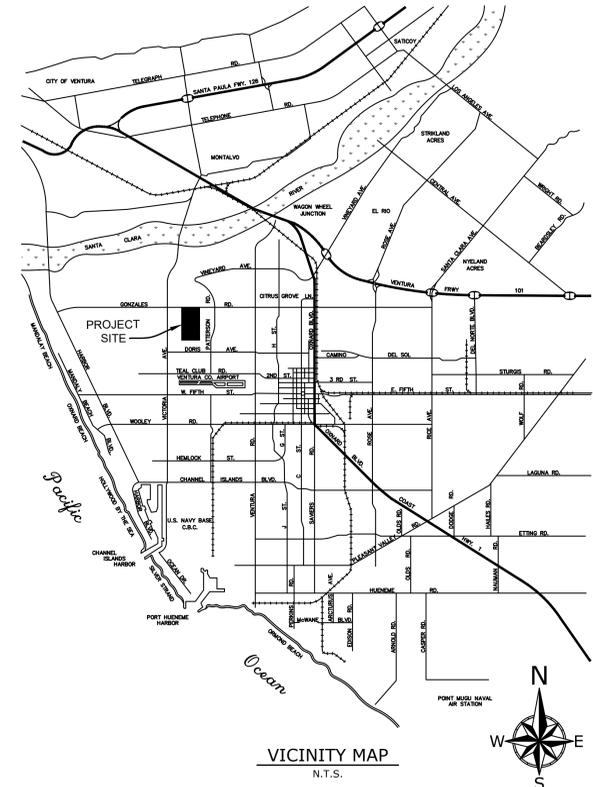
ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES 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 POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

JOSIAH D. JENISON
R.C.E. DATE

77454 7-14-2020
DATE



ABBREVIATIONS

ABBR	ABBREVIATION	FG	FINISH GRADE	R.O.W.	RIGHT OF WAY
A.C.	ASPHALT CONCRETE	FL	FLOWLINE	RPD	RESIDENTIAL PLANNED DEVELOPMENT
A.C.P.	ASBESTOS CONCRETE PIPE	FS	FINISHED SURFACE	RT	RIGHT
AP	ANGLE POINT	FT/S	FEET PER SECOND	R/W	RECLAIMED WATER
ARCH.	ARCHITECT	GB	GRADE BREAK	R/W	RIGHT OF WAY
ASSOC.	ASSOCIATION	GF	GARAGE FLOOR	SCE	SOUTHERN CALIFORNIA Edison
AVE	AVENUE	GM	GAS METER	SCO	SEWER CLEAN OUT
BC	BEGIN CURVE	G.P.	GRADING PERMIT	SD	STORM DRAIN
BCR	BEGIN CURB RETURN	GV	GAS VALVE	SDMH	STORM DRAIN MANHOLE
BDY.	BOUNDARY	HGL	HYDRAULIC GRADE LINE	SDR	STANDARD DIMENSION RATIO
BEG	BEGIN	HOA	HOME OWNERS ASSOCIATION	S.E.	SAND EQUIVALENT
BFP	BACKFLOW PREVENTER	HP	HIGH POINT	SF	SQUARE FOOT/FEET
BLDG	BUILDING	HPS	HIGH PRESSURE SODIUM	SHT	SHEET
BS	BOTTOM OF STEP	HW	HEADWALL	SHTS	SHEETS
BVC	BEGIN VERTICAL CURVE	ICP	INTERLOCKING CONCRETE PAVERS	S.L.	SEWER LATERAL
BW	BACK OF WALK OR BOTTOM OF WALL	ICV	IRRIGATION CONTROL VALVE	SLDS	STANDARD LAND DEVELOPMENT SPECIFICATIONS
CB	CATCH BASIN	INT.	INTERSECTION	S'LY	SOUTHERLY
CB	CALIFORNIA BUILDING CODE	INT.	INVERT	SMH	SEWER MANHOLE
C-C	CENTER TO CENTER	IR	IRRIGATION	S.N.S.	STREET NAME SIGN
CF	CURB FACE	LAT	LATERAL	SPPWC	STANDARD PLANS FOR CONSTRUCTION
CFS	CUBIC FEET PER SECOND	LDH	LAND DEVELOPMENT MANUAL	SS	SANITARY SEWER
CL	CENTERLINE OR CLASS	LDSP	LANDSCAPE	SSPWC	STANDARD SPECIFICATIONS FOR CONSTRUCTION
CLF	CHAIN LINK FENCE	LF	LINEAR FEET	ST	STREET
CLR	CLEAR	LN	LANE	STD	STANDARD
CMB	CRUSHED	LP	LOW POINT	SW	SIDEWALK
CMU	CONCRETE MASONRY UNIT	LT	LEFT	SWCT	SAWCUT
CO	CLEANOUT	LT	LEFT	TC	TOP OF CURB
CONC	CONCRETE	MAX	MAXIMUM	TEL	TELEPHONE
CONT	CONTROL	MH	MANHOLE	TI	TOP OF FOOTING
CPS	CONNECTOR PIPE	MIN	MINIMUM	TMH	TELEPHONE MANHOLE
CT	COURT	MOC	MIDDLE OF CURVE	TOE	TOE OF SLOPE
DBL	DOUBLE	N'L	NORTHERLY	TOP	TOP OF SLOPE OR PIPE
DES	DESIGN	NO.	NUMBER	TP	TYPICAL
DG	DECOMPOSED GRANITE	N.T.S.	NOT TO SCALE	UG	UNDERGROUND
DI	DROP INLET	O.C.	ON CURB OR ON CURVE OR ON CENTER	VAR	VARIES
D.I.	DUCTILE IRON DIAMETER	OHW	OVERHEAD WIRE	V.C.	VERTICAL CURVE
DIA	DIAMETER	PB	PULL BOX	VERT.	VERTICAL
DR	DRIVE	P.C.C.	PORTLAND CEMENT CONCRETE OR POINT OF CURVE	VLT	VAULT
DWG	DRAWING	P.I.	POINT OF INTERSECTION	VLV	VALVE
EASE	EASEMENT	P/L	PROPERTY LINE	W	WATER
EASE	EASEMENT	PMB	PROCESSED MISC. BASE	W'LY	WESTERLY
EBAA	EBAA IRON, INC.	POC	POINT OF CONNECTION	WM	WATER METER
EG	END CURVE	POC	POINT OF CONNECTION	WSEL	ELEVATION
ECR	END CURB RETURN	PRC	POINT OF REVERSE	WV	WATER VALVE
EG	EXISTING GROUND	PT	CURVE	W.W.M.	WELDED WIRE MESH
ELEC	ELECTRIC	PTDF	PRESSURE TREATED DOUGLAS FIR	YR	YEAR
ELEV	ELEVATION	PUB	PUBLIC		
E'LY	EASTERLY	PVC	POLYVINYL CHLORIDE		
ELLIP	ELLIPTICAL	PVMT	PAVEMENT		
EP	EDGE OF PAVEMENT	PRV	PRIVATE		
ESMT	EASEMENT	RCB	REINFORCED CONCRETE BOX		
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE		
EQ	EQUIVALENT FEDERAL	RET	RETAINING		
FF	FINISHED FLOOR	RWGV	RESILIENT WEDGE GATE VALVE		

AGENCY

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C1.01

GENERAL NOTES

- 1. CONTRACTOR SHALL REVIEW GRADING AND DRAINAGE AND UTILITY PLANS; AND PROTECT ALL EXISTING FACILITIES TO REMAIN. ADJUST ALL UTILITY SURFACE FEATURES TO FINAL GRADES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND EXISTING ROOTS SYSTEMS WITHIN THE PROJECT AREA TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING BUILDINGS AND HYDRANTS THROUGHOUT CONSTRUCTION AND COORDINATE ANY SHUT DOWNS WITH THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY FOR PROJECT DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING FACILITIES AND FEATURES WITHIN THE PROJECT LIMIT WHICH ARE REQUIRED FOR THE PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES THAT ARE TO REMAIN IN PLACE AND PROMPTLY REPAIR ANY DAMAGES CAUSED BY DEMOLITION AND CONSTRUCTION AT ITS OWN EXPENSE. ALL EXISTING UTILITIES WITHIN THE BUILDING FOOTPRINT SHALL BE CAPPED AT THE NEAREST TEE, VALVE, OR MANHOLE. CONTRACTOR SHALL REMOVE ALL DEMOLITION/WASTE MATERIALS FROM THE PROJECT SITE AND LEGALLY DISPOSE OF THEM AT A DUMP SITE OFF-CAMPUS.
6. REVIEW LANDSCAPE PLANS FOR IRRIGATION DESIGN TO REMOVE EXISTING IRRIGATION SYSTEM IN CONFLICT WITH CONSTRUCTION, AND CONSTRUCT NEW FACILITIES.
7. CONTRACTOR SHALL CONSTRUCT EROSION CONTROL DEVICES PER PROJECT EROSION CONTROL PLANS AND AS REQUIRED FOR SITE CONDITIONS. NO SILT AND DEBRIS SHALL BE ALLOWED TO DEPART FROM THE CONSTRUCTION LIMITS OR ENTER THE STORM DRAIN SYSTEM.
8. CONTRACTOR SHALL PREPARE AND PROVIDE ALL CONSTRUCTION STAKING FOR THE CONSTRUCTION OF THIS PROJECT.
9. CONTRACTOR SHALL USE PROVIDED COORDINATES TO INITIALLY LOCATE THE BUILDINGS AND CONSTRUCT THE BUILDINGS PER THE ARCHITECTURAL PLANS. THE AUTOCAD DRAWING FILES MAY BE PROVIDED TO THE CONTRACTOR FOR STAKING PURPOSES DURING CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE A SUITABLE STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL ACCESS POINTS FROM THE JOB SITE TO PREVENT TRACKING OF MUD ONTO CAMPUS AND PUBLIC ROADS. ADDITIONALLY PROVIDE SWEEPER SERVICE ON THE FREQUENCY NECESSARY TO MITIGATE UNDESIRABLE CONDITIONS, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL SUBMIT A DRAWING OF THE PROPOSED STAGING AREA AND CONSTRUCTION FENCING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. CONSTRUCTION STAGING SHALL NOT BLOCK FIRE ENGINE ACCESS OR EXISTING FIRE HYDRANTS.

GENERAL DEMOLITION NOTES

- 1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES, UTILITIES, AND ALL OTHER MATERIAL FROM THE PROJECT SITE.
2. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
4. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN.
6. ALL EXISTING LANDSCAPE INSIDE THE LIMITS OF WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL SURFACE FEATURES FOR EXISTING UNDERGROUND UTILITIES SHALL REMAIN AND BE ADJUSTED TO MATCH NEW FINISH GRADE - UNLESS OTHERWISE NOTED.
8. SAWCUT EXISTING PAVEMENT FULL DEPTH TO A CLEAN STRAIGHT EDGE.
9. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES, SEPTIC TANKS (AS NOTED) AND SIMILAR MATERIALS SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE ENGINEER.
10. CONTRACTOR TO COORDINATE WITH DISTRICT STAFF FOR LOCATION OF EXISTING COMMUNICATION AND ELECTRICAL STUBS.
11. EXCAVATIONS AND DEPRESSIONS RESULTING FROM FOUNDATION AND BELOW-GRADE STRUCTURE REMOVAL SHALL NOT BE FILLED IN PRIOR TO OBSERVATION BY THE GEOTECHNICAL REPRESENTATIVE.
12. CONTRACTOR SHALL PROVIDE LATERAL SUPPORT OF EXCAVATIONS, AS NEEDED, TO PREVENT LATERAL AND VERTICAL MOVEMENT OF ADJACENT EXISTING FACILITIES.

GRADING NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (GREEN BOOK) LATEST EDITION AND AMENDMENTS WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER. THE ENGINEER OF RECORD AND/OR HIS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENT AND/OR CODE WILL GOVERN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA.
3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS IN ACCORDANCE WITH CITY, COUNTY, AND STATE ORDINANCES AND STATUTES.
4. NO FILL SHALL BE PLACED ON THE EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARFIED PER THE PROJECT SPECIFICATIONS.
5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
6. FILLS SHALL BE COMPACTED THROUGHOUT TO THE MAXIMUM DENSITY AS DETERMINED THE GEOTECHNICAL ENGINEER.
7. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND/OR HIS REPRESENTATIVE PRIOR TO PLACING OF FILL.
8. FILL SLOPES SHALL BE KEVED AND BENCHED WITH APPROVED MATERIAL AND PER THE RECOMMENDATIONS OF THE PROJECT SOILS REPORT.
9. ALL EXISTING FILLS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OR HIS REPRESENTATIVE BEFORE ANY ADDITIONAL FILLS ARE ADDED.
10. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
11. SLOPES EXCEEDING FIVE FEET IN HEIGHT MUST BE PLANTED AND AN APPROVED IRRIGATION SYSTEM SHALL BE INSTALLED.
12. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PER THE GRADING AND EXCAVATION CODE.
13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS. THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE CONSTRUCTION MANAGER FOR APPROVAL.

GRADING NOTES (CONTINUED)

- 14. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED, THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE, OR DRIVE RING SHALL BE NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
15. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF AND PROTECT ALL EXISTING UTILITIES AND TO ENSURE SERVICE IS NOT DISRUPTED TO EXISTING FACILITIES.
17. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT. IN ALL CASES, THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTING NATURAL OR EXISTING DRAINAGE PATTERNS.
18. WHENEVER THERE IS AN EXISTING CATCH BASIN ALONG OR ADJACENT TO THE CONSTRUCTION SITE FRONTAGE, AN ON-SITE STORM DRAIN OR SWALE SHALL BE CONSTRUCTED TO CONVEY WATER DIRECTLY TO THE BASIN. EXCEPTIONS SHALL REQUIRE APPROVAL BY THE CIVIL ENGINEER.
19. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER AREA TO A MINIMUM OF 12 INCHES TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUBGRADE SOLES.
20. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION.
21. ANY DIRT, ROCK OR CONSTRUCTION MATERIAL THAT MAY BE TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT-OF-WAY DURING THE TRANSPORTATION OF SAID MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY AND AS DEEMED NECESSARY BY THE CONSTRUCTION MANAGER.
22. DIRT ACCESS RAMPS OVER CURB AND GUTTER TO CONSTRUCTION SITE ARE NOT ALLOWED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, ASPHALT RAMPS WITH A MINIMUM 3" DIAMETER PIPE WILL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE. ALL BASE, GRAVEL, SOIL OR OTHER MATERIAL CARRIED INTO THE ROADWAY BY CONTRACTORS PERSONNEL OR EQUIPMENT WILL BE CLEANED AS NECESSARY AND NO LESS THAN ONCE A DAY. TRUCKS HAULING BASE, GRAVEL, FILL OR EXPORT MATERIALS WILL BE TARPED AS NECESSARY TO PREVENT MATERIAL FROM SPILLING INTO THE ROADWAY.
23. PRIOR TO ANY CONSTRUCTION WHICH INVOLVES HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL FIRST OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
24. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BOND COPIES OF THE APPROVED PLAN. THESE REDLINES ARE THEN TO BE SUBMITTED TO THE OWNERS REPRESENTATIVES FOR REVIEW AND APPROVAL. ONLY AFTER THE BOND COPIES APPROVAL IS GIVEN SHOULD THE ORIGINALS BE AS-BUILT BY THE ENGINEER/ARCHITECT.
25. RULE 403, AIR QUALITY CONTROL MANAGEMENT DISTRICT, MUST BE IMPLEMENTED DURING CONSTRUCTION.
a. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES).
b. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING EXCAVATION GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.
c. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE WATER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWN WIND SAMPLES COLLECTED ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS.
d. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE WATER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED.
e. SUBSECTIONS (A) AND (B) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 24 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DETERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY WIND INSTRUMENT LOCATED AT THE SITE BEING CHECKED.
26. CONTRACTORS SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.
27. CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
28. CONTRACTORS SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
29. CONSTRUCTION PARKING SHALL BE ON-SITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH COUNTY CONSTRUCTION REQUIREMENTS
30. THE SPEED OF TRUCKS ON-SITE SHALL BE LIMITED TO 15 MPH.
31. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE AGENCIES HAVING JURISDICTION OVER PROPOSED ROUTES.
32. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-ROAD PARKING MATERIALS LAYDOWN OR THOSE AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKOUT TO THE PUBLIC RIGHT OF WAY.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
a. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 1-800-242-4022 FOR THE DAILY SMOG FORECAST.
b. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE MANAGER OF BUILDING AND SAFETY.
c. WHERE FEASIBLE, ON-ROAD VEHICLES AND OFF-ROAD EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE (5) MINUTES.
34. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL WHEN WIND GUSTS EXCEED 25 MPH:
a. TERMINATION/MODIFICATION OF OPERATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE.
b. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT OPERATIONS.
c. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW-SULFUR FUEL AS REQUIRED BY AQMD REGULATIONS.
36. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY HAILED MATERIAL AND THE TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS DURING TRANSPORTATION.
37. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL PAY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER TO RESET SUCH MONUMENTS.

EXISTING UTILITY NOTES

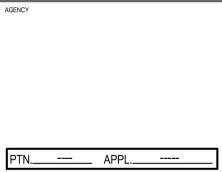
- 1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION.
2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
4. SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT IDENTIFIED HEREON.
5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZES, AND CAPACITIES IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. ECG DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.
6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.

STORMWATER POLLUTION PLAN NOTES

- 1. IN CASE OF EMERGENCY CALL: _____ TO BE DETERMINED
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASIN MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER.
9. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON STORM WATER FROM THE PROJECT SITES AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND AREA NOT TO CONTAMINATE THE SOILS 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.
14. 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.
15. CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL. (COPIES OF THE SELF INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OR RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" - LATEST EDITION, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE.

STORMWATER POLLUTION PLAN NOTES (CONTINUED)

- EROSION CONTROL:
EC-1 SCHEDULING
EC-2 PRESERVATION OF EXISTING VEGETATION
EC-3 HYDRAULIC MULCH
EC-4 HYDROSEEDING
EC-5 SOIL BINDERS
EC-6 STRAW MULCH
EC-7 GEOTEXTILES & MATS
EC-8 WOOD MULCHING
EC-9 EARTH DIKES AND DRAINAGE SWALES
EC-10 VELOCITY DISSIPATION DEVICES
EC-11 SLOPE DRAINS
EC-12 STREAMBANK STABILIZATION
EC-13 RESERVED
EC-14 COMPOST BLANKETS
EC-15 SOIL PREPARATION/ROUGHENING
EC-16 NON-VEGETATIVE STABILIZATION
TEMPORARY SEDIMENT CONTROL:
SE-1 SILT FENCE
SE-2 SEDIMENT BASIN
SE-3 SEDIMENT TRAP
SE-4 CHECK DAM
SE-5 FIBER ROLLS
SE-6 GRAVEL BAG BERM
SE-7 STREET SWEEPING AND VACUUMING
SE-8 SANDBAG BARRIER
SE-9 STRAW BALE BARRIER
SE-10 STORM DRAIN INLET PROTECTION
SE-11 ACTIVE TREATMENT SYSTEMS
SE-12 TEMPORARY SILT DIKE
SE-13 COMPOST SOCKS AND BERMS
SE-14 BIOFILTER BAGS
EQUIPMENT TRACKING CONTROL:
TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2 STABILIZED CONSTRUCTION ROADWAY
TC-3 ENTRANCE/OUTLET TIRE WASH
WIND EROSION CONTROL:
WE-1 WIND EROSION CONTROL
NON-STORMWATER MANAGEMENT:
NS-1 WATER CONSERVATION PRACTICES
NS-2 DEWATERING OPERATIONS
NS-3 PAVING AND GRINDING OPERATIONS
NS-4 TEMPORARY STREAM CROSSING
NS-5 CLEAR WATER DIVERSION
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-11 PILE DRIVING OPERATIONS
NS-12 CONCRETE CURING
NS-13 CONCRETE FINISHING
NS-14 MATERIAL OVER WATER
NS-15 DEMOLITION ADJACENT TO WATER
NS-16 TEMPORARY BATCH PLANTS
WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL:
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-7 CONTAMINATED SOIL MANAGEMENT
WM-8 CONCRETE WASTE MANAGEMENT
WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
WM-10 LIQUID WASTE MANAGEMENT
NOTE:
SITE INSPECTIONS ARE REQUIRED BEFORE AND AFTER STORMS TO ENSURE THAT ALL BMPs ARE FUNCTIONAL AND TO DETERMINE MAINTENANCE.



