NOTICE TO CONTRACTORS

- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2018 EDITION EXCEPT AS MODIFIED BY THE CITY'S STANDARD DRAWINGS OR THE SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK.
- ALL A.C. PAVEMENT AND CONCRETE IMPROVEMENTS TO BE JOINED SHALL BE SAWCUT.
- THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNED ON THE PLANS. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY.
- DURING THE PERFORMANCE OF WORK DONE UNDER THE CONTRACT, THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO ANY STRUCTURES ADJACENT TO THE PROJECT BOUNDARIES.
- EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS OR PARENT UTILITY COMPANIES AND MAY NOT ACCURATELY REPRESENT THEIR ACTUAL LOCATIONS. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS (VERTICAL AND HORIZONTAL) OF ALL UTILITIES, IN THE FIELD OR COORDINATE SUCH INDEPENDENT VERIFICATION WITH THE PARENT UTILITY COMPANIES AND PROVIDE THE CITY WITH THE POTHOLE INFORMATION. THE CONTRACTOR SHALL PROTECT IN PLACE OR COORDINATE WITH PARENT COMPANY FOR THE RELOCATION OF CONFLICTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
- 8. A VISIT TO THE SITE IS REQUIRED. VERIFY ALL CONDITIONS PRIOR TO SUBMITTING A BID.
- 9. EXTRA WORK AND/OR CHANGES TO BE APPROVED IN WRITING BY THE CITY PRIOR TO COMMENCEMENT OF WORK.
- 10. OBTAIN ALL PERMITS REQUIRED TO COMPLETE THE WORK SPECIFIED PRIOR TO COMMENCEMENT

BASIS OF BEARING

NOTE: COORDINATES AND BEARINGS ARE ON CCS 83(2011) EPOCH 2010, ZONE 4. DISTANCES ARE GROUND DISTANCES. MULTIPLY BY 0.99997244 TO OBTAIN GRID DISTANCES. ALL DISTANCES ARE IN FEET AND DECIMAL THEREOF.

BENCHMARKS

OF WORK

BENCHMARK - GT0487 DESCRIBED BY COAST AND GEODETIC SURVEY 1948 AT CORCORAN. AT THE CITY HALL ON CHITTENDEN AVENUE IN CORCORAN, 55 FEET EAST OF THE CENTER LINE OF CHITTENDEN AVENUE, 1.3 FEET NORTH OF THE SOUTHWEST CORNER OF THE CITY HALL, 4.0 FEET ABOVE THE GROUND, SET VERTICALLY IN THE WEST SIDE OF THE CORCORAN CITY HALL.

CONTROL POINTS

CONTROL POINT 1: CHISLED 'X' LOCATED ON THE TOP OF CURB ON THE SOUTH SIDE OF ORANGE AVENUE, APPROXIMATELY 243 FEET WEST FROM THE EXISTING STOP SIGN CONTROL POINT 2:

CHISELED 'X' LOCATED ON THE TOP OF CURB ON THE SOUTH SIDE OF ORANGE AVENUE, APPROXIMATELY 35 FEET WEST FROM THE EXISTING STOP SIGN CONTROL POINT 3:

CHISELED 'X' LOCATED ON THE NORTHWEST CORNER OF THE IRRIGATION CONCRETE BOX THAT IS LOCATED NEAR THE SOUTHWEST CORNER OF THE ORANGE AND OTIS AVENUE(S) INTERSECTION

CONTROL POINT 4: NAIL AND SHINER LOCATED AT NORTHWEST CORNER OF THE ORANGE AND OTIS AVENUE(S) INTERSECTION NEAR THE ENTRANCE OF THE ORANGE MARKET PARKING

CONTROL POINT 5:

NAIL AND SHINER LOCATED ON THE EAST SIDE OF OTIS AVENUE, NEAR THE EDGE OF PAVEMENT, APPROXIMATELY 550 FEET SOUTH FROM THE ORANGE AND OTIS AVENUE(S) INTERSECTION

ESTIMATED EARTHWORK QUANTITIES

CUT (C.Y.): 13,000 FILL (C.Y.): 14,000 NET (C.Y.): 1,000 [FILL]

NOTE:

QUANTITIES ARE SHOWN AS ESTIMATES ONLY. QUANTITIES SHALL NOT BE TAKEN AS EXACT QUANTITIES. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE INDEPENDENT QUANTITY TAKE OFF AND VERIFY EARTHWORK MATERIAL TO COMPLETE THE PROJECT.

CITY OF CORCORAN GATEWAY PARK

500 OTIS AVENUE



VICINITY MAP

CITY OF CORCORAN



INDEX OF PLANS

TS-1.01 - TITLE SHEET TS-1.02 - GENERAL NOTES AND LEGEND RS-1.01 - REFERENCE PLAN RS-1.02 - BID ADDITIVES REFERENCE PLAN DM-1.01 - DEMOLITION LAYOUT PLAN DM-1.02 - DEMOLITION PLAN DM-1.03 - DEMOLITION PLAN GR-1.01 - GRADING & DRAINAGE PLAN GR-1.02 - GRADING & DRAINAGE PLAN GR-1.03 - GRADING & DRAINAGE PLAN GR-1.04 - GRADING & DRAINAGE PLAN CD-1.01 - PICNIC AREA AND SITE FURNISHING LAYOUT PLAN CD-1.02 - PARK FURNISHING LOCATION DETAILS CD-1.03 - PAVILION CONSTRUCTION DETAILS CD-1.04 - BBQ, BENCH, & TRASH RECEPTACLE CONSTRUCTION DETAILS CD-1.05 - BENCH CONSTRUCTION DETAILS CD-2,01 - MULTI-USE ATHLETIC FIELD STORM WATER BASIN PLAN CD-2.02 - STORM WATER BASIN DISCHARGE PLAN CD-2.03 - STORM WATER BASIN DISCHARGE PLAN CD-2.04 - STORM WATER BASIN DISCHARGE PLAN CD-2.05 - STORM WATER BASIN DISCHARGE PLAN CD-2.06 - STORM WATER PUMP STATION CD-2.07 - STORM WATER BASIN SECTIONS CD-2.08 - LIGHTING DETAILS CD-2.09 - LIGHT POLE DETAILS CD-3.01 - JOGGING & WALKING PATH LAYOUT PLAN CD-3.02 - JOGGING & WALKING PATH DIMENSIONS CD-3.03 - JOGGING & WALKING PATH DETAILS CD-3.04 - JOGGING & WALKING PATH DETAILS CD-4.01 - PUMP TRACK LAYOUT CD-4.02 - PUMP TRACK SECTIONS CD-4.03 - PUMP TRACK GRADING PLAN AND DETAILS CD-4.04 - PUMP TRACK DRAINAGE SYSTEM

CD-5.01 - MULTI-AGE PLAYGROUND LAYOUT CD-5.02 - MULTI-AGE PLAYGROUND DETAILS CD-6.01 - SPLASH PAD PLUMBING PLAN CD-6.02 - SPLASH PAD DRAINAGE PLAN CD-6.03 - SPLASH PAD ELECTRICAL LAYOUT CD-7.01 - FITNESS STATION LAYOUT PLAN CD-7.02 - FITNESS STATION PLAN - STATION 1 CD-7.03 - FITNESS STATION PLAN - STATION 2 CD-7.04 - FITNESS STATION PLAN - STATION 3 CD-7.05 - FITNESS STATION PLAN - STATION 4 CD-7.06 - FITNESS STATION PLAN - STATION 5 CD-8.01 - ACCESSIBLE PLAN CD-8.02 - EMERGENCY VEHICLE ACCESS PLAN CD-9.01 - PARKING LOT LAYOUT PLAN CD-9.02 - PARKING LOT SECTION AND DETAILS CD-9.03 - PARKING LOT SIGNING, STRIPING, & MARKING PLAN CD-10.01 - PUBLIC RESTROOM PLAN CD-10.02 - PRECAST SANITARY SEWER LIFT STATION ONE CD-10.03 - PRECAST SANITARY SEWER LIFT STATION TWO CD-10.04 - PUBLIC RESTROOM PLAN CD-10.05 - WATER FOUNTAIN DETAILS CD-11.01 - ENTRANCE STRUCTURE SIGN CD-12.01 - FENCING PLAN CD-12.02 - WOODCRETE WOOD SPLIT RAIL FENCE SYSTEM CD-13.01 - PUBLIC ART PLAN LAYOUT CD-13.02 - LIGHTED SIGN DETAILS CD-13.03 - SEAT WALL LAYOUT & DETAILS CD-14.01 - SOLAR LIGHT PLAN LAYOUT CD-14.02 - SOLAR LIGHT DETAILS CD-14.03 - SOLAR LIGHT FOOTING DETAILS CD-15.01 - PARK SIGNAGE PLAN CD-15.02 - SIGNAGE DETAILS

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PL-1.02 - PLANTING PLAN - TREES
PL-1.03 - PLANTING PLAN - TREES
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IR-1.03 - IRRIGATION PLAN
DS-1.01 - STANDARD DETAILS
DS-1.03 - STANDARD DETAILS

CITY & ENGINEER CONTACTS

PUBLIC WORKS DIRECTOR

JOSEPH FAULKNER CITY OF CORCORAN 832 WHITLEY AVE CORCORAN, CA 93212 CIVIL ENGINEER

(559) 992-2151 EXT. 2210

ORFIL MUNIZ, PE, QSD A&M CONSULTING ENGINEERS 220 N LOCUST AVE VISALIA, CA 93291 (559) 429-4747

PROJECT UTILITY CONTACTS

PG&E JEFF HEIDNGER 705 "P" ST FRESNO, CA 93760 (559) 263-7368

SOUTHERN CALIFORNIA GAS CO CHAD MUELLER 404 N TIPTON STREET VISALIA, CA 93292 (559) 739-2241

CITY OF CORCORAN WATER AND WASTEWATER JOSEPH FAULKNER 832 WHITLEY AVE CORCORAN, CA 93212 (559) 992-2151 EXT. 2210

FRONTIER COMMUNICATION SOCRATES LUNA 1359 "G" STREET, REEDLEY, CA 93654 (559) 637-0666

COMCAST MICHAEL CORRAL (559) 217-9003





ABREVIATIONS & LEGEND

AB	AGGREGATE BASE
ABV	ABOVE
ACP	ASPHALT CONCRETE ASPHALT CONCRETE PAVING/PAVEMENT
ADJ	ADJACENT
AGG	AGGREGATE
AP	ANGLE POINT
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLK	BLOCK
BOT	BEST MANAGEMENT PRACTICE BOTTOM
BOW	BACK OF WALK
BR	BOTTOM OF RAMP
C	CONCRETE
СВ	CATCH BASIN
CF	
CITY	CITY OF CORCORAN
CIP	CAST IN PLACE
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
со	CLEAN OUT
COL	
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS CENTER POINT
CP#	CONTROL POINT #
CR	
CTC	CENTER TO CENTER
DAS	DIRECTION AS SHOWN
DET	DETAIL
DF	
DIA	DIAMETER
DIAG	DIAGRAM
DIM	DUCTILE IRON PIPE
DS	DOWN SPOUT
DWG	DRAWING
EA EJ	EACH EXPANSION JOINT
ELECT	ELECTRICAL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQUPT	EQUIPMENT
EXIST	EXISTING
(E)	EXISTING
FAB FBO	FABRICATION FURNISHED BY OTHERS
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE FINISH(ED)
FL	FLOW LINE
FOC	
FOF	FACE OF FINISH FACE OF MASONRY
FOS	FACE OF STEP
FND	
FST	FINISHED SURFACE TURF
FTG	FOOTING
FUI GA	GAGE GAUGE
GB	GRADE BREAK
GKT	GASKET
GLV GPH	GALVANIZED GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRATE
нв НС	HANDICAPPED
HCAP	HANDICAPPED
HDB	HEADBOARD
HOR	HORIZONTAL
HP	HIGH POINT
HT HYD	
ID	INSIDE DIAMETER
INT	INTERSECTION
INV IRR	
JT	JOINT
L	
LH	LEFT HAND

LID	LOW IMPACT DEVELOPMENT
LIP	GUTTER LIP
LT	LEFT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
ME	MATCH EXISTING
MED	
MED	
МЕК МН	
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MAINLINE
Ν	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
	NOT TO SCALE
OG	ORIGINAL GROUND
OH	OVERHEAD
OPP	OPPOSITE
OPT	OPTIONAL
Р	PAVEMENT
PA	PLANTER AREA
PCR	
PER	PUBLIC FACILITIES FASEMENT
PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CONNECTION
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PT	
PVC	
R, RAD	RADIUS
REBAR	REINFORCING BAR
REF	REFERENCE
REM	REMOVE
REQ'D	REQUIRED
REV	REVISION(S), REVISED
RT	RIGHT
R/W	RIGHT-OF-WAY
R(XX.X)	RADIUS
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	
SF SC	
SHT	SUBGRADE
SIM	SIMILAR
SL	SLOPE
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	SANITARY SEWER
S/S	STAINLESS STEEL
SSEM	SANITARY SEWER FORCE MAIN
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STRUC	STRUCTURE/STRUCTURAL
SURF	SURFACE
SWCL	SIDEWALK CENTERLINE
SYN	SYNTHETIC
TBC	TOP BACK OF CURB
тс	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TR	
+ ₩ TVP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VERT	VERTICAL
W	WATER
W/	WITH
W/O	
VV5 \//\/	WATER VALVE
@	
5	
Ø	DIAMETER

S=0.XXXX PROPOSED SLOPE IN DECIMAL

EXISTING RIGHT-OF-WAY
DEMOLITION / SAWCUT LIMITS
EXISTING 2" GAS UTILITY
EXISTING 4" GAS UTILITY
EXISTING 6" GAS UTILITY
EXISTING UNDERGROUND COMM
EXISTING OVERHEAD COMM.
EXISTING ELECTRICITY UTILITY
EXISTING OVERHEAD ELECTRICIT
EXISTING 16" WATER LINE
EXISTING 8" SANITARY SEWER
EXISTING 4" SANITARY SEWER FC

GENERAL CONSTRUCTION NOTES

- MEETINGS.

- OF ANY NATURE.

- PROPOSED RIGHT-OF-WAY ------ W2 ------ PROPOSED 2" WATER SERVICE ------ W3 ------ PROPOSED 3" WATER SERVICE W4 PROPOSED 4" WATER SERVICE ------ W12 ------ PROPOSED 12" WATER LINE _____ SD12 _____ PROPOSED 12" STORM DRAIN ------ SD18 ------ PROPOSED 18" STORM DRAIN ------ SD36 ------ PROPOSED 36" STORM DRAIN CTRICITY ------ SS4 ------ PROPOSED 4" SANITARY SEWER SERVICE ------ FM ------ PROPOSED 1.25" SANITARY SEWER FORCE MAIN ------ FM2 ------ PROPOSED 2" SANITARY SEWER FORCE MAIN WER FORCEMAIN ------ FM6 ------ PROPOSED 6" STORM DRAIN FORCE MAIN
- SEE SHEET XXXX
- AREA SHEET REFERENCE

TOE OF PROPOSED SLOPE

1. EXISTING UTILITIES AND EXISTING IMPROVEMENTS MAY BE SHOWN AT APPROXIMATED LOCATIONS DUE TO THE AVAILABLE RECORD INFORMATION AT THE TIME OF PLAN PREPARATION. OTHER UTILITY LINES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES BY POTHOLING OR LOCATING SERVICES "811" IF FOUND NECESSARY.

2. THE CONTRACTOR SHALL NOTIFY ALL CORRESPONDING UTILITY COMPANIES AND CALL "811" AT LEAST 48 HOURS BEFORE THE COMMENCEMENT OF ANY WORK WHICH MAY REQUIRE UTILITY VERIFICATION. ADDITIONALLY, THE CONTRACTOR WILL SUPPLY SOUTHERN CALIFORNIA GAS COMPANY WITH A CONSTRUCTION SCHEDULE AND NOTIFY OF ANY PRE-CONSTRUCTION

3. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. NO CERTIFICATIONS IS MADE AS THE ACCURACY OR THOROUGHNESS OF THESE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF CORCORAN DOES NOT CONSTITUTE A REPRESENTATION AS THE ACCURACY OR COMPLETENESS OF LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE WITHIN THE LIMITS OF THE PROJECT.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE FULL SET OF PLANS FOR ANY DISCREPANCIES AND OMISSIONS PRIOR TO THE COMMENCEMENT OF WORK. IF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE FIELD ARE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK NOT IN CONFORMANCE WITH THE PLANS OR IN CONFLICT WITH ANY CODE.

5. AN APPROVED SET OF PLANS MUST BE AVAILABLE ON THE JOB SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

7. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE PROVISIONS IN THE CALTRANS STANDARD SPECIFICATIONS AND PLANS DATED 2018, ALONG WITH THE CITY OF CORCORAN STANDARD DRAWINGS AND THE LATEST VERSION OF THE GREEN BOOK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS, FABRICATIONS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES AND LABOR NECESSARY FOR THE CONSTRUCTION, ERECTION AND INSTALLATION OF ALL WORK INDICATED ON THESE DRAWINGS AND/OR OUTLINED IN EACH SECTION OF THE SPECIFICATIONS.

9. FOR THE DURATION OF THE WORK, THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN , AS MAY BE REQUIRED, ALL NECESSARY BARRICADES AND RAILINGS, LIGHTS, WARNING SIGNS AND SIGNALS, AND SHALL TAKE ALL OTHER PRECAUTIONS AS MAY BE REQUIRED TO SAFEGUARD PERSONS, THE JOB SITE AND ADJOINING PROPERTY, AGAINST INJURIES AND DAMAGE

10. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL GIVE THEIR PERSONAL ATTENTION TO THE WORK; BE RESPONSIBLE FOR THE LAYOUT AND CORRECTNESS OF THEIR WORK AND COOPERATE WITH EACH OF THE VARIOUS TRADES TO OBTAIN A NEAT FINISHED AND WORKMANLIKE JOB.

11. THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

12. TO THE FULLEST EXTENT PERMITTED BY LAWS AND REGULATIONS, CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS OWNER AND ENGINEER, AND THE OFFICERS, DIRECTORS, MEMBERS, PARTNERS, EMPLOYEES, AGENTS, CONSULTANTS AND SUBCONTRACTORS OF EACH AND ANY OF THEM FROM AND AGAINST ALL CLAIMS, COSTS, LOSSES, AND DAMAGES (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OF ENGINEERS, ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS AND ALL COURT OR ARBITRATION OR OTHER DISPUTE RESOLUTION COSTS) ARISING OUT OF OR RELATING TO THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, COST, LOSS, OR DAMAGE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE, OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF), INCLUDING THE LOSS OF USE RESULTING THEREFROM BUT ONLY TO THE EXTENT CAUSED BY ANY NEGLIGENT ACT OR OMISSION OF CONTRACTOR, ANY SUBCONTRACTOR, ANY SUPPLIER, OR ANY INDIVIDUAL OR ENTITY DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM TO PERFORM ANY OF THE WORK OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

13. SHOULD A CONSTRUCTION SURVEY OR CONSTRUCTION STAKING BE NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THIS SERVICE.

14. DO NOT SCALE DRAWINGS. IF UNABLE TO LOCATE DIMENSIONS FOR ANY ITEM OF WORK, CONTACT THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.

15. ALL DAMAGE TO AREAS AND/OR PROPERTY NOT SPECIFICALLY PART OF THE PROJECT SITE CAUSED DURING CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETURN TO PRE-CONSTRUCTION CONDITIONS.

16. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CHANGE ORDER SIGNED BY THE ENGINEER AND APPROVED BY THE PUBLIC WORKS/ENGINEERING OFFICIALS.

17. DUST AND DEBRIS CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT - DISTRICT REGULATION VIII - FUGITIVE DUST RULES. 18. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.





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RS-1.02

- BID ADDITIVE 4: INSTALL WOODCRETE WOOD SPLIT RAIL FENCE SYSTEM, SEE SHEET CD-12.01 FOR DETAILS

BID ADDITIVE 2:

CONSTRUCT CMU BLOCK SEAT WALL AROUND VETERANS MEMORIAL MONUMENT PER DETAIL 2, SEE SHEET CD-13.03 (TYP. OF 15)

CONSTRUCT 5-FT WIDE SIDEWALK LEADING TO VETERANS MEMORIAL MONUMENT. SEE DETAIL 5, SHEET CD-3.03

BID ADDITIVE 1:

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CONTRACTOR NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE ALL SURVEY MONUMENTS. ANY MONUMENT DISTURBED DURING CONSTRUCTION SHALL BE PERPETUATED PER THE PROFESSIONAL LAND SURVEYOR'S ACT, BUSINESS AND PROFESSIONS CODE 8771, AT THE CONTRACTORS EXPENSE.
- 2. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATED. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES BEFORE COMMENCEMENT OF WORK.

GRADING NOTES

ALL SURFACE VEGETATION AND ANY MISCELLANEOUS SURFACE OBSTRUCTIONS SHOULD BE REMOVED FROM THE PROJECT AREA, PRIOR TO ANY SITE GRADING. IT IS ANTICIPATED THAT STRIPPING OF VEGETATION COULD INVOLVE THE UPPER 3 TO 5 INCHES OF THE SITE. SURFACE STRIPPINGS SHOULD NOT BE INCORPORATED INTO FILL UNLESS THEY CAN BE SUFFICIENTLY BLENDED TO RESULT IN AN ORGANIC CONTENT LESS THAN 3 PERCENT BY WEIGHT (ASTM D2974). STRIPPED TOPSOIL, WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT BY WEIGHT MAY BE STOCKPILED AND USED AS NON-STRUCTURAL FILL (I.E. LANDSCAPED AREAS). IF USED IN LANDSCAPE AREAS, SOIL WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT SHOULD BE PLACED WITHIN 2 FEET OF FINISHED GRADE AND AT LEAST 5 FEET OUTSIDE OF BUILDING PERIMETERS. SOIL WITH AN ORGANIC CONTENT GREATER THAN 12 PERCENT BY WEIGHT SHOULD BE EXCLUDED FROM FILL.

LEGEND

- (W16) ------



oris

AVENUE

PARK SITE DEMOLITION AREA - REMOVE AND DISPOSE OF EXISTING SURFACES, CONCRETE, ROCKS, SOLID WASTE, AND VEGETATION AS SHOWN ON PLAN.



EXISTING MONUMENT



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





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ORAN

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NO

E DEMO

70-70-SCALE: JOB NO QA/QC: FILE: DATE:



SHEET NO.

DM-1.02



0115 PUENUE CONTRACTOR TO COORDINATE AND RELOCATE OVERHEAD ELECTRICITY LINE PROTECT-IN-PLACE -/ CONTROL POINT - PROJECT LIMIT, PROTECT-IN-PLACE EXISTING WROUGHT IRON FENCE PROPERTY LINE

(E) CHAIN LINK FENCE



- PROFESSIONAL LAND SURVEYOR'S ACT, BUSINESS AND PROFESSIONS CODE 8771, AT THE CONTRACTORS EXPENSE.
- 2. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATED. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES BEFORE COMMENCEMENT OF WORK.

GRADING NOTES

ALL SURFACE VEGETATION AND ANY MISCELLANEOUS SURFACE OBSTRUCTIONS SHOULD BE REMOVED FROM THE PROJECT AREA, PRIOR TO ANY SITE GRADING. IT IS ANTICIPATED THAT STRIPPING OF VEGETATION COULD INVOLVE THE UPPER 3 TO 5 INCHES OF THE SITE. SURFACE STRIPPINGS SHOULD NOT BE INCORPORATED INTO FILL UNLESS THEY CAN BE SUFFICIENTLY BLENDED TO RESULT IN AN ORGANIC CONTENT LESS THAN 3 PERCENT BY WEIGHT (ASTM D2974). STRIPPED TOPSOIL, WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT BY WEIGHT MAY BE STOCKPILED AND USED AS NON-STRUCTURAL FILL (I.E. LANDSCAPED AREAS). IF USED IN LANDSCAPE AREAS, SOIL WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT SHOULD BE PLACED WITHIN 2 FEET OF FINISHED GRADE AND AT LEAST 5 FEET OUTSIDE OF BUILDING PERIMETERS. SOIL WITH AN ORGANIC CONTENT GREATER THAN 12 PERCENT BY WEIGHT SHOULD BE EXCLUDED FROM FILL.

LEGEND

<u></u>317

205.79 CP5

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CONTROL POINT

EXISTING MONUMENT

CONTRACTOR TO COORDINATE -WITH PG&E TO UNDERGROUND AND RELOCATE OVERHEAD ELECTRICITY LINE

FOUND ³" IRON PIPE PROPERTY -MONUMENT, PROTECT-IN-PLACE



N







FEET



MATCH LINE, SEE SHEET GR-1.03



SCALE: 1" = 20'























PICNIC AREA 3 SCALE: 1" = 20'

 CONSTRUCT ONE (1) ADA ACCESSIBLE
TABLE WITH CONCRETE PAD AS SHOWN AND PER DETAIL8, SEE SHEET CD-1.04

> CONSTRUCT TRASH RECEPTACLE PER DETAIL 6, SEE SHEET CD-1.04



SPECIFICATIONS AND NOTES

- 1. CONTRACTOR TO CONSTRUCT THE FOLLOWING CHARCOAL BBQ GRILLS FROM JAMESTOWN ADVANCED PRODUCTS (OR APPROVED EQUAL) IN THE BBQ GRILL AREAS AS SHOWN ON THE PLAN: • 15" X 21" ADA ACCESSIBLE SWIVEL GRILL (PART NUMBER 15216) • 16" X 24" STANDARD PARK GRILL WITH TILT BACK GRATE (PART NUMBER 11304) • 36" X 38" EXTRA LARGE GROUP GRILL (PART NUMBER 11644)
- 2. GRILLS SHALL BE INSTALLED INGROUND OR SURFACE MOUNTED, AS SHOWN ON DETAILS 1 & 2 ON SHEET CD-1.04, AND PER MANUFACTURER RECOMMENDATIONS.
- 3. HEIGHT FROM THE FINISHED GRADE TO THE TOP OF THE COOKING SURFACE SHALL NOT EXCEED 34" ON THE ADA ACCESSIBLE SWIVEL BBQ GRILL. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONCRETE ANCHORS AS SPECIFIED BY MANUFACTURER AND MATCH ANCHOR COLOR TO GRILL.
- 4. WHERE BENCH OR TRASH RECEPTACLE PAD IS ADJACENT TO A CURVED WALKWAY, CONTRACTOR SHALL FORM AND CONSTRUCT THE SIDE(S) OF THE CONCRETE PAD ADJACENT TO THE WALKWAY TO FOLLOW THE CONTOUR(S) OF THE ADJACENT WALKWAY(S).
- 5. BENCHES AROUND PLAYGROUND AREA SHALL FACE TOWARDS THE PLAYGROUND AREA. BENCHES AROUND SPLASH PAD AREA SHALL FACE TOWARDS THE SPLASH PAD AREA.
- 6. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.





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REVISIONS					
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NOTE:

CONSTRUCT PRE-FABRICATED CHARLESTON HEXAGON SHADE STRUCTURE (OR APPROVED EQUAL)

7" X 7" TENSION RING -

7" X 7" STEEL TUBE COLUMN HANDHOLE WITH COVER

HEX NUT PER MANUFACTURER'S RECOMMENDATION WASHER AND BASE PLATE PER

MANUFACTURER'S RECOMMENDATION #4 REBAR INSTALLED AT TOP AND BOTTOM AS SHOWN

INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDATIONS (TYP.)

⁵/₈" X 12" A-36 ALL THREAD A-BOLD WITH (2) HEX NUTS AND 8" EMBED ELECTRICAL CONDUIT STUB, SHALL BE INSTALLED ON ONLY ONE OF THE COLUMNS PER PAVILION, SEE ELECTRICAL PLANS

5 SACK MIX CONCRETE (3200 PSI IN 28 DAYS) TO BE POURED IN PLACE CLASS 2 AGGREGATE BASE -COMPACTED TO 95% RELATIVE

COMPACTION

6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION

DETAIL 2 - HEXAGONAL PICNIC PAVILION SHADE STRUCTURE (PLAN VIEW) N.T.S.