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CONSULTANT



Drawn by:
Checked by:
Revisions:
No. Date Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION H.S. DISTRICT

OXNARD HIGH SCHOOL TRANSPORTATION FACILITY

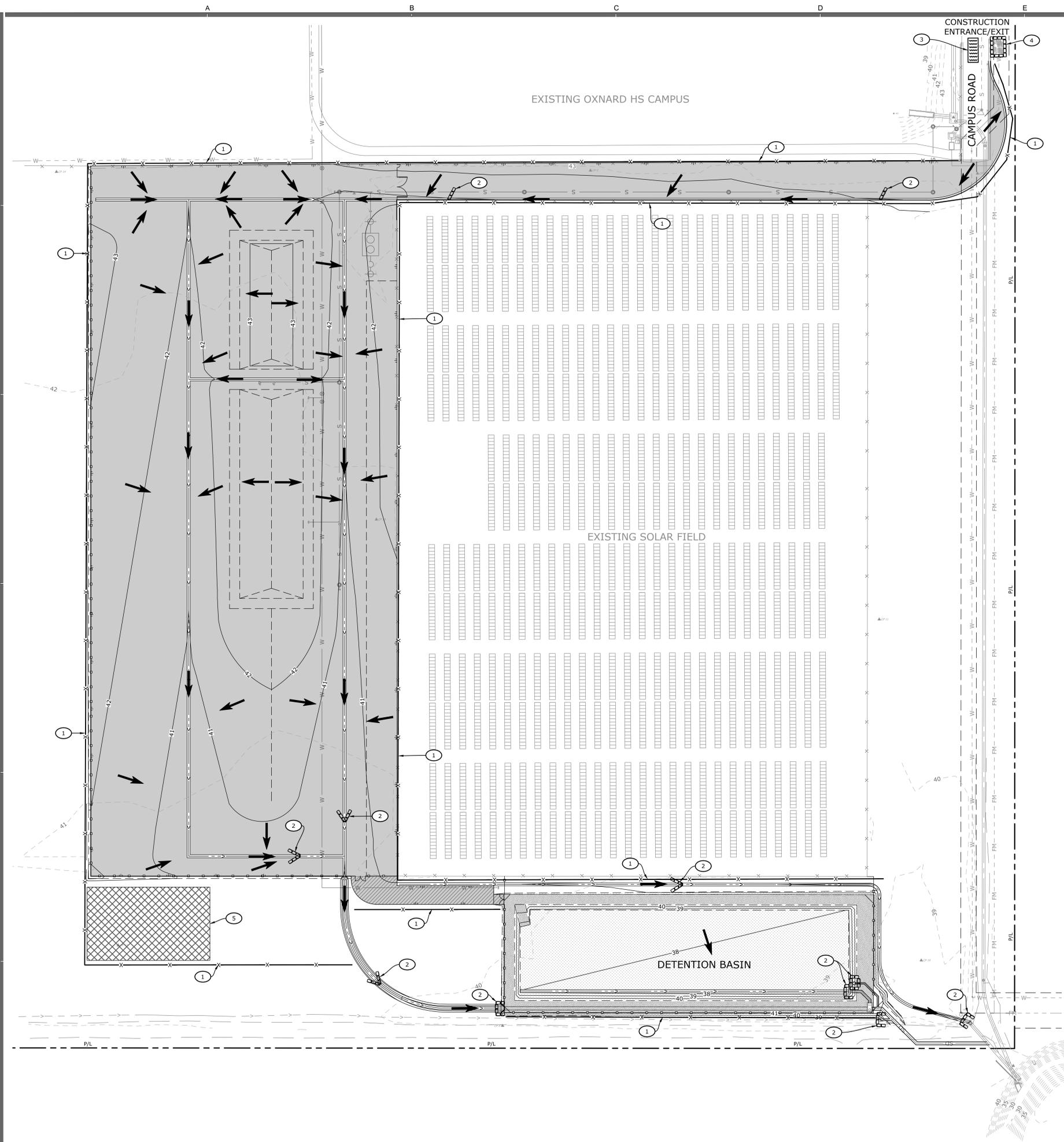
3400 W GONZALES RD, OXNARD, CA 93036

GENERAL NOTES

Job No. 2855.0000
Date 07-14-2020
C1.02



PRELIMINARY - NOT FOR CONSTRUCTION



EROSION CONTROL CONSTRUCTION NOTES

- 1 CONSTRUCT SILT FENCE PER BMP SE-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "A" ON SHEET C2.02, PRIOR TO AND DURING GRADING AND THE ESTABLISHMENT OF SITE LANDSCAPING AND PLANTINGS.
- 2 CONSTRUCT TEMPORARY GRAVEL BAG CHECK DAM OR INLET SEDIMENT BARRIER PER BMP SE-4 AND SE-10 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK. SEE DETAIL "B" ON SHEET C2.02. ALL GRAVEL BAGS MUST BE IN PLACE DURING PROJECT CONSTRUCTION.
- 3 CONSTRUCT "RUMBLE RACKS" AT ALL CONSTRUCTION SITE EXITS (MINIMUM 30-FEET BY 12-FEET WIDE). RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. SEE BMP TC-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "C" ON SHEET C2.02.
- 4 PROPOSED CONCRETE WASH-OFF AREA PER BMP WM-8 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "D" ON SHEET C2.02. WASH-OFF AREA SHALL BE IN PLACE AT ALL TIMES DURING GRADING AND PAVING OPERATIONS. CONTRACTOR SHALL NOT TRACK SOLIDS OR CONCRETE WASH OUT OR DEBRIS ON PUBLIC ROADWAYS. RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.
- 5 PROPOSED STOCKPILE AND MATERIAL STORAGE AREA PER BMP WM-1 AND WM-3 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "E" ON SHEET C2.02.



SCALE: 1"=40'
0 40 80 120



AGENCY
PTN _____ APPL _____

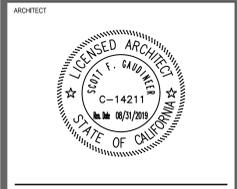


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Drawn by _____
Checked by _____

Revisions		
No.	Date	Description

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OXNARD UNION H.S. DISTRICT
OXNARD HIGH SCHOOL
TRANSPORTATION FACILITY
3400 W GONZALES RD,
OXNARD, CA 93036

EROSION CONTROL PLAN

Job No. 2855.0000
Date _____
C2.01
07-14-2020

A SILT FENCE SE-1

MAXIMUM SLOPE LENGTH
MAXIMUM TRIBUTARY AREA .25 ACRE/100FT OF FENCE.
SILT FENCE
TURN LAST 6' OF FENCE UP-SLOPE
MAXIMUM WIDTH=500'
SILT FENCE CONSTRUCTED ALONG LEVEL CONTOUR
POST @ 10' O.C. (MAX)
FLOW
FILTER FABRIC
COMPACTED BACKFILL
6" MIN.
12"
6" MIN.

NOTES:

- CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
- SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
- PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
- TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
- LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
- DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
- WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS.
- REFER ALSO TO BMP SE-1 FROM 2013 CALIFORNIA STORMWATER B.M.P. HANDBOOK FOR CONSTRUCTION.

B CATCH BASIN/INLET PROTECTION SE-10

STRAW WATTLES/GRAVEL BAGS/SANDBAGS TO OVERLAP ONTO CURB
CATCH BASIN
BACK OF SIDEWALK
CURB INLET
BACK OF CURB
PLAN
SPILLWAY
SANDBAGS/GRAVEL BAGS STACKED TIGHTLY
8" MIN PONDING HEIGHT
CURB INLET
SIDEWALK
CATCH BASIN
SECTION
D = _____
H = _____
L = _____

NOTES:

- CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
- INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS; EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.
- MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.
- INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
- INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
- DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
- ADDITIONAL SANDBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.

C STABILIZED CONSTRUCTION ENTRANCE TC-1

NOTE: CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE
SEDIMENT TRAPPING DEVICE
CORRUGATED STEEL PANELS OVER MIN. OF 12" THICK OF 3'-6" COARSE AGGREGATE AND FILTER FABRIC
MIN. OF 12" THICK OF 3'-6" COARSE AGGREGATE ON TOP OF FILTER FABRIC
10' MIN. OR AS REQUIRED TO ACCOMMODATE ANTICIPATED TRAFFIC, WHICHEVER IS GREATER
20' R/W MIN.
DITCH
24' MIN.
50' MIN.
OR FOUR TIMES THE CIRCUMFERENCE OF THE LARGEST CONSTRUCTION VEHICLE TIRE WHICHEVER IS GREATER
MATCH EXISTING GRADE
EXISTING PAVED ROADWAY

NOTES:

- SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
 - LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
 - A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 3'-6" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
- ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
- ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE SE-7

NOTES:

- REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

D CONCRETE WASTE MANAGEMENT WM-8

CONCRETE WASHOUT AREA
BERMED CONTAINMENT AREA

NOTES:

- EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
- FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE.
- SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.
- CONCRETE WASHOUT AREA SHALL BE LINED WITH A MINIMUM 10 MIL. POLYETHYLENE SHEETING. REFER TO BMP #WM-8 FROM THE 2013 CALIFORNIA CONSTRUCTION BMP HANDBOOK

E MATERIAL STORAGE AND DELIVERY WM-1

APPLY BMP WM-1 FROM THE 2013 CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION AVAILABLE AT www.cabmphandbooks.com.

MINIMUM REQUIREMENTS FROM WM-1:

- MATERIAL DELIVERY AND STORAGE AREAS SHOULD BE LOCATED NEAR THE CONSTRUCTION ENTRANCES, AWAY FROM WATERWAYS OR DRAINAGE PATHS. PREFERRED METHOD OF MATERIAL STORAGE IS IN DOCKS WITHIN EXISTING STRUCTURES OR SHEDS WHEN AVAILABLE. AT A MINIMUM, MATERIAL STORAGE AREA SHALL BE SURROUNDED WITH PROTECTIVE BERMS.
- MATERIALS SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS AND THE ORIGINAL PRODUCT LABELS SHOULD BE MAINTAINED IN PLACE IN A LEGIBLE CONDITION.
- MATERIALS SHOULD BE STORED ON PALLETS AND SHOULD NOT BE ALLOWED TO ACCUMULATE ON THE GROUND. SECONDARY CONTAINMENT SHALL BE PROVIDED, WHEN POSSIBLE, TO PROVIDE PROTECTION FROM WIND AND RAIN. MATERIALS SHOULD BE COVERED DURING NON-WORKING DAYS AND PRIOR TO AND DURING RAIN OR WIND EVENTS.
- EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER MATERIAL DELIVERY AND STORAGE PRACTICES AND IN EMERGENCY SPILL CLEANUP PROCEDURES.

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TRANSPORTATION FACILITY

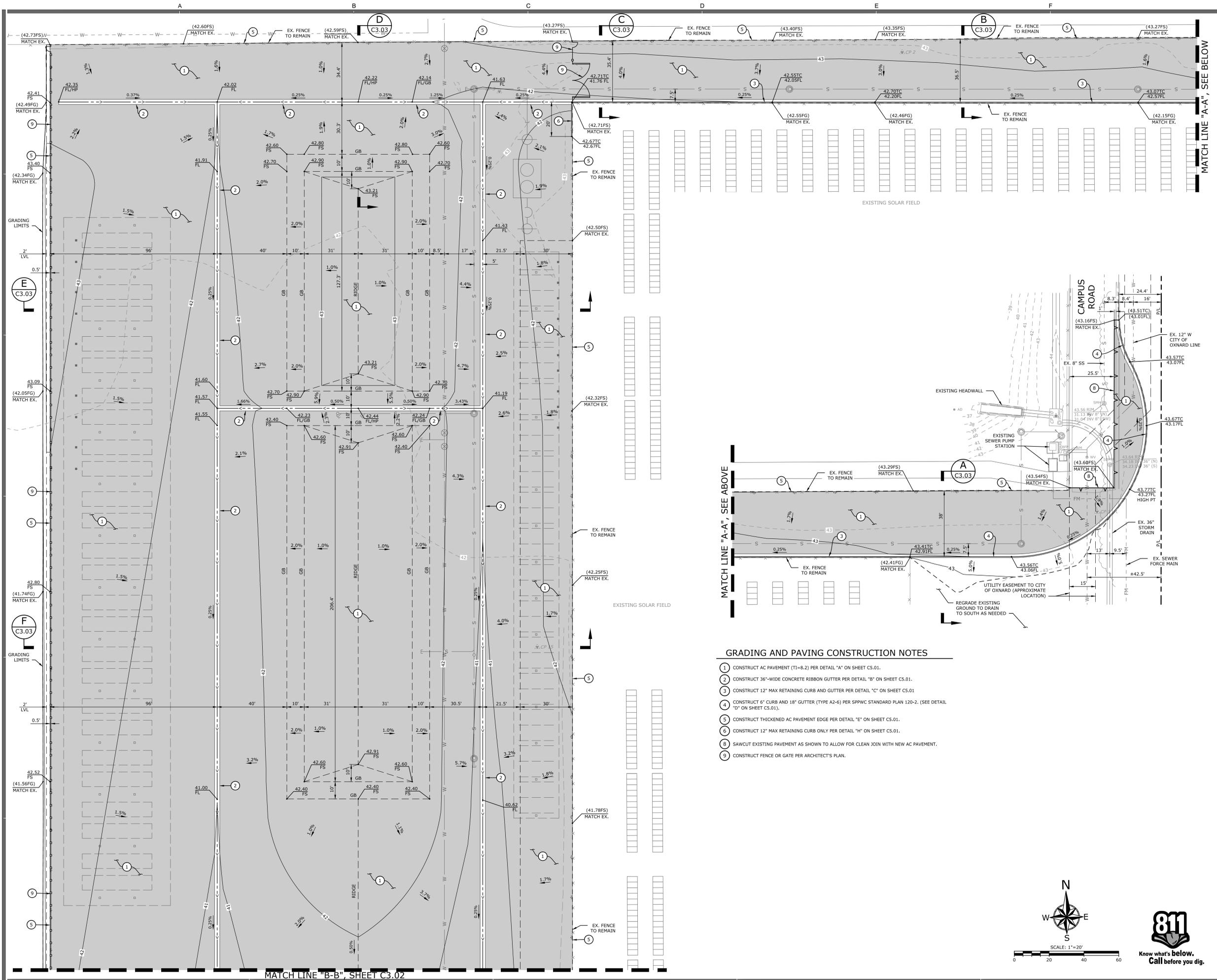
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OXNARD, CA 93036

**EROSION CONTROL
DETAILS**

Job No. 2855.0000
Date 07-14-2020

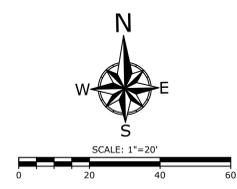
C2.02





GRADING AND PAVING CONSTRUCTION NOTES

- 1 CONSTRUCT AC PAVEMENT (T1=8.2) PER DETAIL "A" ON SHEET C5.01.
- 2 CONSTRUCT 36"-WIDE CONCRETE RIBBON GUTTER PER DETAIL "B" ON SHEET C5.01.
- 3 CONSTRUCT 12" MAX RETAINING CURB AND GUTTER PER DETAIL "C" ON SHEET C5.01.
- 4 CONSTRUCT 6" CURB AND 18" GUTTER (TYPE A2-6) PER SPPWC STANDARD PLAN 120-2. (SEE DETAIL "D" ON SHEET C5.01).
- 5 CONSTRUCT THICKENED AC PAVEMENT EDGE PER DETAIL "E" ON SHEET C5.01.
- 6 CONSTRUCT 12" MAX RETAINING CURB ONLY PER DETAIL "H" ON SHEET C5.01.
- 8 SAWCUT EXISTING PAVEMENT AS SHOWN TO ALLOW FOR CLEAN JOIN WITH NEW AC PAVEMENT.
- 9 CONSTRUCT FENCE OR GATE PER ARCHITECT'S PLAN.



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**GRADING,
DRAINAGE
AND PAVING
PLAN**

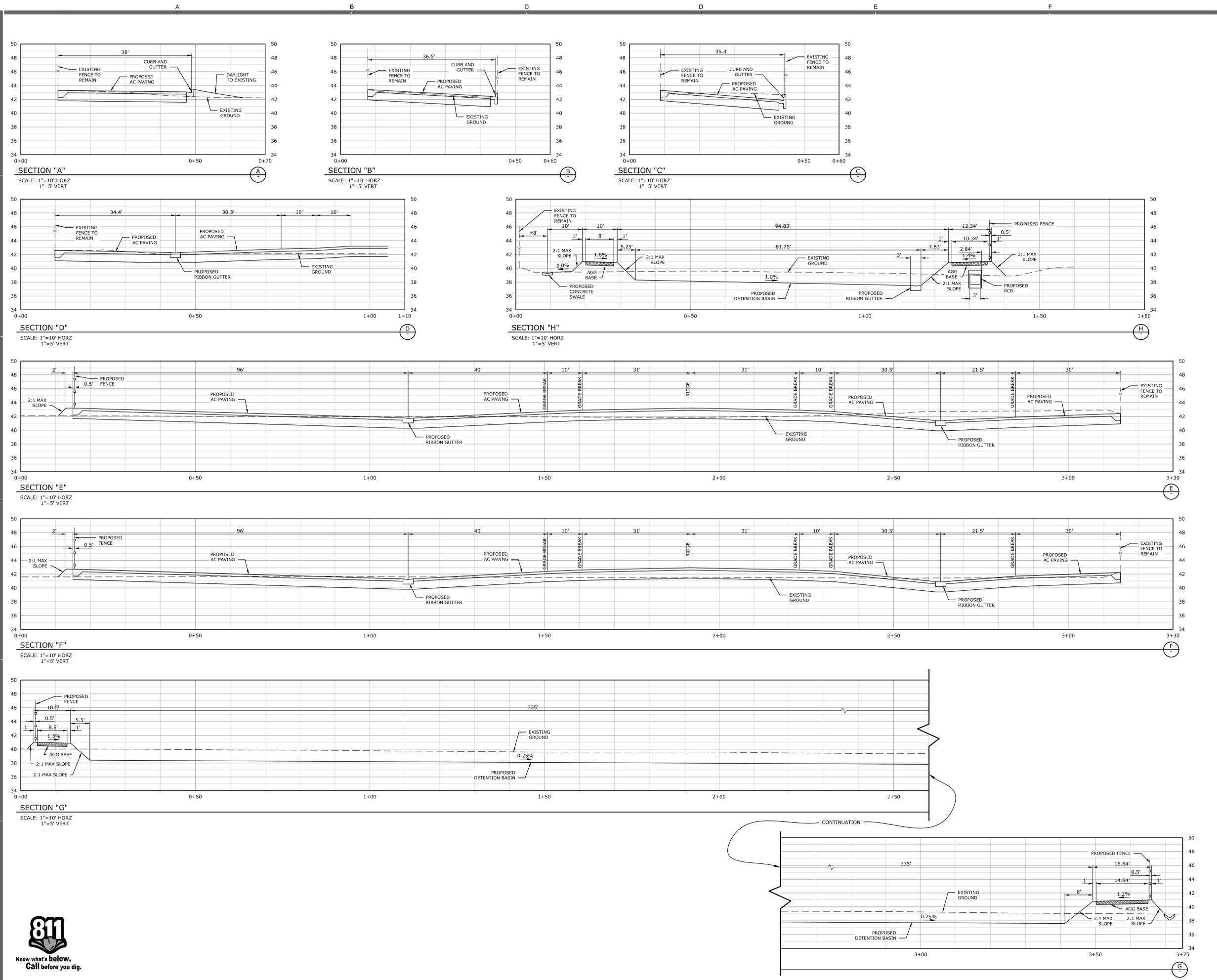
Job No.
2855.0000

Date

C3.01

07-14-2020

PRELIMINARY - NOT FOR CONSTRUCTION



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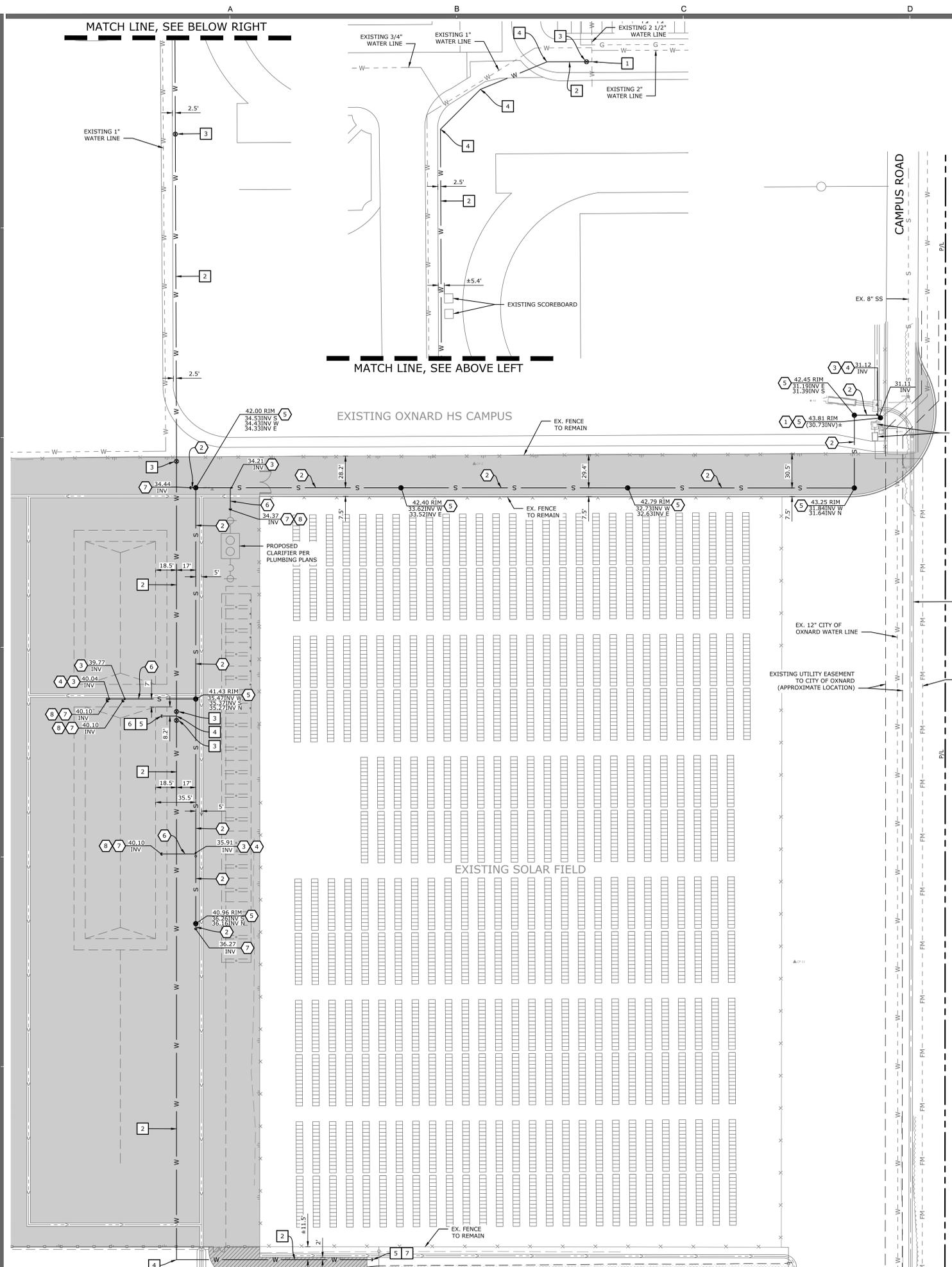
SITE SECTIONS

Job No:
2855.0000

Date:
07-14-2020

C3.03



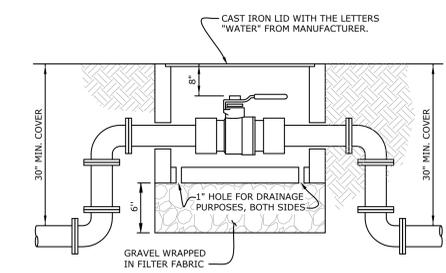


LEGEND

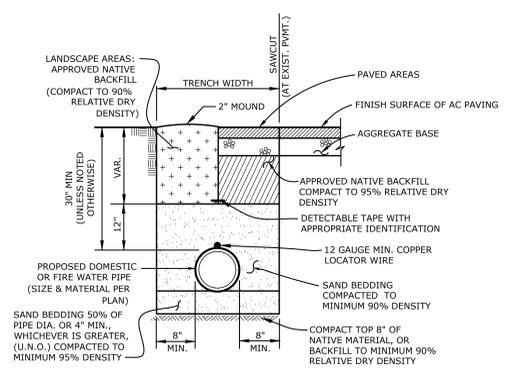
	PROPOSED FLOWLINE
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED CHAIN LINK FENCE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING OVER HEAD WIRE
	EXISTING ELECTRICAL WIRE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING STORM DRAIN LINE
	EXISTING FIREWATER LINE
	EXISTING SEWER LINE

- WATER AND FIRE WATER CONSTRUCTION NOTES**
- 1 CONSTRUCT CONNECTION TO EXISTING 2 1/2" CITY OF OXNARD WATER LINE.*
 - 2 CONSTRUCT 2" SCH 40 CL 235 (DR 18) PVC WATER LINE WITH ALL NECESSARY FITTINGS PER TRENCH DETAIL HEREON.
 - 3 CONSTRUCT 2" VALVE AND VALVE BOX PER DETAIL HEREON.
 - 4 CONSTRUCT 2" PVC HORIZONTAL FITTING AS NEEDED TO CONSTRUCT PER PLAN.
 - 5 CONSTRUCT 2" CAP OR PLUG.
 - 6 SEE PLUMBING PLANS FOR CONTINUATION.
 - 7 SEE LANDSCAPE PLANS FOR CONTINUATION.

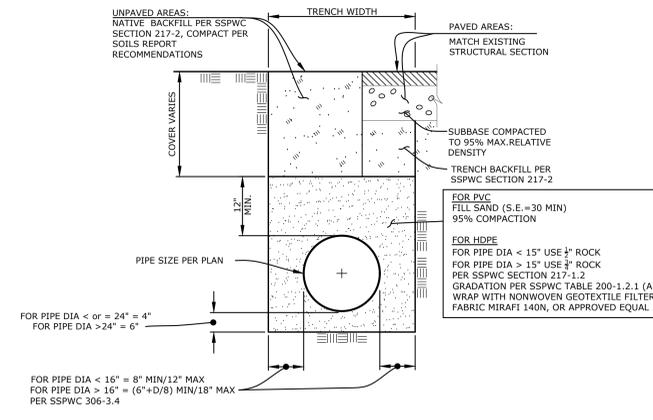
- SEWER CONSTRUCTION NOTES**
- 1 CONSTRUCT CONNECTION TO EXISTING 8" SEWER LINE.*
 - 2 CONSTRUCT 8" SDR 35 PVC SANITARY SEWER LINE PER GRAVITY PIPE TRENCH DETAIL HEREON.
 - 3 CONSTRUCT SANITARY SEWER HORIZONTAL BEND OR FITTING AS NEEDED TO CONSTRUCT PER PLAN.
 - 4 CONSTRUCT SANITARY SEWER CLEANOUT PER SPPWC STD PLAN 204-2 (MODIFIED TO BE NON-TERMINAL WHERE SHOWN ON PLAN).
 - 5 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER SPPWC STD PLAN 200-3.
 - 6 CONSTRUCT 4" SDR 35 PVC SANITARY SEWER LINE PER GRAVITY PIPE TRENCH DETAIL HEREON.
 - 7 CONSTRUCT CAP OR PLUG.
 - 8 SEE PLUMBING PLANS FOR CONTINUATION.



VALVE & VALVE BOX FOR DOMESTIC WATER LINES 4" DIA AND SMALLER
SCALE: N.T.S.



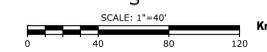
WATER PIPE TRENCH
N.T.S.



PLASTIC GRAVITY PIPE TRENCH
N.T.S.

GENERAL NOTE
CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY FITTINGS TO CONSTRUCT UTILITY SYSTEMS AS SHOWN ON PLAN.

***EXISTING UTILITIES NOTE**
LOCATION AND SIZE OF EXISTING UTILITIES SHOWN ARE ESTIMATES ONLY AND WERE BASED ON OBSERVED SURFACE EVIDENCE. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND MATERIAL TYPE OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES.



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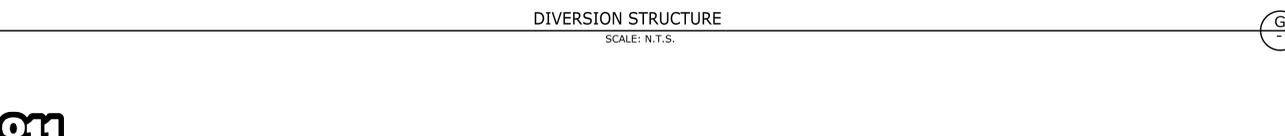
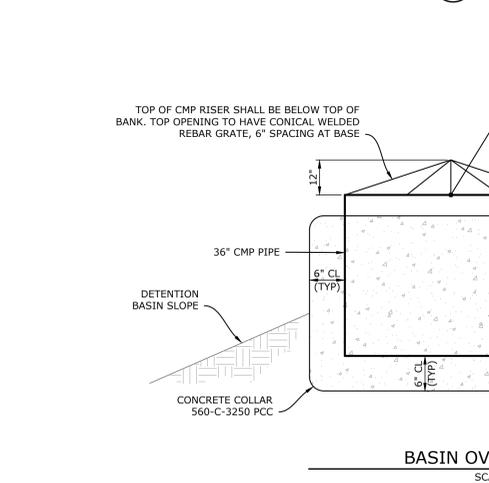
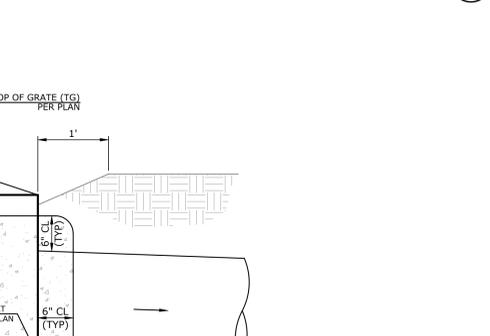
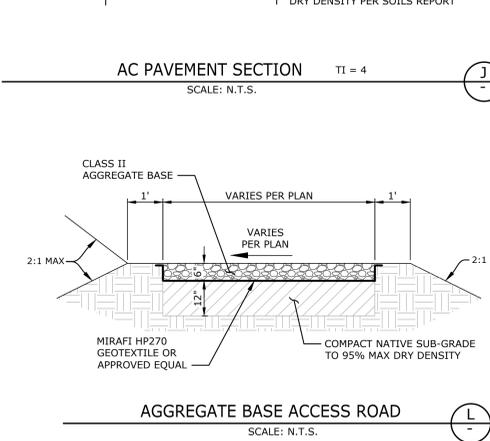
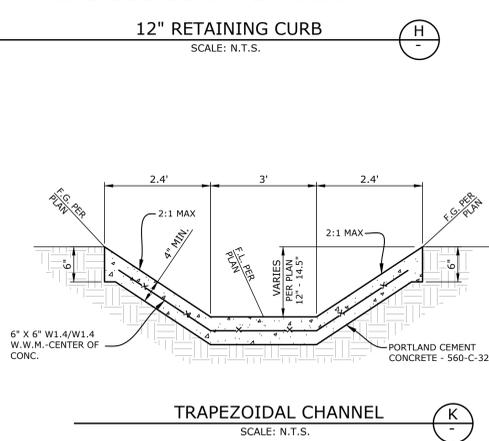
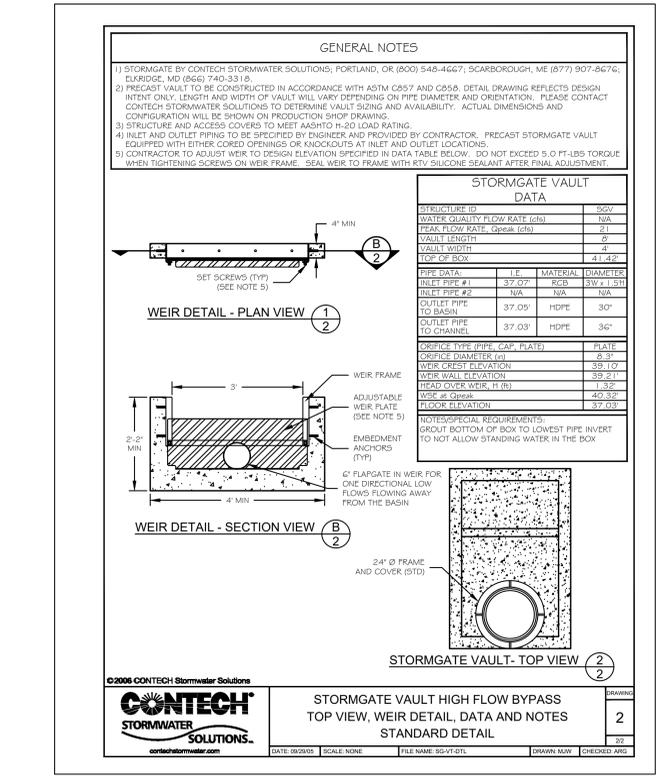
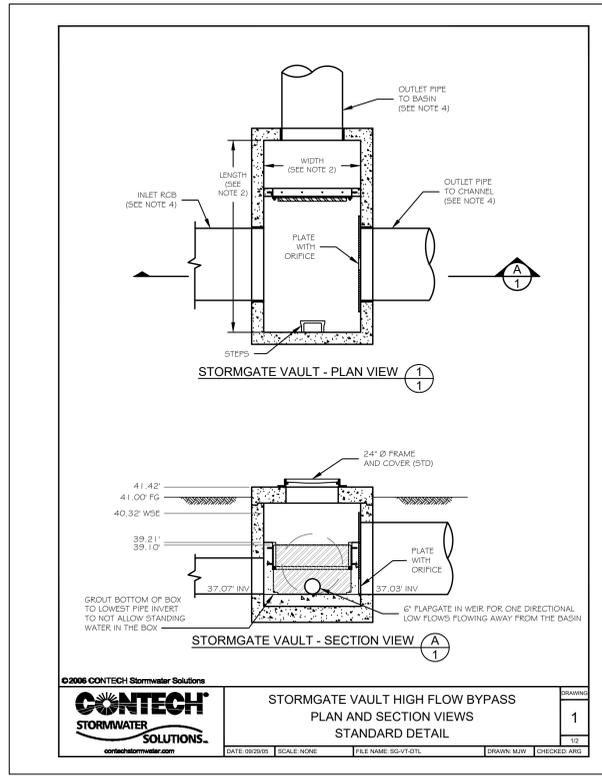
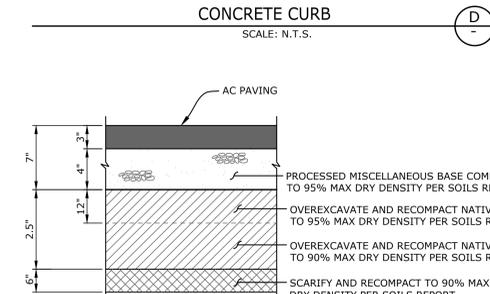
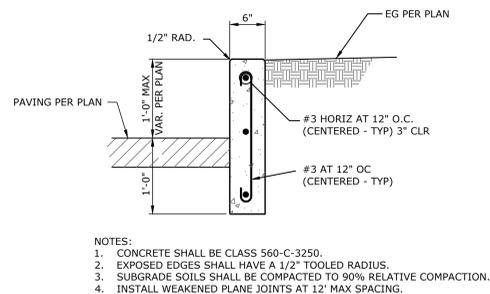
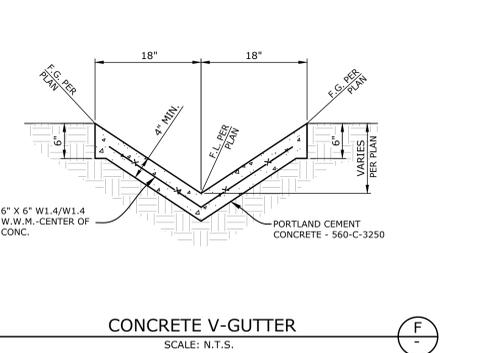
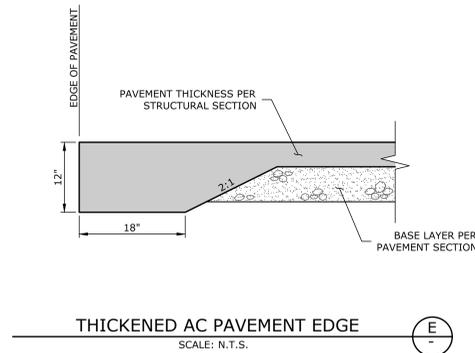
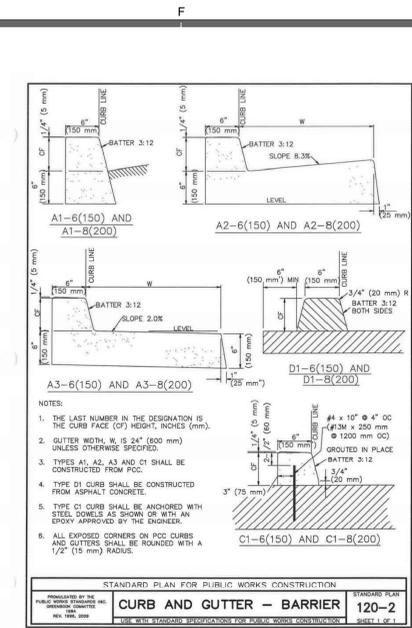
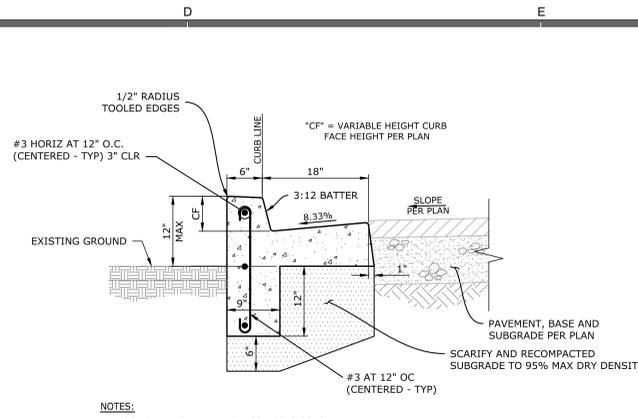
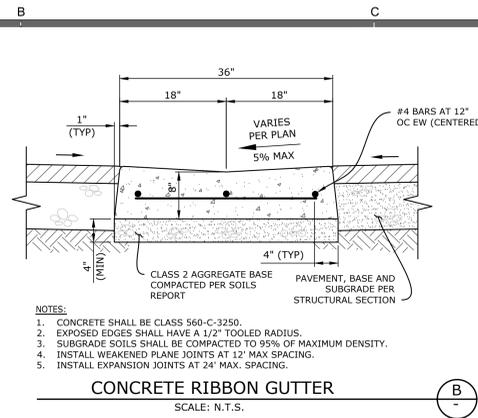
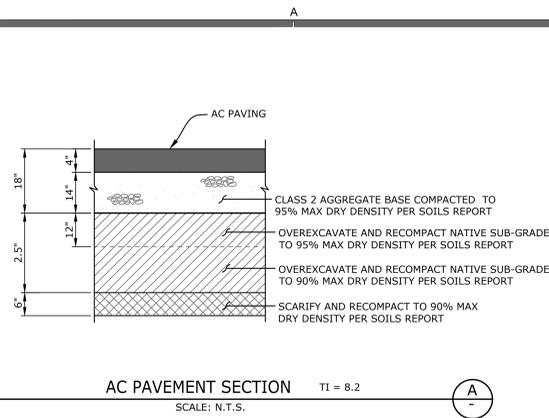
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WATER AND SEWER PLAN

Job No. 2855.0000

Date 07-14-2020

C4.01



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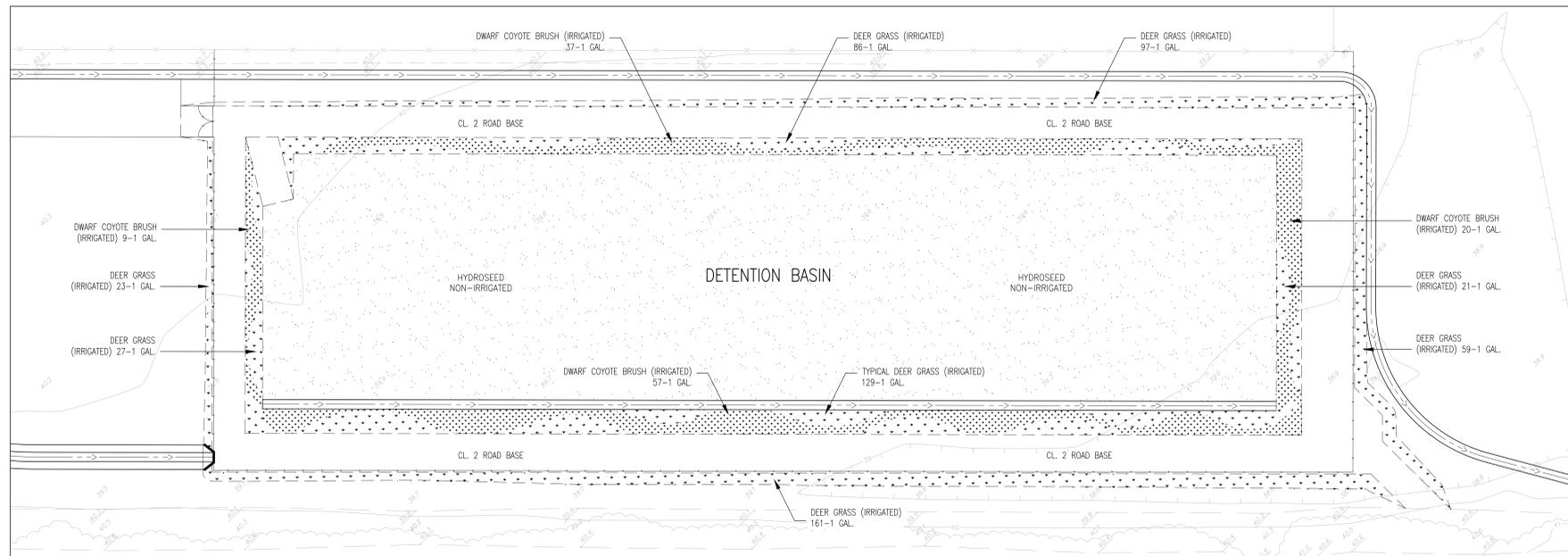
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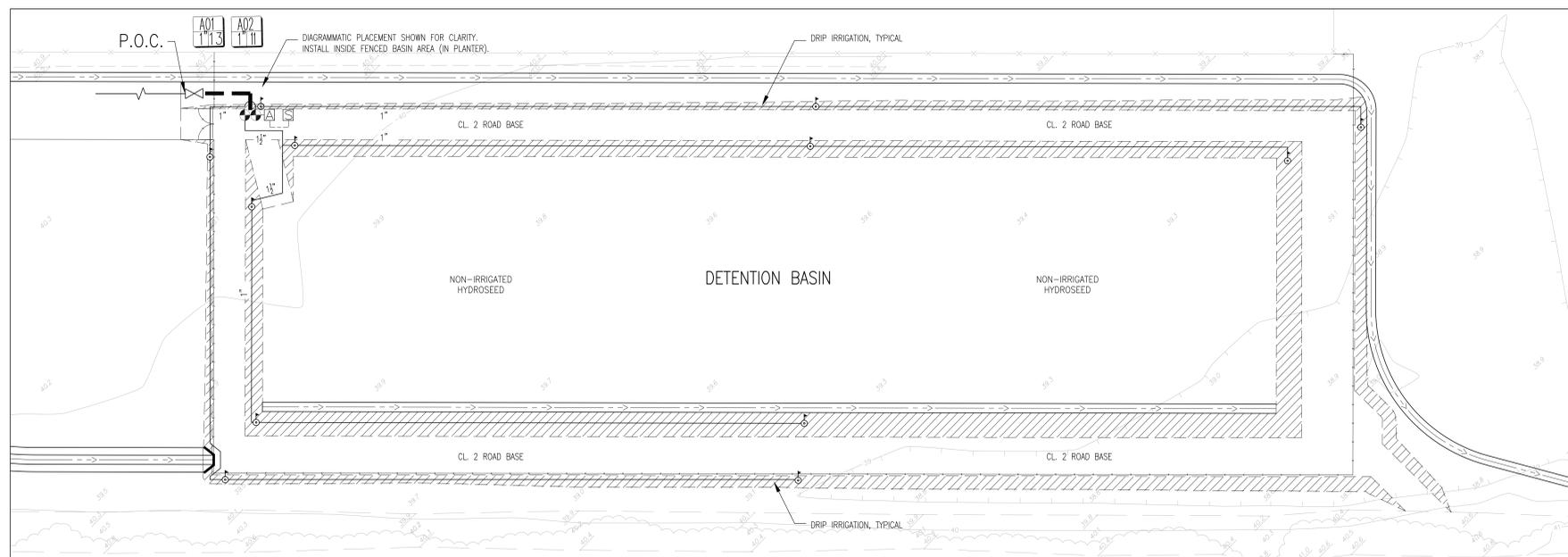
C5.01