DETAIL 3 - HEXAGONAL PICNIC PAVILION SHADE STRUCTURE FOOTINGS

SPECIFICATIONS AND NOTES

<u>GENERAL:</u>

- 1. CONTRACTOR TO INSTALL PREFABRICATED CLASSIC RECREATION SYSTEM CHARLESTON
- HEXAGONAL SHADE STRUCTURE, OR APPROVED EQUAL. 2. SHADE STRUCTURE DETAILS SHOWN ARE FOR BIDDING PURPOSES ONLY.
- 3. AFTER AWARD OF BID, THE SHADE STRUCTURE MANUFACTURER SHALL SUBMIT STRUCTURAL
- CALCULATIONS, SEALED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA FOR REVIEW AND APPROVAL BY THE CITY OF CORCORAN.
- 4. METAL ROOF SHALL BE SLATE GRAY, CONTRACTOR TO SUBMIT COLOR SAMPLE FOR APPROVAL BY THE CITY OF CORCORAN BEFORE ORDERING SHADE STRUCTURE.
- 5. METAL COLUMNS SHALL BE WHITE, WITH AN ANTI-GRAFFITI CLEAR COAT. CONTRACTOR TO SUBMIT COLOR SAMPLE FOR APPROVAL BY THE CITY OF CORCORAN BEFORE ORDERING SHADE STRUCTURE.

6. METAL FASCIA TRIM SHALL BE WHITE, WITH AN ANTI-GRAFFITI CLEAR COAT. CONTRACTOR TO SUBMIT COLOR SAMPLE FOR APPROVAL BY THE CITY OF CORCORAN BEFORE ORDERING SHADE STRUCTURE.

- 7. MAIN BEAM COLOR SHALL MATCH THE COLOR OF THE METAL ROOF.
- 8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.

FOOTINGS AND COLUMNS:

- 1. FOOTINGS SHALL BE ENGINEERED BY THE STRUCTURE MANUFACTURER TO MEET LOCAL CODES AND SITE CONDITIONS. 2. COLUMNS SHALL BE ASTM 500 GRADE B, AND CONCRETE FOOTING REBAR SHALL BE ASTM A-615
- GRADE 40 #4 BARS OR, GRADE 60 #5 BARS. 3. CONCRETE SHALL BE 5 SACK MIX PORTLAND CEMENT TO MEET THE MINIMUM COMPRESSIVE
- STRENGTH OF 3200 PSI AT 28 DAYS, OR AS SPECIFIED BY THE STRUCTURAL CALCULATIONS, AND SLUMP SHALL NOT EXCEED 4 INCHES. 4. WATER USED FOR CONCRETE SHALL BE CLEAN WATER AND FREE FROM INJURIOUS AMOUNTS OF
- OILS, ACIDS, ALKALITES, ORGANIC OR OTHER DELETERIOUS SUBSTANCES. 5. CONCRETE WORKMANSHIP
- 5.1. FRESH POURED CONCRETE SHALL BE TAMPED IN TO PLACE USING STEEL RAMMER, SLICING TOOLS, OR MECHANICAL VIBRATOR, UNTIL CONCRETE IS THOROUGHLY COMPACT AND WITHOUT VOIDS.
- 5.2. EXCAVATION FOR FOOTING SHALL BE TO THE DEPTH NOTED ON THE STRUCTURAL CALCULATIONS. LEAVE THE BOTTOM BEARING SURFACE CLEAN AND SMOOTH. IF FOOTING EXCAVATIONS ARE MADE DEEPER THAN INTENDED, ONLY CONCRETE SHALL BE USED FOR FILL. REMOVE ALL LOOSE MATERIAL FROM EXCAVATIONS PRIOR TO CONCRETE POUR.

FRAME MEMBERS AND COMPRESSION RING:

- 1. ONLY AMERICAN MADE STEEL SHALL BE USED IN THE CONSTRUCTION OF THIS SHELTER, MILL CERTIFICATION SHALL BE PRESENTED TO THE CITY OF CORCORAN.
- 2. ALL FRAME MEMBERS SHALL BE ONE PIECE STRUCTURAL STEEL TUBE WITH A MINIMUM 0.120 (1/2") WALL THICKNESS, SIZED ACCORDING TO STRUCTURAL ENGINEERING CALCULATIONS.
- 3. ALL FRAME MEMBERS SHALL BE BOLTED TOGETHER WITH BOLTS COMPLETELY CONCEALED.
- 4. ALL TUBING FOR FRAME MEMBERS SHALL BE ASTM 500 GRADE B, BEAM END PLATES SHALL BE
- ASTM A 36 FY = 36,000 PSI, AND BOLTS SHALL BE A 307'S OR 325'S UNLESS NOTED OTHERWISE. 5. "I" BEAMS, ANGLE IRON, "C", "Z", OR "S" PURLINS OR BEAMS, OPEN OR CLOSED, SHALL NOT BE USED. ROOFING AND TRIM:
- 1. ALL ROOFING SHALL BE 24 GA ZINCALUME / GALVALUME COATED STEEL PANELS, WITH A 4:12 PITCH.
- 2. ALL ROOFING SHALL BE PRE-FINISHED WITH DURATECH 5000 OR EQUAL, 30-YEAR PAINT FINISH. 3. ALL ROOF PANELS SHALL BE PRE-CUT WITH RIBS RUNNING WITH THE SLOPE OF THE ROOF.
- 4. FASCIA SHALL BE TUBE STEEL.
- 5. TRIM SHALL BE 24 GAUGE ZINCALUME / GALVALUME COATED PRE-FINISHED WITH DURATECH 5000 OR EQUAL, 30-YEAR PAINT FINISH.
- 6. SCREWS AND RIVETS SHALL MATCH ROOF COLOR.
- 7. STAINLESS STEEL BIRD SPIKES (4" WIDE MIN.) SHALL BE SCREWED ONTO THE EDGE OF THE ROOF PANEL UNDERNEATH THE CUPOLA, AS SHOWN ON DETAIL 1 (THIS SHEET) INSTALLATION:
- 1. SHADE STRUCTURE MANUFACTURER SHALL SUPPLY COMPLETE LAYOUT AND DETAIL PLANS WITH
- INSTALLATION INSTRUCTIONS FOR THE STRUCTURE. 2. ALL FRAMING, ROOFING AND TRIM SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3. PRIOR TO INSTALLATION, COMPONENTS OF THE STRUCTURE ARE TO BE KEPT COVERED AND DRY,
- CARE SHALL BE TAKEN TO AVOID DAMANGING PRIOR AND DURING THE INSTALLATION. 4. CONTRACTOR MAY ELECT TO HAVE THE STRUCTURE MANUFACTURER INSTALL THE PAVILION SHADE STRUCTURE OR USE ITS OWN FORCES, WHICHEVER METHOD RESULTS IN A LOWER COST TO THE CITY.





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CD-1.03

SHEET NO.

INSTALL OUTDOOR BBQ GRILL PER MANUFACTURER'S RECOMMENDATIONS		
ANCHOR PER MANUFACTURER'S	- 6" -	
BBQ GRILL CONCRETE PAD SHALL HAVE A 0.5" X 3.5" DEEP ASPHALT IMPREGNATED FELT JOINT BETWEEN IT AND THE ADJACENT PAVILION STRUCTURE CONCRETE SURFACE WITH		4"
CONSTRUCT 12" X 24" X 24" CONCRETE FOOTING (5 SACK MIX @ 3200 PSI IN 28 DAYS), OR AS RECOMMENDED BY MANUFACTURER, FOR LARGE GROUP BBQ GRILL (36" X 38")		1
12" RECYCLED CONCRETE CLASS 2 AGGREGATE —— BASE, AT 95% RELATIVE COMPACTION		1
6" NATIVE SOIL AT 90% RELATIVE COMPACTION		6

DETAIL 1 - BBQ GRILL SURFACE MOUNT (ELEVATION VIEW)

N.T.S.



DETAIL 2 - BBQ GRILL INGROUND MOUNT (ELEVATION VIEW)

N.T.S.



DETAIL 3 - ACCESSIBLE BBQ GRILL STATION PAD (PLAN VIEW)

N.T.S.



DETAIL 4 - BBQ GRILL / PICNIC TABLE CONCRETE PAD (ELEVATION VIEW)









DETAIL 2 - PARK BENCH WITH 24" CLEARANCE

N.T.S.

CONCRETE PAD SURFACE SHALL HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO MAIN DIRECTION OF TRAVEL

INSTALL WELDED WIRE MESH REINFORCEMENT FABRIC (W6X6 - W1.4X1.4) AT THE CENTER OF THE CONCRETE BLOCK

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SHEET NO. **CD-1.05**



POLE FIXTURE LOCATION LEGEND

12+00

BID ADDITIVE 5: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS. BID ADDITIVE 5: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS. BID ADDITIVE 5: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS. BID ADDITIVE 3: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS BID ADDITIVE 3: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS BID ADDITIVE 3: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS BID ADDITIVE 3: INSTALL MUSCO LIGHT POLE AND FIXTURE (OR APPROVED EQUAL). SEE SHEET CD-2.08 & CD-2.09 FOR DETAILS

(S3)

SEE SHEET CD-2.03

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SD12

P2

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SECTION 2-2 SEE SHEET CD-2.07

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16+00

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STORM WATER DISCHARGE LINE STA 10+00 TO 15+00 PROFILE VIEW

HORZ: 1" = 20' VERT: 1" = 4'









SECTION 3-3 BIO-BASIN N.T.S.







PROFILE VIEW HORZ: 1" = 20' VERT: 1" = 4'









PROFILE VIEW HORZ: 1" = 20' VERT: 1" = 4'

12	+00		13-	+00		-
						18 18 18
DNSTRUCT 382' OF 18" RCP SD AT	S=0.0020					





STA:13+75.16, 21' LT. CONSTRUCT DRAIN INLET PER CITY STD DETAIL SD-4 18" INV. S 195.04











PROFILE VIEW HORZ: 1" = 20' VERT: 1" = 4'

STORM WATER DISCHARGE LINE STA 10+00 TO 12+00

STORM WATER DISCHARGE LINE STA 10+00 TO 12+00 PLAN VIEW



SEE SHEET CD-2.03





CONCRETE NOTES

PRECAST CONCRETE MANUFACTURER MUST BE NPCA-CERTIFIED. DESIGN SHALL BE ACCORDING TO ACI 318/318R. MIX DESIGN SHALL BE: 4,000 PSI MINIMUM, WITH 0.45 MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO. WET WELL DESIGNED PER ASTM C 478, PRECAST, REINFORCED CONCRETE.

PUMP NOTES

FURNISH AND INSTALL 2 (QTY) BARNES SINGLE PHASE RECESSED VORTEX SUBMERSIBLE GRINDER PUMP (OR APPROVED EQUAL) WITH A SELF-ENGAGING LIFT OUT ASSEMBLY, DESIGNED TO HANDLE PUMPING OF UNSCREENED DRAINAGE WATER.

THE VOLUTE, SEAL PLATES AND MOTOR HOUSING SHALL BE CONSTRUCTED OF HIGH QUALITY ASTM A-48 CLASS 30 CAST IRON. THE PUMP IMPELLER SHALL BE OF THE NON-CLOG/VORTEX DESIGN WITH PUMP OUT VANES ON THE BACK SIDE. THE UNIT SHALL UTILIZE A TANDEM MECHANICAL SHAFT SEAL ARRANGEMENT AND SHALL OPERATE IN AN OIL ATMOSPHERE. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR START, CAPACITOR RUN DESIGN.

THE MOTOR SHAFT SHALL BE OF 416 STAINLESS STEEL. PROTECTION AGAINST EXCESSIVE TEMPERATURE SHALL BE PROVIDED BY HEAT SENSOR THERMOSTAT ATTACHED TO THE STATOR WINDINGS AND CONNECTED IN SERIES WITH THE CONTACTOR COIL IN THE CONTROL PANEL. THE SINGLE PHASE MODELS SHALL PROVIDE PROTECTION AGAINST EXCESSIVE TEMPERATURE THROUGH THE USE OF AN IN-LINE HEAT/CURRENT SENSOR. THE LOWER BEARING SHALL BE OF THE SINGLE BALL TYPE TO ACCEPT RADIAL AND THRUST LOADS, AND THE UPPER BEARING OF THE SINGLE BALL DESIGN, FOR RADIAL LOADS. BEARINGS SHALL OPERATE IN AN OIL BATH ATMOSPHERE.

THE PUMP SHALL UTILIZE THE BARNES BREAK-AWAY FITTING (OR APPROVED EQUAL) WHICH INCLUDES AN INTEGRAL CHECK VALVE. THE PUMP SHALL BE EQUIPPED WITH 30 FT. OF CSA/UL APPROVED 12/4 TYPE SOW POWER CORD AND CONNECTED TO THE MOTOR VIA QUICK DISCONNECT PIN TERMINALS.

CONTROL PANEL NOTES

PROVIDE ALDERON SINGLE PHASE DUPLEX "CHECK IT" SERIES PUMP CONTROL PANEL (OR APPROVED EQUAL). CHECK IT PANEL IS FLOAT SWITCH OPERATED AND INCLUDES: NEMA 4X ENCLOSURE, LOCKABLE HASP, BEACON AND ALARM BUZZER, TEST & SILENCE SWITCHES, HOA SWITCHES, PUMP RUN INDICATORS AND FLOAT SWITCH INDICATORS, CONTROL SEQUENCE OF OPERATION: CYCLE EACH PUMP ON AND OFF AUTOMATICALLY TO MAINTAIN WELL WASTEWATER LEVEL. AUTOMATIC CONTROL OPERATES BOTH PUMPS IN PARALLEL IF WELL LEVEL RISES ABOVE STARTING POINT OF LOW-LEVEL PUMP, UNTIL SHUTOFF LEVEL IS REACHED. AUTOMATIC ALTERNATOR, WITH MANUAL DISCONNECT SWITCH, CHANGES SEQUENCE OF LEAD-LAG SEWAGE PUMPS AT COMPLETION OF EACH PUMPING CYCLE. MINIMUM 4 QTY MECHANICAL FLOAT CONTROL SWITCHES SHALL BE PROVIDED WITH CONTROL PANEL.

PIPING AND HARDWARE NOTES

ALL PIPING, FITTINGS, AND VALVES SHALL BE SCHEDULE 80 AND CONFORMING TO ASTM STANDARD D 1784. ALL HARDWARE PROVIDED AND USED WITHIN WET WELL SHALL BE 316SS QUALITY.

COMMISSIONING NOTES

THE PUMPS AND STATION INTEGRATION SHALL BE TESTED AND CONFIRMED AT START-UP TO THE CITY.

GENERAL LIFT STATION NOTES

- 1. DRAWINGS SHOW TYPICAL ARRANGEMENT OF EQUIPMENT. DETAILED DIMENSIONS SHALL BE PER MANUFACTURERS RECOMMENDATION AND AS APPROVED BY THE ENGINEER. SEE CITY STANDARD SPECIFICATION FOR WET WELL LIFT STATIONS.
- 2. ALL ANCHOR BOLTS, NUTS, BOLTS AND OTHER HARDWARE USED ON OR WITHIN WET WELL SHALL BE STAINLESS STEEL. 3. ALL PUMP DISCHARGE PIPING AND FITTINGS IN WET WELL AND VALVE VAULT SHALL BE CLASS 150 FLANGED DUCTILE IRON WITH FUSION
- BONDED EPOXY LININGS AND COATINGS, UNLESS OTHERWISE NOTED ON PLANS. 4. INTERIOR WALLS AND CEILING OF WET WELL ARE TO BE T-LOCK LINED.
- 5. PROVIDE EXTERIOR WATER PROOFING ON ALL WALLS AND UNDER BASE OF WET WELL IN ACCORDANCE WITH THE CONTRACT SPECIFICATION AND NOTES ON DRAWINGS.

	PUMP CHAF	RACTERISTICS		
	DESCRIPTION	VALUE		
	DUTY POINT RANGE	UP TO 315 GPM		
	MANUFACTURER	BARNES, HOMA (OR EC	QUAL)	
	MODEL NUMBER	460-SV SERIES STANE	DARD	
	PUMP TYPE	SUBMERSIBLE PUM	1P	
	MOTOR SIZE	2.0 HP MIN.		
	POWER SUPPLY	240V+ SINGLE PHA	SE	
	BILL OF	MATERIALS		
ALLOUT	DESCRIPTI	ON	UNIT	ESTIMATED QUANTITY
(1)	SIMPLEX CONTROL PANEL		EA.	1
$\overbrace{2}$	60" DIA. JENSEN PRECAST CONCRETE MANHOLE BASE	(OR EQUAL)	EA.	1
$\overline{(3)}$	60" DIA. JENSEN PRECAST CONCRETE MANHOLE BARR	RELS (OR EQUAL)	EA.	2
(4)	60" DIA. JENSEN PRECAST CONCRETE MANHOLE FLAT	TOP (OR EQUAL)	EA.	1
$\underbrace{}_{5}$	JENSEN PRECAST CONCRETE HATCH RISER (OR EQUA	EA.	2	
6	SINGLE DOOR HATCH WITH A CLEAR OPENING OF 24" >	X 36"	EA.	2
$\overline{(7)}$	48" X 48" JENSEN PRECAST CONCRETE VAULT BASE (0	EA.	1	
(8)	48"X 48" JENSEN PRECAST CONCRETE VAULT FLAT TO	EA.	1	
(9)	UPPER GUIDE RAIL BRACKET 4 IN			1
	JMT FLOAT BRACKET 3-HOOK FORMED SS (OR EQUAL)	EA.	1	
(11)	LF CHAIN 1/4IN 316SS (OR EQUAL)	L.F.	10	
(12)	FLOAT SWITCH W/ 100' CABLE		EA.	1
(13)	PRESSURE TRANSDUCER W/ 100' CABLE		EA.	1
(14)	ANCHOR 15LB PVC COATED		EA.	1
(15)	SUBMERSIBLE PUMP 4"		EA.	1
(16)	AUTOCOUPLING ASSY 4"		EA.	1
(17)	PIPE 4" FLG X FLG DUCTILE IRON SPOOL		EA.	2
18	LF PIPE 1-1/2" SCH40 GUIDE RAIL 304SS		L.F.	20
(19)	INTERMEDIATE GUIDE RAIL BRACKET 4IN		EA.	1
20	PIPE 4" FLG X PE DUCTILE IRON SPOOL *CUT TO LENG	TH AS NEEDED*	EA.	3
21	RFCA 4" W/ SS HARDWARE (OR EQUAL)		EA.	1
22	90 DEG ELBOW 4IN DUCTILE IRON FLG			1
23	MJ SLEEVE 4" WITH SS BOLT AND MJ GASKET		EA.	1
24	BALL CHECK VALVE 4IN		EA.	1
25	PIPE 4" FLG X FLG DUCTILE IRON SPOOL *AT LEAST 6IN	٧*	EA.	1
26	ISOLATION VALVE 4IN FLG		EA.	1
27	FLEXIBLE PIPE CONNECTORS		EA.	3
28	PIPE SUPPORT		EA.	1
		? & FITTINGS	FA	1







PROFILE VIEW (N.T.S.)

CD-2.06





HORZ: 1" = 20' VERT: 1" = 4'

STORM WATER BASIN SECTION 2-2 PROFILE VIEW

HORZ: 1" = 20' VERT: 1" = 4'





	POLE/FIXTURE SUMMARY									
POLE ID	POLE HEIGHT	MTG HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD	CIRCUIT				
P1-P2	60'	60'	3	TLC-LED-1500	4.29 kW	В				
P3	60'	60'	2	TLC-LED-1500	2.86 kW	В				
S1-S4	70'	70'	4	TLC-LED-1500	5.72 kW	A				
7			24		34.32 kW					

	CIRCUIT SUMMARY						
CIRCUIT	DESCRIPTION	LOAD	FIXTURE QTY				
A	SOCCER	22.88 kw	16				
В	ВМХ	11.44 kW	8				

FIXTURE TYPE SUMMARY									
TYPE	SOURCE	WATTAGE	LUMENS	L90	L80	L70	QUANTITY		
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160000	>120,000	>120,000	>120,000	24		

LIGHT LEVEL SUMMARY/ CALCULATION GRID										
GRID NAME	CALCULATION	AVE	MIN	MAX	MAX/MIN	AVE/MIN	CIRCUITS	FIATURE		
BMX	HORIZONTAL ILLUMINANCE	22.7	12	32	2.60	1.89	В	8		
SOCCER	HORIZONTAL ILLUMINANCE	27.5	23	34	1.49	1.20	A	16		
SPILL	HORIZONTAL	0	0	0.01	0.00		A,B,C,D	24		
SPILL	MAX CANDELA (BY FIXTURE)	67.1	0	602	0.00		A,B,C,D	24		
SPILL	MAX VERTICAL ILLUMINANCE METRIC	0	0	0.02	0.00		A,B,C,D	24		
TRACK	HORIZONTAL	11.4	0.38	20.3	52.95	29.90	A	16		

EQUIPMENT LIST FOR AREAS SHOWN						
POLE LUMINAIRES						
QTY.	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY./POLE
2	P1-P2	60'	0	60'	TLC-LED-1500	4
1	Р3	60'	-	60'	TLC-LED-1500	3
4	S1-S4	70'	-	70'	TLC-LED-1500	4
7 TOTALS					24	
* THIS STRUCTURE UTILIZES A BACK-TO-BACK MOUNTING CONFIGURATION						

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
BALLAST SPECIFICATIONS (.90 MIN POWER FACTOR)			LINE AMPERAGE (MAX	E PER LUMINAIRE DRAW)			
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7

GENERAL NOTES

PROCEDURE.

SOIL DESIGN PARAMETERS

NO. G20-129-11 F. ALLOWABLE SKIN FRICTION: 40 DL2 (D IS PILE DIAMETER (FEET), AND L IS THE TOTAL EMBEDMENT LENGTH (FEET)). IGNORE'. UPPER 2-FOOT OF SOIL.

A REPRESENTATIVE OF BSK ASSOCIATES SHOULD BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

SUPPLEMENTAL INSTRUCTION

ACCORDINGLY.

ENGINEER.

BACKFILL" BELOW.

CONCRETE BACKFILL

MIX IN CONFORMANCE WITH ASTM C-94

BACKFILL.

CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION (NO CONSTRUCTION JOINT) TO GRADE WITH SPECIAL EQUIPMENT1 WITH A MAXIMUM FREE FALL OF 5 FT AND TO PREVENT CONCRETE FROM STRIKING THE SIDES OF THE EXCAVATION. VIBRATE TOP 5 FT.

MISCELLANEOUS

POLE ASSEMBLY				
POLE ID	POLE HEIGHT FT (M)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT LB (KG)	
P1	60 (18.3)	3	1184 (537)	
P2	60 (18.3)	3	1184 (537)	
P3	60 (18.3)	2	917 (416)	
S1	70 (21.3)	4	1720 (780)	
S2	70 (21.3)	4	1720 (780)	
S3	70 (21.3)	4	1720 (780)	
S4	70 (21.3)	4	1720 (780)	

POLE FOUNDATION DETAILS							
CONCRETE BASE WEIGHT		BURIAL INFOR	CUT	LIGHTNIN	IG GROUND		
LB (KG)	WIDTH IN (MM)	DEPTH IN (MM)	CONCRETE BACKFILL YD ³ (M ³)	BASE	TYPE	SUPPLEMEI INSTRUCT	
1840 (835)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED	N/A	
1840 (835)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED	N/A	
1870 (848)	30 (762)	1.2 (0.9)	1.2 (0.9)	NO	INTEGRATED	N/A	

P1	1840 (835)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED	N/A
P2	1840 (835)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED	N/A
P3	1870 (848)	30 (762)	1.2 (0.9)	1.2 (0.9)	NO	INTEGRATED	N/A
S1	2770 (1256)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED	N/A
S2	2770 (1256)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED	N/A
S3	2770 (1256)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED	N/A
S4	2770 (1256)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED	N/A

POLE AUXILIARY ATTACHMENTS					
LOCATION MARK	ATTACHMENT TYPE & QUANTITY	ATTACHMENT ELEVATION A.G.L F.T.			
P1, P2, P3, S3, S4	SEC. CAMERA	25			

STATEMENT OF SPECIAL INSPECTION*

ITEM	CONTINUOUS/PERIODIC	SCOPE
PIER FOUNDATIONS	CONTINUOUS	INSPECT INSTALLATION OF DRILLED PIER FOUNDATIONS. VERIFY DIAMETER, EMBEDMENT DEPTHS AS SCHEDULED, DEPTHS OF FILL, AND BEARING STRATA
CONCRETE PLACEMENT	CONTINUOUS	INSPECT PLACEMENT OF CONCRETE FOR PROPER APPLICATION TECHNIQUES. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
CRETEX PRECAST/ PRESTRESSED CONCRETE BASES	(PCI CERTIFIED)	FABRICATOR EXEMPT.** REFERENCE ICC ESR-3765
STRUCTURAL STEEL	(CITY APPROVED)	FABRICATOR EXEMPT.** REVIEW CERTIFIED MILL TESTS REPORTS AND IDENTIFICATION MARKINGS

*THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

**THE SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE CITY TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

PRECAST BASE IDENTIFICATION						
LOCATION MARK	ТҮРЕ	ASD GROUND (MAXI	LINE FORCES MUM)	C.I.P. DEEP F	FOUNDATION	
		MOMENT (M) KIP-FT	SHEAR (V) KIPS	DIAMETER INCHES	EMBEDMENT FEET	
P3	LSS60-AA	31.49	0.870	30"	10'-0"	
P1, P2	LSS60-A	37.49	0.970	30"	10'-0"	
S1, S2, S3, S4	LSS70-B	56.71	1.3230	30"	10'-0"	
* VERTICAL FORCE DOES NOT INCLUDE	WEIGHT OF PRECAST BASE. VER	TICAL (P) LOAD IS	THE DRESS POLE	WEIGHT		

AL (P) LOAD IS THE DRESS POLE WEIGHT FOR ERECTION PURPOSES.

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	WEIGHT LBS	OVERALL LENGTH FEET	HEIGHT ABOVE GRADE FEET	EMBEDMENT IN C.I.P. DEEP FOUNDATION FEET	OUTSIDE DIAMETER INCHES
2B	1,840	17'-3"	7'-3"	8'-0"	12"
3В	2,670	20'-0"	8'-0"	10'-0"	13.375"

POLE IDENTIFICATION						
LOCATION MARK	POLE TYPE	PRECAST BASETYPE	FIXTURE CONFIGURATION (MAX # OF FIXTURES PER CROSSARM)	FIXTURE EPA (MAXIMUM)		
P3	LSS60-AA	2B	3 LED 1500	8.40		
P1, P2	LSS60-A	2B	4 LED 1500	11.20		
S1, S2		3В	5 (4 LED1500, 1 LED900)	13.0000		
S3, S4			5 LED 1500			

LED 1500 FIXTURE: EPA = 2.8 SQ-FT MAX & WEIGHT = 80 LBS (FIXTURE ALONE), PER MUSCO LIGHTING INC. LED 900 FIXTURE: EPA = 2.6 SQ-FT MAX & WEIGHT = 40 LBS (FIXTURE ALONE), PER MUSCO LIGHTING INC.

POLE ID

ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2019 EDITION.

WIND- ASCE 7-16, VULT = 94 MPH (EXPOSURE C); VASD = 73 MPH (EXPOSURE C), RISK CATEGORY II

SEISMIC - SS=0.773; S1 =0.280I,, SDS=0.618; SD1 =0.381; RISK CATEGORY=II; 1=1.0; SITE CLASS=D·R=1.5· SE1SMIC DESIGN CATEGORY=D SEISMIC-'FORCE-RESISTING-SYSTEM=NON-BUILDING STRUCTURE NOT SIMILAR TO BUILDINGS; ANALYSIS PROCEDURE=EQUIVALENT LATERAL FORCE

REFERENCE POLE LOCATION DRAWING FOR ACTUAL POLE PLACEMENT AND SITE LOCATION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND SAFETY CONDITIONS AT THE JOB SITE.

REFERENCE GEOTECHNICAL ENGINEERING INVESTIGATION PREPARED BY BSK ASSOCIATES, DATED SEPTEMBER 8, 2020; BSK ASSOCIATES PROJECT

ALLOWABLE LATERAL PASSIVE SOIL BEARING PRESSURE: 300 PSF /FT. IGNORE UPPER 2-FOOT OF SOIL.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY EXIST. POLE FOUNDATIONS MAY NEED TO BE REANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST.

IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED

ALL PRECAST BASES AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM, UNDISTURBED SOIL OR AS APPROVED BY A GEOTECHNICAL

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL. CASING MAY BE REQUIRED IF CAVING OCCURS. IN SUCH A CASE, APPROVAL BY A GEOTECHNICAL ENGINEER IS REQUIRED.

ALL EXCAVATIONS MUST BE FREE OF WATER OR CONCRETE SHALL BE PLACED WITH A TREMIE PIPE IN ACCORDANCE WITH ACI STANDARD 336. CONCRETE PLACED BY THE TREMIE METHOD SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 1,000 PSI GREATER THAN REQUIRED UNDER "CONCRETE

CONCRETE BACKFILL WITHOUT STEEL REINFORCEMENT SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 3,-1000 PSI (2,500PSI USED FOR STRUCTURAL DESIGN). SEE STATEMENT OF SPECIAL INSPECTIONS REQUIRED.

CONCRETE BACKFILL SHALL ATTAIN A MINIMUM STRENGTH OF 2,500 PSI PRIOR TO STEEL POLE USE TYPE V PORTLAND CEMENT OR AS RECOMMENDED BY THE ENGINEER.

AGGREGATES PER ASTM C-33. (1" MAX AGG. SIZE). 3/8" MAX AGG. SIZE ACCEPTABLE WHERE PUMP MIXES ARE USED FOR UNREINFORCED CONCRETE

PLACE CONCRETE IMMEDIATELY AFTER COMPLETION OF EXCAVATION AND INSPECTION BY THE GEOTECHNICAL ENGINEER. NO EXCAVATIONS SHALL BE LEFT UNPROTECTED OR OPEN OVERNIGHT.

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS, PLATFORMS, SPECIFICATIONS, AND INSTALLATION PER MUSCO LIGHTING, INC. (OR EQUAL)









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N.T.S.







CONCRETE SURFACE LEGEND

4" THICK JOGGING AND WALKING PATH CONCRETE

6" THICK REINFORCED FIRE ACCESS LANE CONCRETE

PATHWAY LEGEND					
PATHWAY NUMBER	PATHWAY LENGTH	PATHWAY LINE TYPE			
1 1 MILE					
PATHWAY LINE TYPES ARE SHOWN FOR GENERAL					
INFORMATION ONLY					

PATHWAY MARKER POST LEGEND							
MARKER NUMBER		PATHWAY NUMBER 1					
1	SIDE A & C:	7 LAPS = 1 MILE					
2	SIDE A & C:	7 LAPS = 1 MILE					
3	SIDE A & C:	7 LAPS = 1 MILE					
REFER TO SHEET PATHWAY MARKE	CD-3.03, DET	AILS 1 THROUGH 4 FOR					



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CONCRETE SURFACE LEGEND

4" THICK JOGGING AND WALKING PATH CONCRETE, PER DETAIL 5 OF SHEET CD-3.03

6" THICK REINFORCED FIRE ACCESS LANE CONCRETE, PER DETAIL 6 OF SHEET CD-3.03







SIDE B OF POST

"GATEWAY PARK" TO BE ENGRAVED VERTICALLY AND CENTERED ON SIDE B OF THE POST, AS SHOWN, USING BOLD ARIAL FONT, LETTERS TO BE 2" TALL AND 2" WIDE, WITH 1" OF SPACING BETWEEN EACH LETTER AND 4" BETWEEN 'GATEWAY' AND 'PARK'

FINISHED GRADE

- 6" OF BACKFILL ABOVE CONCRETE FOOTING

CONCRETE FOOTING, 2.0' X 1.5' X 1.5'

CLASS 2 RECYCLED CONCRETE AGGREGATE BASE, COMPACT TO 95%

SUBGRADE, COMPACT TO 90%









CONSTRUCT WAVE BICYCLE RACK WITH CAPACITY FOR 15 BICYCLES (MODEL NO. 398-8008), FRAMEWORK SHALL BE COMPRISED OF 2³8" O.D. 10 GA GALVANIZED PIPE, AND SHALL BE POWDER COATED BLACK, OR APPROVED EQUAL

TOP OF FINISHED SURFACE SHALL BE 1" ABOVE THE ADJACENT LANDSCAPE SURFACE AND HAVE A 1" RADIUS AND SHALL HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO MAIN DIRECTION OF TRAVEL

CIRCULAR SURFACE MOUNTING STEEL PLATE SHALL BE 6" DIAMETER AND $\frac{1}{4}$ " THICK, OR AS RECOMMENDED BY MANUFACTURER

FIBERIZED CONCRETE SHALL BE MINIMUM -FIVE SACK MIX (3200 PSI MINIMUM IN 28 DAYS)

INSTALL 0.5" X 3.5" DEEP ASPHALT IMPREGNATED FELT JOINT BETWEEN CONCRETE PAD AND ADJACENT CONCRETE SURFACE, SURFACES SHALL BE FLUSH WITH ONE ANOTHER

12" RECYCLED CONCRETE CLASS 2 AGGREGATE BASE, AT 95% RELATIVE COMPACTION

COMPACT 6" NATIVE SOIL AT 90% RELATIVE COMPACTION

3/8" THICK 1.5" DEEP SCORED JOINT WITH 1/8" RADIUS AT 5' O.C.



CONSTRUCT WAVE BICYCLE RACK WITH CAPACITY FOR 15 BICYCLES (MODEL NO. 398-8008), FRAMEWORK SHALL BE COMPRISED OF 2³8" O.D. 10 GA GALVANIZED PIPE, AND SHALL BE POWDER COATED BLACK, OR APPROVED EQUAL

CIRCULAR SURFACE MOUNTING STEEL PLATE SHALL	/
FIBERIZED CONCRETE SHALL BE MINIMUM —————————— FIVE SACK MIX (3200 PSI MINIMUM IN 28 DAYS)	
INSTALL 0.5" X 3.5" DEEP ASPHALT IMPREGNATED FELT JOINT BETWEEN CONCRETE PAD AND ADJACENT CONCRETE SURFACE, SURFACES SHALL BE FLUSH WITH ONE ANOTHER 12" RECYCLED CONCRETE CLASS 2 AGGREGATE BASE, AT 95% RELATIVE COMPACTION COMPACT 6" NATIVE SOIL AT 90% RELATIVE COMPACTION	





CONSTRUCTION NOTE

1. THIS SHEET IS FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR TO COORDINATE PUMP TRACK SECTIONS.

PUMP TRACK PERFORMANCE NOTES

ALL TRACK CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATIONS, DRAWINGS, REQUIREMENTS AND DESIGN INTENT DESCRIBED IN THE CONSTRUCTION AND CONTRACT DOCUMENTS. ADDITIONAL RESOURCES INCLUDE "BIKE PARKS: IMBA'S GUIDE TO SCHOOL TRAILS" (2014), "TRAIL SOLUTIONS" (2004), AND "MANAGING MOUNTAIN BIKING" (2007), MODIFICATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.

1. PRE-QUALIFICATIONS STATEMENT

- 1.1. CONTRACTOR TO INSTALL A VELOSOLUTIONS ASPHALT PUMP TRACK OR APPROVED EQUAL. 1.2. THE CONTRACTOR OR SUB-CONTRACTOR SHALL HAVE BUILT A MINIMUM OF TWO (2) PAVEMENT PUMP TRACKS IN THE LAST FIVE (5) YEARS EQUAL IN SIZE AND COMPLEXITY TO ENSURE SUCCESSFUL PROJECT COMPLETION.
- 2. COMPLETED PRODUCTS SHALL REFLECT A PROFESSIONAL WORKMANSHIP IN APPEARANCE, QUALITY, AND ATTENTION TO DETAIL. TRAILS AND FEATURES SHALL BE INTEGRATED INTO THE SITE, AESTHETICALLY PLEASING, WELL CRAFTED, AND FINISHED ACCORDING TO COMMONLY ACCEPTED BEST PRACTICES FOR HIGH QUALITY AND SUSTAINABLE MOUNTAIN BIKING TRAILS. WORK MUST BE COMPLETED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. 3. PUMP TRACK CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH THE
- GENERAL CONTRACTOR AND SUBCONTRACTORS AS REQUIRED TO COMPLETE ALL OPERATIONS.
- 4. TEST RIDING: PUMP TRACK CONTRACTOR SHALL COORDINATE WITH THE CITY TO COORDINATE A TEST RIDE OF THE PUMP TRACK BY BIKE WITH THE APPROPRIATE EXPERT RIDER TO ENSURE THE SPECIFIED RIDING EXPERIENCE, DESIGN, FLOW, RHYTHM, CHARACTER, DIFFICULTY, AND SPECIFICATIONS ARE MET. THE TESTING SHALL BE PERFORMED DURING THE TRACK ALIGNMENT PROCESS AND TRACK FEATURE LOCATION PROCESS, AS WELL AS DURING CONSTRUCTION AND FOLLOWING CONSTRUCTION, TO THE EXTENT POSSIBLE AND IN CONSULTATION WITH THE DESIGN ENGINEER. THE TRACK AND ITS FEATURES SHALL BE MODIFIED AND CORRECTED AS NEEDED UNTIL THE FULL INTENT IN THE PERFORMANCE SPECIFICATIONS ARE MET.
- PUMP TRACK CONTRACTOR SHALL LEAVE THE TRACK AND THE ADJACENT AREA IN A FINISHED AND NATURAL LOOKING CONDITION AND MINIMIZE DISTURBANCE TO PERMANENT, EXISTING VEGETATION TO THE EXTENT POSSIBLE, IN COORDINATION WITH THE GENERAL CONTRACTOR, TOPSOIL SPREADING, IRRIGATION AND LANDSCAPING INSTALLATION.

SEQUENCE OF WORK

CONTRACTOR SHALL FOLLOW THE FOLLOWING SEQUENCE OF WORK AT A MINIMUM TO GUARANTEE A SUCCESSFUL PROJECT:

- 1. GRADE NATIVE SOIL IN PUMP TRACK AREA TO BE FLUSH WITH SIDEWALK CONCRETE. 2. GRADE NATIVE SOIL IN PUMP TRACK AREA PER PUMP TRACK PLANS AND COMPACT TO 95% RELATIVE COMPACTION.
- 3. COORDINATE TEST RIDE OF THE GRADED NATIVE SOIL PUMP TRACK BY AN APPROPRIATE EXPERT RIDER.
- 4. MAKE ANY NECESSARY ADJUSTMENTS TO THE GRADED NATIVE SOIL PUMP TRACK RECOMMENDED BY THE EXPERT RIDER TO ENSURE THE SPECIFIED RIDING EXPERIENCE, DESIGN, FLOW, RHYTHM, CHARACTER, DIFFICULTY AND SPECIFICATIONS ARE MET. 5. GRADE CLASS II AGGREGATE BASE PER PUMP TRACK PLANS AND COMPACT AT 95% RELATIVE COMPACTION.
- 6. INSTALL ASPHALT SURFACING PER PUMP TRACK PLANS AND SPECIFICATIONS.

CONSTRUCT 9" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT 6" GRATE INLET PER

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A.B.

DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT 9" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT 6" GRATE INLET PER -DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT LARGE TABLETOP REST AREA PER DETAIL 4, SEE SHEET CD-4.03 CONSTRUCT 6" GRATE INLET PER -

DETAIL 1, SEE SHEET CD-4.04 PAINT 6-INCH LIME GREEN STRIPE PER -PROJECT SPECIFICATIONS AT THE TOP OF ALL BERMS (TYP.)

CONSTRUCT 6" GRATE INLET PER -DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT 6" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04

CONSTRUCT 180° BERM PER SECTION 8-8, SEE SHEET CD-4.02 (TYP.)

CONSTRUCT 180° BERM PER SECTION 8-8, SEE SHEET CD-4.02 (TYP.)

INSTALL RAMP HANDRAIL PER DETAIL 1. SEE SHEET CD-4.03

INSTALL PUMP TRACK SIGN PER DETAILS -2 AND 12, SEE SHEET ########

CONSTRUCT ACCESS RAMP, SEE SHEET CD-4.03 FOR DETAILS

CONSTRUCT 9" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04

ROLLER SECTIONS PER GRADING PLAN, SEE SHEET CD-4.02 (TYP.) CONSTRUCT 6" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04 CONSTRUCT 6" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04

INSTALL 15-BICYCLE WAVE RACK, BICYCLE REPAIR STATION, AND CONCRETE PAD PER DETAILS 3, 4, & 5, SEE SHEET CD-3.04

CONSTRUCT 9" GRATE INLET PER DETAIL 1, SEE SHEET CD-4.04



WORLD-CLASS PUMP TRACK PLAN VIEW



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1" = 220-0M 220-SCALE: JOB NC QA/QC: FILE:



CD-4.01

SHEET NO.

LEGEND



3" ASPHALT SURFACING PER PUMP TRACK TECHNICAL SPECIFICATIONS PROPOSED GRADING TABLETOP REST AREA ACCESS RAMP

CONCRETE PAD

6" WIDE WIDE LIME GREEN STRIPE











DETAIL 4 - TABLETOP REST AREA N.T.S.



N.T.S.





PLAN VIEW





% VARIES % VARIES 2" GRASS 18" MIN. SAND

- TYPICAL GRATE INLET PER PLAN

"NDS" #5 6" SQUARE GREEN GRATE OR "NDS" #950 9" SQUARE GREEN GRATE (OR APPROVED EQUAL) SEE PLANS FOR SIZE

FINISH GRADE

ADAPTOR 4" PVC RISER (IF NEEDED)

90° PVC ELBOW

- 4" MIN. SCH 40 PVC DRAIN PIPE - 6" MIN. PVC/HDPE MAIN (SEE PLAN)

- 6" X 4" X 4" MIN. SCH 40 PVC FITTING NATIVE SOIL

NOTES: 1. ALL FITTINGS BY: NDS, INC. (OR EQUAL). REFER TO GRADING PLAN FOR FINISH GRADING.

DO NOT GLUE GRATE OR RISER TO PIPE.
GLUE: "I.P.S. WELD ON" #773 SOLVENT (MEDIUM BODIED FAST SET) FOR PIPES THRU 6" Ø

DETAIL 1 - TYPICAL GRATE INLET N.T.S.



- PLAY EQUIPMENT NOTES
- 1. THE DRAWINGS OF PLAY EQUIPMENT SHOWN ON THESE PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED FITTINGS, RAILING, ATTACHMENTS, GRAB BARS ETC. ARE INCLUDED IN THIS INSTALLATION IN CONFORMANCE WITH ALL APPLICABLE REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) LATEST EDITION.
- UTILITIES.
- 6. PLAY EQUIPMENT INSTALLER SHALL PROVIDE TO THE CITY OF CORCORAN A LETTER THAT CERTIFIED THAT THE PLAY EQUIPMENT HAS BEEN INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND TO ALL APPLICABLE CODES AND STANDARDS.

- 2. PLAY EQUIPMENT SHALL BE MIRACLE RECREATIONAL PRODUCTS.
- 3. REFER TO UTILITY PLAN, SHEET UT-1.01 FOR COORDINATION OF PLAY EQUIPMENT POSTS WITH
- 4. INSTALL ALL EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS
- 5. SHOP DRAWINGS WITH PLAY EQUIPMENT LAYOUT AND COMPLETE PARTS LISTS INCLUDING COLOR SELECTION SHALL BE SUBMITTED TO THE CITY OF CORCORAN FOR APPROVAL PRIOR TO ORDERING OF ANY PLAY EQUIPMENT.
- 7. THE PLAY EQUIPMENT SPECIFIED WITHIN THESE PLANS SHALL BE DEEMED TO BE A MEASURE OF QUALITY, UNITY AND STANDARD AND SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR APPROVED EQUAL". PLAY EQUIPMENT MANUFACTURERS ARE REQUIRED TO PROVIDE PROOF OF LIABILITY INSURANCE IN THE AMOUNT OF ONE MILLION DOLLARS (\$1,000,000) PRIOR TO APPROVAL OF THE PLAY EQUIPMENT MATERIAL LIST AND SHOP DRAWING SUBMITTAL. CONTRACTOR REQUEST(S) FOR PLAY EQUIPMENT SUBSTITUTION SHALL BE MADE PER THE GENERAL CONDITIONS.
- 8. DEPTH OF PLAYGROUND WOOD CHIPS IN THE PLAY AREA VARIES. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE SUBGRADE ELEVATIONS AND FINISH GRADE OF THE PLAYGROUND WOOD CHIPS SURFACING IN ORDER TO SET THE CORRECT FINAL ELEVATIONS OF THE PLAY EQUIPMENT
- 9. CONTRACTOR SHALL PROVIDE THE CITY OF CORCORAN WITH MANUFACTURER'S PLAY EQUIPMENT MAINTENANCE MANUAL AND REPAIR KIT FOR ALL PLAY EQUIPMENT INSTALLED.
- 10. NO CHANGES TO PLAY EQUIPMENT LAYOUT SHALL BE ALLOWED BY CONTRACTOR WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE CITY OF CORCORAN.
- 11. THE PLAY COMPONENTS IDENTIFIED ON THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487-98 AND CPSC STANDARDS. IT IS THE MANUFACTURER'S OPINION THAT THIS PLAY STRUCTURE CONFORMS TO THE CALIFORNIA CODE OF REGULATIONS TITLE 22, DIVISION 4, CHAPTER 22.







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LEGEND

SHEET CD-5.02 ----- PLAYGROUND STRUCTURE MINIMUM USE AREA CONSTRUCT 6" PERFORATED PIPE PER DETAIL 4 ON SHEET CD-5.02

INSTALL WOOD CHIPS PER DETAIL 2 ON



DETAIL 1 - PLAY AREA CONTAINMENT CURB

N.T.S.





CORNHOLE BOARD NOTES:

- MANUFACTURING.
- WIDE.



- 1) FINISHED SURFACE OF PLAYGROUND WOOD CHIPS
- 2 INSTALL PLAYGROUND WOOD CHIPS PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS
- 3 INSTALL FILTER FABRIC BELOW PLAYGROUND WOOD CHIPS
- 4 CONSTRUCT $\frac{1}{2}$ " CRUSHED GRAVEL, DEPTH VARIES
- 5 6" SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION
- (6) INSTALL 6" PERFORATED PIPE WITH SOCK FILTER 7 SLOPE SUBGRADE BELOW CRUSHED GRAVEL, TO DRAIN MINIMUM 1% TOWARDS PERFORATED PIPE.

NOTES: A. DRAWING IS NOT TO SCALE

- B. INSTALL PLAYGROUND WOOD CHIPS 24" IN DEPTH (19" TO MEET CRITICAL FALL HEIGHT PROTECTION OF 14' PLUS 25% OVERFILL AT INITIAL INSTALLATION). INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS
- C. FINISHED GRADE FOR WOOD CHIPS SHALL BE 1 TO 2 INCHES BELOW TOP OF PLAYGROUND RETAINING CURB



THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.



N.T.S.



- 1. CORNHOLE BOARDS SHALL BE CONSTRUCTED OF CONCRETE AND INTEGRALLY DYED GREEN, AVAILABLE FROM BRAVADO OUTDOOR PRODUCTS (OR APPROVED EQUAL). CONTRACTOR TO SUBMIT COLOR SAMPLE TO CITY OF CORCORAN FOR APPROVAL PRIOR TO ORDERING AND
- 2. EACH BOARD SHALL BE 48 INCHES LONG AND 24 INCHES
- 3. THE HOLE IN THE BOARD SHALL BE 6 INCHES IN DIAMETER, WITH THE CENTER 9 INCHES FROM THE TOP AND 12 INCHES FROM EACH SIDE OF THE BOARD EDGES.
- 4. THE FRONT OF THE BOARD SHALL BE 4 INCHES FROM THE CONCRETE PAD TO THE TOP.
- 5. THE BACK OF THE BOARD SHALL BE 14 INCHES FROM THE CONCRETE PAD TO THE TOP.
- 6. THE TOP SURFACE OF THE BOARD SHALL HAVE A VERY SMOOTH TEXTURE, AND THERE SHALL NOT BE ANY BLEMISHES IN THE SURFACE THAT MIGHT DISRUPT OR DISTORT PLAY.
- 7. EACH SET OF CORNHOLE BOARDS SHALL BE SPACED 27FEET APART FROM EACH OTHER, MEASURED FROM THE FACE OF EACH BOARD.
- CORNHOLE BOARDS TO BE BOLTED TO CONCRETE PAD WITH STEEL POWDER COATED "L" BRACKETS.
- 9. CORNHOLE BOARD TO INCLUDE CITY OF CORCORAN LOGO.





N.T.S.



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CD-5.02



<u>SLOPE</u> 1 5% MAX.





CD-6.01/

NOTE CONTRACTOR TO SUBMIT CONCRETE COLOR SAMPLES TO CITY OF CORCORAN PRIOR TO CONSTRUCTION OF CONCRETE

SECTION A-A N.T.S.

PIPING NOTES

- 1.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER (OR EQUAL) TO ADJUST FOR SITE CONDITIONS.
- 1.2 ANY REQUIRED WATER METER, BACKFLOW PREVENTER AND PRESSURE REGULATORS ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER.
- 1.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- 1.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 140 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 140 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
- 1.5 FINAL LOCATION OF DRAIN AND LINE ROUTING ARE TO BE DETERMINED BY OTHERS.
- 1.6 PRESSURE LINES SHALL BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.7 DRAINAGE LINES SHALL BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.

LEGEND



CONSTRUCT 4" THICK FIBERIZED CONCRETE WITH GRADE 40 METAL AND GALVANIZED CONCRETE-REINFORCING MESH AND WITH MEDIUM BROOM FINISH, SEE SECTION A-A (THIS SHEET)

CONSTRUCT4" THICK FIBERIZED CONCRETE WITH GRADE 40 METAL AND GALVANIZED CONCRETE-REINFORCING MESH AND WITH MEDIUM BROOM FINISH AND TAN COLOR, SEE SECTION A-A (THIS SHEET)

CONSTRUCT 4" THICK FIBERIZED CONCRETE WITH GRADE 40 METAL AND GALVANIZED CONCRETE-REINFORCING MESH AND WITH MEDIUM BROOM FINISH AND BLUE COLOR, SEE SECTION A-A (THIS SHEET)

		FEATURE C	ONNECTION T	ABLE			
ANIFOLD TPUT REF.	SOLENOID VALVE	FEATURE REF.	FEATURE		QTY	LINE SIZE	GPM
S01	1 1/2" STD	I	LUNA N°3 VOR 7234		1	1 1/2"	6.5
S02	1 1/2" STD	J	PICO N°1 VOR 7127		1	1 1/2"	6.5
S03	1 1/2" STD	0	WAVE VOR 0327		2	1 1/2"	11
S04	1 1/2" STD	с	BAMBOO T VOR 7	REE N°2 789	1	1 1/2"	4.5
S05	1 1/2" STD	В	BAMBOO TREE N°1 VOR 7725		2	1 1/2"	3
S06	1 1/2" STD	Е	FOUNTAIN SPRAY N°2 VOR 7676		1	1 1/2"	3
S07	1 1/2" STD	А	BAMBOO FLOWER N°1 VOR 7723		2	1 1/2"	8
S08	1 1/2" STD	F	HELIO N°6 VOR 7241		1	1 1/2"	13
S09	1 1/2" STD	G	JET STREAM N°1 VOR 7512		3	1 1/2"	7.5
S10	1 1/2" STD	L	ROOSTER TAIL VOR 0303		2	1 1/2"	18
S11	1 1/2" STD	E	FOUNTAIN SPRAY N°2 VOR 7676		1	1 1/2"	3
S12	1 1/2" STD	М	SILHOUETTE N°5 VOR 7777		1	1 1/2"	5.5
S13	1 1/2" STD	N	WATER TUNNEL N°2 VOR 0309		1	1 1/2"	10
				PRODUCT LEGEND			
			PRODUCT REF.	PRODUCT		QTY	
			IA	BOLLARD ACTIVATOR N°3 VOR-611 PLAYSAFE DRAIN N°1 VOR-1001.4000		1	
			IB			2	
			IC	WATER SYS 3515	DISTRIE TEM; W 9D2009	BUTION MM R00	1
			IF	3" CITY WATER LINE @ 50PSI		1	
			IG TO PERCOLATION TANK (42,235 GAL)		1		
			IH	8" DRAIN LINE TO PERCOLATION TANK		1	
			11	4" TYP DI STRAINER DRAIN/ ENSURE P FROST LII	RAIN LIN CONNE AGE SYS -TRAP I NE TO P REEZING	NE WITH CTED TO STEM. S BELOW REVENT	1
			X~~	3" PRESSL	JRE REG	GULATOR	1



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1.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

3" BACKFLOW PREVENTER

SOLENOID VALVE $1\frac{1}{2}$ "

13

1.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

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1.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.

1.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE CONTROLLER.

1.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.

1.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 159GPM

1.15 TOTAL FLOW OF THE FEATURE IS 99.5 GPM

1.16 FACTORY MAXIMUM SEQUENCING IS 80 GPM AND AVERAGE SEQUENCING IS 70 GPM. ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.




CD-6.02

ELECTRICAL LINE -----



DETAIL 1 - ELECTRICAL LAYOUT SCALE: 1/8" = 1'-0"



EQUAL).