PLANTING PLAN



IRRIGATION PLAN



PLANTING LEGEND

SHRUBS / PERENNIALS BOTANICAL / COMMON NAME	WUCOLS	QTY.	SIZE	NOTES
BAC Baccharis p. 'Pidgeon Point' DWARF COYOTE BRUSH	L	123	1 GAL	DETAILS 1 & 2 5' O.C. SHEET L2.01
MUH Muhlenbergia rigens DEER GRASS	L	602	1 GAL	DETAILS 1 & 2 3' O.C. SHEET L2.01
HYDROSEEDING (NON-IRRIGATED): SEE SPECIFICATIONS FOR SEED MIX & APPLICATION REQUIREMENTS				

PLANTING NOTES

- QUANTITIES AND SIZES SHOWN IN THE PLANT LEGEND ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. NOTIFY PROJECT LANDSCAPE ARCHITECT OF ANY MAJOR DISCREPANCIES.
- ALL PLANTER AREAS, AS DESIGNATED ON THE PLAN, SHALL BE PREPARED AND AMENDED PER THE SPECIFICATIONS.
- INSTALL MINIMUM 3" THICK BARK MULCH IN ALL SHRUB PLANTING AREAS (EXCLUDING HYDROSEEDED AREA). REFER TO SPECIFICATIONS FOR TYPE. PROVIDE SAMPLE FOR APPROVAL.
- REVIEW THE PLANTING AND IRRIGATION SPECIFICATIONS PRIOR TO BIDDING. IF NOT PROVIDED, CONTACT THE LANDSCAPE ARCHITECT.
- PLANTS SHALL BE INSTALLED WITH TRIANGULAR SPACING. DO NOT INSTALL IN STRAIGHT ROWS. SEE DETAIL 2, SHEET L2.01.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTE
[Symbol]	HUNTER NODE-200 BATTERY-OPERATED CONTROLLER WITH DC SOLENOIDS (2-VALVES), & SPNODE (SOLAR PANEL KIT)	REFER TO DETAILS 3 & 4, SHEET L2.01
[Symbol]	TORO EZF-29-03 ANTI-SIPHON VALVE (1") INSTALL DC SOLENOIDS FOR BATTERY CONTROLLER	REFER TO DETAIL 4, SHEET L2.01
[Symbol]	KBI BTU-TE BALL VALVE (1-1/2")	INSTALL PER DETAIL 5, SHEET L2.01
[Symbol]	MAINLINE SCH. 40 PVC PIPE	1-1/2" UNLESS NOTED OTHERWISE. REFER TO DETAIL 6, SHEET L2.01
[Symbol]	SCH. 40 PVC PIPE & WIRE SLEEVE	SEE NOTE #7.
[Symbol]	LATERAL LINE SCH. 40 PVC PIPE SEE NOTE # 9.	MINIMUM PIPE SIZE = 1". REFER TO DETAIL 6, SHEET L2.01
[Symbol]	DRIPLINE 5/8" I.D. POLYETHYLENE PIPE (BLUE STRIPE) WITH TORO NGE EMITTERS	REFER TO DETAILS 7 & 10, SHEET L2.01. SEE NOTE NO.1
[Symbol]	PVC TO POLY DRIPLINE ADAPTER	INSTALL PER DETAIL 8, SHT. L2.01

IRRIGATION NOTES

- 2 - 1 GPH EMITTERS PER 1 GAL. CONTAINER. INSTALL EMITTERS AT EQUAL DISTANCE AROUND ROOTBALL.
- IRRIGATION PLANS ARE DIAGRAMMATIC! ACTUAL LINE AND HEAD PLACEMENT SHALL BE DETERMINED ON SITE DURING CONSTRUCTION. CONTRACTOR SHALL ADJUST SYSTEM (TO ACHIEVE 100% COVERAGE) BASED ON PLAN LAYOUT & IN-FIELD DIMENSIONS.
- POINT OF CONNECTION (P.O.C.) AT EXISTING 2" MAINLINE STUBOUT BY LANDSCAPE CONTRACTOR.
- SYSTEM DESIGN BASED ON 65 P.S.I. STATIC WATER PRESSURE. MINIMUM OPERATING PRESSURE SHALL BE 30 P.S.I. FOR DRIP IRRIGATION. VERIFY WATER PRESSURE PRIOR TO INSTALLATION.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR 100% COVERAGE AT NO ADDITIONAL COST TO OWNER. SITE DIMENSIONS SHOULD BE THOROUGHLY CHECKED BY CONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- REFER TO THE SPECIFICATIONS PRIOR TO BIDDING AND CONSTRUCTION (IF SPEC'S. ARE NOT PROVIDED, CONTACT THE LANDSCAPE ARCHITECT FOR A COPY).
- ALL LINES UNDER PAVING SHALL BE SLEEVED. CONTRACTOR SHALL INSTALL SLEEVES IN STRAIGHT LINES FROM PLANTER TO PLANTER. PLACE DESIGNATED LINE INSIDE SLEEVE PRIOR TO INSTALLATION. SLEEVES SHALL BE 2x LINE SIZE.
- PIPE SIZES SHOWN ON THE PLAN CONTINUE DOWNSTREAM, TO THE NEXT SIZE LABEL, TYPICAL.
- IRRIGATION EQUIPMENT MAY BE SHOWN OUTSIDE OF PLANTERS FOR CLARITY. INSTALL ALL EQUIPMENT IN PLANTERS UNLESS NOTED OTHERWISE.

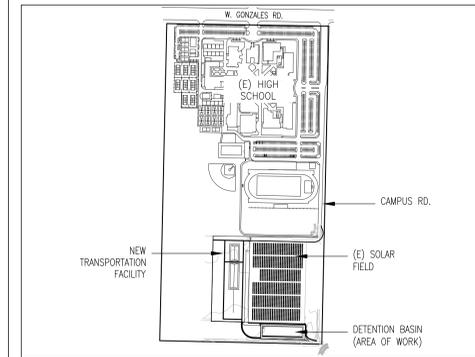
VALVE KEY

VALVE SIZE $\frac{3}{4}$ " VALVE & CONTROLLER STA.#

MAWA & ETWU CALCULATIONS

TOTAL IRRIGATED AREA = 8,498 S.F.	MAWA GALLONS = 100,291
LOW (DROUGHT TOLERANT) = 8,498 S.F.	MAWA UNITS = 134.07
MODERATE = 0 S.F.	ETWU GALLONS = 55,038
HIGH (THRISTY) = 0 S.F.	ETWU UNITS = 73.57
	ETWU COMPLIES WITH MAWA.

SITE MAP - NOT TO SCALE



LANDSCAPE ARCHITECT'S SEAL

SCALE: 1" = 20'-0"

0' 20' 40' 60'

Job No. 2855.0000

Date 7-19-20

L1.01

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SAN LUIS OBISPO
CALIFORNIA 93401
P 805.541.4509
F 805.546.0525
RLA 2248 CLARB #907

Drawn by **BEB**

Checked by **MLC**

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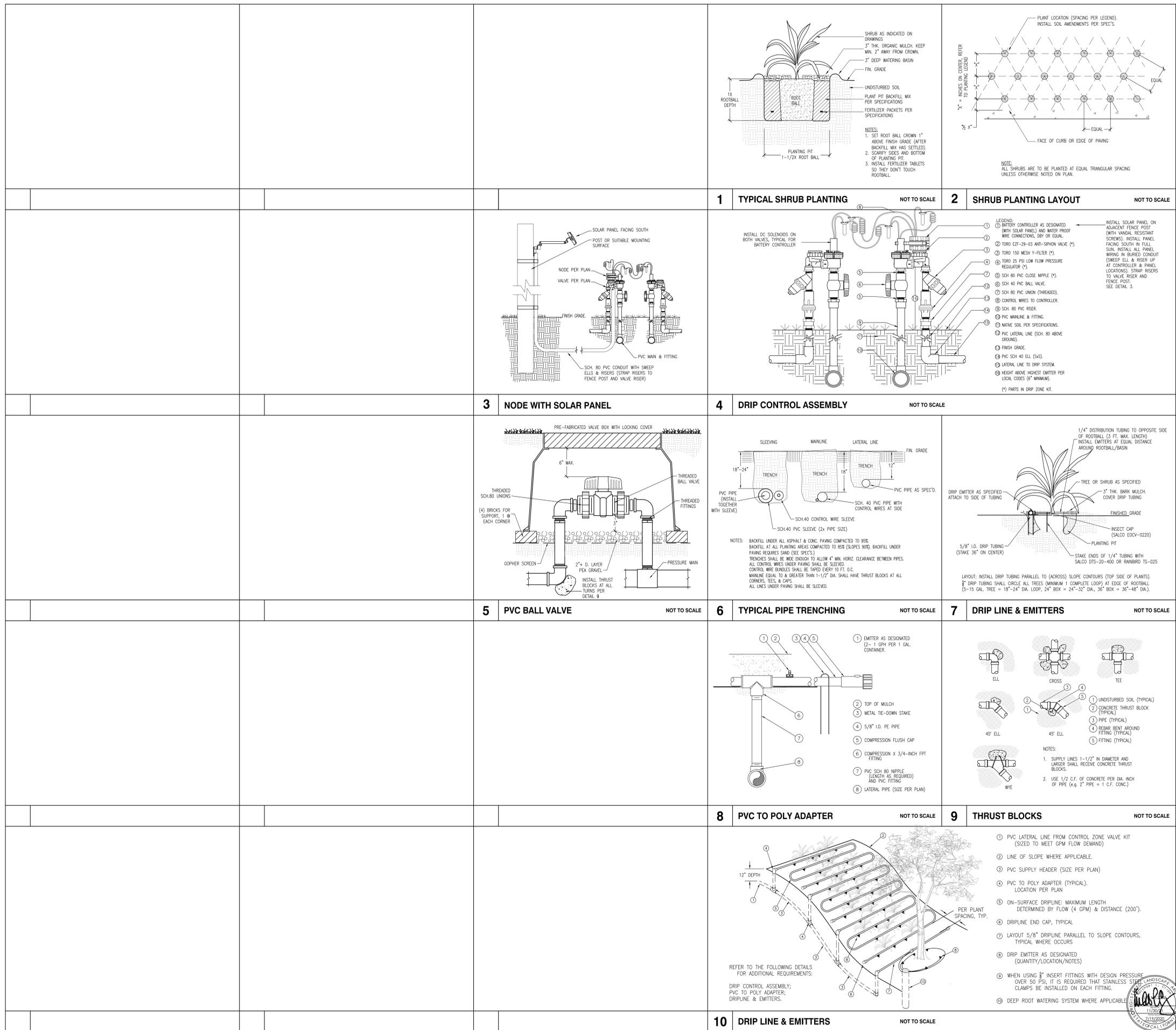
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LANDSCAPE PLAN

Job No. 2855.0000

Date 7-19-20

L1.01



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PTN. - APPL. -



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LANDSCAPE
 DETAILS

Job No.
 2855.0000

Date
 7-19-20



PLUMBING GENERAL PROJECT NOTES

- A. PLUMBING SYSTEMS SHALL BE IN COMPLIANCE WITH 2019 CALIFORNIA PLUMBING CODE (CPC) AND WITH CITY OF SAN DIEGO CODE AMENDMENTS.
- B. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED PER SECTION 710.0 & 719.0 OF THE PLUMBING CODE.
- C. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
- D. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
- E. DOMESTIC HOT WATER PIPING SHALL BE INSULATED IN COMPLIANCE WITH SECTION 609.11 OF THE PLUMBING CODE.
- F. PUBLIC LAVATORIES SHALL HAVE A WATER TEMPERING DEVICE THAT COMPLIES WITH ASSE 1070 OR CSA B125.3, WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL TO MEET THIS PROVISION.
- G. ALL FLOOR-OUTLETS OR FLOOR-MOUNTED FIXTURES SHALL BE RIGIDLY SECURED TO THE DRAINAGE CONNECTION WITH CORROSION RESISTANT SCREW/BOLTS PER C.P.C. 402.03.

ENERGY CODES

- 1. DOMESTIC HOT WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY COMMISSION.
- 2. SERVICE WATER HEATING SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE SETTING FOR THE INTENDED USE AS LISTED IN TABLE 3, CHAPTER 54 OF THE 1987 ASHRAE HANDBOOK, HVAC SYSTEMS & APPLICATIONS VOLUME.
- 3. LAVATORY FAUCETS AND SINK SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
- 4. A MAXIMUM OF OUTLET TEMPERATURE OF 105°F.

APPLICABLE CODES

- 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PLUMBING GENERAL SHEET NOTES

- 1. REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.
- 2. PLUMBING INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
- 3. ALL OVERHEAD PIPING IS TO BE ROUTED TIGHT TO BUILDING STRUCTURE.
- 4. DO NOT ROUTE ANY WATER CONVEYING PIPING OVER ELECTRICAL EQUIPMENT.
- 5. ALL ACCESSIBLE P-TRAPS MUST BE PROVIDED WITH BOTTOM CLEANOUT PLUG.
- 6. INSULATE EXPOSED P-TRAPS, HOT AND COLD VALVES AND PIPING SERVING HANDICAPPED LAVATORIES.
- 7. ALL CONCEALED PIPING SHALL BE TESTED AND PROVEN WATERTIGHT PRIOR TO CONCEALMENT.
- 8. ALL FLOOR DRAINS AND CLEANOUTS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR.
- 9. CLARIFIER INSTALLED PER CITY OF OXNARD'S REQUIREMENTS AND SIZED AFTER DETERMINING BUILDING LOAD.
- 10. CONTRACTOR TO COORDINATE WITH GAS COMPANY FOR METER LOCATION. GAS PIPING TO BE SIZED ONCE ALL EQUIPMENT HAS BEEN SELECTED BY THE ARCHITECT/ DISTRICT.
- 11. WASTE PIPING TO BE SIZED AFTER DETERMINING BUILDING LOAD.

PLUMBING EQUIPMENT SCHEDULE

EQUIP. NO.	EQUIPMENT	GAS CFH	HOLDING CAP. (GAL.)	ELEC. HP	V	Ø	SIZE	MFR.	MODEL	LBS.	REMARKS
BFP-1	BACKFLOW PREVENTOR	-	-	-	-	-	2-1/2"	ZURN	375XL	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
EQ-1	EARTHQUAKE VALVE	-	-	-	-	-	2"	PACIFIC SEISMIC PRODUCTS	314F	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS

DOMESTIC WATER SUPPLY SIZING CALC'S

WATER INFORMATION: 60 PSI HIGH AND 50 PSI LOW	
METER SIZE: 2"	EQUIVALENT LENGTH (DEVELOPED LENGTH 60' + 25% = 75 FT)
PIPING MATERIAL: COPPER TYPE L	
PRESSURE REDUCING VALVE: -	
BACKFLOW PREVENTION ASSEMBLY: SIZE: 2" MAKE : WILKINS MODEL : 375XL	
HYDRAULIC CALCULATION	
A. MINIMUM PRESSURE AT EXISTING STREET	50 PSI
B. SET PRESSURE AT REDUCING VALVE	-
C. PRESSURE LOSS THROUGH 2 INCH METER	1.2 PSI
D. PRESSURE LOSS THROUGH 2" REDUCED PRESSURE BACKFLOW PREVENTER	11 PSI
E. PRESSURE LOSS THROUGH PRESSURE REDUCING VALVE (FALL OFF)	-
F. PRESSURE LOSS REQUIRED AT MOST REMOTE PLUMBING FIXTURE	25 PSI
G. PRESSURE LOSS DUE TO ELEVATION 12 FT X 0.433 =	5.2 PSI
H. TOTAL PRESSURE LOSSES	42.4 PSI
I. PRESSURE AVAILABLE FOR FRICTION LOSS IN THE SYSTEM (A-I)	7.6 PSI
J. PRESSURE/100FT: (7.6 PSI X 100) / 75' =	10.1 PSI/100FT

WATER PIPE SIZING

"L" COPPER @ 10.1 PSIG/100 FT. VELOCITY NOT TO EXCEED 8FT. PER SEC.FOR COLD WATER AND 5FT PER SEC.FOR HOT WATER

PIPE SIZE	WATER SUPPLY FIXTURE UNITS (WSFU)		
	HOT WATER	FLUSH TANK	FLUSH VA
1/2"	0	0	0
3/4"	6	6	0
1"	13	13	0
1-1/4"	26	26	12
1-1/2"	46	51	76
2"	119	175	270
2-1/2"	245	406	329
3"	406	719	666
4"	840	1668	1668

DOMESTIC COLD WATER

WATER SUPPLY FIXTURE UNIT COUNT				
ABBR.	FIXTURE	QTY	WSFU EACH	TOTAL WSFU
WC-1	WATER CLOSET	6	5	30
L-1	LAVATORY	5	1	5
U-1	URINAL	1	4	4
S-1	BREAK ROOM SINK	1	2	2
SS-1	SERVICE SINK	1	3	3
HB-1	HOSE BIBB	5	2.5,1	6.5
DF-1	DRINKING FOUNTAIN	1	0.5	0.5
TOTAL WSFU:				51
C.P.C. MAIN PIPE SIZE BELOW 1ST FLOOR				2" - 52 GPM

WASTE AND VENT

DRAINAGE FIXTURE UNIT COUNT				
ABBR.	FIXTURE	QTY	DFU EACH	TOTAL DFU
WC-1	WATER CLOSET	6	4	24
L-1	LAVATORY	5	1	5
U-1	URINAL	1	2	2
S-1	BREAK ROOM SINK	1	2	2
SS-1	SERVICE SINK	1	3	3
FD-1	FLOOR DRAIN	2	2	4
DF-1	DRINKING FOUNTAIN	1	0.5	0.5
TOTAL WSFU:				40.5

PLUMBING PIPE AND FITTING SCHEDULE

TYPE	SIZE	MATERIAL	FITTINGS	LOCATION
CW, HW, CONDENSATE,	ALL SIZES	TYPE "L" HARD COPPER	WROUGHT COPPER	ABOVE GRADE
	ALL SIZES	TYPE "K" HARD COPPER	WROUGHT COPPER SILVER BRAZED	BELOW GRADE
	ALL SIZES	BLACK STEEL	BLACK STEEL	
	ALL SIZES	POLYETHYLENE	POLYETHYLENE	BELOW GRADE WITH TRACER WIRE
WASTE AND VENT	ALL SIZES	NO-HUB CAST IRON	NO-HUB CAST IRON	ABOVE GRADE & BELOW GRADE

NOTE: SITE WASTE JOINTS SHALL BE OF HEAVY DUTY COUPLINGS OR IF DONE WITH ABS PLASTIC, PROVIDE 6" SAND ALL AROUND PIPING FOR BACKFILL.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
SS	SS	SAN SEWER PIPING ABOVE FLOOR
SS	SS	SAN SEWER PIPING BELOW FLOOR
W	W	WATER PIPING BELOW GRADE
V	V	VENT PIPING ABOVE
CW	CW	COLD WATER PIPING
HW	HW	HOT WATER PIPING
HWR	HWR	HOT WATER RETURN PIPING
G	G	GAS PIPING
SD	SD	STORMDRAIN PIPING
OD	OD	OVERFLOW DRAIN PIPING
CD	CD	CONDENSATE PIPING
DN	DN	DROP IN PIPE
UP	UP	RISE IN PIPE
→	-	DIRECTION OF FLOW
+	HB	HOSE BIBB
	WCO	WALL CLEANOUT
φ	FCO	FLOOR CLEANOUT
	U	UNION
⊥	GV	GATE SHUT-OFF VALVE
⊙	FD	FLOOR DRAIN
OS & Y	OS & Y	OUTSIDE SCREW AND YOKE VALVE
↔	BV	BALL VALVE
∇	CV	CHECK VALVE
⊥	SOC	GAS SHUT-OFF COCK
⊙	POC	POINT OF CONNECTION
⊙	POD	POINT OF DEMOLITION
AP	AP	ACCESS PANEL
BEL	BEL	BELOW
CI	CI	CAST IRON
CLG	CLG	CEILING
CO	CO	CLEAN-OUT
CONN.	CONN.	CONNECT/CONNECTION
FF	FF	FINISHED FLOOR
FLR	FLR	FLOOR
FU	FU	FIXTURE UNIT
GPM	GPM	GALLONS PER MINUTE
I.E.	I.E.	INVERT ELEVATION
NTS	NTS	NOT TO SCALE
SOV	SOV	SHUT-OFF VALVE
TDL	TDL	TOTAL DEVELOPED LENGTH
TYP	TYP	TYPICAL
φ	YCO	YARD CLEANOUT
⊗	-	MIXING VALVE