- 2.1 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF FIVE (5) CONDUCTORS PER ACTIVATOR.CABLE LENGTH UP TO 246' (75m), PROVIDED BY VORTEX (OR
- 2.2 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.
- 2.3 WIRE FROM MAIN POWER TO VORTEX PANEL (REFER TO ELECTRICAL PLANS)
- 2.4 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 2.5 USE #8 BARE COPPER BONDING WIRE BETWEEN FEATURES TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE.
- 2.6 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND ANY OTHER ENCLOSURE MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.
- 2.7 FAILURE TO FOLLOW THE RECOMMENDED WIRE GAUGE SPECIFICATIONS MIGHT LEAD TO SERVICE FAILURES AND/OR CABLE DAMAGE.
- 2.8 CABLE LENGTH FOR LEDs IS CALCULATED ON ESTIMATION BASED ON HORIZONTAL PLANE ONLY. FINAL LENGTH MUST BE VALIDATED PRIOR TO INSTALLATION BY THE INSTALLER.
- 2.9 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO POWER BOX.
- 2.10 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY INSTALLER.
- 2.11 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 VAC AND 12 DIGITAL INPUTS.
- 2.12 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.
- 2.13 ALL WIRES AND CABLES SHALL BE BRAND NEW AND APPROVED ACCORDING TO LOCAL CODE.
- 2.14 CABLE SPECIFICATION GIVEN BY VORTEX MUST BE RESPECTED (REFER TO INSTALLATION DRAWING)



DETAIL 2 - ELECTRICAL LAYOUT SCALE: 1/2" = 1'-0"

ELECTRICAL LINE CONNECTOIN POWER (P'X')						
CONNECTION REF.	FROM	то	# CONDUCTORS	GAUGE/TYPE	NOTE	
PA	MAIN POWER LINE	ID2- 120VAC	SEE ELECTRICAL PLANS	SEE ELECTRICAL PLANS	120V, 1 PHASE, 60Hz, 10 AMPS BREAKER RECOMMENDED ± 5% VOLTAGE DROP IS ACCEPTABLE	
PB	MAIN POWER LINE	IE-120VAC	SEE ELECTRICAL PLANS	SEE ELECTRICAL PLANS	120V, 1 PHASE, 60Hz, 10 AMPS BREAKER RECOMMENDED ± 5% VOLTAGE DROP IS ACCEPTABLE	

ELECTRICAL LINE CONNECTIONS CONTROLLER INPUTS (EI'X')						
CONNECTION REF.	FROM	то	# CONDUCTORS	GAUGE/TYPE	NOTE	
EIA	ID1-INPUT 1	IA	5	22	BOLLARD ACTIVATOR NO. 24VDC, MAX345 mA, 246' LONG CABLE (BY VORTEX)	

ELECTRICAL LINE CONNECTIONS CONTROLLER OUTPUTS (EO'X')						
CONNECTION REF.	FROM	то	# CONDUCTORS	GAUGE/TYPE	NOTE	
EOA	ID1	IE	CABLE	ETHERNET CAT 5	SIGNAL FROM MAESTROPRO CONTROLLER TO LED POWER PACK	
ЕОВ	IE	IJ-1 (X3)	5 (PER LED LINE) 2 PWR/12VAC, 2 COM/ DMX, 1GRD	2PWR/12 AWG, 2 COM/22 AWG (SHIELTED/TWISTED) ,120 OHM IMPEDENCE GRD/18 AWG	SIGNAL FROM LED POWER PACK TO LED LIGHT, MAX 100' LONG (BY INSTALLER)	
EOC	IE	IJ-2 (X2)	5 (PER LED LINE) 2 PWR/12VAC, 2 COM/DMX, 1 GRD	2PWR/12 AWG, 2 COM/22 AWG (SHIELTED/TWISTED) ,120 OHM IMPEDENCE GRD/18 AWG	SIGNAL FROM LED POWER PACK TO LED LIGHT, MAX 150' LONG (BY INSTALLER)	
EOD	IE	IJ-3 (X2)	5 (PER LED LINE) 2 PWR/12VAC, 2 COM/DMX, 1 GRD	2PWR/12 AWG, 2 COM/22 AWG (SHIELTED/TWISTED) ,120 OHM IMPEDENCE GRD/18 AWG	SIGNAL FROM LED POWER PACK TO LED LIGHT, MAX 150' LONG (BY INSTALLER)	
EOE	IE	IJ-4 (X2)	5 (PER LED LINE) 2 PWR/12VAC, 2 COM/DMX, 1 GRD	2PWR/12 AWG, 2 COM/22 AWG (SHIELTED/TWISTED) ,120 OHM IMPEDENCE GRD/18 AWG	SIGNAL FROM LED POWER PACK TO LED LIGHT, MAX 150' LONG (BY INSTALLER)	

FEATURE CONNECTION TABLE							
MANIFOLD OUTPUT REF.	SOLENOID VALVE	FEATURE REF.	FEATURE	OUTPUT (ID1)			
S01	1 1/2" STD	I	LUNA N°3 VOR 7234	1			
S02	1 1/2" STD	J	PICO N°1 VOR 7127	2			
S03	1 1/2" STD	О	WAVE VOR 0327	3			
S04	1 1/2" STD	С	BAMBOO TREE N°2 VOR 7789	4			
S05	1 1/2" STD	В	BAMBOO TREE N°1 VOR 7725	5			
S06	1 1/2" STD	E	FOUNTAIN SPRAY N°2 VOR 7676	6			
S07	1 1/2" STD	A	BAMBOO FLOWER N°1 VOR 7723	7			
S08	1 1/2" STD	F	HELIO N°6 VOR 7241	8			
S09	1 1/2" STD	G	JET STREAM N°1 VOR 7512	9			
S10	1 1/2" STD	L	Rooster Tail VOR 0303	10			
S11	1 1/2" STD	E	FOUNTAIN SPRAY N°2 VOR 7676	11			
S12	1 1/2" STD	М	SILHOUETTE N°5 VOR 7777	12			
S13	1 1/2" STD	N	WATER TUNNEL N°2 VOR 0309	13			

	PRODUCT LEGEND	
PRODUCT REF.	PRODUCT	QTY
IA	BOLLARD ACTIVATOR N°3 VOR-611	1
IC	WATER DISTRIBUTION SYSTEM; WMM 35159D2009R00	1
ID1	MAESTROPRO CONTROLLER 24 OUT/ 12 IN	1
ID2	MAESTROPRO POWER BOX	1
IE	LED POWER PACK	1





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PROFESSIONAL SERIES, ARM CURL UE APPROVED EQUAL), SEE SHEET CD-7.	3X-255 (OR 03, DETAIL 4			
CONSTRUCT FITNESS STATION 2 PAD	6" THICK			
CONCRETE WITH #4 BARS AT 36" O.C. AGGREGATE BASE 95% RELATIVE CON COMPACTED SUB-GRADE 95% RELATI	MAX, 2" CLASS 2 MPACTION, 6" MIN VE COMPACTION.			
INSTALL GREENFIELDS OUTDOOR FIT PROFESSIONAL SERIES. TRICEPS PRE	NESS STATION,			
APPROVED EQUAL), SEE SHEET CD-7.	03, DETAIL 3			
SIGN PER DETAILS 3 AND 8, SEE SHEE	T CD-15.02			
INSTALL GREENFIELDS OUTDOOR FITI	NESS STATION,			
APPROVED EQUAL), SEE SHEET CD-7.	04, DETAIL 9			
CONSTRUCT FITNESS <u>STATION 3</u> PAD, CONCRETE WITH #4 BARS AT 36" O.C. 2 AGGREGATE BASE 95% RELATIVE CO MIN COMPACTED SUB-GRADE 95% RE COMPACTION.	6" THICK MAX, 2" CLASS DMPACTION, 6" LATIVE			
INSTALL GREENFIELDS OUTDOOR FIT PROFESSIONAL SERIES, LEG PRESS U APPROVED EQUAL), SEE SHEET CD-7.	NESS STATION, ——— IBX-215 (OR 04, DETAIL 10			
INSTALL EXERCISE EQUIPMENT SAFE	TY WARNING			
CONSTRUCT FITNESS <u>STATION 4</u> PAD, CONCRETE WITH #4 BARS AT 36" O.C. AGGREGATE BASE 95% RELATIVE COI	6" THICK MAX, 2" CLASS 2 MPACTION, 6" MIN			X
INSTALL GREENFIELDS OUTDOOR FIT	VE COMPACTION.		/	
APPROVED EQUAL), SEE SHEET CD-7.	ESS UBX-247 (OR 05, DETAIL 5			
INSTALL GREENFIELDS OUTDOOR FIT PROFESSIONAL SERIES, ACCESSIBLE VERTICAL PRESS UBX-247W (OR APPF SEE SHEET CD-7.05, DETAIL 6	ADJUSTABLE ROVED EQUAL),			
INSTALL EXERCISE EQUIPMENT SAFET SIGN PER DETAILS 3 AND 8, SEE SHEE	TY WARNING ——— T CD-15.02			
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				(A A A A A A A A A A A A A A A A A A A
INSTALL GREENFIELDS OUTDOOR FITI	NESS STATION			
PROFESSIONAL SERIES, AB BENCH UE APPROVED EQUAL), SEE SHEET CD-7.	3X-223 (OR 06, DETAIL 7			
CONSTRUCT FITNESS STATION 5 PAD.				
CONCRETE WITH #4 BARS AT 36" O.C. AGGREGATE BASE 95% RELATIVE CON COMPACTED SUB-GRADE 95% RELATI	MAX, 2" CLASS 2 MPACTION, 6" MIN VE COMPACTION			
INSTALL GREENFIELDS OUTDOOR FIT PROFESSIONAL SERIES, CHEST PRES APPROVED EQUAL), SEE SHEET CD-7.	NESS STATION, S UBX-246 (OR 06, DETAIL 8			
INSTALL EXERCISE EQUIPMENT SAFE	TY WARNING			





 INSTALL GREENFIELDS OUTDOOR FITNESS STATION, PROFESSIONAL SERIES, STEPPER UBX-292 (OR APPROVED EQUAL), SEE SHEET CD-7.02, DETAIL 1

CONSTRUCT FITNESS <u>STATION 1</u> PAD, 6" THICK
 CONCRETE WITH #4 BARS AT 36" O.C. MAX, 2" CLASS 2
 AGGREGATE BASE 95% RELATIVE COMPACTION, 6" MIN
 COMPACTED SUB-GRADE 95% RELATIVE COMPACTION.

 INSTALL GREENFIELDS OUTDOOR FITNESS STATION, PROFESSIONAL SERIES, BENCH PRESS UBX-293 (OR APPROVED EQUAL), SEE SHEET CD-7.02, DETAIL 2

 INSTALL EXERCISE EQUIPMENT SAFETY WARNING SIGN PER DETAILS 3 AND 8, SEE SHEET CD-15.02

CONSTRUCTION NOTE:

 EQUIPMENT COLOR SHALL BE BLACK. CONTRACTOR TO SUBMIT FOR ENGINEER'S APPROVAL BEFORE ORDERING.
 ALL CONCRETE SHALL BE CLASS 3 CONCRETE.

3. REBAR SHALL BE DEFORMED STEEL BARS AND SHALL BE GRADE 40 MINIMUM. REBAR SHALL BE FREE OF RUST OR DIRT AND SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT.

4. REBAR SHALL HAVE A MINIMUM OF 2" OF CLEAR COVERAGE.





CD-7.01



(DETAIL 1) PRO SERIES MODEL (UBX-292) ADJUSTABLE STEPPER





FRONT ELEVATION













TOP VIEW LINE

SAFETY ZONE AREA

FRONT ELEVATION





(DETAIL 2) PRO SERIES MODEL (UBX-293) ADJUSTABLE BENCH PRESS



PLAN VIEW



(DETAIL 3) PRO SERIES MODEL (UBX-244) ADJUSTABLE TRICEP PRESS



TOP VIEW LINE SAFETY ZONE AREA



FRONT ELEVATION



PLAN VIEW



DETAIL A



SIDE ELEVATION

NOTES: 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 2. DO NOT SCALE DRAWING. 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN

PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.

4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE. 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER

REFERENCE NUMBER 4913-044. 6. EQUIPMENT COLOR SHALL BE BLACK. CONTRACTOR TO SUBMIT FOR ENGINEER'S APPROVAL BEFORE ORDERING. 7. EQUIPMENT ANCHORAGE PER MANUFACTURER RECOMMENDATIONS.

(DETAIL 4) PRO SERIES MODEL (UBX-255) ADJUSTABLE ARM CURL













PLAN VIEW



(DETAIL 9) PRO SERIES MODEL (UBX-217) ADJUSTABLE SQUAT





FRONT ELEVATION





MODEL (UBX-215) ADJUSTABLE LEG PRESS

(DETAIL 10) PRO SERIES

	CITY OF CORCORAN GATEWAY PARK
	SHEET TITLE:
	FITNESS STATION PLAN - STATION 3
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PLAN VIEW



(DETAIL 5) PRO SERIES MODEL (UBX-247) ADJUSTABLE VERTICAL PRESS













DETAIL A



NOTES: 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 2. DO NOT SCALE DRAWING. 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION. 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED ALL INFORMATION CONTAINED HEREIN WAS CORRENT AT THE TIME OF DEVELOPMENT BUT MOST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4913-042. 6. EQUIPMENT COLOR SHALL BE BLACK. CONTRACTOR TO SUBMIT FOR ENGINEER'S APPROVAL BEFORE ORDERING.

7. EQUIPMENT ANCHORAGE PER MANUFACTURER RECOMMENDATIONS.

(DETAIL 6) PRO SERIES MODEL (UBX-247-W) ACCESSIBLE ADJUSTABLE VERTICAL PRESS



TOP VIEW LINE SAFETY ZONE AREA











REFERENCE NUMBER 4913-039. 6. EQUIPMENT COLOR SHALL BE BLACK. CONTRACTOR TO SUBMIT FOR ENGINEER'S APPROVAL BEFORE ORDERING. 7. EQUIPMENT ANCHORAGE PER MANUFACTURER RECOMMENDATIONS.

(DETAIL 7) PRO SERIES MODEL (UBX-223) SIT-UP BENCH





FRONT ELEVATION







6. EQUIPMENT COLOR SHALL BE BLACK. CONTRACTOR TO SUBMIT FOR ENGINEER'S APPROVAL BEFORE ORDERING. 7. EQUIPMENT ANCHORAGE PER MANUFACTURER RECOMMENDATIONS.

(DETAIL 8) PRO SERIES MODEL (UBX-246) ADJUSTABLE CHEST PRESS



CONSULTING ENGINEERS	
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DETAIL 1 - ACCESSIBLE PARKING STALL SIGN SCALE: 1" = 2'

- INSTALL REMOVABLE ROUND CONCRETE BOLLARDS VANDAL RESISTANT SECURITY BARRIERS (KAY). MOUNTING OPTION "B", COLOR DOVE GRAY, TEXTURE DURABRITE OR APPROVED EQUAL. SEE DETAIL 5 ON SHEET CD-9.02 (TYP. OF 3)
 PAINT RED CURB WITH "FIRE LANE NO PARKING" MARKINGS
- EMERGENCY VEHICLE ACCESS PATHWAY
- ➤ EMERGENCY VEHICLE ACCESS ROUTE









- 1. FORMS TO REMAIN FOR A MINIMUM OF 24 HOURS
- 2. WOOD FORMS SHALL HAVE A NORMAL THICKNESS OF 2", EXCEPT ON CURVE CONSTRUCTION WHERE THE THICKNESS SHALL BE DETERMINED BY THE CITY ENGINEER
- 12" CLASS II AGGREGATE BASE 3. EXPANSION JOINTS SHALL BE INSTALLED WITHIN CURVILINEAR SIDEWALKS AT MIN. 60 FEET O.C.
 - 4. CONCRETE SHALL BE MINIMUM FIVE STACK MIX (3200 PSI MIN. IN 28 DAYS)

CONSTRUCT 6" THICK STAMPED REINFORCED CONCRETE WITH GRADE 40 METAL AND GALVANIZED CONCRETE REINFORCING MESH

- CONSTRUCT 6" THICK REINFORCED CONCRETE WITH #4 BARS AT 24" O.C. MAXIMUM, BOTH WAYS
- CONSTRUCT 6" THICK ASPHALT CONCRETE
- 4" THICK RED CONCRETE (COLOR SAMPLE TO BE SUBMITTED FOR CITY APPROVAL); COLOR SHALL MATCH EXISTING ADJACENT CONCRETE

60000 INSTALL GRAY TRUNCATED DOMES



CONSTRUCT REINFORCED CONCRETE DRIVE APPROACH PER CITY STANDARD C-12, SEE SHEET DS-1.02 FOR DETAILS

- CONSTRUCT ADA CURB RAMP, AND INSTALL

"GRAY" COLOR TRUNCATED DOMES PER DETAIL C-33, SEE SHEET DS-1.02 (TYP.)

- CONSTRUCT ADA CURB RAMP, AND INSTALL "GRAY" COLOR TRUNCATED DOMES PER DETAIL C-33, SEE SHEET DS-1.02 (TYP.)

- CONSTRUCT LITHONIA SINGLE HEAD PARKING LOT LIGHT, SEE SHEET ES-1.01 (TYP. OF 2)

CONSTRUCT BIO-SWALE CURB OPENING PER DETAIL 2, SEE SHEET CD-9.02 (TYP. OF 6) - CONSTRUCT LITHONIA DOUBLE HEAD PARKING LOT LIGHT, SEE SHEET ES-1.01 (TYP. OF 2)

- INSTALL 44 PRECAST WHEEL STOPS PER CITY OF CORCORAN STANDARDS, SEE SHEET CD-9.02 FOR DETAILS.

- CONSTRUCT APPROX. 53.6 LF OF 1' HIGH RETAINING WALL PER DETAIL 6, SEE SHEET CD-9.02 CONSTRUCT APPROX. 280 LF OF LANDSCAPING CURB PER DETAIL 1, SEE SHEET CD-9.02 (TYP.)

CONSTRUCT DRAIN INLET PER CITY STANDARD DETAIL SD-4, SEE SHEET DS-1.01 (TYP.) CONSTRUCT 48" SD MANHOLE PER DETAIL D-1, SEE SHEET DS-1.01 (TYP.)

CONSTRUCT 18" PVC STORM DRAIN PIPE, SEE SHEET CD-2.01 FOR DETAILS - CONSTRUCT APPROX. 34.1 LF OF 1.5' HIGH

RETAINING WALL PER DETAIL 6, SEE SHEET CD-9.02 CONSTRUCT PARKING LOT SOLAR LIGHT FIXTURE, SEE SHEET ######## FOR DETAILS (TYP. OF 7)



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SHEET NO.

CD-9.01









FEET

CONNECT 2" SCH. 80 PVC SEWER FORCE MAIN -INTO EXISTING SEWER MANHOLE, SEE DETAIL, (THIS SHEET).



CONSTRUCT PRECAST SANITARY SEWER -LIFT STATION ONE, SEE SHEET CD-10.02









CONCRETE NOTES

PRECAST CONCRETE MANUFACTURER MUST BE NPCA-CERTIFIED. DESIGN SHALL BE ACCORDING TO ACI 318/318R. MIX DESIGN SHALL BE: 4,000 PSI MINIMUM, WITH 0.45 MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO. WET WELL DESIGNED PER ASTM C 478, PRECAST, REINFORCED CONCRETE.

PUMP NOTES

FURNISH AND INSTALL 2 (QTY) BARNES SINGLE PHASE RECESSED VORTEX SUBMERSIBLE GRINDER PUMP (OR APPROVED EQUAL) WITH A SELF-ENGAGING LIFT OUT ASSEMBLY, DESIGNED TO HANDLE PUMPING OF UNSCREENED DRAINAGE WATER.

THE VOLUTE, SEAL PLATES AND MOTOR HOUSING SHALL BE CONSTRUCTED OF HIGH QUALITY ASTM A-48 CLASS 30 CAST IRON. THE PUMP IMPELLER SHALL BE OF THE NON-CLOG/VORTEX DESIGN WITH PUMP OUT VANES ON THE BACK SIDE. THE UNIT SHALL UTILIZE A TANDEM MECHANICAL SHAFT SEAL ARRANGEMENT AND SHALL OPERATE IN AN OIL ATMOSPHERE. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR START, CAPACITOR RUN DESIGN.

THE MOTOR SHAFT SHALL BE OF 416 STAINLESS STEEL. PROTECTION AGAINST EXCESSIVE TEMPERATURE SHALL BE PROVIDED BY HEAT SENSOR THERMOSTAT ATTACHED TO THE STATOR WINDINGS AND CONNECTED IN SERIES WITH THE CONTACTOR COIL IN THE CONTROL PANEL. THE SINGLE PHASE MODELS SHALL PROVIDE PROTECTION AGAINST EXCESSIVE TEMPERATURE THROUGH THE USE OF AN IN-LINE HEAT/CURRENT SENSOR. THE LOWER BEARING SHALL BE OF THE SINGLE BALL TYPE TO ACCEPT RADIAL AND THRUST LOADS, AND THE UPPER BEARING OF THE SINGLE BALL DESIGN, FOR RADIAL LOADS. BEARINGS SHALL OPERATE IN AN OIL BATH ATMOSPHERE.

THE PUMP SHALL UTILIZE THE BARNES BREAK-AWAY FITTING (OR APPROVED EQUAL) WHICH INCLUDES AN INTEGRAL CHECK VALVE. THE PUMP SHALL BE EQUIPPED WITH 30 FT. OF CSA/UL APPROVED 12/4 TYPE SOW POWER CORD AND CONNECTED TO THE MOTOR VIA QUICK DISCONNECT PIN TERMINALS.

CONTROL PANEL NOTES

PROVIDE ALDERON SINGLE PHASE DUPLEX "CHECK IT" SERIES PUMP CONTROL PANEL (OR APPROVED EQUAL). CHECK IT PANEL IS FLOAT SWITCH OPERATED AND INCLUDES: NEMA 4X ENCLOSURE, LOCKABLE HASP, BEACON AND ALARM BUZZER, TEST & SILENCE SWITCHES, HOA SWITCHES, PUMP RUN INDICATORS AND FLOAT SWITCH INDICATORS. CONTROL SEQUENCE OF OPERATION: CYCLE EACH PUMP ON AND OFF AUTOMATICALLY TO MAINTAIN WELL WASTEWATER LEVEL. AUTOMATIC CONTROL OPERATES BOTH PUMPS IN PARALLEL IF WELL LEVEL RISES ABOVE STARTING POINT OF LOW-LEVEL PUMP, UNTIL SHUTOFF LEVEL IS REACHED. AUTOMATIC ALTERNATOR, WITH MANUAL DISCONNECT SWITCH, CHANGES SEQUENCE OF LEAD-LAG SEWAGE PUMPS AT COMPLETION OF EACH PUMPING CYCLE. MINIMUM 4 QTY MECHANICAL FLOAT CONTROL SWITCHES SHALL BE PROVIDED WITH CONTROL PANEL.

PIPING AND HARDWARE NOTES

ALL PIPING, FITTINGS, AND VALVES SHALL BE SCHEDULE 80 AND CONFORMING TO ASTM STANDARD D 1784. ALL HARDWARE PROVIDED AND USED WITHIN WET WELL SHALL BE 316SS QUALITY.

COMMISSIONING NOTES

THE PUMPS AND STATION INTEGRATION SHALL BE TESTED AND CONFIRMED AT START-UP TO THE CITY.

GENERAL LIFT STATION NOTES

- 1. DRAWINGS SHOW TYPICAL ARRANGEMENT OF EQUIPMENT. DETAILED DIMENSIONS SHALL BE PER MANUFACTURERS RECOMMENDATION AND AS APPROVED BY THE ENGINEER. SEE CITY STANDARD SPECIFICATION FOR WET WELL LIFT STATIONS.
- 2. ALL ANCHOR BOLTS, NUTS, BOLTS AND OTHER HARDWARE USED ON OR WITHIN WET WELL SHALL BE STAINLESS STEEL. 3. ALL PUMP DISCHARGE PIPING AND FITTINGS IN WET WELL AND VALVE VAULT SHALL BE CLASS 150 FLANGED DUCTILE IRON WITH FUSION
- BONDED EPOXY LININGS AND COATINGS, UNLESS OTHERWISE NOTED ON PLANS. 4. INTERIOR WALLS AND CEILING OF WET WELL ARE TO BE T-LOCK LINED.
- 5. PROVIDE EXTERIOR WATER PROOFING ON ALL WALLS AND UNDER BASE OF WET WELL IN ACCORDANCE WITH THE CONTRACT SPECIFICATION AND NOTES ON DRAWINGS.



PRECAST 2" DUPLEX SEWER LIFT - STATION ONE

PLAN VIEW (N.T.S.)

PUMP	CHAR	ACTER	ISTICS	

DESCRIPTION	VALUE
DUTY POINT RANGE	UP TO 50 GPM
MANUFACTURER	BARNES (OR APPROVED EQUAL)
MODEL NUMBER	SERIES SGVF
PUMP TYPE	SUBMERSIBLE GRINDER PUMP
MOTOR SIZE	2.0 HP
POWER SUPPLY	240V+ SINGLE PHASE

CONTRACTOR NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE FITTINGS & VALVES WITH THE SELECTED PUMP MODEL.
- 2. CONTRACTOR SHALL VERIFY & BE RESPONSIBLE FOR THE CONCRETE VAULT SIZE WITH SELECTED VAULT VALVES.

CONTRACTOR SHALL BE RESPONSIBLE -FOR THE PLACEMENT OF ELECTRICAL PANEL



	BILL OF MATERIALS		
CALLOUT	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	DUPLEX ALTERNATING CONTROL PANEL	E.A.	1
2	48" DIA. JENSEN PRECAST CONCRETE MANHOLE BASE	E.A.	2
3	48" MANHOLE BARREL *HEIGHT VARIES*	E.A.	1
4	48" MANHOLE BARREL *HEIGHT VARIES*	E.A.	1
5	48" DIA. JENSEN PRECAST CONCRETE MANHOLE FLAT TOP	E.A.	1
6	30" DIA. CAST IRON RING AND COVER WITH GASKET	E.A.	1
7	3 HOOK BRACKET TYPE 316SS (OR APPROVED EQUAL)	E.A.	1
8	MECHANICAL FLOAT CONTROL SWITCH W/ CORD WEIGHT	E.A.	4
9	SUBMERSIBLE GRINDER PUMP WITH 2" NPT DISCHARGE AND 30' POWER CABLE	E.A.	2
10	STANDARD 2" AUTOCOUPLING WITH CHECK VALVE & SS ANCHORS	E.A.	2
(11)	ADAPTER 2" MA THRD X SLIP SCH 80 PVC	E.A.	2
(12)	L.F. PIPE 2" PVC SCH 80 *CUT TO LENGTH AS NEEDED	E.A.	20
(13)	L.F. 304SS 1" DIA SCH40 PIPE *CUT TO LENGTH AS NEEDED	E.A.	20
14	BALL VALVE 2IN SCH 80 PVC SLIP TRUE UNION	E.A.	2
(15)	90 DEG ELBOW 2" SCH 80 PVC SLIP	E.A.	2
(16)	1 HOOK BRACKET TYPE 316SS (OR APPROVED EQUAL)	E.A.	2
(17)	UPPER GUIDE RAIL BRACKET 2"	E.A.	2
18	L.F. 316SS STRUT C-CHANNEL W/ SS INSTALL HARDWARE *CUT AS NEEDED*	E.A.	10
(19)	FITTING PVC TEE 2" SCH 80 SLIP	E.A.	1
20	FLEXIBLE BOOT TYPE PIPE CONNECTOR MEETS ASTMC-923. 7IN CORE HOLE FOR 1.5-4.8" PIPE O.D.	E.A.	3
21	UNION 2" SCH 80 PVC	E.A.	1





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PRECAST 2" DUPLEX SEWER LIFT - STATION ONE

PROFILE VIEW (N.T.S.)

CONCRETE NOTES

PRECAST CONCRETE MANUFACTURER MUST BE NPCA-CERTIFIED. DESIGN SHALL BE ACCORDING TO ACI 318/318R. MIX DESIGN SHALL BE: 4,000 PSI MINIMUM, WITH 0.45 MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO. WET WELL DESIGNED PER ASTM C 478, PRECAST, REINFORCED CONCRETE.

PUMP NOTES

FURNISH AND INSTALL 2 (QTY) BARNES SINGLE PHASE RECESSED VORTEX SUBMERSIBLE GRINDER PUMP (OR APPROVED EQUAL) WITH A SELF-ENGAGING LIFT OUT ASSEMBLY, DESIGNED TO HANDLE PUMPING OF UNSCREENED DRAINAGE WATER.

THE VOLUTE, SEAL PLATES AND MOTOR HOUSING SHALL BE CONSTRUCTED OF HIGH QUALITY ASTM A-48 CLASS 30 CAST IRON. THE PUMP IMPELLER SHALL BE OF THE NON-CLOG/VORTEX DESIGN WITH PUMP OUT VANES ON THE BACK SIDE. THE UNIT SHALL UTILIZE A TANDEM MECHANICAL SHAFT SEAL ARRANGEMENT AND SHALL OPERATE IN AN OIL ATMOSPHERE. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR START, CAPACITOR RUN DESIGN.

THE MOTOR SHAFT SHALL BE OF 416 STAINLESS STEEL. PROTECTION AGAINST EXCESSIVE TEMPERATURE SHALL BE PROVIDED BY HEAT SENSOR THERMOSTAT ATTACHED TO THE STATOR WINDINGS AND CONNECTED IN SERIES WITH THE CONTACTOR COIL IN THE CONTROL PANEL. THE SINGLE PHASE MODELS SHALL PROVIDE PROTECTION AGAINST EXCESSIVE TEMPERATURE THROUGH THE USE OF AN IN-LINE HEAT/CURRENT SENSOR. THE LOWER BEARING SHALL BE OF THE SINGLE BALL TYPE TO ACCEPT RADIAL AND THRUST LOADS, AND THE UPPER BEARING OF THE SINGLE BALL DESIGN, FOR RADIAL LOADS. BEARINGS SHALL OPERATE IN AN OIL BATH ATMOSPHERE.

THE PUMP SHALL UTILIZE THE BARNES BREAK-AWAY FITTING (OR APPROVED EQUAL) WHICH INCLUDES AN INTEGRAL CHECK VALVE. THE PUMP SHALL BE EQUIPPED WITH 30 FT. OF CSA/UL APPROVED 12/4 TYPE SOW POWER CORD AND CONNECTED TO THE MOTOR VIA QUICK DISCONNECT PIN TERMINALS.

CONTROL PANEL NOTES

PROVIDE ALDERON SINGLE PHASE DUPLEX "CHECK IT" SERIES PUMP CONTROL PANEL (OR APPROVED EQUAL). CHECK IT PANEL IS FLOAT SWITCH OPERATED AND INCLUDES: NEMA 4X ENCLOSURE, LOCKABLE HASP, BEACON AND ALARM BUZZER, TEST & SILENCE SWITCHES, HOA SWITCHES, PUMP RUN INDICATORS AND FLOAT SWITCH INDICATORS. CONTROL SEQUENCE OF OPERATION: CYCLE EACH PUMP ON AND OFF AUTOMATICALLY TO MAINTAIN WELL WASTEWATER LEVEL, AUTOMATIC CONTROL OPERATES BOTH PUMPS IN PARALLEL IF WELL LEVEL RISES ABOVE STARTING POINT OF LOW-LEVEL PUMP, UNTIL SHUTOFF LEVEL IS REACHED. AUTOMATIC ALTERNATOR, WITH MANUAL DISCONNECT SWITCH, CHANGES SEQUENCE OF LEAD-LAG SEWAGE PUMPS AT COMPLETION OF EACH PUMPING CYCLE. MINIMUM 4 QTY MECHANICAL FLOAT CONTROL SWITCHES SHALL BE PROVIDED WITH CONTROL PANEL.

PIPING AND HARDWARE NOTES

ALL PIPING, FITTINGS, AND VALVES SHALL BE SCHEDULE 80 AND CONFORMING TO ASTM STANDARD D 1784. ALL HARDWARE PROVIDED AND USED WITHIN WET WELL SHALL BE 316SS QUALITY.

COMMISSIONING NOTES

THE PUMPS AND STATION INTEGRATION SHALL BE TESTED AND CONFIRMED AT START-UP TO THE CITY.

GENERAL LIFT STATION NOTES

- 1. DRAWINGS SHOW TYPICAL ARRANGEMENT OF EQUIPMENT. DETAILED DIMENSIONS SHALL BE PER MANUFACTURERS RECOMMENDATION AND AS APPROVED BY THE ENGINEER. SEE CITY STANDARD SPECIFICATION FOR WET WELL LIFT STATIONS.
- 2. ALL ANCHOR BOLTS, NUTS, BOLTS AND OTHER HARDWARE USED ON OR WITHIN WET WELL SHALL BE STAINLESS STEEL. 3. ALL PUMP DISCHARGE PIPING AND FITTINGS IN WET WELL AND VALVE VAULT SHALL BE CLASS 150 FLANGED DUCTILE IRON WITH FUSION
- BONDED EPOXY LININGS AND COATINGS, UNLESS OTHERWISE NOTED ON PLANS. 4. INTERIOR WALLS AND CEILING OF WET WELL ARE TO BE T-LOCK LINED.
- 5. PROVIDE EXTERIOR WATER PROOFING ON ALL WALLS AND UNDER BASE OF WET WELL IN ACCORDANCE WITH THE CONTRACT SPECIFICATION AND NOTES ON DRAWINGS.



PRECAST 1.25" DUPLEX SEWER LIFT - STATION TWO

PLAN VIEW (N.T.S.)



PUMP CHARACTERISTICS	
DESCRIPTION	VALUE
DUTY POINT RANGE	UP TO 30 GPM OR 25' TDH
MANUFACTURER	BARNES (OR APPROVED EQUAL)
MODEL NUMBER	SERIES SGVF
PUMP TYPE	SUBMERSIBLE GRINDER PUMP
MOTOR SIZE	2.0 HP
POWER SUPPLY	240V+ SINGLE PHASE

CONTRACTOR NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE FITTINGS & VALVES WITH THE SELECTED PUMP MODEL.
- 2. CONTRACTOR SHALL VERIFY & BE RESPONSIBLE FOR THE CONCRETE VAULT SIZE WITH SELECTED VAULT VALVES.



	BILL OF MATERIALS		
CALLOUT	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	DUPLEX ALTERNATING CONTROL PANEL FOR 0.5 HP MOTORS	E.A.	1
2	48" DIA. JENSEN PRECAST CONCRETE MANHOLE BASE	E.A.	1
3	48" MANHOLE BARREL *HEIGHT VARIES*	E.A.	1
4	48" MANHOLE BARREL *HEIGHT VARIES*	E.A.	1
5	30" DIA. JENSEN PRECAST CONCRETE MANHOLE FLAT TOP	E.A.	1
6	30" DIA. CAST IRON RINGA ND COVER WITH GASKET	E.A.	1
7	3 HOOK BRACKET TYPE 316SS (OR APPROVED EQUAL)	E.A.	1
8	UNIMAX CONTROL SWITCH	E.A.	4
9	SUBMERSIBLE GRINDER PUMP WITH 1.25" NPT DISCHARGE AND 30' POWER CABLE	E.A.	2
10	STANDARD 1.25" AUTOCOUPLING WITH CHECK VALVE & SS ANCHORS	E.A.	2
(11)	ADAPTER PVC SCH 80 1-1/4" MA THD X SLIP	E.A.	2
(12)	L.F. PIPE 2IN PVC SCH 80 1.25" DIA. *CUT TO LENGTH AS NEEDED	E.A.	20
(13)	LF 304SS (OR APPROVED EQUAL) 1" DIA. SCH 40 PIPE *CUT TO LENGTH AS NEEDED	E.A.	20
14	BALL VALVE 1-1/4" SCH 80 PVC SLIP TRUE UNION	E.A.	2
(15)	90 DEG ELBOW 1-1/4" SCH 80 PVC SLIP	E.A.	2
(16)	1 HOOK BRACKET TYPE 316SS (OR APPROVED EQUAL)	E.A.	2
17	UPPER GUIDE RAIL BRACKET FOR 1.25" NPT DISCHARGE	E.A.	2
18	L.F. 316SS STRUT C-CHANNEL (OR APPROVED EQUAL) W/ SS INSTALL HARDWARE *CUT AS NEEDED*	E.A.	10
(19)	FITTING PVC TEE 1.25" SCH 80 SLIP	E.A.	1
20	FLEXIBLE BOOT TYPE PIPE CONNECTOR MEETS ASTMC-923. 7" CORE HOLE FOR 1.5-4.8" PIPE O.D.	E.A.	3
21	UNION 1-1/4" SCH 80 PVC	E.A.	1





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(N.T.S.)

CONTRACTOR TO ORDER CONTROLLER INDICATED ON IRRIGATION PLANS FOR DELIVERY DIRECTLY TO FACTORY FOR INSTALLATION. CONTRACTOR TO COORDINATE INSTALLATION OF CONTROLLER TELEPHONE LINE WITH THE CITY AND PUBLIC RESTROOM COMPANY AT

TRIPP LITE 14U SMARTRACK DEEP SERVER RACK - 42" DEPTH, FOR SERVER, PATCH PANEL, LAN SWITCH: 14U RACK HEIGHT X 19" RACK WIDTH X 37" RACK DEPTH, FLOOR STANDING - BLACK POWDER COAT - STEEL - 1000.90 LB DYNAMIC/ROLLING AND STATIC/STATIONARY

WD PURPLE WD121PURZ 12 TB HARD DRIVE - 3.5" INTERNAL SATA (STATA/600) - NETWORK VIDEO RECORDER DEVICE SUPPORTED - 7200



FLOOR PLAN

(N.T.S.)







DETAIL 1 - WATER FOUNTAIN N.T.S.





- $\underbrace{1}_{\text{PIPE WITH 1}\frac{1}{2}}^{\text{CONSTRUCT GRAVEL SUMP WITH 12" DIAMTER X 48" PVC }$ 2 CONSTRUCT 12" SUMP WITH LID.
- 3 CONSTRUCT ZURN Z-453 6" FLOOR DRAIN W/ VANDAL PROOF SCREWS, SHOWN DIAGRAMATICALLY.
- 4 FINISHED GRADE, SEE GRADING PLANS FOR DETAILS.
- 5 COMPACTED SUBGRADE COMPACTED TO 90% RELATIVE DENSITY.
- 6 CONCRETE PAVING, SEE GRADING PLANS FOR DETAILS.
- 7 PLUGGED TEE FOR DROWN DRAIN.
- (8) CONSTRUCT $\frac{3}{4}$ " ANGLE GATE VALVE.
- 9 CONNECT TO SERVICE LINE, CONTRACTOR TO COORDINATE.
- (10) CONSTRUCT DRINKING FOUNTAIN AS SPECIFIED, SEE DETAIL 1 THIS SHEET .
- 11 DRINKING FOUNTAIN BASE. INSTALL AND ANCHOR PER MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- (12) INSTALL $\frac{3}{8}$ " COPPER TUBING CONNECT.
- (13) INSTALL $1\frac{1}{2}$ " PVC DRAIN PIPE.
- (14) CONSTRUCT VALVE BOX.
- (15) CONSTRUCT $\frac{3}{4}$ " DRAIN ROCK.

DETAIL 2 - WATER FOUNTAIN N.T.S.



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DETAIL 3 - PARK ENTRANCE SIGN (PLAN VIEW) N.T.S.







DETAIL 4 - CULTURED STONE ECHO RIDGE N.T.S.



STONE SHALL MATCH ENTRANCE SIGN STRUCTURE (SEE DETAIL 1 THIS SHEET). STONE SHOWN ON PLANS IS FOR GRAPHICAL REPRESENTATION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE OWNERS APPROVAL BEFORE ORDERING

1 FOOT TALL ALUMINUM LETTERING IN BOLD ARIAL FONT. LETTERS SHALL BE LASER CUT FROM $\frac{3}{4}$ " ALUMINUM. ACID ETCH THE FACE AND EDGES OF ALL LETTERS, AND POWDER COAT BLACK. EACH LETTER SHALL BE DRILLED AND THREADED TO RECEIVE ANCHORS AND CLEAN HOLES OF ALL DUST AND DEBRIS PRIOR TO ATTACHING ANCHORS WITH TWO-PART INDUSTRIAL EPOXY.

PRE-CAST CONCRETE CAP

STONE VENEER SHALL MATCH ENTRANCE SIGN STRUCTURE (SEE DETAIL 4 THIS SHEET). STONE SHOWN ON PLANS IS FOR GRAPHICAL REPRESENTATION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE OWNERS APPROVAL BEFORE ORDERING

PRE-CAST CONCRETE WALL BASE, MORTAR TO CONCRETE WALL (TYP. OF BOTH SIDES OF WALL)

1 FOOT TALL ALUMINUM LETTERING IN BOLD ARIAL FONT. LETTERS SHALL BE LASER CUT FROM $\frac{3}{4}$ " ALUMINUM. ACID ETCH THE FACE AND EDGES OF ALL LETTERS, AND POWDER COAT BLACK. EACH LETTER SHALL BE DRILLED AND THREADED TO RECEIVE ANCHORS AND CLEAN HOLES OF ALL DUST AND DEBRIS PRIOR TO ATTACHING ANCHORS WITH TWO-PART





SPECIFICATIONS AND NOTES

GENERAL:

- CONTRACTOR TO INSTALL AMERICAN PRECAST CONCRETE WOODCRETE RAIL OR EQUAL.
- 2. COLOR:
- POST, PANELS AND PANEL CAPS SHALL BE INTEGRALLY COLORED.COLOR SHALL BE BROWN AS APPROVED BY THE CITY OF CORCORAN.

CONCRETE:

1. CONCRETE MATERIALS:

- 1.1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE HAVING SAND AND GRAVEL OR CRUSHED STONE AGGREGATE. MIXED WITH ASTM-C150, TYPE I OR III CEMENT TO MEET THE MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:
- PANELS & POST: 4500 PSI AT 28 DAYS
- FOOTINGS & PIERS: 3000 PSI AT 28 DAYS
- WATER USED FOR CONCRETE SHALL BE CLEAN WATER AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALITES, ORGANIC OR OTHER DELETERIOUS SUBSTANCES.

3. CONCRETE WORKMANSHIP

- 3.1. FRESH POURED CONCRETE SHALL BE TAMPED IN TO PLACE USING STEEL RAMMER, SLICING TOOLS, OR MECHANICAL VIBRATOR, UNTIL CONCRETE IS THOROUGHLY COMPACT AND WITHOUT VOID.
- 3.2. EXCAVATION FOR FOOTING SHALL BE ON UNDISTURBED SOIL OR TO THE DEPTH NOTED ON THE DRAWINGS. LEAVE THE BOTTOM BEARING SURFACE CLEAN AND SMOOTH. IF FOOTING EXCAVATIONS ARE MADE DEEPER THAN INTENDED, ONLY CONCRETE SHALL B USED FOR FILL. REMOVE ALL LOOSE MATERIAL FROM EXCAVATIONS PRIOR TO CONCRETE POUR.

REINFORCEMENTS:

- A. REINFORCING MATERIAL:
- DEFORMED TYPE BARS SHALL CONFORM TO ASTM-A 615, GRADE 60 PLACED AS
- SHOWN ON THE DRAWINGS.STEEL REINFORCING WIRE SHALL MEET U.S. STEEL WIRE GAUGE, ASTM-A 82. FY =
- 70,000 PSI MIN GALVANIZED.ALL TIES AND STIRRUPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A/
- 615, GRADE 40.
 ALL WIRE MESH SHALL BE 9 GAUGE GALVANIZED HAVING 3 HORIZONTAL BARS AND 4 VERTICAL ON 16 INCH CENTERS.

B. REINFORCING WORKMANSHIP:

- REINFORCEMENT STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE CRSI STANDARD DETAIL. REINFORCING BARS SHALL BE COLD-BENT ONLY. USE OF HEAT TO BEND REINFORCEMENT STEEL SHALL BE CAUSE FOR REJECTION.
- REINFORCEMENT STEEL BARS AND WIRE FABRIC SHALL BE THOROUGHLY
 CLEANED BEFORE PLACING AND AGAIN BEFORE THE CONCRETE IS PLACED.
 SHALL BE ACCURATELY POSITIONED AND SECURED IN PLACE. NO BRICK OF
 POROUS MATERIALS MAY BE USED TO SUPPORT THE STEEL OFF THE GROUND.
- C. INSTALL ALL REINFORCEMENT WITH THE FOLLOWING CLEARANCE BETWEEN REINFORCING STEEL AND FACE OF CONCRETE:
- a. FOOTING, PIER OR BEAM BOTTOM (3")
- b. EARTH-FORMED PIER OR BEAM SIDE (2")c. FORMED FOOTING, PIER OR BEAM SIDES, EXPOSED (1")
- d. PRECAST EXPOSED TO WEATHER: PANELS (3/4"), POSTS (1-1/4")
- C. SPLICES WITHIN CONTINUOUS UNSCHEDULED REINFORCING STEEL SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS



ELEVATION - 4 RAIL FENCE NOT TO SCALE



ELEVATION - 3 RAIL FENCE NOT TO SCALE



ELEVATION - 2 RAIL FENCE NOT TO SCALE





SECTION - 3 RAIL FENCE NOT TO SCALE















NOTES

- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BY SIGN MANUFACTURER FOR DESIGN APPROVAL. CONTRACTOR SHALL UTILIZE SOUTHPAW SIGN CO. (805-474-5700) OR A-PLUS SIGNS (559-275-0700), OR APPROVED EQUAL MANUFACTURER.
- 2. LETTER FRAMES SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH A BRUSHED SWIRL TEXTURE FINISH AND BE ABLE TO WITHSTAND VANDALISM AND ABUSE. 3. EACH LETTER SHALL BE INTERNALLY LIT USING LED LIGHT SHEETS WITH THE LED LIGHT EMITTED
- THROUGH A $\frac{1}{2}$ " THICK WHITE POLYCARBONATE LENS. 4. EACH LETTER SHALL HAVE THE ABILITY TO CHANGE COLOR INDIVIDUALLY.
- 5. ALL AGGREGATE BASE UTILIZED IN THE CONSTRUCTION OF THE SIGN FOUNDATION SHALL BE COMPOSED OF RECYCLED CRUSHED CONCRETE.





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DETAIL 1 N.T.S.

SEAT WALL DETAIL NOTES

- 1. WALL CAP SHALL BE CAST-IN-PLACE AND HAVE A RUNNING SLOPE OF 1.0% FACING TOWARDS THE CENTER OF THE MEMORIAL. CAP EDGES SHALL HAVE A 1" RADIUS.
- "SKATE STOPPERS" SKATE DETERRENTS (MODEL # FR 1.0) SHALL BE ATTACHED TO WALL CAP ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND SPACING.
- ATTACH SOUTHERN LEDGESTONE ECHO RIDGE VENEER BY CULTURED STONE (OR APPROVED EQUAL). VENEER SHALL COVER THE FACE OF WALL FROM SEAT WALL CAP TO THE ADJACENT GROUND SURFACE. SEE DETAIL 4 SHEET CD-11.01.
- 4. 6" X 8" X 16" CMU BLOCK, GROUT SPACE BETWEEN CMU BLOCKS. 5. INSTALL #4 VERTICAL REBAR AT 16" O.C. AT CENTERLINE OF EACH STEM.
- 6. INSTALL #4 HORIZONTAL REBAR AT 16" O.C. EACH STEM AND GROUT AS SHOWN.
- 7. ADJACENT GRASSY FINISH GRADE.
- 8. GROUT SPACE BETWEEN CMU BLOCKS TO THE ADJACENT SURFACE LEVEL.
- 9. 12" X 36" CONCRETE FOOTING ALONG THE LENGTH OF THE SEAT WALL. 10. CLASS II RECYCLED CRUSHED CONCRETE AGGREGATE BASE, COMPACTED TO 95% RELATIVE COMPACTION.
- 11. LONGITUDINAL #4 REBAR.
- 12. TRANSVERSE #4 REBAR, 16" O.C. 13. 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION.





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FEET

SPECIFICATIONS AND NOTES

<u>GENERAL:</u>

- 1. CONTRACTOR TO INSTALL URBAN SOLAR RMS-100 SOLAR LIGHT SYSTEM, OR APPROVED EQUAL.
- 2. SOLAR LIGHT FIXTURE SHALL BE LOW PROFILE, WITH SOLAR ARRAY FLUSH
- MOUNTED DIRECTLY ONTO THE BATTERY ENCLOSURE. 3. EACH COMPLETE PHOTOVOLTAIC LED LIGHTING SYSTEM SHALL BE
- CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- 4. BATTERY BACK-UP SHALL BE FOR A MINIMUM OF FIVE (5) DAYS. 5. SOLAR CONTROLLER SHALL BE A SMART CONTROLLER AND POSSESS A
- SELF-TEST FEATURE
- HARDWARE AND DESIGNED TO WITHSTAND ABUSE. 7. SECURITY FASTENERS SHALL BE USED FOR ANY EXPOSED POINTS.
- 8. SOLAR UNITS AND COMPONENTS MUST BE OF MODULAR DESIGN TO ALLOW FOR INDEPENDENT REPLACEMENT OF SOLAR PANEL, LUMINAIRE, BATTERIES, AND LIGHTING CONTROL MODULE.
- 9. BATTERIES SHALL HAVE A MINIMUM OF FIVE (5) YEAR PRORATED WARRANTY AND MUST BE CAPABLE OF PROVIDING A MINIMUM OF FIVE (5) YEARS OF TROUBLE-FREE CHARGING AND DISCHARGING.
- 10. ALL SYSTEM COMPONENTS OTHER THAN BATTERIES SHALL HAVE A MINIMUM OF TEN (10) YEAR WARRANTY, INCLUDING LEDS, CONTROLLERS, WIRING, METAL WORK, FINISHES, AND ASSOCIATED HARDWARE.
- 11. SOLAR PANELS SHALL HAVE A MINIMUM TWENTY-FIVE (25) YEAR WARRANTY.





- 1. LED TECHNOLOGY SHALL BE RATED FOR A MINIMUM OF 100,000 HOURS OF
- OPERATION. 2. MUST BE FIELD SERVICEABLE WITH MINIMAL TIME AND EFFORT.
- 3. LED LUMINAIRE SHALL HAVE A 33W MINIMUM RATED OUTPUT AND A CCT OF
- 4000 KELVIN AND USE A TYPE III IES LIGHT DISTRIBUTION. 4. LUMINAIRES ADJACENT TO HOMES ON WESTERN PART OF THE PARK MUST INCLUDE HOUSE SIDE SHIELDS TO ELIMINATE BACKLIGHTING, AS

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RECOMMENDED BY MANUFACTURER. 6. SOLAR LIGHT FIXTURE SHALL BE DESIGNED TO INCLUDE VANDAL RESISTANT 5. OPERATING PROFILE SHALL BE FROM DUSK TO 11PM THROUGHOUT THE YEAR, OR AS SPECIFIED IN THE SPECIFICATIONS, AND MUST ACCOUNT FOR 5. BATTERIES SHALL BE INDUSTRY APPROVED RECHARGEABLE, DAYLIGHT SAVINGS.

NOTES:

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- 1. SOLAR ARRAY
- 2. BATTERY BANK 3. USC ECM
- 4. CHASSIS 10 GA ALUMINUM
- 5. ADJUSTABLE TOP OF POLE MOUNT WITH TILT ADJUSTMENT IN 10° INCREMENTS STEEL WITH POWDER COAT FINISH
- 6. HIGH EFFICIENTLY LED LUMINAIRE ON 2' MAST ARM TYPICALLY MOUNTED 2' FROM TOP OF POLE EPA ~ 0.5FT^2
- 7. 5" X 20' POLE MAY BE OBTAINED FROM SAME MANUFACTURER OR SOURCED SEPARATELY 8. REMOTE SYSTEM CONTROL AND MONITORING WHEN EQUIPPED WITH OPTIONAL ECM CONNECT
- 9. EPA WHEN PANEL AT 45°: 7FT^2
- 10. CONTRACTOR TO CONTACT URBAN SOLAR, OR APPROVED EQUAL, FOR ASSISTANCE WITH LIGHTING DESIGN AND OPERATING PROFILE PER THE PROJECT SPECIFICATIONS



SOLAR PANEL, BATTERY, AND AUTONOMY:

- 1. POWER RATING OF SOLAR PANEL SHALL BE 100W MINIMUM. 2. MUST BE FIELD SERVICEABLE WITH MINIMAL TIME AND EFFORT.
- 3. SOLAR PANEL MUST BE ORIENTED DUE SOUTH AND TILTED FROM HORIZONTAL AT AN ANGLE OF 45 DEGREES TO ENSURE MAXIMUM SUN EXPOSURE.
- 4. BATTERIES SHALL HAVE A MINIMUM FIVE (5) DAYS OF AUTONOMY OR BATTERY RESERVE, AND SOLAR UNIT MUST BE CAPABLE OF MEETING OPERATING PROFILE FOR A MINIMUM OF FIVE NIGHTS WITH NO CHARGE FROM THE PANEL OR ANY EXTERNAL SOURCE.
- NON-SPILLABLE, SEALED, ABSORBED GLASS MAT.
- 6. BATTERIES MUST HAVE APPROPRIATE TEMPERATURE RATINGS FOR LOCAL ENVIRONMENTAL CONDITIONS.
- 7. BATTERIES: DURACELL DURA12-18, QUANTITY OF 6 PER SYSTEM 8. MINIMUM BATTERY CAPACITY 108 Ah.
- 9. BATTERY ENCLOSURE SHALL BE POWDER COATED TO MATCH POLE COLOR.

SOLAR CONTROLLER:

- 1. THE CONTROLLER FOR ALL SOLAR LIGHTING SYSTEMS SHALL BE A SINGLE 1. POLES SHALL BE ENGINEERED FOR LOCAL WIND CONDITIONS, CONSIDERING SOLUTION AND BE CIRCUIT BOARD BASED AND CONTAIN A REAL TIME CLOCK FOR ACCURACY, AND MUST AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS.
- 2. EACH CONTROLLER SHOULD HAVE AN INTEGRAL LOW VOLTAGE DISCONNECT AND BE ABLE TO OPERATE THE LED LUMINAIRES AS SPECIFIED.
- 3. CONTROLLERS WHICH RELY ON SOLAR MODULE VOLTAGES OR PHOTOCELL TO TRANSITION BETWEEN "ON" AND "OFF" SHALL NOT BE USED.
- 4. FUNCTIONALITY MUST INCLUDE A SELF-TEST FEATURE WHICH EASILY DEMONSTRATES LED OPERATION AND BATTERY STATE OF HEALTH. THE SELF-TEST MUST BE ABLE TO BE PERFORMED BY CITY STAFF DURING THE DAY, WITHOUT THE USE OF ANY SPECIALTY TOOLS.
- 5. THE CONTROLLER SHALL BE ONE COMPLETE UNIT; INCLUDING A REGULATOR, LED DRIVER WITH A REAL TIME CLOCK AND SELF-TEST FEATURE.







POLE:

THE EPA OF SOLAR LIGHTING SYSTEM AND LUMINAIRE. 2. POLES SHALL BE A MINIMUM OF 20 FEET IN LENGTH, AND THE LUMINAIRE SHALL BE MOUNTED AT A MINIMUM OF 18 FEET ABOVE GRADE. POLES SHALL BE OF STEEL CONSTRUCTION, AND SHALL BE ACCOMPANIED WITH A "BUY AMERICA" CERTIFICATE OF COMPLIANCE. 4. ALL MOUNTING HARDWARE, BOLT PATTERN, ANCHOR BOLTS, AND BASE COVER SHALL BE INCLUDED AND SHALL MATCH COLOR OF POLE. 5. POLE SHALL BE POWDER COATED BLACK.









DETAIL 1 - EMBEDDED SOLAR LIGHT CONCRETE FOOTING N.T.S.



8.0' MIN.

URBAN SOLAR RMS-100 SOLAR – ARRAY WITH INBUILT BATTERY BANK AND SOLAR CONTROLLER (OR APPROVED EQUAL) HIGH EFFICIENCY LED LUMINAIRE — ON 2 FT MAST ARM MOUNTED AT 2 FT FROM TOP OF POLE 20.0' 5" ROUND STRAIGHT STEEL POLE -----ANCHOR PER MANUFACTURER -RECOMMENDATOINS FINISHED GRADE, SEE SHEET PL-1.01 -FOR LANDSCAPING DETAILS CONSTRUCT 2-FT HIGH CURB PER -DETAIL 6, SEE SHEET CD-9.02 ADJACENT PARKING LOT PAVEMENT

FOOTINGS SHOWN FOR GENERAL INFORMATION. CONTRACTOR TO OBTAIN BUILDING PERMIT FOR RMS-100 SOLAR LIGHT POLE.

ALL SOLAR LIGHT POLE CONCRETE FOUNDATIONS SHALL HAVE A MINIMUM 1FT DEEP RECYCLED CRUSHED CONCRETE AGGREGATE BASE, COMPACTED TO 95% RELATIVE COMPACTION

DETAIL 2 - SOLAR LIGHT CONCRETE FOOTING IN LANDSCAPING AREA

N.T.S.







40' 113

INSTALL PARK RULES SIGN PER DETAILS 3 AND 11, SEE SHEET CD-15.02

INSTALL SAFETY WARNING SIGN PER DETAILS 3 AND 8, SEE SHEET CD-15.02

INSTALL PROP 68 ACKNOWLEDGEMENT SIGN PER DETAILS 1 AND 5, SEE SHEET CD-15.02

 INSTALL PICNIC PAVILION AND GRILL AREA RULES SIGN PER DETAILS 3 AND 9, SEE SHEET CD-15.02 INSTALL PARK RULES SIGN PER DETAILS 1 AND 11, SEE SHEET CD-15.02

- INSTALL PARK ENTRANCE SIGN PER DETAILS 1 AND 4, SEE SHEET CD-15.02

— INSTALL PARK RULES SIGN PER DETAILS 3 AND 11, SEE SHEET CD-15.02

INSTALL SPLASH PAD SAFETY
 WARNING SIGNS PER DETAILS
 3 AND 6, SEE SHEET CD-15.02

- INSTALL PARK RULES SIGN PER DETAILS 3 AND 11, SEE SHEET CD-15.02

INSTALL SPORTS FIELD RULES SIGN PER DETAILS 3 AND 10, SEE SHEET CD-15.02

INSTALL PARK RULES SIGN PER DETAILS 3 AND 11, SEE SHEET CD-15.02

 INSTALL PUMP TRACK SAFETY WARNING SIGN PER DETAILS 2 AND 12, SEE SHEET CD-15.02 INSTALL SAFETY WARNING SIGN PER DETAILS 3 AND 8, SEE SHEET CD-15.02

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N.T.S.

NOTES

- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF ANY PARK SIGNAGE.
- 2. FINAL SIGN TEXT SHALL BE APPROVED BY THE CITY PRIOR TO FABRICATION. SIGNS SHALL HAVE A RETROFLECTIVE WHITE BACKGROUND WITH A ¹/₂" BLACK BORDER.
- 3. CITY SHALL PROVIDE GRAPHICS OF ALL LOGOS THAT ARE TO APPEAR IN THE SIGNS.