SHEET INDEX

DWG.	SHEET TITLE
P1.01	PLUMBING FRONT SHEET
P2.01	PLUMBING SITE PLAN
P2.02	PLUMBING ENLARGED PLAN
P3.01	PLUMBING DETAIL SHEET

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Checked by

Revisions

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01.	06-05-2020	50% CD Submittal

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PLUMBING
FRONT SHEET

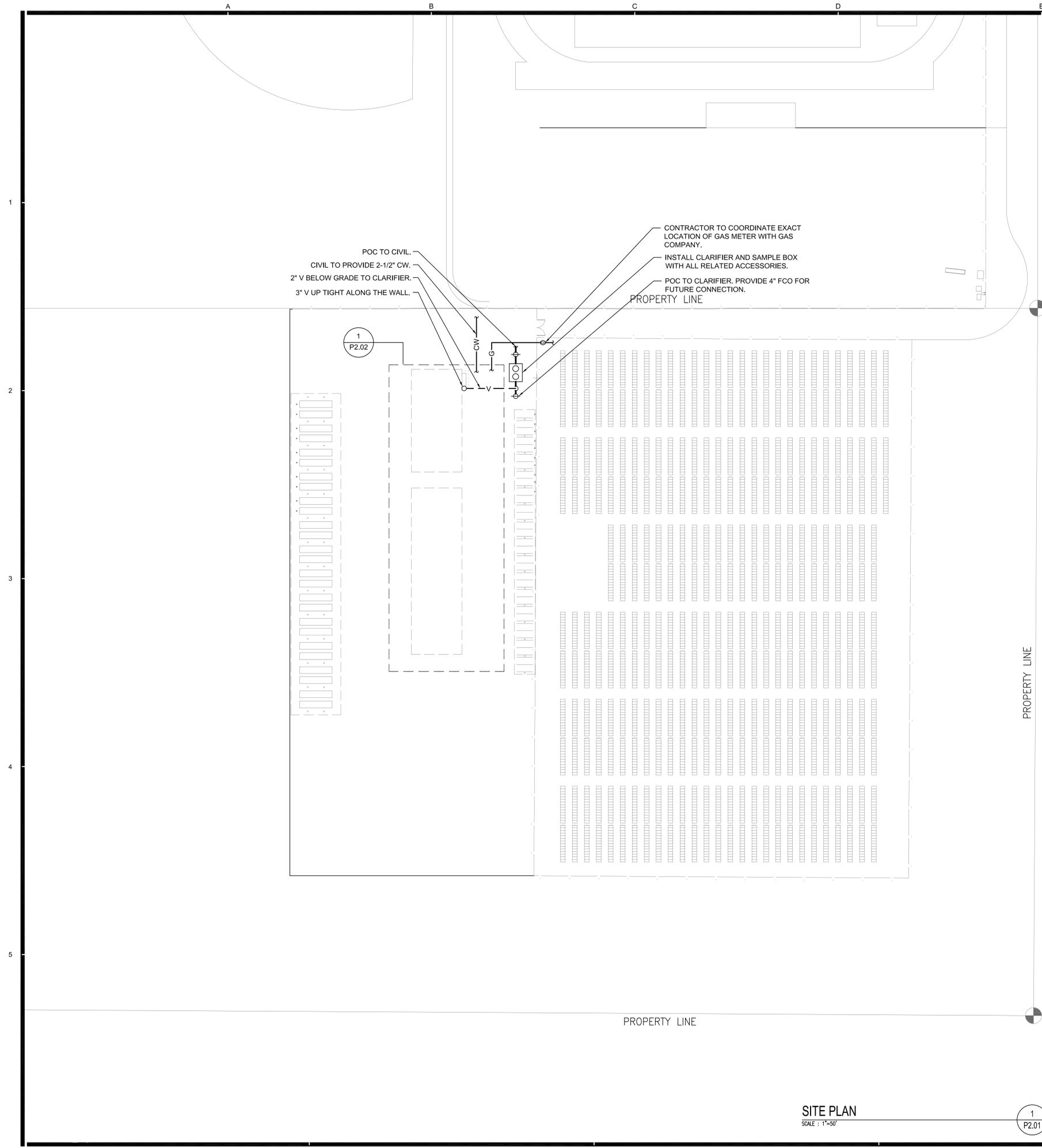
Job No.

2855.0000

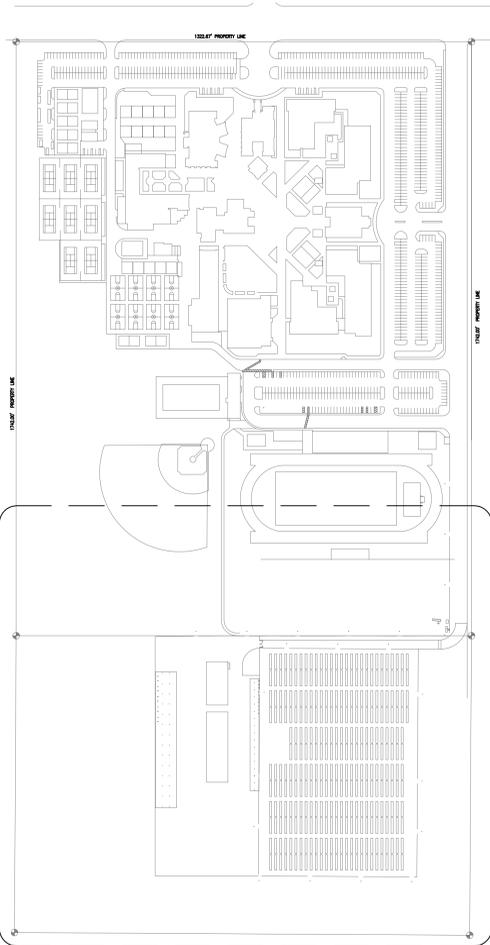
Date

P1.01

11-29-19



- GENERAL NOTES**
- A. THERE SHALL BE NO SERVICE INTERRUPTION. PRIOR TO COMMENCING WORK CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF EXISTING GAS PIPING LINES AT THE FIELD.
 - B. ALL PIPING ON THIS PLAN SHALL BE CONCEALED INSIDE THE WALL, FLOOR OR CEILING UNLESS NOTED OTHERWISE.
 - C. REPAIR PAVING AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS CONDITIONS.
 - D. RUN ALL UTILITIES UP TO GONZALEZ ROAD @ NORTH END OF CAMPUS. PROVIDE NEW A.C. PAVING TO MATCH PATH AND EXTENT OF UTILITIES.
 - E. CONTRACTOR TO COORDINATE NEW GAS PIPING WITH UTILITY COMPANY UP TO NEW METER LOCATION.



SITE PLAN
SCALE : 1"=50'

1
P2.01

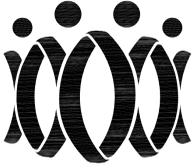


KEY PLAN
SCALE : NONE



AGENCY

PTN. _____ APPL. _____



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PLUMBING
SITE PLAN

Job No.
2855.0000

Date
11-29-19

P2.01

A B C D E F

GENERAL NOTES

A. THERE SHALL BE NO SERVICE INTERRUPTION. PRIOR TO COMMENCING WORK CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF EXISTING GAS PIPING LINES AT THE FIELD.

B. ALL PIPING ON THIS PLAN SHALL BE CONCEALED INSIDE THE WALL, FLOOR OR CEILING UNLESS NOTED OTHERWISE.

C. REPAIR PAVING AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS CONDITIONS.

CONSTRUCTION NOTES

1. TERMINATE 2" CW 5 FEET FROM THE BUILDING. MAKE POC TO SITE WATER SYSTEM. COORDINATE WITH CIVIL SITE UTILITIES PORTION OF THE WORK.

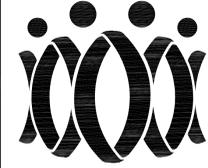
2. 4" WASTE BELOW GRADE TERMINATE 5' FROM BUILDING. MAKE POC TO SITE SEWER SYSTEM. COORDINATE WITH THE CIVIL PORTION OF THE WORK.

3. INSTALL EQ-1 WITH ALL RELATED ACCESSORIES.

4. INSTALL COLD WATER SHUT-OFF VALVE IN YARDBOX BELOW GRADE.

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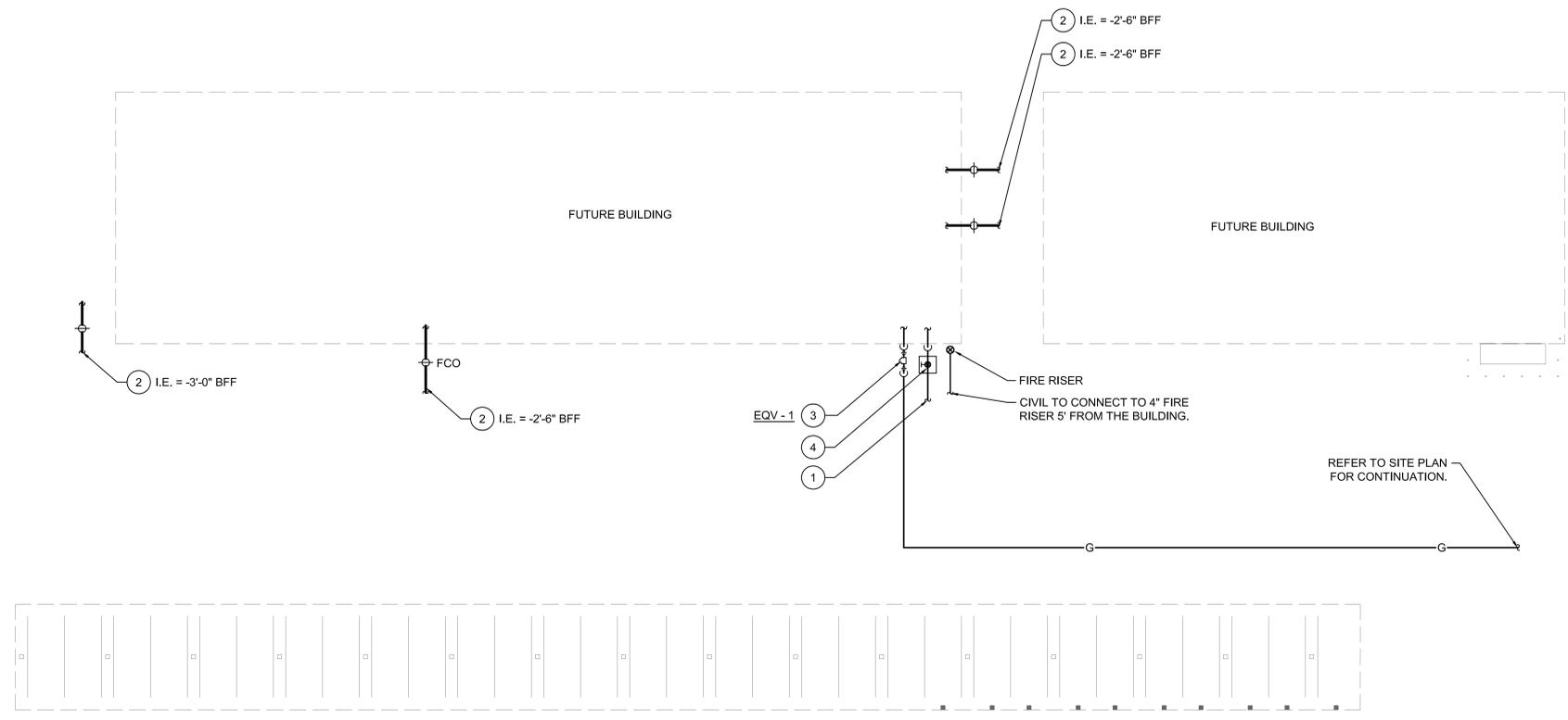
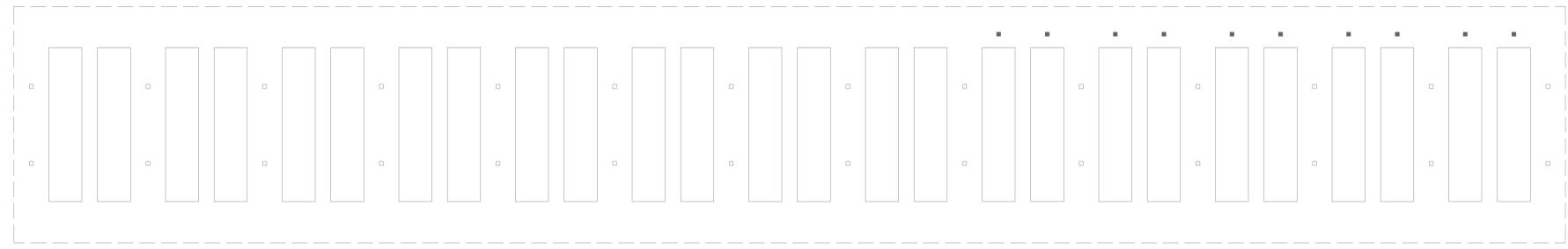
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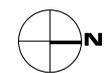
PLUMBING ENLARGED PLAN

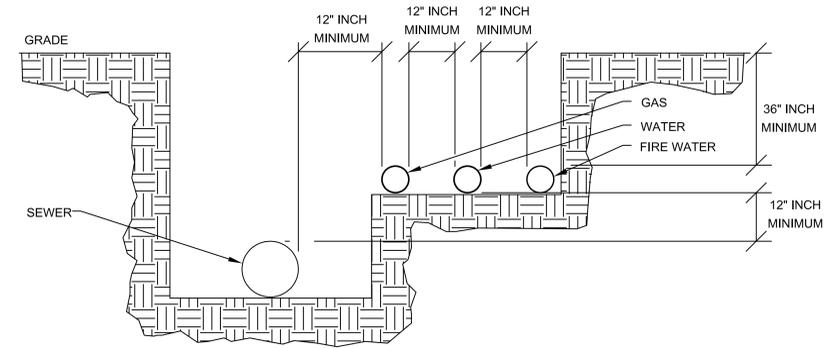
Job No.
2855.0000
Date
11-29-19
P2.02



ENLARGED PLAN
SCALE : 1/16" = 1'-0"

1
P2.02

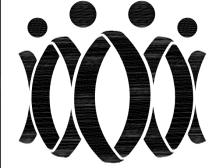




1 UTILITY TRENCH DETAIL
SCALE: NONE

AGENCY

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PLUMBING
DETAILS SHEET

Job No.
2855.0000

Date
11-29-19

P3.01

GENERAL NOTES

1. CONSULT WITH THE OWNER AND ENGINEER OF RECORD BEFORE STARTING WORK.
2. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
3. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE. EACH FENCE PANEL SHALL BE 6FT TALL X 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
4. THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING UNDERGROUND CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE OWNER AT THE TIME THE DRAWINGS WERE PREPARED. THE ENGINEER PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT PROVIDE A GUARANTEE OR WARRANTY IN ANY WAY EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO PROTECT THE EXISTING INSTALLATION AND TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
5. ALL FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUND WIRE, SIZED AS PER C.E.C. ARTICLE 250 AND BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
6. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
7. PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
8. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.
9. COORDINATION:
 - A. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
13. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS".
14. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
15. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
16. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE ENGINEER THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
17. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUITS. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED FOR RIGID CONDUIT. CONDUIT LARGER THAN 1 1/4" SHALL BE GALVANIZED RIGID CONDUIT. ALL EXPOSED CONDUITS, RACEWAYS, AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
18. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK.
19. ALL CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER, TYPE THWN/THHN, RATED FOR 75°C. SIZES #12 AWG MAY BE SOLID OR STRANDED, #10 AND LARGER SHALL BE STRANDED. PROVIDE 75°C RATED AND APPROVED TERMINATION FOR ALL CONDUCTORS.
20. ALL ELECTRICAL WORK SHALL BE PER THE APPLICABLE CEC CODE. CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIRED LABOR, MATERIAL, EXPERTISE AND QUALIFIED PERSONNEL TO COMPLETELY INSTALL IN A CODE COMPLIANT MANNER, ALL WORK SHOWN ON THE PLANS OR REFERRED TO IN THE SPECIFICATIONS.
21. ALL UNDERGROUND PULL BOXES SHALL BE INSTALLED FLUSH WITH GRADE. NOTE: FLUSH IN GRADE PULL BOXES SHALL HAVE BOLT DOWN COVER, AND STAINLESS STEEL BOLTS. BOXES TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. LID SHALL INDICATE "ELECTRIC" OR AS REQUIRED FOR APPLICATION.
22. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHER PROOF NEMA-3R TYPE.
23. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL ALL EQUIPMENT WITH CLEARANCES AS REQUIRED PER CODE.
24. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AT 24" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. ALL UTILITY UNDERGROUND CONDUITS SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS AND DIRECTIONS.
25. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE- 80 AND MINIMUM OF 1" UNLESS NOTED OTHERWISE.
26. PROVIDE PROTECTION FROM PHYSICAL DAMAGE FOR SWITCHBOARDS, PANELBOARDS AND ALL OTHER ELECTRICAL EQUIPMENT.

STANDARD ABBREVIATIONS

- | | |
|------------|------------------------------------|
| A OR AMP | AMPERES |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISH GRADE |
| A/C | ASPHALT CONCRETE |
| BKR. | BREAKER |
| BC | BARE COPPER |
| C | CONDUIT |
| CKT. | CIRCUIT |
| C.O. | CONDUIT ONLY |
| DSA | DIVISION OF THE STATE ARCHITECT |
| E | EXISTING |
| EOR | ENGINEER OF RECORD |
| ER | EXISTING, RELOCATED |
| EX | EXISTING, REMOVED |
| F.O. | FIBER OPTIC |
| GFI | GROUND FAULT INTERRUPTER |
| J.BOX | JUNCTION BOX |
| N.I.C. | NOT IN CONTRACT |
| PA | PUBLIC ADDRESS |
| PH OR Ø | PHASE |
| RSP | REMOTE SECURITY PANEL |
| SLC | SIGNALING LINE CIRCUIT |
| DWP, LADWP | LOS ANGELES DEPT. OF WATER & POWER |
| STC | SECURITY TERMINAL CABINET |
| SPS | SECURITY POWER SUPPLY |
| SW | SWITCH |
| XFMR | TRANSFORMER |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSER |
| TVTC | TELEVISION TERMINAL CABINET |
| TYP. | TYPICAL |
| UFER | UFER GROUND |
| UG | UNDERGROUND |
| U.O.N. | UNLESS OTHERWISE NOTED |
| WP | WEATHERPROOF |
| V.L. | VERIFY LOCATION. |

SYMBOL LIST

(NOT ALL SYMBOLS ARE USED ON PLANS)

- POWER SYSTEM**
- JUNCTION BOX: SURFACE MOUNTED OR INSIDE WALL
 - COMBINATION FUSED MOTOR DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS, HOA, STARTER SIZE 1 MIN. SOLID STATE ADJUSTABLE OVER LOAD PROTECTION, MOUNTED ON INDEPENDENT SUPPORT.
 - SURFACE MOUNTED PANELBOARD
 - FLUSH MOUNTED PANELBOARD
 - DISTRIBUTION PANELBOARD
 - MAIN SWITCHBOARD
 - TRANSFORMER (75 KVA)
 - UNDERGROUND POWER PULLBOX
 - NOTE REFERENCE TAG.
 - CONDUIT TURNED UP
 - CONDUIT TURNED DOWN

CONDUIT/CONDUCTOR TYPE

-
-
-
-
-
-
-

APPLICABLE CODES

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
 2019 CALIFORNIA ENERGY CODE.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2019 EDITION
 (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

ELECTRICAL SHEET INDEX

NO.	SHEET TITLE
E1.01	ELECTRICAL FRONT SHEET
E1.02	SINGLE LINE DIAGRAM
E1.03	PANEL SCHEDULE
E2.01	ELECTRICAL SITE PLAN
E2.02	ELECTRICAL ENLARGED PLAN
E2.03	ELECTRICAL ENLARGED PLAN
E2.04	ELECTRICAL ENLARGED PLAN
E3.01	ELECTRICAL DETAILS
E3.02	ELECTRICAL DETAILS
E-4.01	ELECTRICAL PHOTOMETRIC SITE PLAN
E5.01	T-24 CALCULATIONS
E6.01	EQUIPMENT SPECS