TREE	LEGEND			
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY
Solution of the second se	ULMUS PROPINQUA	EMERALD SUNSHINE ELM	15 GAL.	56
\bigcirc	QUERCUS WISLIZENI	INTERIOR LIVE OAK	15 GAL	5
$\overline{\mathbf{\cdot}}$	PISTACIA CHINESIS	CHINESE PISTACHE	15 GAL.	113
	QUERCUS LOBATA	VALLEY OAK	15 GAL	15
\odot	LAGERSTROEMIA INDICA 'CRAPE MYRTLE'	CAROLINA BEAUTY CRAPE MYRTLE	15 GAL	53
NOTE:				

SEE SHEET PL-2.01 FOR TREE PLANTING DETAILS

PLANTING NOTES

- 1. PLANT QUANTITIES ARE FOR INFORMATION ONLY. IN CASE OF ANY DISCREPANCY,
- THE PLAN SHALL GOVERN. 2. CONTRACTOR TO COORDINATE TREE AND PLANT INSTALLATION WITH THE
- CALIFORNIA ASSOCIATION OF LOCAL CONSERVATION CORPS (CALCC).
- 3. ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES, AND SHALL COMPLY WITH ANSI Z60.1 "STANDARD FOR NURSERY STOCK".
- 4. IMMEDIATELY UPON BID AWARD, CONTRACTOR SHALL SECURE PLANT MATERIALS AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTION FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY OR AUTHORIZED REPRESENTATIVE.
- 5. TREE OR PLANT LOCATION MAY BE ADJUSTED IN THE FIELD TO SUIT SITE REQUIREMENTS AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. 6. THE AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO MAKE
- SUBSTITUTIONS, ADDITIONS AND DELETION TO THE PLANTING LAYOUT AS WORK PROGRESSES. 7. CONTRACTOR SHALL PROVIDE CONCRETE MOW STRIP/CURB PER PLANS AND
- SPECIFICATIONS BETWEEN ALL TURF AND STABILIZED DECOMPOSED GRANITE AREAS UNLESS OTHERWISE NOTED.
- 8. CONDITIONS PERMITTING THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWO HOURS SHALL BE CORRECTED. 9. TREE ROOT BARRIER TO BE INSTALLED ADJACENT TO HARDSCAPE FOR TREES
- PLANTED WITHIN 10 FEET OF HARDSCAPE 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS PROTECTION OF ALL PLANT MATERIALS ON-SITE UNTIL TURNOVER.
- 11. THE PLACEMENT OF ALL TREES, SHRUBS, GROUNDCOVERS AND VINES SHALL BE REVIEWED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO PLANTING. ANY TREE OR SHRUB THAT IS PLANTED WITHOUT PRIOR REVIEW IS SUBJECT TO REMOVAL AND RELOCATION IF DEEMED NECESSARY. ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY'S AUTHORIZED REPRESENTATIVE.
- 12. ALL VINES SHALL BE PLANTED ADJACENT TO THE BLOCK WALL WITH THE NURSERY STAKE LEANING AGAINST THE BLOCK WALL. NURSERY STAKE TO BE REMOVED ONCE VINE HAS ATTACHED TO THE WALL.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT PLANT HEIGHTS ABOVE GRADE.
- 14. ALL SPECIMEN TREES ARE TO BE PRUNED AFTER PLANTING BY LANDSCAPE CONTRACTOR.
- CONTRACTOR SHALL LOCATE ALL STORM DRAIN, WATER LINES AND UTILITY LINES IN FIELD PRIOR TO THE INSTALLATION OF TREES. CONTRACTOR SHALL NOTIFY CITY'S AUTHORIZED REPRESENTATIVE OF ANY CONFLICT WITH TREE LOCATIONS AND STORM DRAIN/UTILITY LINES/WATER LINES. ADJUSTMENTS WILL BE MADE ACCORDINGLY.





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MATCH LINE, SEE SHEET PL-1.03







(MBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	CALAMAGROSTIS X ACUTIFLORA CVS. E.G. 'KARL FOERSTER'	FEATHER REED GRASS	1 GAL	29
	MUHLENBERGIA X 'PINK FLAMINGO'	PINK FLAMINGO MUHLY	2 GAL	62
	MISCANTHUS SINENSIS 'ADAGIO'	ADAGIO MAIDEN GRASS	5 GAL.	11
	PENNISETUM ALOPECUROIDES 'KARLAY ROSE'	FOUNTAIN GRASS	3 GAL	50
£ ;; ;;	IRIS DOUGLASINA	DOUGLAS IRIS	1 GAL	48
	PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	5 GAL	70

BOULDER LEGEND



PLANTING NOTES

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- 2. CONTRACTOR TO COORDINATE TREE AND PLANT INSTALLATION WITH THE CALIFORNIA ASSOCIATION OF LOCAL CONSERVATION CORPS (CALCC
- 3. ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES, AND SHALL COMPLY WITH ANSI Z60.1 "STANDARD FOR NURSERY STOCK".
- 4. IMMEDIATELY UPON BID AWARD, CONTRACTOR SHALL SECURE PLANT MATERIALS AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTION FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY OR AUTHORIZED REPRESENTATIVE.
- 5. TREE OR PLANT LOCATION MAY BE ADJUSTED IN THE FIELD TO SUIT SITE REQUIREMENTS AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. 6. THE AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS AND DELETION TO THE PLANTING LAYOUT AS WORK
- PROGRESSES. 7. CONTRACTOR SHALL PROVIDE CONCRETE MOW STRIP/CURB PER PLANS AND SPECIFICATIONS BETWEEN ALL TURF AND STABILIZED DECOMPOSED GRANITE AREAS UNLESS OTHERWISE NOTED.
- 8. CONDITIONS PERMITTING THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWO HOURS SHALL BE CORRECTED.
- 9. TREE ROOT BARRIER TO BE INSTALLED ADJACENT TO HARDSCAPE FOR TREES PLANTED WITHIN 10 FEET OF HARDSCAPE 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS PROTECTION OF ALL
- PLANT MATERIALS ON-SITE UNTIL TURNOVER. 11. THE PLACEMENT OF ALL TREES, SHRUBS, GROUNDCOVERS AND VINES SHALL BE REVIEWED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO PLANTING. ANY TREE OR SHRUB THAT IS PLANTED WITHOUT PRIOR REVIEW IS SUBJECT TO
- REMOVAL AND RELOCATION IF DEEMED NECESSARY. ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY'S AUTHORIZED REPRESENTATIVE. 12. ALL VINES SHALL BE PLANTED ADJACENT TO THE BLOCK WALL WITH THE NURSERY
- STAKE LEANING AGAINST THE BLOCK WALL. NURSERY STAKE TO BE REMOVED ONCE VINE HAS ATTACHED TO THE WALL.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT PLANT HEIGHTS ABOVE GRADE. 14. ALL SPECIMEN TREES ARE TO BE PRUNED AFTER PLANTING BY LANDSCAPE
- CONTRACTOR. 15. CONTRACTOR SHALL LOCATE ALL STORM DRAIN, WATER LINES AND UTILITY LINES IN FIELD PRIOR TO THE INSTALLATION OF TREES. CONTRACTOR SHALL NOTIFY CITY'S AUTHORIZED REPRESENTATIVE OF ANY CONFLICT WITH TREE LOCATIONS AND STORM DRAIN/UTILITY LINES/WATER LINES. ADJUSTMENTS WILL BE MADE ACCORDINGLY.





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GROUND COVER LEGEND							
SYMBOL	BOTANICAL NAME	COMMON NAME	TYPE	QTY			
	CYNDON DACTYLON 'TIFWAY 419'	TIFWAY 419 BERMUDA GRASS (OR APPROVED EQUAL)	SOD	200,280 SF			
	-	SOUTHWEST BOULDER & STONE STABILIZED DECOMPOSED GRANITE IN "CALIFORNIA GOLD" (OR APPROVED EQUAL)	-	47,680 SF			
	-	6" AND 12" MOW STRIP/CURB	-	820 LF			
NOTES:							
1. TIFWAY 419 B RECOMMENDAT	ERMUDA GRASS SOD TO BE INSTALLI TONS AND SPECIFICATIONS.	ED PER DETAIL 10 ON SHEET PL-2.01 AN	ID PER MANUF	ACTURER'S			
				2			

IMPOSED GRANITE TO BE INSTALLED PER DETAIL 9 ON SHEET PL-2.01 AND PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR TO SUBMIT COLOR SAMPLE TO THE CITY OF CORCORAN FOR APPROVAL PRIOR TO PURCHASE

3. MOW STRIP/CURB TO BE CONSTRUCTED PER DETAIL 8 ON SHEET PL-2.01

PLANTING NOTES

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- PROGRESSES. 7. CONTRACTOR SHALL PROVIDE CONCRETE MOW STRIP/CURB PER PLANS AND SPECIFICATIONS BETWEEN ALL TURF AND STABILIZED DECOMPOSED GRANITE AREAS UNLESS OTHERWISE NOTED.
- 8. CONDITIONS PERMITTING THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWO HOURS SHALL BE CORRECTED. 9. TREE ROOT BARRIER TO BE INSTALLED ADJACENT TO HARDSCAPE FOR TREES
- PLANTED WITHIN 10 FEET OF HARDSCAPE 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS PROTECTION OF ALL PLANT MATERIALS ON-SITE UNTIL TURNOVER.
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- 14. ALL SPECIMEN TREES ARE TO BE PRUNED AFTER PLANTING BY LANDSCAPE CONTRACTOR.
- 15. CONTRACTOR SHALL LOCATE ALL STORM DRAIN, WATER LINES AND UTILITY LINES IN FIELD PRIOR TO THE INSTALLATION OF TREES. CONTRACTOR SHALL NOTIFY CITY'S AUTHORIZED REPRESENTATIVE OF ANY CONFLICT WITH TREE LOCATIONS AND STORM DRAIN/UTILITY LINES/WATER LINES. ADJUSTMENTS WILL BE MADE ACCORDINGLY.





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LEGEND SEE SHEET PL-1.07 FOR GROUNDCOVER LEGEND

 KEYNOTE LEGEND

 1
 CONSTRUCT 6" MOW STRIP/CURB PER DETAIL 8 ON SHEET PL-2.01

 2
 CONSTRUCT 12" MOW STRIP/CURB PER DETAIL 8 ON SHEET PL-2.01

2

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SEE BIO-BASIN DETAILS ON SHEET CD-2.03

MATCH LINE, SEE SHEET PL-1.09







- (1) TREE ROOTBALL
- 2) DIG BERM TWO TIMES THE DIAMETER AND ONE TIMES THE DEPTH OF THE ROOTBALL. SCARIFY SIDES OF BERM.
- 3 PLACE ROOTBALL IN THE BERM SO THAT THE ROOTBALL IS FLUSH WITH FINISHED GRADE.
- 4 PLACE BACKFILL MATERIAL PER SPECIFICATIONS, TAMPING AND SETTLING AROUND ROOTBALL
- 5) DECOMPOSED GRANITE AT ROOTBALL SHALL BE 1" DEEP AND WITHOUT STABILIZER.
-) INSTALL TREE TIES 4 PER TREE
- 2" X10' LODGEPOLE PINE STAKE-2 PER TREE- INSTALLED OUTSIDE OF THE TREE ROOTBALL AND BELOW CROWN OF TREE. LOCATE STAKES PARALLEL TO THE DIRECTION OF THE PREVAILING WIND AND DRIVE FIRMLY INTO THE SUBGRADE A MINIMUM OF 3'.
- 8 4" DECOMPOSED GRANITE, SEE DETAIL 9 THIS SHEET
- (9) FINISHED GRADE OF DECOMPOSED GRANITE PER GRADING PLAN

DETAIL 1 - TREE PLANTING IN DECOMPOSED GRANITE

N.T.S.





DETAIL 5 - TREE ROOT BARRIER

N.T.S.







N.T.S.

KEYNOTE LEGEND

(1) TREE PLANTING PER DETAIL 1 ON SHEET PL-2.01.

- (2) CUT SLOPE FACE AS NEEDED TO CREATE BERM.
- (3) CREATE 4" IRRIGATION BASIN AT THE EDGE OF THE BERM
- 4" LAYER OF DECOMPOSED GRANITE, MAINTAIN 6" CLEAR FROM TREE TRUNK. LIGHTLY TAMPED IMMEDIATELY OVER ROOTBALL OF TREE. DO NOT APPLY STABILIZER IN AREA OF BACKFILL.



	KEYNOTE LEGEND
(1)	TREE ROOTBALL
2	DIG BERM TWO TIMES THI AND ONE TIMES THE DEP ROOTBALL. SCARIFY SIDE
3	PLACE ROOTBALL IN THE THAT THE ROOTBALL IS F FINISHED GRADE.
4	PLACE BACKFILL MATERIA SPECIFICATIONS, TAMPIN SETTLING AROUND ROOT
5	STAKE BELOW CROWN OF
6	INSTALL TREE TIES - 4 PE
7	2" X10' LODGEPOLE PINE S TREE- INSTALLED OUTSID TREE ROOTBALL, LOCATE PARALLEL TO THE DIRECT PREVAILING WIND AND DF INTO THE SUBGRADE A M
8	3" LAYER OF BACKFILL SC SPECIFICATIONS.
9	FINISHED GRADE PER GR

DETAIL 2 - TREE PLANTING IN SLOPED DECOMPOSED

GRANITE N.T.S.

DETAIL 3 - TREE PLANTING IN TURF AREA N.T.S.



1 PLANT SPECIES PER PLANTING PLAN ON SHEET PL-1.04

2 CUT SLOPE FACE AS NEEDED TO CREATE

3 CREATE 4" IRRIGATION BASIN AT THE

4 4" LAYER OF STABILIZED DECOMPOSED GRANITE. MAINTAIN 3" CLEAR FROM PLANT ROOTBALL. DO NOT APPLY STABILIZER IN AREA OF ROOTBALL.

DETAIL 6 - PLANT PLANTING ON SLOPE

N.T.S.





(4) EXISTING SOIL

- 5 4" LAYER OF STABILIZED DECOMPOSED GRANITE. MAINTAIN 3" CLEAR FROM PLANT ROOTBALL. DO NOT APPLY STABILIZER IN AREA OF ROOTBALL.
- 6 4" HIGH BY 8" WIDE ROUND TOPPED SOIL BERM ABOVE ROOTBALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOTBALL.
- (7) FINISHED GRADE
- 8 PLACE BACKFILL SOIL PER SPECIFICATIONS

DETAIL 7 - PLANT PLANTING

N.T.S.









CONTRACTOR NOTES

- 1. CONTRACTOR SHALL COORDINATE WITH PG&E FOR ELECTRICITY LINE UNDERGROUNDING AND POWER POLE RELOCATION.
- 2. CONTRACTOR SHALL COORDINATE WITH COMCAST FOR INTERNET SERVICE INSTALLATION.

- CONSTRUCT 65 LF 4" PVC POTABLE WATER LINE PER CITY STD. DETAILS ST-2 & W-6A, SEE SHEET DS-1.03 FOR DETAILS.
- CONSTRUCT 48" STORM DRAIN MANHOLE PER STD. DETAIL D-1, SEE SHEET DS-1.01 FOR DETAILS.
- CONSTRUCT 313 LF OF 2" PVC POTABLE WATER LINE PER CITY STD AND STUB AT END. DETAILS ST-2 & W-6, SEE SHEETS DS-1.02 AND DS-1.03 FOR DETAILS. INSTALL 4" PRESSURE REDUCING BACKFLOW DEVICE & PROTECTIVE CAGE PER CITY STD. DETAILS W-10 & W-11, SEE SHEET DS-1.03 FOR DETAILS.
- CONSTRUCT 18" REINFORCED CONCRETE STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-2.01 AND DS-1.03 FOR DETAILS.
- CONSTRUCT SEWER CLEAN-OUT PER CITY STD. DETAIL SS-5, SEE SHEETS CD-10.01 AND DS-1.01 FOR DETAILS.
- CONSTRUCT 4" SEWER PIPE PER CITY STD AND STUB AT END. DETAIL SS-6, SEE SHEETS CD-10.01 AND DS-1.01 FOR DETAILS.
- CONSTRUCT SEWER PUMP STATION, SEE SHEET CD-10.03 FOR DETAILS.
- CONSTRUCT SEWER PUMP STATION, SEE SHEET CD-10.02 FOR DETAILS.
- CONSTRUCT 1.25" SCH. 80 PVC SEWER FORCE MAIN, SEE SHEET CD-10.01 FOR DETAILS.
- CONSTRUCT 2" SCH. 80 PVC SEWER FORCE MAIN, SEE SHEET CD-10.01 FOR DETAILS.
- CONNECT 2" SCH. 80 PVC SEWER FORCE MAIN INTO EXISTING SEWER MANHOLE, SEE SHEET CD-10.01 FOR DETAILS.
- CONSTRUCT CITY STD. DETAIL SD-3 DRAINAGE INLET, SEE SHEETS CD-2.04 AND DS-1.01 FOR DETAILS.
- CONSTRUCT 18" PVC STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-2.01 AND DS-1.03 FOR DETAILS.
- CONSTRUCT 6" SDR 35 PVC STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-4.01 AND DS-1.03 FOR DETAILS.
- CONSTRUCT 34" STORM DRAIN FLAT GRATE INLET PER CITY STD. DETAIL SD-4, SEE SHEETS DS-1.03 AND DS-1.01 FOR DETAILS.
- CONSTRUCT 72" STORM DRAIN MANHOLE PER STD. DETAIL D-3, SEE SHEET DS-1.01.
- CONSTRUCT STORM WATER PUMP STATION, SEE SHEET CD-2.06 FOR DETAILS.
- CONSTRUCT STORM WATER CONNECTION, SEE SHEET CD-2.02 FOR DETAILS.
- CONSTRUCT 9" STORM DRAIN FLAT GRATE INLET, SEE SHEET CD-4.01 FOR DETAILS.
- CONSTRUCT 6" STORM DRAIN FLAT GRATE INLET, SEE SHEET CD-4.01 FOR DETAILS.
- CONSTRUCT 6" SCH. 80 PVC STORM DRAIN FORCE MAIN, SEE SHEET CD-2.01 FOR DETAILS.
- CONSTRUCT 4" SDR 35 PVC STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-4.01 AND DS-1.03 FOR DETAILS.
- CONSTRUCT 8" PVC STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-4.01 AND DS-1.03 FOR DETAILS.
- CONSTRUCT 12" PVC STORM DRAIN PIPE PER CITY STD. DETAIL ST-2 TRENCH DETAIL, SEE SHEETS CD-2.01 AND DS-1.03 FOR DETAILS.
- INSTALL 2" PRESSURE REDUCING BACKFLOW DEVICE & PROTECTIVE CAGE PER CITY STD. DETAILS W-10 & W-11, SEE SHEET DS-1.03 FOR DETAILS.
- CONSTRUCT 65 LF 2.5" PVC CLASS 160 SDR 26 POTABLE WATER LINE PER CITY STD. DETAILS ST-2 & W-6A, SEE SHEET DS-1.03 FOR DETAILS.









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ABBREVIATIONS & TERMINOLOGY

PF - PLANT FACTOR, OBTAINED FROM WUCOLS HA - HYDROZONE AREA IN SQUARE FEET (SF) SLA - SPECIAL LANDSCAPE AREA IN SQUARE FEET (SF) IE - IRRIGATION EFFICIENCY (MINIMUM OF 0.71) ETWU - ESTIMATED TOTAL WATER USE IN GALLONS PER YEAR (GAL/YR) ET₀ - REFERENCE EVAPOTRANSPIRATION IN INCHES PER YEAR (IN/YR)

MAWA - MAXIMUM APPLIED WATER ALLOWANCE IN GALLONS PER YEAR (GAL/YR) LA - LANDSCAPE AREA IN SQUARE FEET (SF)

WATER USE CALCULATIONS									
HYDROZONE	ZONE DESCRIPTION	PLANT FACTOR, PF	IRRIGATION METHOD	HYDROZONE AREA, HA (SQUARE FEET)	SPECIAL LANDSACPE AREA, SLA (SQUARE FEET)	% OF LANDSCAPE AREA	PF x HA	IRRIGATION EFFICIENCY, IE	ESTIMATED TOTAL WATER USE, ETWU (GAL/YR)
1	ROTOR IRRIGATION WITH HIGH WATER USE TURF (SLA)	0.8	ROTOR	0	155,993	0%	0	0.75	5,522,464
2	SPRAY IRRIGATION WITH HIGH WATER USE TURF (SLA)	0.8	SPRAY	0	44,287	0%	0	0.75	1,567,848
3	DRIP IRRIGATION WITH LOW WATER USE PLANTS AND/OR SHRUBS	0.2	DRIP	9,883	0	43%	1976.6	0.85	82,324
4	BUBBLER IRRIGATION WITH LOW WATER USE TREES	0.2	BUBBLER	10,500	0	45%	2100.0	0.80	92,930
5	WATER FEATURE: SPLASH PAD	1.0	OTHER	2,827	0	12%	2,827.0	0.71	140,960
			τοται	23.210	200.280				7.406.527

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMPLIANCE

MAWA = (ETo) (0.62) [(0.7 x LA) + (0.3 x SLA)]

MAWA =	7,665,489	GAL/YEAR			
ETWU =	7,406,527	GAL/YEAR			

ESTIMATED TOTAL WATER USE (ETWU) DOES NOT EXCEED MAXIMUM APPLIED WATER ALLOWANCE (MAWA), ETWU COMPLIANT

IRRIGATION NOTES

- 1. CONTRACTOR SHALL SLEEVE ALL LATERAL AND MAINLINE PIPE CROSSING UNDER HARDSCAPE. CONTRACTOR TO EXTEND SLEEVES 18" FROM THE EDGE OF HARDSCAPE. SLEEVES SHALL BE EASILY LOCATED BY AN IDENTIFYING MARK.
- 2. IRRIGATION PLAN IS DIAGRAMMATIC. CONTRACTOR TO DETERMINE FINAL LOCATION OF PIPING AT THE TIME OF INSTALLATION. WHEN POSSIBLE, PLACE MAINLINE AND LATERALS IN THE SAME TRENCH. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT AND CONCRETE SURFACES
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN, ALL EQUIPMENT REQUIRED TO INSTALL THE IRRIGATION SYSTEM, BUT NOT SPECIFIED SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR TO INSTALL ALL EQUIPMENT IN ACCORDANCI WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- 9. CONTRACTOR SHALL COORDINATE POWER TO THE CONTROLLER AND DEDICATE ONE BREAKER FOR THE CONTROLLER. THE CITY'S AUTHORIZED REPRESENTATIVE SHALL REVIEW THE CONTROLLER LOCATION PRIOR TO INSTALLATION. REFER TO THE ELECTRICAL PLANS FOR VOLTAGE AND AMPERAGE REQUIRED FOR THE CONTROLLER. SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- 10. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OR AUTHORIZED REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- 11. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRAD DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER OR AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE CITY OF CORCORAN.
- 12. CONTRACTOR SHALL ADJUST HEADS AS NEEDED TO MINIMIZE OVERSPRAY ONTO HARDSCAPE AREAS.
- 13. CONTRACTOR TO PROVIDE PVC SHUTOFF VALVE FOR EACH VALVE. 14. ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
- 15. CONTRACTOR TO ATTACH IDENTIFYING TAGS ON ALL IRRIGATION VALVES WITH CORRESPONDING VALVE NUMBERS SHOWN ON THE PLANS.

HYDROZONE NUMBER LEGEND

- 1. ROTOR IRRIGATION WITH HIGH WATER USE TURF (SLA) 2. SPRAY IRRIGATION WITH HIGH WATER USE TURF (SLA)
- 3. DRIP IRRIGATION WITH LOW WATER USE PLANTS AND/OR TREES
- 4. BUBBLER IRRIGATION WITH LOW WATER USE TREES

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S	16.	CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE CITY OF CORCORAN. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS REQUIRED BY THE CITY OF CORCORAN.	
	17.	ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES SHALL BE LOCATED IN PLATING AREAS A MINIMUM OF18" AWAY FROM ADJACENT PAVING AND A MINIMUM OF 5' AWAY FROM IMMEDIATE BUILDING ENTRIES.	(<u>M</u>)
E	18.	FOR ALL DRIP AREAS: CONTRACTOR TO INSTALL AIR RELIEF VALVES, OPERATION INDICATORS AND FLUSH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO USE A CENTER FEED LAYOUT FOR DRIP IRRIGATION WHENEVER POSSIBLE TO MINIMIZE NEED FOR EXTRA CONTROL VALVES.	BF
)	19.	CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: • THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL • THE HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES • ALL ZONES SHALL PASS A COVERAGE TEST • CONTROLLER SHALL BE FULLY OPERATIONAL	C
E	19.	CONTRACTOR SHALL PROVIDE ALL MATERIALS AND CONNECTION TO SUPPLY ELECTRICAL POWER.	$\langle \overline{OI} \rangle$
Y	20.	CONNECTION SHALL BE MADE AT APPROXIMATE LOCATION(S) AS INDICATED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CHANGES CAUSED BY ACTUAL SITE CONDITIONS AND FOR THE COORDINATION OF ALL ELECTRICAL SERVICE CONNECTIONS TO THE CONTROLLERS.	ĒS
DE	21.	ALL ELECTRICAL WORK AND MATERIALS SHALL CONFORM TO LOCAL CODES, ORDINANCES AND GOVERNING AUTHORITIES HAVING JURISDICTION.	
T T	22.	WIRING SHALL OCCUPY THE SAME TRENCH AND SHALL BE INSTALLED ALONG THE SAME ROUTE AS PRESSURE SUPPLY OR LATERAL LINES WHEREVER POSSIBLE.	
Y	23.	ALL CONTROL WIRE SPLICED SHALL BE COMPLETELY WATERPROOF. USE ONE SPLICE PER CONNECTOR SEALING PACK.SIZE OF WIRE SHALL NOT EXCEED MANUFACTURER'S LENGTH OF RUN CHARTS.	$\langle \mathbf{P} \rangle$
	24.	INSTALL ELECTRIC REMOTE CONTROL VALVES PER THE IRRIGATION DETAILS AND MANUFACTURER'S SPECIFICATIONS.	
N	25.	CONTRACTOR TO INSTALL RAIN BIRD IVM-SD, SURGE PROTECTION DEVICE FOR THE IRRIGATION CONTROLLER AND THE 2-WIRE PATH, AT EVERY 500 FEET OR EVERY 15 FIELD DEVICES IN VALVE BOXES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.	Μ

VALVE CALLOUT





- VALVE FLOW

IRRIGATION SCHEDULE

<u>SYMBOL</u>	MANUFACTURER/MODEL/DES
© 8 10 12 15 17 X X X X X X X T H TT TQ F	INSTALL HUNTER PROS-06-C 6.0" POP-UP. WITH DRAIN CH SEAL WITH UV RESISTANT M/
¥	INSTALL RAIN BIRD 1401 BUB EACH TREE TO RECEIVE (2) S 0.5 GPM PER SYMBOL. BUBB SIDES OF ROOTBALL.
<u>SYMBOL</u>	MANUFACTURER/MODEL/DES
(1.5)	INSTALL HUNTER I-20-06 TURF ROTOR, 6.0" POP-UP. A PLASTIC RISER. DRAIN CHEC
08)	HUNTER I-40-04-SS TURF ROTOR, 4.0" POP-UP. A VALVE, STAINLESS STEEL RIS STANDARD NOZZLE.
(10)	HUNTER I-40-04-SS TURF ROTOR, 4.0" POP-UP. A VALVE, STAINLESS STEEL RIS STANDARD NOZZLE.
SYMBOL	MANUFACTURER/MODEL/DES
X	INSTALL RAIN BIRD XCZ-100-F WIDE FLOW DRIP CONTROL F 1" BALL VALVE WITH 1" PESB 40 PSI QUICK-CHECK BASKE RAIN BIRD LXIVMSOL, FIELD D INSTALL IN VALVE BOX AND U MANUFACTURER'S RECOMMI
	AREA TO RECEIVE DRIP EMIT INSTALL TORO T-DPC-DC SIN SELF-FLUSHING, PRESSURE DUST CAP. ONTO TORO BLA 0.5GPH=BLUE; 1.0GPH=BLA EMITTER NOTES: 0.5 GPH EMITTERS (2 ASSIGN 0.5 GPH EMITTERS (3 ASSIGN 0.5 GPH EMITTERS (3 ASSIGN 0.5 GPH EMITTERS (4 ASSIGN
SYMBOL	MANUFACTURER/MODEL/DES
•	INSTALL RAIN BIRD PEB-PRS- PLASTIC INDUSTRIAL VALVES GLOBE CONFIGURATION. WI
	RAIN BIRD 3-RC 3/4" 3/4" BRASS QUICK-COUPLING STAINLESS STEEL SPRING, T

 (\mathbf{x})

MEASUREMENT. 2 WIRE DIGI CONTROLLERS. FLOW RANG INSTALL BARRETT BOOSTER MODEL: IBPCO-10-2-2.5/VFD-PUMP MODEL NO. PACO 127 CONTACT KIM M. GOLDENST PUMPS, (619) 380-1833, KIMG INSTALL WATER METER 4" INSTALL IRRIGATION LATERA _____ INSTALL IRRIGATION LATERA INSTALL IRRIGATION LATERA _____ INSTALL IRRIGATION LATERA INSTALL IRRIGATION LATERA INSTALL IRRIGATION LATERA INSTALL IRRIGATION LATERA INSTALL IRRIGATION MAINLIN _____ INSTALL IRRIGATION MAINLIN _____ _____ INSTALL IRRIGATION MAINLIN INSTALL IRRIGATION MAINLIN _____ INSTALL IRRIGATION MAINLIN _____

NOTE: SEE IRRIGATION PLAN ON SHEETS IR-1.03-1.04 FOR LOCATION OF PIPES AND PIPE SIZES ALL QUANTITIES LISTED ARE APPROXIMATIONS

MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI			DETAIL/SHEET
INSTALL HUNTER PROS-06-CV ADJUSTABLE ARC TURF SPRAY 6.0" POP-UP. WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	111	25			1/IR-2.01
INSTALL RAIN BIRD 1401 BUBBLER. EACH TREE TO RECEIVE (2) STREAM BUBBLERS FOR A TOTAL OF 0.5 GPM PER SYMBOL. BUBBLERS TO BE INSTALLED ON OPPOSITE SIDES OF ROOTBALL.	438	20			2/IR-2.01
MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	<u>PSI</u>	<u>GPM</u>	RADIUS	DETAIL/SHEET
INSTALL HUNTER I-20-06 TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	49	25	1.20	29'	3/IR-2.01
HUNTER I-40-04-SS TURF ROTOR, 4.0" POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1" FEMALE NPT INLET THREADS, STANDARD NOZZLE.	3	60	9.20	46'	3/IR-2.01
HUNTER I-40-04-SS TURF ROTOR, 4.0" POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1" FEMALE NPT INLET THREADS, STANDARD NOZZLE.	22	60	11.3	50'	3/IR-2.01
MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>				DETAIL/SHEET
INSTALL RAIN BIRD XCZ-100-PRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40 PSI QUICK-CHECK BASKET FILTER, 0.3 GP3 TO 20GPM AND INSTALL RAIN BIRD LXIVMSOL, FIELD DECODER FOR TWO-WIRE SYSTEM. INSTALL IN VALVE BOX AND USE LINE SURGE PROTECTION AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.	48				4/IR-2.02 2/IR-2.03
AREA TO RECEIVE DRIP EMITTERS INSTALL TORO T-DPC-DC SINGLE OUTLET EMITTER (OR EQUAL) SELF-FLUSHING, PRESSURE COMPENSATING, WITH COLOR-CODED DUST CAP. ONTO TORO BLANK DRIP LINE (OR EQUAL) 0.5GPH=BLUE; 1.0GPH=BLACK; 2.0GPH=RED.					6/IR-2.01 7/IR-2.01
EMITTER NOTES: 0.5 GPH EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT) 0.5 GPH EMITTERS (2 ASSIGNED TO EACH 2 GAL. PLANT) 0.5 GPH EMITTERS (3 ASSIGNED TO EACH 3 GAL. PLANT) 0.5 GPH EMITTERS (3 ASSIGNED TO EACH 5 GAL. PLANT) 0.5 GPH EMITTERS (4 ASSIGNED TO EACH 15 GAL. PLANT)	188 124 183 - 80				
MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>				DETAIL/SHEET
INSTALL RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	33				1/IR-2.02
RAIN BIRD 3-RC 3/4" 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.	1				7/IR-2.02
INSTALL RAIN BIRD EFB-CP-PRS-D, 2" BRASS MASTER VALE THAT IS CONTAMINATION PROOF W/ SELF-FLUSHING FILTER SCREEN, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR AND INSTALL RAIN BIRD LXIVMSOL, FIELD DECODER FOR TWO-WIRE SYSTEM. INSTALL IN VALVE BOX AND USE LINE SURGE PROTECTION AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS	1				2/IR-2.02
INSTALL FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER PER CITY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.	1				W-10/DS-1.03
INSTALL RAIN BIRD ESPLXIVMP TWO-WIRE COMMERCIAL CONTROLLER. 240 STATIONS UV-RESISTANT, OUTDOOR-RATED, PLASTIC LOCKING WALL-MOUNTABLE CASE.	1				3/IR-2.02 4/IR-2.02
INSTALL RAIN BIRD IQ-NCC-EN. IQ NCC ETHERNET CARTRIDGE UPGRADES ESP-LX SERIES CONTROLLERS TO IQ SATELLITE CONTROLLERS. INCLUDES EMBEDDED ETHERNET NETWORK MODEM WITH RJ-45 PORT, AND PATCH CABLE. REQUIRES LAN NETWORK STATIC IP ADDRESS. USED FOR DIRECT OR SERVER SATELLITE APPLICATIONS.	1				
INSTALL CREATIVE SENSOR TECHNOLOGY FSI-T20-001 2" PVC TEE TYPE FLOW SENSOR W/ SOCKET ENDS, CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ ALL IRRIGATION CONTROLLERS. FLOW RANGE 2.8 - 170 GPM	1				5/IR-2.02
INSTALL BARRETT BOOSTER PUMP SYSTEM MODEL: IBPCO-10-2-2.5/VFD-F (OR EQUAL) PUMP MODEL NO. PACO 1270-9 CONTACT KIM M. GOLDENSTEIN AT BARRETT ENGINEERED	1				1/IR-2.03
PUMPS, (619) 380-1833, KIMGOLDENSTEIN1@GMAIL.COM					
INSTALL WATER METER 4"	1				W-6A/DS-1.03
	6,369	LF			
INSTALL IRRIGATION LATERAL LINE: PVC SCHEDULE 40, 🖑	1,033	LF			
INSTALL IRRIGATION LATERAL LINE: DVC SCHEDULE 40, 1	797.5 F46.4				
INSTALL IRRIGATION LATERAL LINE: PVC SCHEDULE 40, 14	590.51	F			
INSTALL IRRIGATION LATERAL LINE: PVC SCHEDULE 40 2 1/2"	354.3 L	F.			
INSTALL IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3"	7.5 L.F				
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 1/2"	326.5 l	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 3/4"	318.3 l	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 1"	176.8 L	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 1 1/4"	327.2 l	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 1 1/2"	14.4 L.	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 2"	183.3 L	F.			
INSTALL IRRIGATION MAINLINE: PVC CLASS 160 SDR 26 2 1/2"	379.1 L	F.			
INSTALL IKRIGATION MAINLINE: PVC CLASS 160 SDR 26 3"	1,663	L.F.			

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MATCH LINE, SEE SHEET IR-1.04













KEYNOTE LEGEND

2 INSTALL SWING JOINT

(3) FINISHED GRADE (4) INSTALL SCH. 40 PVC 90° ELBOW SLIP TO THREAD.

5 INSTALL LATERAL LINE IRRIGATION (SEE IRRIGATION PLANS ON SHEET IR-1.02 FOR SIZING)

6 EDGE OF ROOTBALL. SETTLE BACKFILL TO ALLOW IRRIGATION TO FLOW THROUGH THE ROOT BALL.

7 INSTALL AMENDED SOIL, SEE SPECIFICATIONS FOR SOIL MODIFICATION.

8 INSTALL SCH. 40 PVC TEE OR ELBOW

NOTES:

• ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE

BUBBLER AND EDGE OF THE ROOT BALL TO ALLOW IRRIGATION TO FLOW THROUGH THE ROOT BALL.



(1) INSTALL FINISH GRADE

2) INSTALL VALVE BOX WITH LOCKABLE LID

(3) INSTALL COIL 18" LENGTH OF CONTROL WIRE AND SPLICE WITH WATER-TIGHT SPLICE CONNECTORS

(4) INSTALL ELECTRIC REMOTE CONTROL VALVE, SEE IRRIGATION LEGEND FOR MODEL.

(5) INSTALL INLINE PRESSURE REGULATOR

6 INSTALL SCHEDULE 40 PVC ADAPTER (MALE X FEMALE)

(7) INSTALL LATERAL LINE TO DRIP TUBING, 18" _ENGTH MINIMUM BEFORE FIRST FITTING.

8 INSTALL PRESSURIZED MAINLINE PIPE, SEE IRRIGATION PLAN FOR SIZE.

(9) INSTALL PVC SCH 40 TEE OR ELBOW

(10) INSTALL PVC SCH 40 ELBOW

(11) INSTALL PVC SCH 80 NIPPLE, LENGTH AS REQUIRED

(12) INSTALL LARGE CAPACITY DISC FILTER

(13) INSTALL 12" DEEP $\frac{3}{4}$ " AGGREGATE BASE

(14) INSTALL COMMON BRICK, ONE AT EACH CORNER FOR SUPPORT

(1) -

DETAIL 4 - DRIP ZONE CONTROL VALVE N.T.S.



NOTE: DRIP TUBING TO BE INSTALLED UNDER 4" OF DECOMPOSED GRANITE

DETAIL 7 - DRIP EMITTER TUBING N.T.S.



ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS
 SPECIFIED OTHERWISE

• CONTRACTOR SHALL SETTLE THE AREA AROUND THE







N.T.S.





CONTRACTOR NOTE: 1. DRIP EMITTER TO BE PLACED ON STAKE WHEN NECESSARY ON SLOPED AREAS 2. DRIP TUBING TO BE INSTALLED UNDER 4" OF DECOMPOSED GRANITE







N.T.S.



(4) INSTALL PRESSURE MAINLINE 5 INSTALL CONTROL WIRE ADJACENT TO PRESSURE MAINLINE. BUNDLE AND TAPE AT 10' INTERVAL TO PIPE.

NOTES: REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.





KEYNOTE LEGEND

1 FINISH GRADE BEFORE PLANTING

- 2 INSTALL POP-UP ROTOR, SEE IRRIGATION LEGEND ON SHEET IR-1.01 FOR MODEL DETAILS
- (3) INSTALL SCH 80 PVC THREADED NIPPLE (6" LONG)
- (4) INSTALL SCH 80 PVC THREADED NIPPLE, LENGTH AS REQUIRED
- (5) INSTALL SCH 40 PCV 90 ELBOW
- (6) INSTALL SCH 40 PVC 90 ELBOW
- (7) INSTALL SCH 40 PVC TEE

KEYNOTE LEGEND

DETAIL 3 - POP-UP ROTOR

N.T.S.

- (1) INSTALL EMITTER OR BUBBLER ON $\frac{1}{2}$ " DRIP STAKE
- (2) INSTALL TYPICAL $\frac{1}{2}$ " DRIP TUBING
- (3) INSTALL TYPICAL COMPRESSION FITTING
- (4) DRIPLINE EDGE
- (5) INSTALL SINGLE-OUTLET EMITTER WITH BARB INLET
- (6) INSTALL TYPICAL $\frac{1}{2}$ " DRIP TUBING STAKE
- $\binom{7}{1}$ INSTALL TYPICAL $\frac{1}{4}$ " DISTRIBUTION TUBING
- INSTALL FLUSH VALVE
- NOTES: • PLACE EMITTERS $\frac{3}{4}$ BETWEEN THE TRUNK AND OUTTER DRIPLINE.
- EVENLY SPACE EMITTERS AROUND PLANT OR TREE.
- STAKE THE DRIP TUBING AT EACH TEE, ELBOW, COUPER, AT EACH EMITTER OR TRANSFER AND AT 6' MAX O.C.
- SEE IRRIGATION SCHEDULE ON SHEET IR-1.01 FOR NUMBER OF EMITTERS PER PLANT
- DRIP TUBING TO BE PLACED UNDER 4" OF DECOMPOSED GRANITE

KEYNOTE LEGEND

MAINLINE.

CONTRACTOR NOTE:

1 FINISH GRADE OF HARDSCAPE: CONCRETE, SIDEWALK, ASPHALT, ETC.

2 INSTALL CLEAN BACKFILL PER SPECIFICATIONS

4 INSTALL MAINLINE SLEEVE, 2X DIAMETER OF MAINLINE

5 INSTALL CONTROL WIRE SLEEVE UNDER PAVING ADJACENT TO

REFER TO SPECIFICATIONS AND PLAN

SHEETS FOR MORE INFORMATION.

3 INSTALL LATERAL LINE SLEEVE, 2X DIAMETER OF LATERAL LINE

DETAIL 6 - TYPICAL DRIP TUBING LAYOUT N.T.S.

DETAIL 9 - PIPE TRENCHING UNDER HARDSCAPE N.T.S.

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SHEET NO.

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- KEYNOTE LEGEND (1) 30-INCH LINEAR LENGTH OF WIRE, COILED
- (2) WATERPROOF CONNECTION, RAIN BIRD
- SPLICE
- (3) ID TAG
- (4) REMOTE CONTROL VALVE, SEE IRRIGATION LEGEND ON SHEET IR-1.01 (5) FOR MODEL
- (6) VALVE BOX WITH COVER
- FINISH GRADE
- (7) PVC SCH 80 NIPPLE (CLOSE)
- (8) PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- (10) BRICK (TYP. OF 4)
- (1) MAINLINE PIPE
- (12) SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- (13) PVC SCH 40 TEE OR ELL
- (14) PVC SCH 40 MALE ADAPTER
- (15) PVC LATERAL PIPE, SEE IRRIGATION PLAN ON SHEETS IR-1.02 AND IR-1.03 FOR SIZE
- (16) 3.0-INCH MIN. DEPTH OF $\frac{3}{4}$ INCH WASHED GRAVE

DETAIL 1 - REMOTE CONTROL VALVE







DETAIL 4 - INTERIOR WALL MOUNTED CONTROLLER N.T.S.

KEYNOTE LEGEND (1) INSTALL QUICK COUPLER VALVE 2 INSTALL VALVE BOX, 10" MIN. ROUND 3 INSTALL SCH 80 NIPPLE, LENGTH AS REQUIRED. 4 INSTALL SWING JOINT, LENGTH AS REQUIRED. 5 INSTALL PRESSURE SUPPLY LINE. SIZE PER PLAN. 6 INSTALL EPOXY COATED REBAR STAKE, 24" LONG 7 INSTALL PRESSURE SUPPLY LINE FITTING 8 INSTALL STAINLESS STEEL SCREW CLAMP (TYP.) 9 INSTALL $\frac{3}{4}$ " WASHED CRUSHED AGGREGATE BASE. ONE (1) CUBIC NOTES: FT MIN. 10 COMPACT SOIL TO 90% RELATIVE COMPACTION VALVE BOX 11 FINISHED GRADE



- SET VALVE BOX 2" ABOVE GRADE IN LANDSCAPE AREA SET VALVE BOX FLUSH TO GRADE IN TURF AREAS
- PLACE AGGREGATE BASE PRIOR TO INSTALLATION OF

DETAIL 7 - QUICK COUPLER VALVE

(1) (2) (3)

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH

2. DRAWINGS ARE NOT TO SCALE

MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

KEYNOTE LEGEND

- (1) 30-INCH LINEAR LENGTH OF WIRE COILED
- (2) WATERPROOF CONNECTION, RAIN BIRD SPLICE
- 3 ID TAG
- (4) VALVE BOX WITH COVER
- (5) FINISH GRADE/TOP OF MULCH
- (6) MASTER VALVE, SEE IRRIGATION LEGEND ON SHEET IR-1.01 FOR MODEL
- PVC SCH 80 NIPPLE (CLOSE) (7)
- PVC SCH 40 ELL
- PVC SCH 80 NIPPLE (LENGTH AS (9) REQUIRED)
- BRICK (TYP. OF 4) (10)
- MAINLINE PIPE
- SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) (12) AND SCH 40 ELL
- PVC SCH 40 TEE OR ELL
- PVC SCH 40 MALE ADAPTER
- PVC LATERAL PIPE, SEE IRRIGATION PLAN
- (15) ON SHEETS IR-1.02 AND IR-1.03 FOR SIZE
- $(16) \begin{array}{c} 3.0-\text{INCH MIN. DEPTH OF} \frac{3}{4} \text{ INCH WASHED} \\ \text{GRAVEL} \end{array}$





DETAIL 5 - FLOW SENSOR

N.T.S.

IRRIGATION CONTROLLER. • SET VALVE BOX 2" ABOVE GRADE IN SHRUB AREAS

NOTES:

• SET VALVE BOX FLUSH TO GRADE IN TURF AREAS

3 EDGE OF HARDSCAPE



- DIRECTION OF FLOW.
- (2)INSTALL WATERPROOF CONNECTORS ON 18" LOOPED
- (3) INSTALL PVC CONDUIT FOR
- (4) INSTALL MAINLINE, SIZE PER PLAN.

6 INSTALL JUMBO PLASTIC VALVE BOX WITH 2-6" EXTENSIONS AND

- (7) INSTALL COMMON BRICKS FOR
- 8 INSTALL VALVE BOX EXTENSION (TYP.)

(9) INSTALL ³/₄" CRUSHED AGGREGATE BASE. ONE (1) CUBIC FT. MINIMUM.





- SET VALVE BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF HARDSCAPE. CONTRACTOR TO SET ALL GROUPINGS OF VALVE BOXES AT THE SAME HEIGHT ABOVE GRADE.
- COLOR OF VALVE BOX SHALL MATCH SURROUNDING SURFACE WHENEVER POSSIBLE.

DETAIL 8 - VALVE BOX LAYOUT





KEYNOTE LEGEND

- 1 INSTALL PLASTIC VALVE BOX WITH LOCKING COVER
- (2) FINISHED GRADE
- (3) INSTALL 2" AIR RELIEF VALVE
- (4) INSTALL 6"-LONG PVC SCH 80 NIPPLE
- (5) INSTALL 2" GATE VALVE
- (6) INSTALL COMMON BRICK AT EACH CORNER FOR VALVE BOX TO SIT ON
- (7) INSTALL 3" MINIMUM CLEARANCE FROM THE BOTTOM OF GATE VALVE FITTING TO DRAIN ROCK
- 8 INSTALL 1" DIAMETER DRAIN ROCK TO A DEPTH
- 9 INSTALL PVC SCH 80 NIPPLE, LENGTH AS REQUIRED
- (10) WATER MAIN LINE
 - (11) WATER MAIN LINE FITTING





CONTRACTOR NOTES:

- 1. SURGE PROTECTORS SHOULD BE INSTALLED EVERY 500-FEET OR EVERY 15 FIELD DEVICES, AS SPECIFIED PER MANUFACTURER.
- 2. SURGE PROTECTORS TO BE INSTALLED AT END OF WIRE RUN THAT TERMINATES IN THE FIELD (STAR CONFIGURATION).

KEYNOTE LEGEND

- FINISH GRADE 10-INCH ROUND VALVE BOX. HEAT BRAND "SP" TO LID IN 2" HIGH BLOCK LETTERS
- WIRES FROM SURGE PROTECTOR TO GROUNDING ROD BRASS CLAMPS GROUNDING ROD CLAMP, TYP OF 2.
- TWO-WIRE CABLE PER MANUFACTURER'S SPECIFICATIONS. LOOP 2' OF WIRE INSIDE OF VALVE BOX.
- 5/8" X 8' GROUNDING ROD: 10 OHMS OR LESS BRICK SUPPOR, TYP. OF 4.
 1.25" MIN SCH. 40 ELECTRICAL CONDUIT (IF
- REQUIRED) 9. 90% COMPACTED SUB-GRADE
- 10. 12-INCH MINIMUM DEPTH OF 3/4-INCH WASHED CRUSHED AGGREGATE BASE OVER FILTER FABRIC
- 11. INSTALL WATERPROOF CONNECTORS TYP. OF 2. SEE DETAIL 3, SHEET IR-2.03. 12. TWO-WIRE LINE SURGE PROTECTOR
- 13. WIRE FROM SURGE PROTECTOR TO DB SERIES WIRE CONNECTOR (OR EQUAL).



DETAIL 9 - SURGE PROTECTION DEVICE N.T.S.



CONSTRUCTION NOTE:

• CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF PUMP ASSEMBLY

BARRETT ENGINEERED PUMPS (OR EQUAL)

DETAIL 1 - IRRIGATION BOOSTER PUMP N.T.S.

<u>STEP 1</u>







- FINISH GRADE
- MULCH. REFER TO SPECS. 4. TWO-WIRE CABLE FROM CONTROLLER, TO NEXT
- VALVE AND FEEDING DECODER. INSTALL WATERPROOF CONNECTORS, TYP. OF 2. 5.
- SEE DETAIL 3 ON SHEET IR-2.03.
- WIRES FROM DECODER TO THE VALVE SOLENOID. TWO-WIRE DECODER
- 8. I.D. TAG WITH STATION NUMBER PRINTED ON IT 9. 90% COMPACTED NATIVE
- 10. 12-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL OVER FILTER FABRIC
- 11. BRICK SUPPORT (1 OF 4)
- 12. 1.25" MIN SCH. 40 ELECTRICAL CONDUIT. (IF REQ.) ADJUST SIZE AS REQUIRED. 13. MAINLINE INTO VALVE. REFER TO PLAN.
- 14. REMOTE CONTROL VALVE. PER PLAN. 15. TWO-WIRE CABLE (PER MANUFACTURER). LOOP 24"
- MIN. EXTRA WIRE AROUND PERIMETER OF BOX.

DETAIL 2 - 2-WIRE DECODER N.T.S.



- KEYNOTE LEGEND
- 1 SLIP BASE SOCKET OVER END OF WIRES
- 2 STRIP WIRES APPROX. 8 FROM ENDS -TWIST TOGETHER
- 3 APPLY SEALER TO OUTSIDE OF SEALING PLUG AND FILL CAVITY WITH SEALER
- 4 PUT CRIMP SLEEVE OVER WIRE ENDS -CRIMP SLEEVE AND CUT OFF EXCESS WIRE
- 5 PULL BASE SOCKET OVER END OF WIRES AS FAR AS POSSIBLE
- 6 PUSH SEALING PLUG INTO BASE SOCKET
- 7 PUSH WIRES TO END OF BASE SOCKET TO INSURE COMPLETE SEALING OF CONNECTION
- 8 COMPLETED WATERPROOF WIRE CONNECTION





SHEET NO. IR-2.03









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Standard Drawing for:		APPROVED BY:
DRIVEWAY STANDARDS		Revised:
AND CRITERIA		











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DS-1.03

GENERAL NOTES

- 1. THESE DRAWINGS HAVE BEEN PREPARED WITH INFORMATION PROVIDED IN ORIGINAL DESIGN DOCUMENTS AND HAVE NOT BEEN VERIFIED FOR ACCURACY. NEW DESIGN AND REQUIREMENTS WERE BASED ON THE ASSUMPTION OF EXISTING INFORMATION BEING ACCURATE. ANY DISCREPANCIES OR QUESTIONABLE POINTS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. CONTRACTOR TO SECURE CLARIFICATION AND AUTHORIZATION TO PROCEED PRIOR TO THE ROUGH-IN.
- 2. THE WORK OF THIS PROJECT INCLUDES ALTERATIONS TO THE EXISTING FACILITY TO ACHIEVE THE ARRANGEMENTS INDICATED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR (EC) SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS, LOCATIONS AND REQUIREMENTS PRIOR TO SUBMITTING BID, AND DETERMINE THE EXTENT OF DEMOLITION AND NEW WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. ELECTRICAL CONTRACTOR SHALL REVISE. REARRANGE, OR REROUTE EXISTING PORTIONS OF THE PROJECT WHICH ARE AFFECTED BY THE REMODEL. BUT ARE TO REMAIN IN OPERATION.
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS, SPECIFICATION, AND EXISTING FACILITY DRAWINGS. THE CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 4. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. ALL LIKE ÉQUIPMENT, MATERIAL, FIXTURES, ETC. SHALL BE OF SAME MANUFACTURER AT ALL TIMES - NO EXCEPTIONS. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS, STANDARDS, RULES, AND REGULATIONS OF THE FOLLOWING AND BE MOST SUITABLE TO THE PURPOSE INTENDED:

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INSULATED POWER CABLE MANUFACTURERS ASSOCIATION (IPCMA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AMERICAN STANDARD ASSOCIATION (ASA) NATIONAL FIRE PROTECTION AGENCY (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR), 2019 INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) NATIONAL ELECTRICAL CODE (NEC), 2017 EDITION CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, LATEST EDITION ELECTRONIC INDUSTRY ASSOCIATION (EIA) TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA)

- 5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF THE ELECTRICAL SYSTEM WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENT AGENCIES.
- 6. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 7. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INSOFAR AS TIME AND PROCEDURE ARE CONCERNED.
- 8. ELECTRICAL DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LAYOUT OF THE COMPLETE CONSTRUCTION WORK. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCTING, OR PIPING REASONS, ELECTRICAL CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS.
- 9. ALL LINE VOLTAGE WIRING AND CABLING SHALL BE IN CONDUIT. ALL EXTERIOR EXPOSED CONDUITS SHALL BE RIGID, GALVANIZED STEEL OR INTERMEDIATE METAL CONDUITS (IMC). ELECTRICAL METALLIC TUBING (EMT) SHALL BE PERMITTED IN INTERIOR EXPOSED AREAS AND WHERE CONCEALED IN FINISHED WALLS OR IN THE OPEN CEILINGS. ALL CONDUITS SHALL BE INSTALLED PARALLEL WITH, OR AT RIGHT ANGLES TO THE BUILDING LINES, BEAMS, OR CEILING. ALL LONG CONDUIT RUNS SHALL INCLUDE PULL BOXES AT 100-FOOT INCREMENTS AND SIZED AS REQUIRED OR NOTED. IN ADDITION, ALL CONDUITS CROSSING CEILING STRUCTURE EXPANSIONS SHALL HAVE APPROVED EXPANSION FITTINGS ACCORDINGLY. FLEXIBLE CONDUIT IS PERMITTED ONLY FOR SHORT LENGTHS TO EQUIPMENT TERMINATION AS REQUIRED (NOT TO EXCEED 5' IN LENGTH). PULL WIRE: NYLON PULL STRING SHALL BE LEFT IN ALL CONDUITS AND WIRE WAYS, REGARDLESS OF LENGTH, AND SHALL BE TAGGED AT BOTH ENDS TO SHOW TERMINATION POINTS AND LENGTH OF RUNS. ALL CONDUIT SHALL BE CONCEALED FROM PUBLIC VIEW.
- 10. LOW VOLTAGE CABLING (i.e. CLASS 1) IS TO BE INSTALLED IN CONDUIT OR APPROVED CABLE TRAY. ALL CABLING TO BE PROPERLY SUPPORTED AS REQUIRED AND BE PLENUM RATED WHERE REQUIRED.
- 11. CONDUIT SUPPORTS SHALL BE U.L. LISTED. CONDUIT STRAPS ALLOWED FOR INDIVIDUAL CONDUIT RUNS, HANGERS SHALL BE USED FOR GROUPED CONDUIT RUNS. DO NOT SUPPORT CONDUITS WITH WIRES OR SHEET METAL STRIPS USE CLEVIS HANGERS, C-CLAMP, I-BEAM CLAMPS, ROD HANGERS FOR SUPPORTING HANGERS, ANCHORS TO BE HOT DIP GALVANIZED STEEL. ALL HANGERS AND SUPPORTS SHALL BE FASTENED TO THE BUILDING STRUCTURE BY MEANS OF BEAM CLAMPS, BOLTS, U-CHANNEL STRUT SYSTEM, ANCHORS, RODS, AND CLEVIS HANGERS. WELDING TO BUILDING STRUCTURE WILL NOT BE PERMITTED. ELECTRICAL BOXES, FITTINGS, AND CONDUITS SHALL NOT BE SUPPORTED FROM METAL ROOF BY MEANS THAT WILL REQUIRE A SCREW PENETRATION OF THE ROOF DECK. MINIMUM CONDUIT SIZE USED FOR THIS PROJECT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- 12. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE, UNLESS NOTED OTHERWISE.
- 13. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING AND PATCHING OF CONCRETE AS REQUIRED TO PERFORM ITS WORK.
- 15. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT. PERFORM CORING, SAW CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE PERFORMED USING UL LISTED MATERIALS.
- 16. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS:
- A. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS.
- B. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.
- C. PROVIDE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
- 17. CUTTING, PATCHING AND PIERCING:
- A. USE CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES FOR CUTTING, FITTING, REPAIRING, PATCHING OF PLASTER AND FINISHING OF MATERIALS, INCLUDING CARPENTRY WORK, METAL WORK OR CONCRETE WORK REQUIRED FOR THIS WORK. DO NOT WEAKEN WALLS, PARTITIONS OR FLOORS WITH CUTTING. HOLES REQUIRED TO BE CUT INDOORS MUST BE DRILLED WITHOUT EXCESSIVE BREAKING OUT AROUND THE HOLES.
- B. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS TO MAINTAIN PARTITION FIRE RATINGS USING UL APPROVED METHODS. THESE REPAIRS SHALL BE INCLUDED IN THE BASE BID PRICE AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- C. SLEEVES THROUGH FLOORS AND WALLS SHALL BE BLACK IRON PIPE, FLUSH WITH WALLS, CEILINGS OR FINISHED FLOORS, SIZED TO ACCOMMODATE THE RACEWAY.