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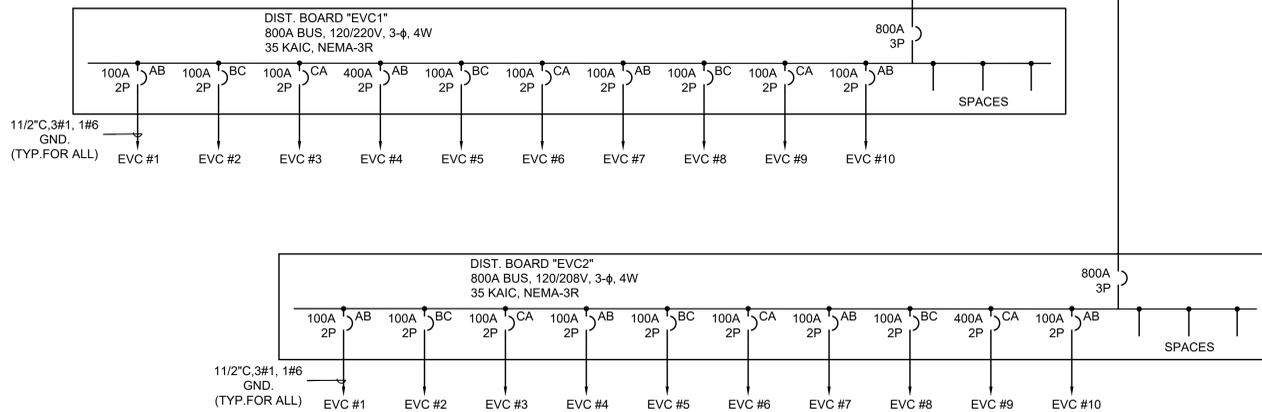
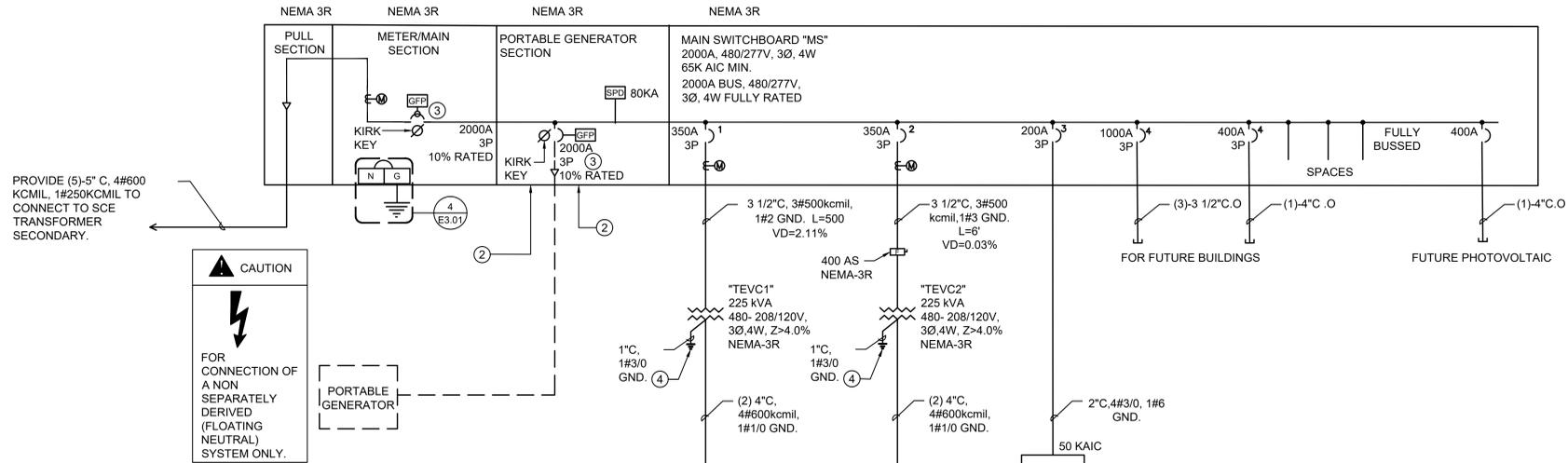
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ELECTRICAL
FRONT SHEET



**OUHSD Transportation Facility
Electrical Service Calculations**

Area classification	Area Sq.Ft.	Lighting +LCL (VA/sf)	A/C +LCL (VA/sf)	Misc (VA/sf)	Total (VA/sf)	Total VA
A. Warehouse	7,900	0.5	12	4	16.5	130,350
B. Admin. Bldg./Shop Bldg.	12,812	3.75	12	5	20.75	265,849
C. School Bus Parking Canopy	8,539	3.75	—	1	4.75	40,560
D. Fleet Vehicle Parking Canopy	24,480	3.75	—	1	4.75	116,280
E. EV Charger	—	—	—	—	—	450,000
F. Site Lighting/Area Lighting	184,456	0.15	—	—	0.15	27,668
H. Shop Equipment	—	—	—	—	—	60,000
I. Plumbing Load	—	—	—	—	—	8,000
J. IT Load and Fire Alarm	—	—	—	—	—	5,000
Sub Total	—	—	—	—	—	1,103,708
Future Load (25%)	—	—	—	—	—	276,927
Total	—	—	—	—	—	1,379,635

1,669 amps
@ 277/480volt, 3 phase, 4 wire

SERVICE LOAD CALCULATION FOR "MAIN SERVICE"

GENERAL NOTES

- LENGTH OF FEEDERS SHOWN ON FEEDER SCHEDULE ARE NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES, VERIFY ACTUAL LENGTHS IN THE FIELD PRIOR TO BID.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
- ALL EQUIPMENT SHALL BE U.L. LISTED AND RATED TO WITHSTAND THE CALCULATED FAULT CURRENT AS SHOWN ON THE DRAWINGS.
- ALL EQUIPMENT, DEVICES AND TERMINALS SHALL BE U.L. LISTED AND RATED FOR CUJAL AND RATED FOR 75°C OPERATION. CONDUCTORS AND SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
- ALL ENCLOSURES SERVING CIRCUITS 100 AMPS OR LESS SHALL BE U.L. LISTED AND CERTIFIED FOR USE WITH 75°C CUJAL CABLES AND TERMINATIONS AND SHALL COMPLY WITH THE REQUIREMENTS OF CEC 110.14(C)(1)(a)(3).
- ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
- ALL CONDUCTORS SHALL BE COPPER, 75°C, TYPE THWN/THHN-2 OR TYPE XHHW, UNLESS OTHERWISE NOTED ON PLANS.
- PROVIDE ARC FLASH STUDY AND LABELING ON ALL EQUIPMENT IN COMPLIANCE WITH CEC, NSPE AND OSHA REQUIREMENTS.

KEY NOTES

- PROVIDE 5 QUICK CONNECT LUGS (CAM-LOCKS) TO PROVIDE CONNECTION TO PORTABLE GENERATOR (3-HOT, 1-NEUTRAL AND 1-GROUND).
- PROVIDE PERMANENT WARNING PLACARD, PLACARD SHALL READ AS SHOWN.
- ENRGY REDUCTION MAINTENANCE SWITCH PER CEC 240.87.
- 3/4" x 10" COPPER CLAD GROUND ROD

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PANEL: DBEVC1 120/208 VOLT 3PH, 4W AMP COPPER BUS									
LOCATION: OUTDOOR Main: 168 KVA									
MOUNTING: PAD LOAD: 467 AMP 168 KVA									
#	TRIP	P	LOAD DESCRIPTION	LOAD (VA)			NT		
				LINE A	LINE B	LINE C			
1	100	2	EV CHARGER 1	8400	8400				
2	100	2	EV CHARGER 2		8400	8400			
3	100	2	EV CHARGER 3	8400		8400			
4	100	2	EV CHARGER 4	8400	8400				
5	100	2	EV CHARGER 5		8400	8400			
6	100	2	EV CHARGER 6	8400		8400			
7	100	2	EV CHARGER 7	8400	8400				
8	100	2	EV CHARGER 8		8400	8400			
9	100	2	EV CHARGER 9	8400		8400			
10	100	2	EV CHARGER 10	8400	8400				
11			2 SPACE						
12			2 SPACE						
11			2 SPACE						
12			3 SPACE						
SUBTOTALS:				58800	58800	50400			
LARGEST MOTOR/LCL ADDER:									
TOTAL VA/PHASE:				58800	58800	50400			
LINE AMPS:				490	490	420			

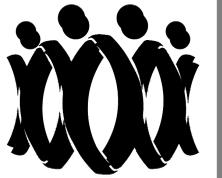
PANEL: DBEVC2 120/208 VOLT 3PH, 4W AMP COPPER BUS									
LOCATION: OUTDOOR Main: 800A									
MOUNTING: PAD LOAD: 467 AMP 168 KVA									
#	TRIP	P	LOAD DESCRIPTION	LOAD (VA)			NT		
				LINE A	LINE B	LINE C			
1	100	2	EV CHARGER 1	8400	8400				
2	100	2	EV CHARGER 2		8400	8400			
3	100	2	EV CHARGER 3	8400		8400			
4	100	2	EV CHARGER 4	8400	8400				
5	100	2	EV CHARGER 5		8400	8400			
6	100	2	EV CHARGER 6	8400		8400			
7	100	2	EV CHARGER 7	8400	8400				
8	100	2	EV CHARGER 8		8400	8400			
9	100	2	EV CHARGER 9	8400		8400			
10	100	2	EV CHARGER 10	8400	8400				
11			2 SPACE						
12			2 SPACE						
13			2 SPACE						
14			3 SPACE						
SUBTOTALS:				58800	58800	50400			
LARGEST MOTOR/LCL ADDER:									
TOTAL VA/PHASE:				58800	58800	50400			
LINE AMPS:				490	490	420			

PANEL: LPS 120/208 VOLT, 3 PH, 4W 225 AMP COPPER BUS											
LOCATION: (PANEL TO HAVE BOLT-ON BREAKERS) MAIN: 200A											
MOUNTING: SURFACE FLUSH STANDING LOAD: 6.0 KVA 20 AMPS											
CR #	VA LOAD	LOAD DESCRIPTION	OUTLETS			CR #	VA LOAD	LOAD DESCRIPTION	OUTLETS		
			LINE A	LINE B	LINE C				LINE A	LINE B	LINE C
1	1446	POLE LIGHT	6	1	30	20	1				2
3	1928	POLE LIGHT	8	1	30	20	1				4
5	1446	POLE LIGHT	6	1	30	20	1				6
7					30	20	1				8
9					2	30	20	1			10
11						30	20	1			12
13					2	30	20	1			14
15						30	20	1			16
17					2	30	20	1			18
19						30	20	1			20
21					2	30	20	1			22
23						30	20	1			24
25					2	30	20	1			26
27						30	20	1			28
29					2	30	20	1			30
31						30	20	1			32
33					2	30	20	1			34
35						30	20	1			36
37					2	30	20	1			38
39						30	20	1			40
41					1	30	20	1			42
SUB - TOTALS			0			0			0		
LINE TOTALS:			1446			1928			1446		
LCL ADDER:			361.5			482			361.5		
TOTAL VA PER PHASE:			1807.5			2410			1807.5		
LINE AMPS:			15			20			15		

NOTE: 1. Load OK with XFMR

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PANEL
SCHEDULE

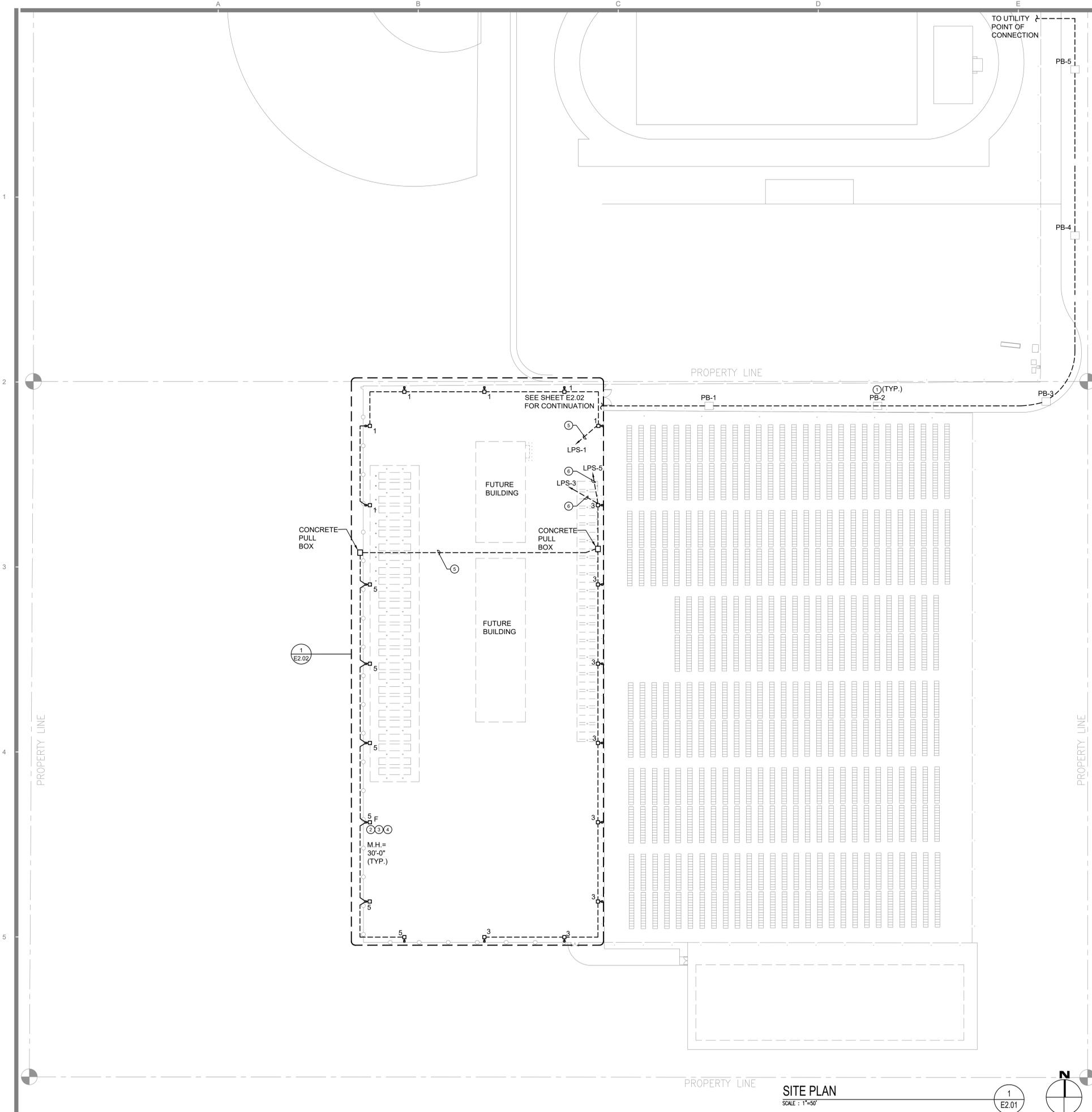
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2855.0000

Date

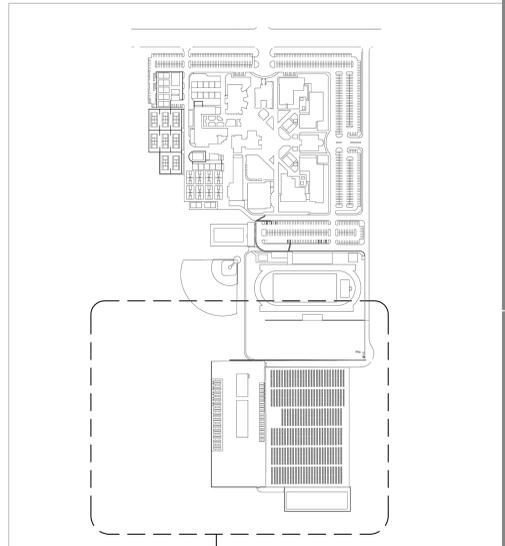
11-29-19

E1.03



- ### KEYED NOTES
- PROVIDE SCE 30"W X 48"L X 42"D U.G PULL BOX WITH SOLID BOTTOM AND TRAFFIC RATED STEEL BOLT DOWN COVER. PROVIDE LABEL ON COVER. USE JENSEN PRECAST K3048-DI44-TCI-11 OR EQUAL.
 - PROVIDE AND INSTALL CONCRETE POLE BASE WITH POLE LIGHT ASSEMBLY AT THIS LOCATION. SEE 3/E3.02.
 - SINGLE HEAD POLE MOUNTED OUTDOOR LED LIGHT FIXTURE MODEL # LITHONIA DSX1LED P7 40K T4M MVOLT SPA DDBXD w/ LIGHT POLE #LITHONIA SSS 30 5G DM19AS DDBXD, POLE HEIGHT TO BE 28'. PROVIDE OUT LIGHTING CONTROL SENSOR 'PIRH' INTEGRATED TO LED FIXTURE.
 - PROVIDE TIME CLOCK MODEL NO. nLight ARP INTENCO8NLT 8SPR INSTALLED IN NEMA-3R ENCLOSURE FOR SITE LIGHTING CONTROL. CONTRACTOR TO PROVIDE SEPARATE NEMA-3R ENCLOSURE.
 - 1"C, 2#10, 1#10 GND.
 - 1"C, 2#8, 1#10 GND.

- ### GENERAL NOTES
- ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AT 24" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. ALL UTILITY UNDERGROUND CONDUITS SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS AND DIRECTION.
 - ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80 AND MINIMUM OF 1" UNLESS NOTED OTHERWISE.
 - LABEL ALL WIRING CIRCUITS INSIDE ENCLUSER OR HANDHOLES. PROVIDE I.D. TAGS INSIDE HANDHOLES RATED FOR WET LOCATION.
 - PROVIDE REQUIRED AUXILIARY J-BOXES, PULL BOXES OR HANDHOLES PER CEC 352.26/358.26 TO FACILITATE INSTALLATION OF BRANCH CIRCUIT AND WIRING OR FEEDERS. THERE SHALL BE NOT MKORE THAN THE EQUIVALENT OF FOUR QUARTER BEND (360 DEGREES) BETWEEN PULL POINTS FOR EXAMPLE, CONDUIT BODIES AND BOXES.



SITE PLAN
SCALE: 1"=50'

KEY PLAN
SCALE: NONE

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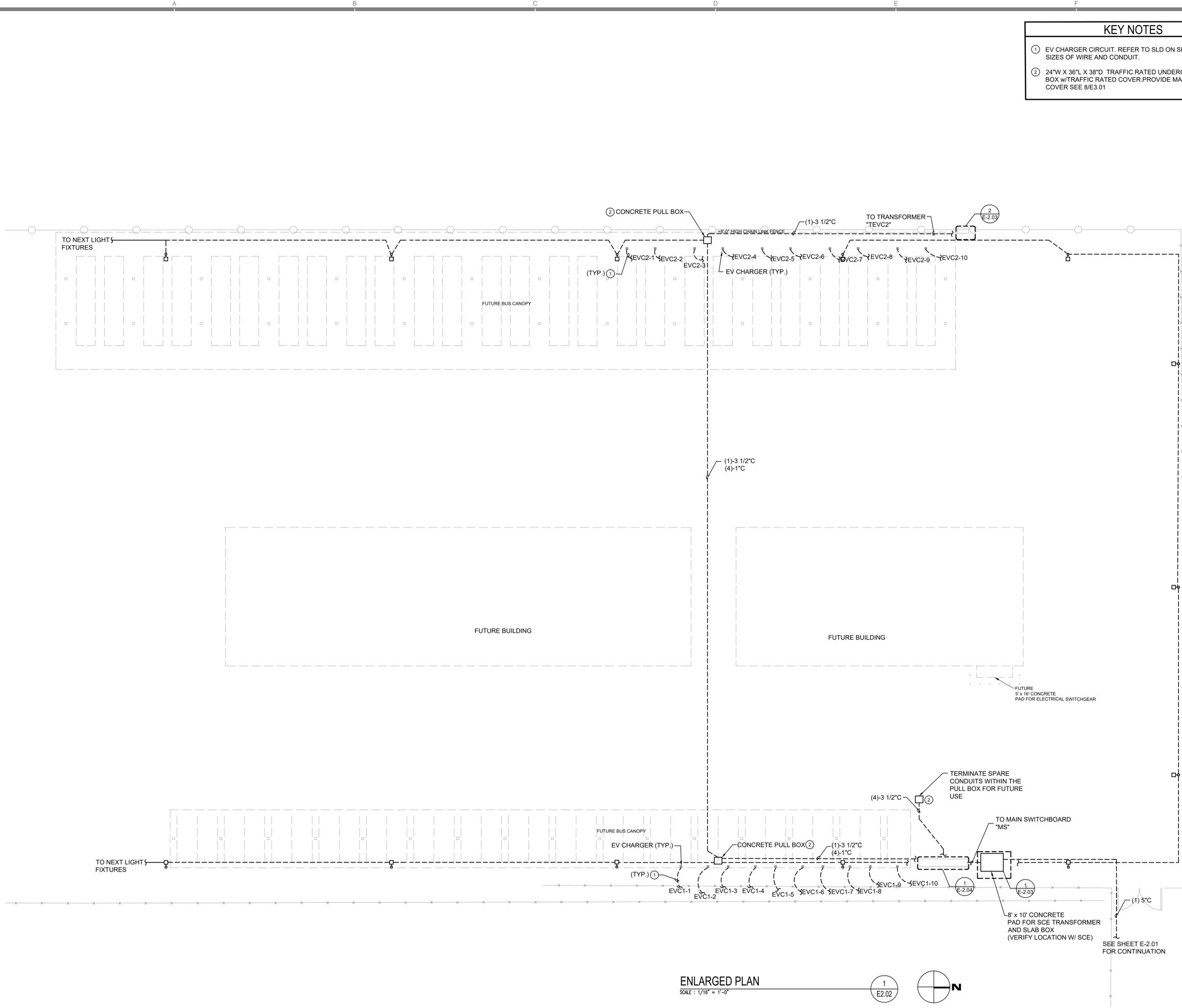
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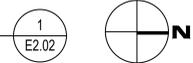
ELECTRICAL
SITE PLAN

Job No: 2855.0000
Date: 11-29-19
E2.01

- KEY NOTES**
- EV CHARGER CIRCUIT. REFER TO SLD ON SHEET E-0.2 FOR SIZES OF WIRE AND CONDUIT.
 - 24"W X 36"L X 38"D TRAFFIC RATED UNDERGROUND PULL BOX W/TRAFFIC RATED COVER.PROVIDE MARKINGS TO COVER SEE 0/E3.01



ENLARGED PLAN
SCALE: 1/16" = 1'-0"



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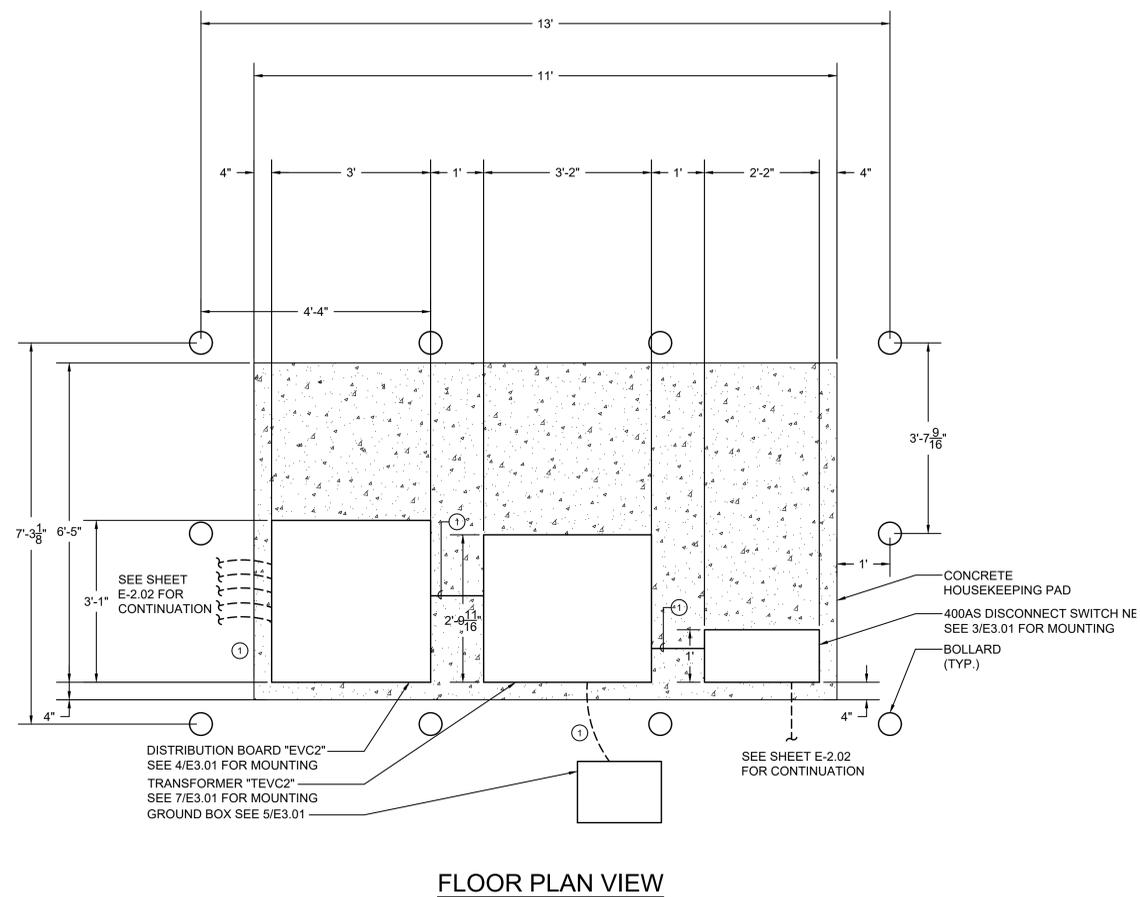
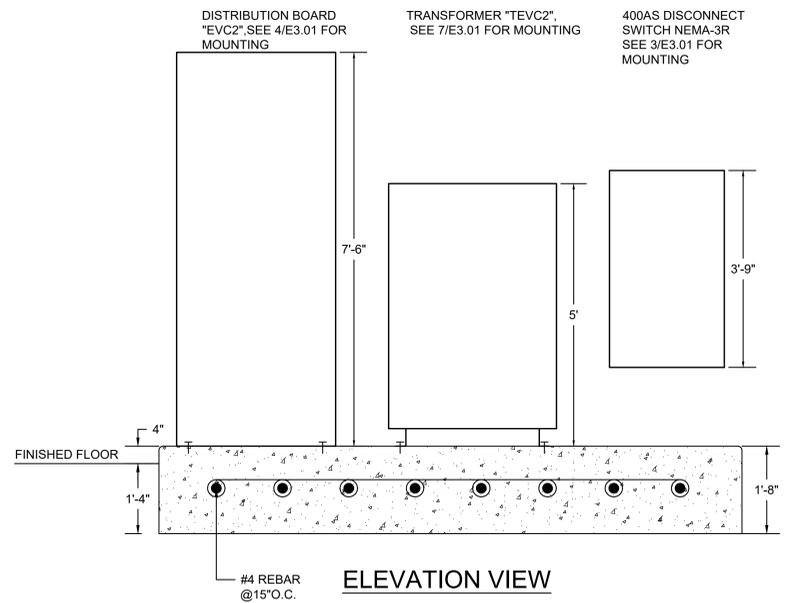
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ELECTRICAL ENLARGED PLAN

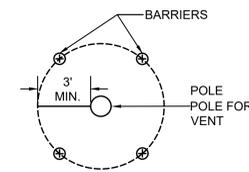
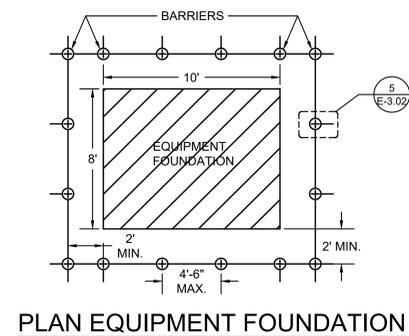
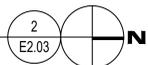
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Date 11-29-19

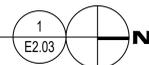
E2.02



ENLARGED PLAN XFMR PAD
3/4" = 1'-0"

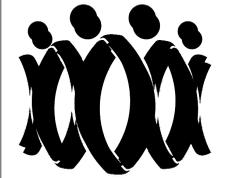


SCE TRANSFORMER PAD /BARRIER PROTECTIONDETAIL
1/4" = 1'-0"



KEY NOTES

- ① SEE SINGLE LINE DIAGRAM ON SHEET E-1.02 FOR SIZES OF WIRE AND CONDUIT.



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(818) 248-4700 | (805) 486-4700



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OXNARD HIGH SCHOOL
TRANSPORTATION FACILITY

3400 W GONZALES RD,
OXNARD, CA 93036

ELECTRICAL ENLARGED

PLAN

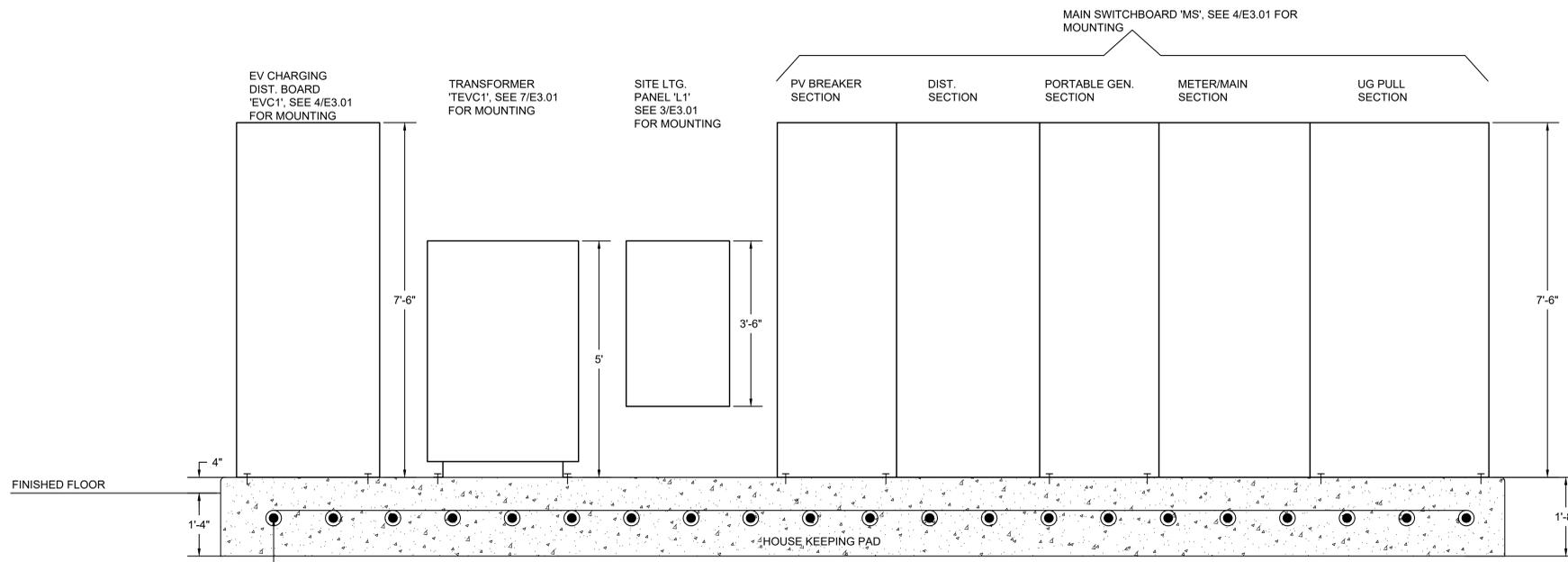
Job No.

2855.0000

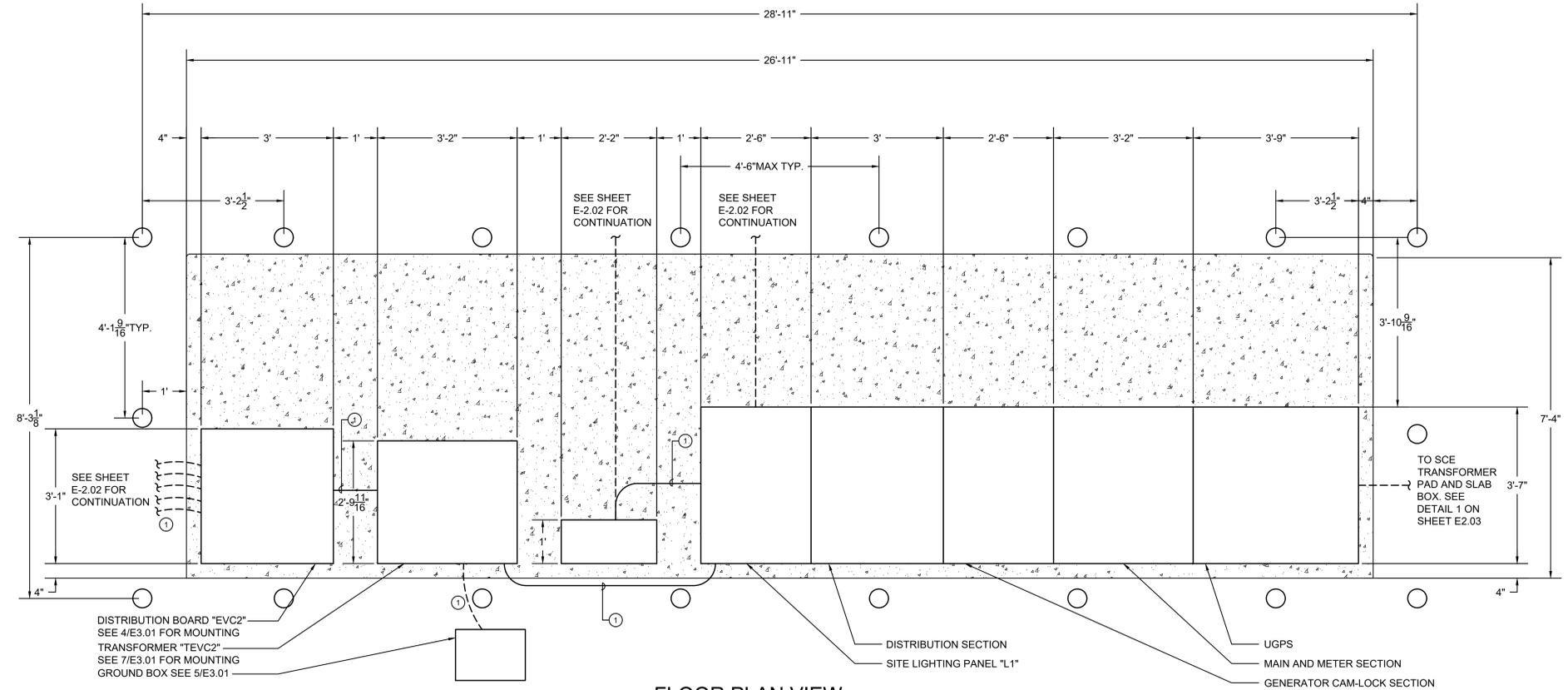
Date

11-29-19

E2.03



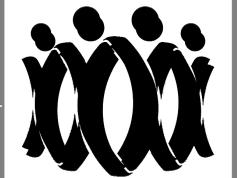
ELEVATION VIEW



FLOOR PLAN VIEW

KEY NOTES

① SEE SINGLE LINE DIAGRAM ON SHEET E-1.02 FOR SIZES OF WIRE AND CONDUIT.



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PLAN

Job No.

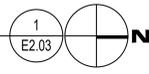
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Date

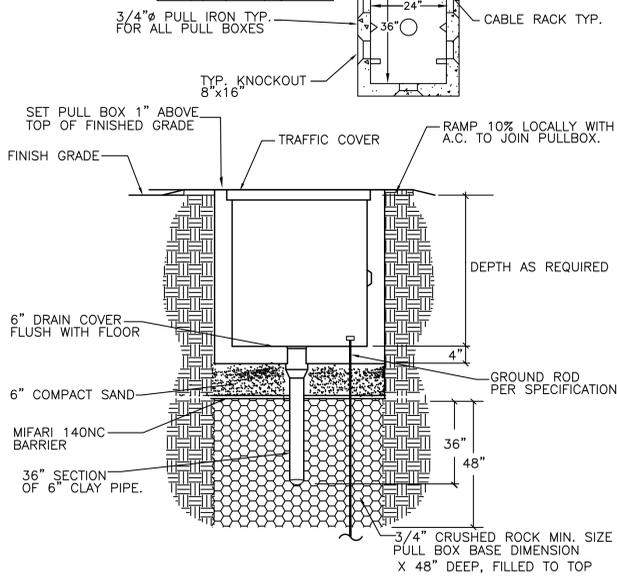
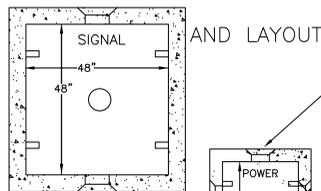
11-29-19

E2.04

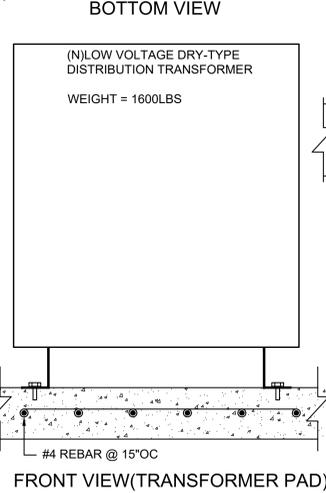
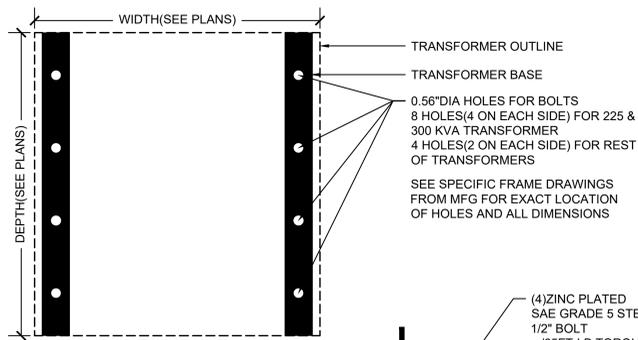
ENLARGED PLANS MS AND XFMR PAD
3/4" = 1'-0"



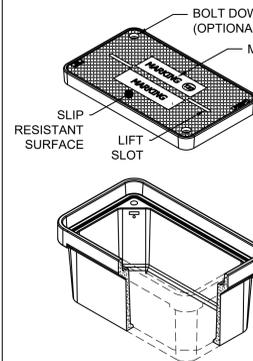
IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED. EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL VAULT MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST UTILITY PULL BOXES WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX.



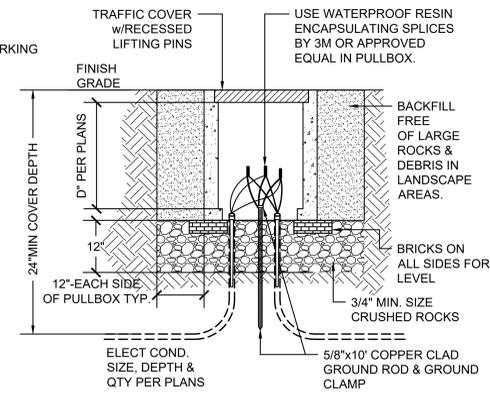
PRECAST CONCRETE PULL BOXES SCALE: NONE 8



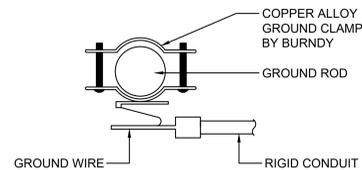
DRY TYPE TRANSFORMER MOUNTING DETAIL(225KVA) SCALE: NONE 7



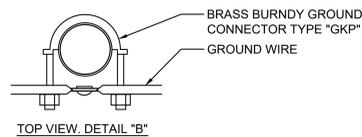
PLAN VIEW - TYPICAL LAYOUT



CONCRETE POLYMER PULLBOX DETAIL SCALE: NONE 6

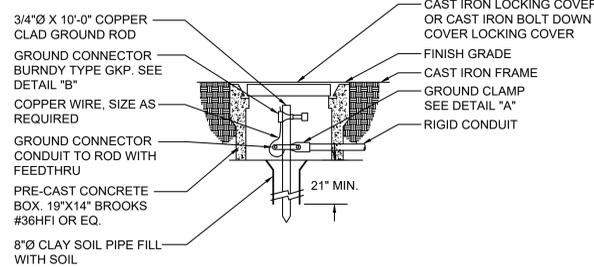


PLAN VIEW OF GROUND CLAMP TO RIGID CONDUIT DETAIL "A"

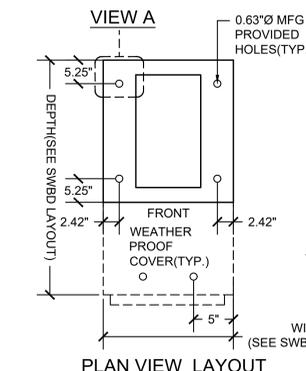


TOP VIEW DETAIL "B"

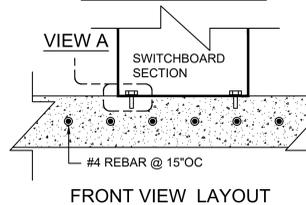
NOTE: PROVIDE ADDITIONAL GROUND RODS IN CONCRETE BOXES 72" O.C. AS NEEDED TO MEET 25 OHM REQUIREMENT EXTENDING SAME CONDUIT AND WIRE AND USING SAME CLAMPS. 25 OHM RESISTANCE TO GROUND MAXIMUM SHALL BE PROVIDED USING GROUND RODS ONLY. PRIOR TO THE CONNECTION OF CONDUIT AT ROD OR PANEL OR OTHER GROUND PATH.



GROUND BOX DETAIL SCALE: NONE 5

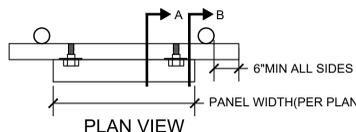


PLAN VIEW LAYOUT



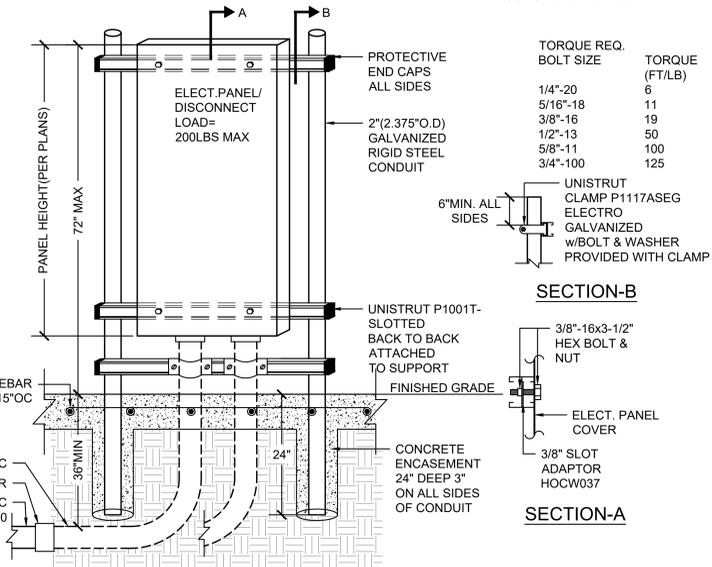
FRONT VIEW LAYOUT

SWITCHBOARD MOUNTING DETAIL SCALE: NONE 4

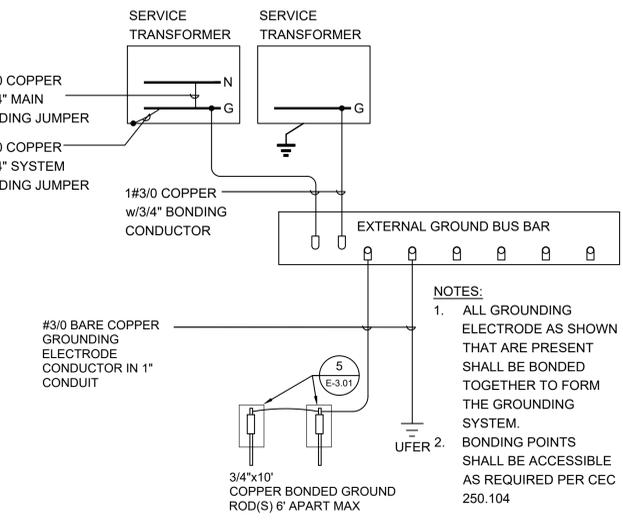


PLAN VIEW

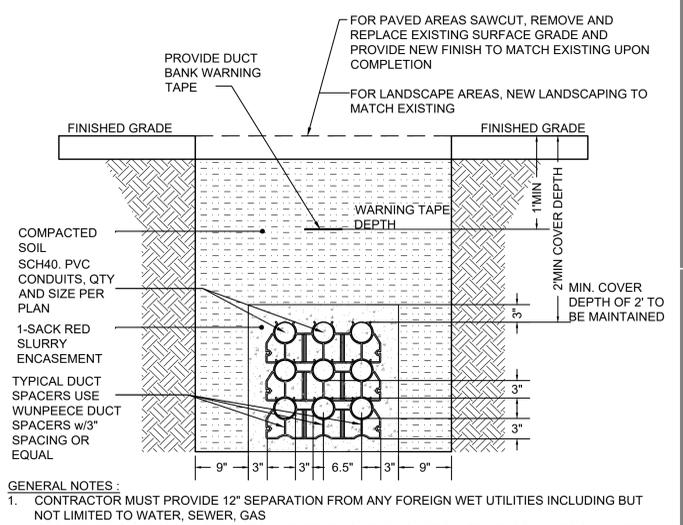
NOTES:
1. THIS DETAIL PROVIDES MOUNTING INFORMATION ONLY. FOR COMPLETE EQ DIMENSIONS, LAYOUT SEE PLANS
2. FOR COMPLETE EQ DIMENSIONS, LAYOUT SEE PLANS
3. FOR COMPLETE DIMENSIONS OF CONCRETE PAD SEE PLANS



OUTDOOR ELECTRICAL PANEL MOUNTING DETAIL SCALE: NONE 3



SERVICE GROUNDING SYSTEM SCALE: NONE 2



TYPICAL DUCT BANK DETAIL SCALE: NONE 1

GENERAL NOTES:
1. CONTRACTOR MUST PROVIDE 12" SEPARATION FROM ANY FOREIGN WET UTILITIES INCLUDING BUT NOT LIMITED TO WATER, SEWER, GAS
2. PROVIDE 2-3" & 2-4" SPARE CONDUITS IN EVERY DUCT BACK SECTION, SPARE CONDUITS SHALL BE PLACED AT THE TOP ROW OF THE DUCT BANK
3. LEVEL THE BAST PRIOR TO PLACING CONDUITS

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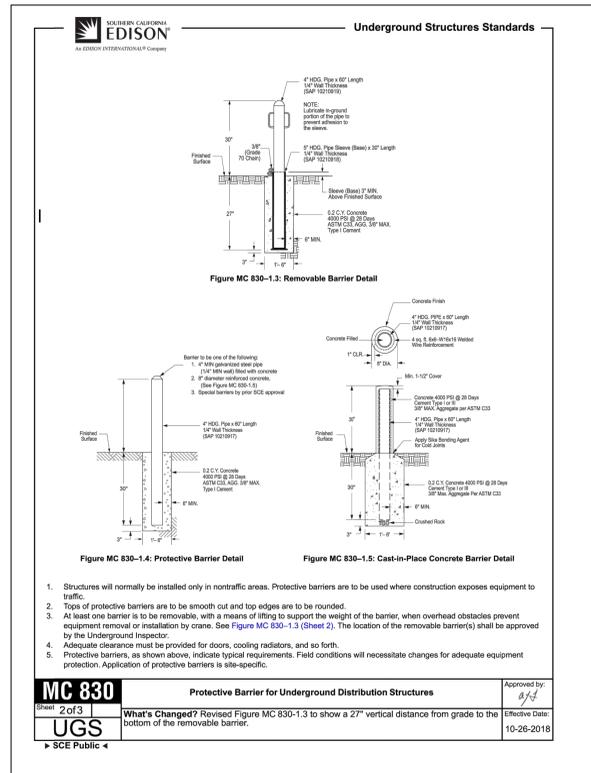
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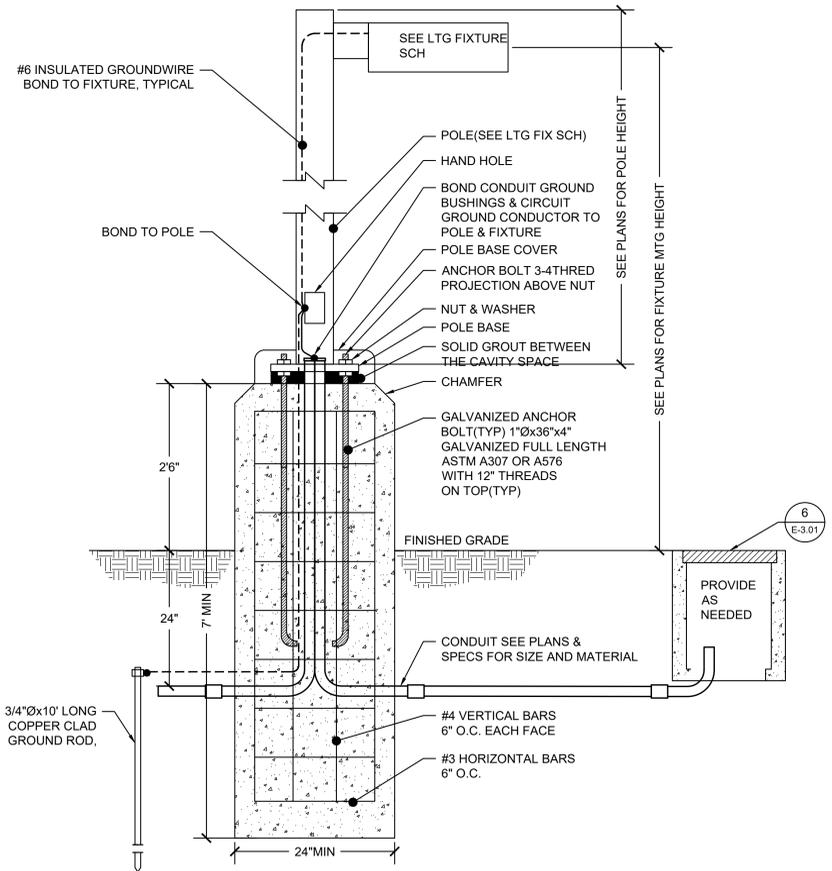
ELECTRICAL
DETAILS SHEET

Job No:
2855.0000
Date:
11-29-19
E3.01



SCE PROTECTIVE BARRIER DETAILS SCALE: NONE 5

NOT USED SCALE: NONE 4



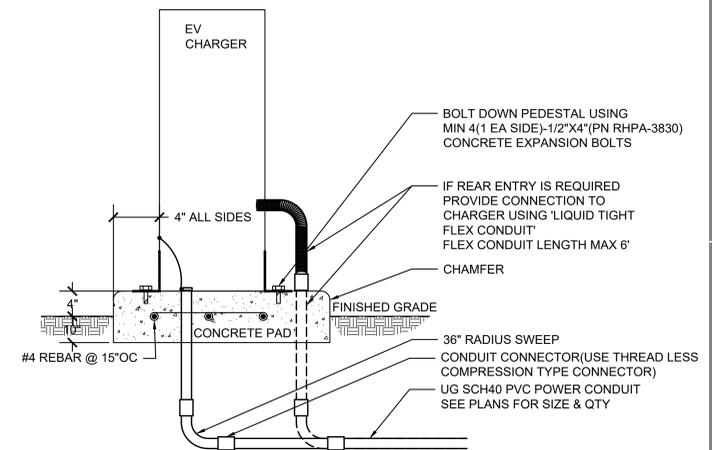
LIGHT POLE BASE DETAIL (FOR VEHICULAR TRAFFIC AREA) SCALE: NONE 3

AC Level 2 70A SINGLE PORT CHARGING STATION (PEDESTAL)

SINGLE PORT 70A		
MODEL	MODEL Number	EVP-2001-70-P-001
	PRODUCT Number	L2P-70-240-16-001
Power per Port	16.8 kW (240 VAC @ 70A)	
ELECTRICAL SERVICE		
Power	240/208 VAC, 70A Load with 100A Branch Circuit Per Port	
Service Panel	100A Breakers per Port (No GFCI)	
Service Wiring	3-Wire (L1, L2, Earth Ground)	
FUNCTIONAL INTERFACES		
Connector Type	SAE J1772	
Charging Protocol	SAE J1772	
Standard Cable Length	25 ft	
Cable Retractor	Optional (Cable 18 ft w/ Cable Management)	
LCD Display	500 Nits, 7" Color, 800 x 480, UV Protected	
Card Reader	ISO 14443 Type A & B, ISO 18092 NFC	
SAFETY AND CONNECTIVITY		
Ground Fault Detection	20 mA	
Plug-Out Detection	SAE J1772	
Power Measurement (opt)	Accuracy: 1% - 5%	
Power Report Interval	Every 15 minutes on the hour	
Wireless	2.4 GHz Wi-Fi (802.11 b/g/n)	
Wide Area Network	4G Modem	
Communication Protocols	OCPP 1.5 and 1.6 Compliant	
SAFETY AND OPERATION		
Enclosure Rating	NEMA 3R	
Regulatory Compliance	ETL Certified for USA and cUL Certified for Canada; Complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625, EMC FCC Part 15 Class A	
Operating Temperature	-30°C to +60°C (-22°F to 140°F)	
Storage Temperature	-50°C to +80°C (-58°F to 176°F)	
Humidity	95% Non-Condensing	
<ul style="list-style-type: none"> ▶ SINGLE PORT 70A LEVEL 2 ▶ CHARGING PROTOCOL: SAE J1772 ▶ 16.8 KW PER PORT ▶ 25 FT or 18 FT with CABLE RETRACTOR ▶ NEMA 3R HOUSING ▶ RFID READER ▶ OCPP COMPLIANT - STANDARD ▶ 7" COLOR SCREEN - STANDARD ▶ UL COMPLIANT - ETL CERTIFIED ▶ OPTIONS: <ul style="list-style-type: none"> • CABLE RETRACTOR • CREDIT CARD READER • CREDIT CARD SCANNER 		

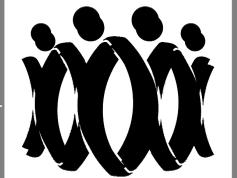
BTC POWER
1719 S Grand Ave, Santa Ana, CA 92705
www.btcpower.com
sales@btcpower.com

ELECTRIC VEHICLE CHARGING TECHNICAL DATA SCALE: NONE 2



EV CHARGER MOUNTING DETAIL SCALE: NONE 1

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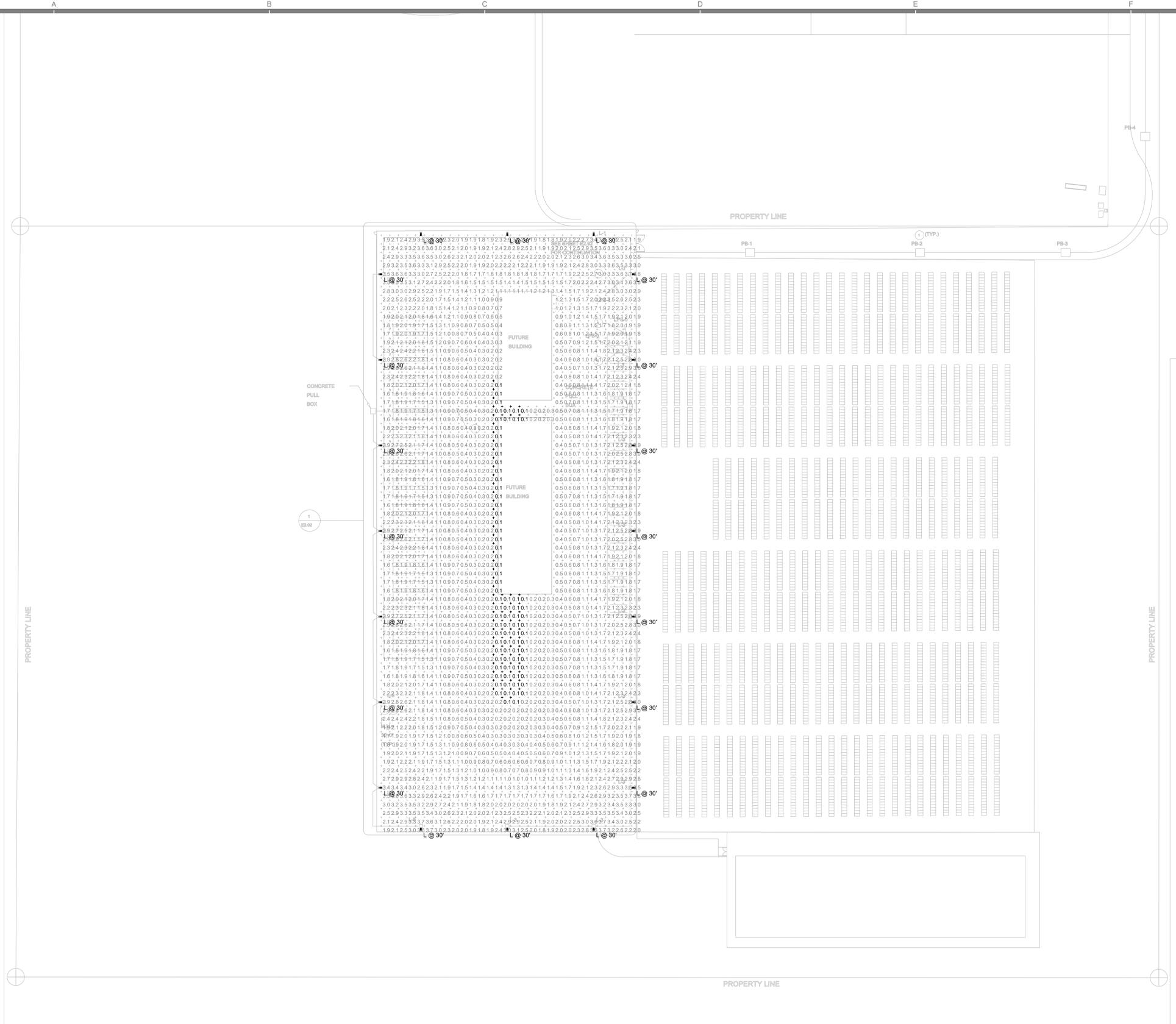
3400 W GONZALES RD, OXNARD, CA 93036

ELECTRICAL
DETAILS SHEET

Job No: 2855.0000

Date: 11-29-19

E3.02



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING & DRIVE AISLE	+	1.5 fc	3.7 fc	0.1 fc	37.0:1	15.0:1

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Lamp	Number Lamps	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Description
⊕	L		20	Lithonia Lighting	DSX1 LED P7 40K T4M MVOLT	LED	1	20295	1	0.9	183	100%	TYPE IV SHORT-BUS RASTING BS-UG - G4	DSX1 LED P7 40K T4M MVOLT

PHOTOMETRIC SITE PLAN
SCALE: 1"=50'

1
E4.01



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PTN: - - APPL: - -

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OXNARD, CA 93036

Job No: 2855.0000

Date: 11-29-19

E4.01

1

2

3

4

5

Switchboard General Information		Switchboard Units Information																																																																		
<p>Item #, Line C - Specifications</p> <p>Quantity: 1</p> <p>Alignment: Front Access/ Front and Rear Align</p> <p>Service: 208Y/120V 3 Phase 4 Wire Minimum Interrupt Rating: 35 kA</p> <p>Bus Specifications: Bus Bracing Rating: 65kA</p> <p>Bus Arays: 600</p> <p>Neutral Arays: 300</p> <p>Bus Material: Aluminum</p> <p>Ground Bus Material: Aluminum 25 X 2.6 Ground Bus Bolted To Frame, (1) 40-355 knurl Ground Lug</p> <p>Heat Test:</p> <p>Incoming Information:</p> <p>Incoming Entry Bottom: Incoming Qty & Size: Terminals, Mechanical, (3) 3/4-480 knurl, Bottom</p> <p>Structure Specifications:</p> <p>Main Service Entrance: Enclosure Type: Type 3R (Inrush) w/ Flat Roof</p> <p>Enclosure: Outdoor Enclosure Configuration Per Section 254</p> <p>Seismic Label (ICC-ES Evaluator Qualified) - Free-standing</p> <p>Refer to seismic installation data sheet T011886002 and drawing 1A32457 for details.</p> <p>Enclosure properties: Structure # Description/Modifications: Bottom mounting chassis mounted main device (Incoming Main Device/MLO Section)</p>	<table border="1"> <tr><td>Structure</td><td>1</td></tr> <tr><td>Height</td><td>87.75</td></tr> <tr><td>Depth</td><td>36.00</td></tr> <tr><td>Width</td><td>36.00</td></tr> <tr><td>Depth to Centerline</td><td>18.00</td></tr> <tr><td>Depth to Outside Edge</td><td>36.00</td></tr> <tr><td>Height to Top of Main Bus</td><td>87.75</td></tr> <tr><td>Height to Top of Main Bus (to 1st Bus Bar)</td><td>135.00</td></tr> <tr><td>Height to Top of Main Bus (to 2nd Bus Bar)</td><td>172.50</td></tr> </table>	Structure	1	Height	87.75	Depth	36.00	Width	36.00	Depth to Centerline	18.00	Depth to Outside Edge	36.00	Height to Top of Main Bus	87.75	Height to Top of Main Bus (to 1st Bus Bar)	135.00	Height to Top of Main Bus (to 2nd Bus Bar)	172.50	<table border="1"> <thead> <tr> <th>Item #</th> <th>Unit</th> <th>Description/Modifications</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>1</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10</td><td>1</td></tr> <tr><td>2</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10</td><td>1</td></tr> <tr><td>3</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10</td><td>1</td></tr> <tr><td>4</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10</td><td>1</td></tr> <tr><td>5</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10</td><td>1</td></tr> <tr><td>6</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) 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#	Unit	Description/Modifications	Quantity	1	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	2	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	3	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	4	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	5	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	6	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	7	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	8	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	9	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	10	Feeder Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (1) #14-10 Neutral Terminal, (1) #14-10	1	11	Main Breaker	Chassis MM-100A-2P JFO 225A Frame, Trip 100A, Thermal Mag Terminals, Mechanical, (3) 3/4-480 knurl, Bottom Neutral Terminal, (3) 3/4-480 knurl	1
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<p>Item #, Line C - Specifications</p> <p>Quantity: 1</p> <p>Alignment: Front Access/ Front and Rear Align</p> <p>Service: 208Y/120V 3 Phase 4 Wire Minimum Interrupt Rating: 35 kA</p> <p>Bus Specifications: Bus Bracing Rating: 65kA</p> <p>Bus Arays: 600</p> <p>Neutral Arays: 300</p> <p>Bus Material: Aluminum</p> <p>Ground Bus Material: Aluminum 25 X 2.6 Ground Bus Bolted To Frame, (1) 40-355 knurl Ground Lug</p> <p>Heat Test:</p> <p>Incoming Information:</p> <p>Incoming Entry Bottom: Incoming Qty & Size: Terminals, Mechanical, (3) 3/4-480 knurl, Bottom</p> <p>Structure Specifications:</p> <p>Main Service Entrance: Enclosure Type: Type 3R (Inrush) w/ Flat Roof</p> <p>Enclosure: Outdoor Enclosure Configuration Per Section 254</p> <p>Seismic Label (ICC-ES Evaluator Qualified) - Free-standing</p> <p>Refer to seismic installation data sheet T011886002 and drawing 1A32457 for details.</p> <p>Enclosure properties: Structure # Description/Modifications: Bottom mounting chassis mounted main device (Incoming Main Device/MLO Section)</p>	<table border="1"> <tr><td>Structure</td><td>1</td></tr> <tr><td>Height</td><td>87.75</td></tr> <tr><td>Depth</td><td>36.00</td></tr> <tr><td>Width</td><td>36.00</td></tr> <tr><td>Depth to Centerline</td><td>18.00</td></tr> <tr><td>Depth to Outside Edge</td><td>36.00</td></tr> <tr><td>Height to Top of Main Bus</td><td>87.75</td></tr> <tr><td>Height to Top of Main Bus (to 1st Bus Bar)</td><td>135.00</td></tr> <tr><td>Height to Top of Main Bus (to 2nd Bus Bar)</td><td>172.50</td></tr> </table>	Structure	1	Height	87.75	Depth	36.00	Width	36.00	Depth to Centerline	18.00	Depth to Outside Edge	36.00	Height to Top of Main Bus	87.75	Height to Top of Main Bus (to 1st Bus Bar)	135.00	Height to Top of Main Bus (to 2nd Bus Bar)	172.50	<table border="1"> <thead> <tr> <th>Item #</th> <th>Unit</th> <th>Description/Modifications</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>1</td><td>Feeder Breaker</td><td>Chassis MM-100A-2P JFO 225A Frame, Trip 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REGISTERED PROFESSIONAL ENGINEER
HARVEY H. CHIRKIN, LICENSE NO. 22864, STATE OF CALIFORNIA

Drawn by: _____

Checked by: _____

Revisions	No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewellling & Moody.

OXNARD UNION H.S. DISTRICT

OXNARD HIGH SCHOOL
TRANSPORTATION FACILITY

3400 W GONZALES RD,
OXNARD, CA 93036

EQ. SPECS

Job No: 2855.0000

Date: 11-29-19

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