GE	INERAL NOTES	GENERAL NOTES
	D. USE CARE IN PIERCING WATERPROOFING. AFTER THE PART PIERCING THE WATERPROOFING HAS BEEN SET IN PLACE, SEAL OPENINGS AND MAKE ABSOLUTELY WATERTIGHT.	DOES NOT GUARANTE
18. 19.	ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS #10-AWG AND LARGER SHALL BE STRANDED TYPE WITH "THWN/THHN" INSULATION (90 DEGREES CELSIUS, WET OR DRY). ALUMINUM CONDUCTORS ARE NOT PERMITTED.	38. THE CONTRACTOR SH SHALL BE CORRECTE SHALL BE KEPT ON AS AUTHORIZATION F EACH CASE. UPON C
20	ELECTRICAL CONTRACTOR. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATION SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.	THEREON WITH BLACK THEREON WITH BLACK RECORD DRAWINGS U 39. ALL COVERPLATES SH 40. ALL FUSES ON 480 ON CIRCUITS EXCEED
21	WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE MOST STRICT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.	 41. ALL GROUND MOUNTE ACCOMMODATE THE E 42. UNDERGROUND COND PANEL FEEDER COND FINISH COVER IS PRO
22	. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRE STOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED. IN ADDITION:	GRADE FOR ALL UND OWNED CONDUITS, RI
	A. STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA NEED NOT BE PROTECTED IN ONE-HOUR OR TWO-HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS OR AREA SEPARATION UNLESS THEY:	43. DMX SYSTEMS & CAE 43.1. ALL WIRING MUST
	A.A. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRE STOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.	43.2. STAR WIRING IS 0 43.3. CABLE SHIELD SH 43.4. MAXIMUM CABLE 43.5. MAXIMUM CABLE
	A.B. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.	43.8. RECEIVING DEVICE 43.7. WIRE MUST BE E 43.8. THE LAST DMX D VALUE OF 100 T 43.9. RJ45 CONNECTOF 43.10.USE CAT6 STP W
	B. STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRE STOP MATERIAL AS LISTED OR EQUAL.	
	C. STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.	
	D. UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE FRAMING STUD OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE RATED SEALANT.	E0.02 E0.03 E0.04
	E. ALL ELECTRICAL AND COMMUNICATION OUTLETS, JUNCTION BOXES, ETC. LOCATED IN COMMON WALLS TO ADJACENT TENANTS TO HAVE APPROPRIATE INSULATION BEHIND BOXES SIZED 4 TIMES THE AREA OF THE BOX.	ES1.0 E1.02 E1.03
23	. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, WIRE WAY AND CABLE TRAY SHALL BE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, LATEST EDITION.	E1.04 E1.05 E1.06
24	SECURELY FASTEN ALL ELECTRICAL EQUIPMENT BY MEANS OF RODS, HANGERS, SUPPORTS, GUIDES, ANCHORS AND SWAY BRACES TO MAINTAIN ALIGNMENT, TO PREVENT EQUIPMENT MOVEMENT, AND TO RESIST SEISMIC FORCES. DO NOT SECURE ANY ELECTRICAL EQUIPMENT TO ACOUSTICAL CEILING SUPPORT WIRES.	E2.01 E2.02
25	STRAIGHT FEEDER, BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.	E3.01 E3.02
26	A CONDUITS FOR ELECTRICAL AND SYSTEMS SHALL BE IDENTIFIED WITH STENCIL MARKINGS AT 100 FOOT	
	INCREMENTS, AT EACH INTERSECTION, AND AT EACH CROSSOVER FROM ONE AREA TO ANOTHER, PENETRATION OF WALLS, AND FLOORS WITH LETTERING 3/4" MINIMUM FOR 1" CONDUIT OR LESS, 1" MINIMUM FOR 2" CONDUIT OR LESS, AND 1–1/2" MINIMUM FOR 4" OR LESS IN THE COLORS AS FOLLOWS:	
	480/277 VOLTS: ORANGE 208/120 VOLTS: BLACK TELEPHONE/DATA: YELLOW FIRE ALARM: RED	
	B. ALL FIRE ALARM JUNCTION BOXES AND PULL BOXES SHALL BE PAINTED RED.	
27	ALL CONDUCTORS AND CABLES SHALL BE IDENTIFIED AT EACH JUNCTION BOX, OUTLET BOX, CABINET, PULL BOX, ETC., WITH VINYL SELF—ADHESIVE TAPE SHOWING PANEL AND CIRCUIT NUMBERS, CONTROL WIRE NUMBER OR OTHER APPROPRIATE INFORMATION REGARDING THE SYSTEM IT REPRESENTS.	
28	PROVIDE PERMANENT ENGRAVED LABELS AT ALL PANELBOARDS, BLACK BACKGROUND WHITE LETTERS, INCLUDE PANEL NAME AND VOLTAGE – EX. "H1"–277/480V. ALL PANELBOARDS SHALL HAVE TYPED PANEL SCHEDULE PLACED IN DOOR OF PANEL.	
29	DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS, SPECIFIC FITTINGS, JUNCTION BOXES NOR PULL BOXES NECESSARY TO MEET JOB CONDITIONS. THESE ITEMS SHALL BE PROVIDED WHERE NECESSARY AT NO ADDITIONAL COST TO THE OWNER.	
30	ALL EXISTING EQUIPMENT, MATERIAL, CONDUCTORS AND CABLES THAT ARE NOT TO BE REUSED IN THEIR PRESENT LOCATIONS SHALL BE CAREFULLY DISCONNECTED (CONDUCTORS AND CABLES REMOVED TO SOURCE OF SUPPLY) AND STORED IN A SAFE PLACE. IT SHALL BE MADE AVAILABLE FOR INSPECTION BY THE OWNER WHO WILL DESIGNATE WHAT IS TO BE STORED BY THE OWNER AND WHAT IS TO BE REMOVED FROM THE PREMISES BY THE ELECTRICAL CONTRACTOR.	
31	ALL SYSTEMS' CABLES TO BE OUTDOOR RATED.	
32	THE ALTERATION OF THE EXISTING BUILDING IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE PLANNING, CAREFUL PREPARATION AND EXECUTION, ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR WILL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH THE OTHER CONSTRUCTION TRADES AND, SUBJECT TO SCHEDULING, ARRANGE TO MINIMIZE DISRUPTION OF THE NORMAL ACTIVITIES OF THE FACILITY. ELECTRICAL CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH GENERAL CONTRACTOR AND OWNER.	
33	. IN AREAS WHERE THERE ARE NO ALTERATIONS INDICATED, THE EXISTING FACILITIES SHALL REMAIN IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL SERVICE IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD.	
34	. INSTALLATION OF ALL ELECTRICAL EQUIPMENT SHALL BE CAREFULLY COORDINATED WITH EXISTING CONDITIONS TO AVOID POSSIBLE INTERFERENCE PROBLEMS.	
35	THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SUBSTRUCTURES BY INVESTIGATING /SURVEYING THE PROJECT SITE AND SEARCHING EXISTING RECORDS MAINTAINED BY THE ARCHITECT AND OWNER. SHOULD ANY UTILITY BE DISTURBED OR DAMAGED DURING THE WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITY AND AFFECTED PROPERTY.	
36	WITHIN ONE (1) WEEK AFTER THE NOTICE TO PROCEED, THE ELECTRICAL CONTRACTOR SHALL SUBMIT THE VERIFICATION OF ORDERING ALL SPECIFIED ELECTRICAL MATERIAL, EQUIPMENT, ETC. ELECTRICAL CONTRACTOR SHALL INFORM THE ENGINEER IF PROBLEMS IN DELIVERY ARE ENCOUNTERED. SHOULD THERE BE A NEED TO DEVIATE FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS, CONTRACTOR SHALL SUBMIT WRITTEN DETAILS AND REASONS FOR ALL CHANGES TO ARCHITECT AND ENGINEER AND OBTAIN WRITTEN APPROVAL FOR SUBSTITUTIONS.	
37	ANY SUBSTITUTIONS FOR SPECIFIED MANUFACTURERS' MATERIALS, ETC., TO BE APPROVED BY ARCHITECT AND ENGINEER. CONTRACTOR TO SUBMIT WITHIN 7 CALENDAR DAYS FROM NOTICE TO PROCEED, EQUAL OR SUPERIOR SPECIFICATIONS FOR SUBSTITUTIONS, INCLUDING A REPORT DEFINING OR EXPLAINING ANY AND ALL BENEFITS FROM THE SUBSTITUTIONS. CONTRACTOR TO PROVIDE A NON-REFUNDABLE FEE TO ENGINEER FOR SERVICES RENDERED. FEE	

EE APPROVAL FOR SUBSTITUTIONS. HALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS ED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED XK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.

HALL BE STAINLESS STEEL.

VOLT SYSTEM SHALL BE RATED FOR 600 VOLT: FUSES RATED 300 VOLTS ARE NOT PERMITTED DING 300 VOLTS BETWEEN CONDUCTORS.

ED ELECTRICAL EQUIPMENT SHALL BE PROVIDED A CONCRETE HOUSEKEEPING PAD SIZED TO EQUIPMENT.

DUIT SHALL BE A MINIIMUM OF 24"BELOW GRADE UON. PVC CONDUIT (SCH. 80) IS ACCEPTABLE. DUIT SHALL BE PROVIDED WITH MINIMUM 3" CONCRETE SLURRY COVER WHERE ONLY EARTH COPOSED. FURNISH AND INSTALL METALIZED DETECTION TAPE NO MORE THAN 6" BELOW TOP DERGROUND CONDUIT. ALL CONDUIT ABOVE GROUND SHALL BE RIGID METAL CONDUIT. FOR UTILITY REFER TO SPECIFIC UTILITY REQUIREMENTS AND INSTALL AS REQUIRED - UTILITY PRIMARY MINIMUM 36" BELOW GRADE.

BLES:

- BE IN A CONTINUOUS RUN AND DAISY-CHAINED. NO "TEES" ARE PERMITTED. ONLY ALLOWED IN CONJUNCTION WITH AN OPTO-SPLITTER.
- HALL BE GROUNDED AT ONE END ONLY, PREFERABLY AT THE CONTROL CONSOLE.
- LENGTH IS 1,800 FT WHEN USED FOR DMX ONLY LENGTH FOR SYSTEMS INCORPORATING RDM IS 1000 FT DUE TO TIMING CONSTRAINTS ES HAVE MALE CONNECTORS, TRANSMITTERS HAVE FEMALE.
- BELDEN 9829, 9842, CAT6 OR EQUIVALENT DEVICE ON THE LINE MUST BE TERMINATED WITH A TERMINATION SWITCH OR RESISTOR WITH A TO 120 OHMS BETWEEN PINS 2 AND 3.
- RS MAY BE USED WITH CAT6 CABLE, FOR PERMANENT WIRING. WHEN INSTALLED IN RACEWAYS.

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SHEET NO.

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\DATE SIGNED: 8/16/21 / ★ /

No. E-18786

LIGHT FIXTURE LIST

	SYMBOL	TYPE	DESCRIPTION	LAMP/ WATTS	MOUNT	VOLT	ADDITIONAL NOTES
	0	(CL1)	LITHONIA LIGHTING VAP-4000LM FST MD MVOLT GZ10 40K 80CRI STSL LINEAR LED VANDAL RESISTANT	LED 33M	SURF	120∨	LINEAR LED VANDAL RESISTANT SURFACE MOUNT TO STRUCTURE
	\checkmark	(FL1)	HYDREL LIGHTING M9710 A 18LED RGB MVOLT WFL FLC20 FLC105R 345 RDM DDB IN-GRADE 12" LED RGB LUMINAIRE	LED 47M	FLUSH	277∨	IN-GRADE 12" LED RGB LUMINAIRE IN-GRADE MOUNT FLUSH WITH FINISH
	\triangleleft	(FL2)	HYDREL LIGHTING PDX10 BSS 18LED WHT41K MVOLT MFL FLCAS 34S IN-GRADE 10" LED LUMINAIRE	LED 19M	FLUSH	277∨	IN-GRADE 10" LED LUMINAIRE IN-GRADE MOUNT FLUSH WITH FINISH
(1)	Ţ	(PL1)	LITHONIA LIGHTING DSX1-LED-40C-700-50K-T2M-MVOLT-MA-DMG-DBLXD LED PARKING LIGHT	LED 89M	POLE	277∨	LED PARKING LIGHT 20' POLE MOUNT W4' MAST ARM
(1)		(PL2)	LITHONIA LIGHTING (2) D5X1-LED-40C-700-50K-T2M-MVOLT-MA-DMG-DBLXD LED PARKING LIGHT, DUAL HEAD	LED 178M	POLE	277∨	LED PARKING LIGHT 20' POLE MOUNT W/ DUAL 4' MAST ARMS DUAL HEAD
	F	(ML1)	URBAN SOLAR RMS SERIES 100M W/ PC SENSOR & TIME SETTINGS POLE MOUNT LED SOLAR POWER LIGHT FIXTURE	LED 100M	POLE	N/A	POLE MOUNT LED SOLAR POWER LIGHT FIXTURE POLE MOUNT PER DETAILS ON SHEET CD-E1.03 SELF-CONTAINED LIGHT FIXTURE
	~	(SL1)	ENVIRONMENTAL LIGHTS - SIGN LIGHT FEATURE MAXRUN RGB+3000K 4-IN-1 5050 LED FLEXIBLE LED STRIP FORMED TO LETTER SHAPES POWER SUPPLY 24VDC POWER SUPPLY, WATTAGE PER PLANS DMX CONTROLLED COLOR CHANGING	LED 2.7W /FT	SURF	24VDC	COLOR CHANGING LED STRIP SURFACE MOUNT - SEE DETAILS PROVIDE POWER SUPPLY
(3)	\checkmark	(ML1)	MONUMENT LIGHT SUPPLIED BY OTHERS COORDINATE WITH MONUMENT DESIGN FOR EXACT CONNECTION POINT FOR EACH MONUMENT LIGHT	LED TBV	FLUSH	тв∨	MONUMENT LIGHT -
	<u>AAAA</u>	(S1)	MUSCO SPORTS LIGHTING-SOCCER 5 LED SOCCER, 1 ACCENT LED SPORTS LIGHTING - 70' ROLE	LED 7250	POLE	480∨	LED SPORTS LIGHTING POLE MOUNT - 70' POLE REFER MANUFACTURER FOR DETAILS
	<u>AAAA</u>	(52)	MUSCO SPORTS LIGHTING-SOCCER 5 LED SOCCER, 1 ACCENT LED SPORTS LIGHTING - 70' POLE	LED 7250	POLE	480 √	LED SPORTS LIGHTING POLE MOUNT - 70' POLE REFER MANUFACTURER FOR DETAILS
	<u>AAAA</u>	(53)	MUSCO SPORTS LIGHTING-SOCCER 5 LED SOCCER, 1 ACCENT LED SPORTS LIGHTING - 70' POLE	LED 8430	POLE	480∨	LED SPORTS LIGHTING POLE MOUNT - 70' POLE REFER MANUFACTURER FOR DETAILS
	<u>AAAA</u>	(54)	MUSCO SPORTS LIGHTING-SOCCER 5 LED SOCCER, 1 ACCENT LED SPORTS LIGHTING - 70' POLE	LED 8430	POLE	480∨	LED SPORTS LIGHTING POLE MOUNT - 70' POLE REFER MANUFACTURER FOR DETAILS
(2)		(ST1)	STREET LIGHT DECORATIVE POST TOP PER CITY OF CORCORAN LED POST TOP STREET LIGHT	LED TBV	POLE	120∨	LED STREET LIGHT POLE MOUNT - TBV POLE REFER TO DETAILS

(1) PROVIDE WIRELESS SENSOR FOR OCCUPANCY DIMMING CONTROL, ACUITY NLIGHT RMSOD-30-ZT-180D; FIXTURE SHALL DIM TO 50% DURING NON-OCCUPIED TIMES (2) COORDINATE DECORATIVE STREETLIGHT W/ PG&E FOR EXACT MODEL, SIMILAR TO 'CHARLESTON' POLE AND 'GRANVILLE' FIXTURE PER PG&E STANDARDS (3) FIXTURE PROVIDED BY MONUMENT CONTRACTOR

LIGHTING SYMBOL LIST

MUS	MUSCO LIGHTING CONTROL CABINET. PROVIDE LINE VOLTAGE FOR LIGHTING SYSTEMS AND 120V FOR CONTROL VOLTAGE. REFER TO MANUFACTURER'S DETAILS FOR ADDITIONAL REQUIREMENTS.
VDC	VDC POWER SUPPLY FOR 24V FIXTURES. PROVIDE WATTAGE AS INDICATED, 24VDC OUTDOOR RATED POWER SUPPLY, ENVIRONMENTAL LIGHTS HLG-XXXH-24 OR EQUAL. PROVIDE DMX DECODER PER POWER SUPPLY, ENVIRONMENTAL LIGHTS STUDIO 4-CHANNEL DMX DECODER, DMX-4-5000 OR EQUAL.
DMX	DMX CONTROLLER. PROVIDE MINIMUM OF 3 FOR DMX CONTROL OF COLOR CHANGING FIXTURES, ENVIRONMENTAL LIGHTS SLESA-U9 OR EQUAL. PROVIDE DMX SPLITTER AS REQUIRED FOR CONNECTION OF ALL DMX SYSTEMS, ENVIRONMENTAL LIGHTS DSPLIT-5P OR EQUAL.
SIGN	ILLUMINATED SIGN. REFER TO DETAILS.
LCP	LIGHTING CONTROL PANEL. ACUITY LIGHTING ILIGHT ECLYPSE SYSTEM WITH ENCLOSURE CABINET, GRAPHIC INTERFACE, AND POWER SUPPLY; PROVIDE WITH NETWORK CONNECTIONS FOR REMOTE OPERATION
LNS	LIGHTING NETWORK SWITCH. ACUITY LIGHTING NLIGHT SYSTEM.

POWER SYMBOL LIST

- FLUSH MOUNTED DUPLEX RECEPTACLE +15" AFF UON (TO BOTTOM MANUFACTURED BY HUBBELL (OR EQUIVALENT) MODEL HBL5362W; GROUND FAULT INTERRUPT MODEL GFR53625GW; PROVIDE WITH AND FACEPLATE AS REQUIRED. WP=GFI WITH WEATHERPROOF IN-L RED-DOT #2CKU OR EQUAL; TR=TAMPER RESISTANT MODEL HBL5:
- 1/2 SWITCHED FLUSH MOUNTED DUPLEX RECEPTACLE +15" AFF UON OF BOX) WITH PERMANENT MARKING, AS MANUFACTURED BY HUBB EQUIVALENT) MODEL HBL5362C1WHI; TR=TAMPER RESISTANT MODE HBL5362C1WHITR.
- FLUSH MOUNTED DOUBLE DUPLEX RECEPTACLE +15" AFF VON (TO E BOX), AS MANUFACTURED BY HUBBELL (OR EQUIVALENT) (2) MODE GFI=W/ GROUND FAULT INTERRUPT MODEL GFR5362SGW; PROVIDE BACKBOX AND FACEPLATE AS REQUIRED. WP=GFI WITH WEATHER COVER, RED-DOT #2CKU OR EQUAL.
- Ð SURFACE MOUNTED DUPLEX RECEPTACLE, AS MANUFACTURED BY EQUIVALENT) MODEL HBL5362W; GFI=W/ GROUND FAULT INTERRUP GFR5362SGW; PROVIDE WITH 4S BACKBOX AND FACEPLATE AS F WP=GFI WITH WEATHERPROOF IN-USE COVER, RED-DOT #2CKU OR
- \blacksquare SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE, AS MANUFACT HUBBELL (OR EQUIVALENT) MODEL HBL5362W; GFI=W/ GROUND FA INTERRUPT MODEL GFR5362SGW; PROVIDE WITH 4S BACKBOX ANI AS REQUIRED.
- FLUSH MOUNTED DUPLEX RECEPTACLE ABOVE COUNTER (+48" AFF BOX MAX OR 6" ABOVE COUNTER TBV), AS MANUFACTURED BY H EQUIVALENT) MODEL HBL5362W; GFI=W/ GROUND FAULT INTERRUP GFR5362SGW; PROVIDE WITH 4S BACKBOX AND FACEPLATE AS F TR=TAMPER RESISTANT HBL5362WTR.
- ${\mathscr D}_{\mathcal A}$ ceiling mounted duplex receptacle, as manufactured by EQUIVALENT) MODEL HBL5362W ; PROVIDE 4S BACKBOX SECURED STRUCTURE AND FACEPLATE AS REQUIRED.
- FLUSH MOUNTED FLOOR OUTLET, 1-GANG, AS MANUFACTURED BY H F EQUIVALENT) MODEL BA2527 BOX WITH SA3925 COVER AND HBLE DEVICE. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- FLUSH WALL MOUNTED 250V, 30A (UON) RECEPTACLE NEMA 6-30R MANUFACTURED BY HUBBELL (OR EQUAVALENT) MODEL HBL9330 ; BACKBOX SECURED AS REQUIRED AND SS COVERPLATE; TL=TWIS MODEL HBL2410.
- S SWITCH FLUSH WALL MOUNTED AT +48" AFF TO TOP OF BOX; REFE DETAILS FOR ADDITIONAL REQUIREMENTS ..
- S_{M} MOTOR RATED DISCONNECT SWITCH, MINIMUM 250V, 20A RATING L MANUFACTURED BY HUBBELL (OR EQUIVALENT) MODEL HBL1372D (WP=WEATHERPROOF MODEL HBL13R12D (NEMA 3R).
- INV EMERGENCY LIGHTING INVERTER UNIT. SIZE AS NOTED.
- \bigotimes FLUSH INGROUND QUADPLEX RECEPTACLE EXTERIOR, AS MANUFAC LEGRAND MODEL XB814C520GY, 2-GANG WEATHERPROOF FLOOR 20-AMP RECEPTACLES, AND WEATHERPROOF IN-USE COVERPLATE
- FLUSH FLOOR BOX, 4-GANG BOX AS MANUFACTURED BY LEGRAND WITH (2) 20-AMP RECEPTACLES, LOW-VOLTAGE DEVICE SPACE, AN COVERPLATE MATCHING FINISH FLOOR TYPE.
- (F) SPLASH PAD EQUIPMENT, FBO, CONNECTED BY EC

COMMUNICATION SYMBOL LIST

- SECURITY CAMERA, VIVOTEK, OWNER PROVIDED CONTRACTOR I MOUNT ON SPORTS LIGHT POLE PER SPORTS POLE MANUFACTURE MOUNTED AT +14' TO BE VERIFIED WITH OWNER. ROUTE CAT6 CAE APPLICABLE POE EXTENDER UNITS) TO NVR LOCATION AS REQUIR
- DATA OUTLET, 45 BACKBOX WITH RJ45 CONNECTOR AND FACEPL #D DENOTES QUANTITY OF JACKS/CABLES, +15" TO BOTTOM OF BACK PROVIDE 3/4" CONDUIT AND CATE CABLE TO NETWORK ROOM / CABINET & TERMINATE IN PATCH PANEL AS REQUIRED.
- CCTV NETWORK VIDEO RECORDER FOR CAMERA SYSTEM, VIVOTEK, OWN NVR PROVIDED CONTRACTOR INSTALLED PROVIDED CONTRACTOR INSTALLED.

		ELECTRICAL	SYM	BOL LIST	_			
OF BOX), AS	DP101	PANEL DESIGNATION.						
N; GFI=W/ 45 BACKBOX	Ν	CONTROL PANEL AS NOTED.						
-USE COVER, 5362WTR.		TELEPHONE BACKBOARD AS NOT	ΈD.					
	PB	PULLBOX, SIZE AS NOTED.						
BELL (OR DEL	SB	LOM-VOLTAGE PULLBOX, SIZE AS	NOTED.					
	\$	NOTE DESIGNATION SAME SHEET.						s
PEL HBL5362W;		REVISIONS.					\geq	
E MITH 45 RPROOF IN-USE	4143	ROOM IDENTIFICATION.				G	53	Ц С И С И С И С И С И С И С И С И С И С
Y HUBBELL (OR		CONDUIT STUB & CAPPED.					20	T I N G
PT MODEL REQUIRED. R EQUAL.	+	GROUND TO APPROVED GROUND	NG SYSTEM	1.				, 1 Ú S N
TURED BY		CONDUIT AND CONDUCTORS - 3/2 EQUIPMENT GROUND UNLESS OTHE	1" MIN CONI RMISE NOT	DUIT WITH #12 AMG CONDUCTORS \$ ED.				00
ND FACEPLATE		UNDERGROUND CONDUIT AS NOTE	D.			<		
	•	STUB-DOWN SYMBOL FOR CONDU	IT - LOCAT	ION TO BE VERIFIED.		<	$\langle\langle$	1)
HUBBELL (OR PT MODEL	PNL CIRC #9	HOMERUN TO RESPECTIVE PANEL CONDUIT, #12 AWG UON WITH SEP≁	& CIRCUIT ARATE NEUI	NUMBER AS NOTED. MINIMUM 3/4" "RALS PER CIRCUIT				>~
REQUIRED.	J	JUNCTION BOX						
HUBBELL (OR D TO	DOA (EX) PANEL "OL"	1-LINE SYMBOL - PANELBOARD /	NITH CIRCUI	T BREAKERS AS SHOWN.		XX		
HUBBELL (OR		1-LINE SYMBOL - TRANSFORMER	RATED AS	SHOWN.		PAI		
_5362M		CABLE TRAY FOR LOW-VOLTAGE SPECIFICATIONS.	E CABLING.	REFER TO DETAILS AND		VAY		လု
R (UON) AS ; PROVIDE 4S		DISCONNECT SWITCH, SIZE AS NO	TED, WP=WE	EATHERPROOF.		Ĩ		BOL
ST-LOCK		ELECTRICAL PANEL BOARD.				CA.		ΥM
ER TO		ELECTRICAL DISTRIBUTION BOAR	D.				TITLE:	N L
	M	ELECTRICAL SERVICE METER.					SHEET	CA
UON; AS (NEMA 1),	 [T]	TRANSFORMER AS NOTED.						TR
	ABBREVI	ATIONS				DR		Ю
ACTURED BY R BOX WITH (2) TE. ND OR EQUAL, AND IN-USE	AFF A AWG W CO C CU C CW C DEF D EC E EG E EX E FA F FBO F	BOVE FINISHED FLOOR IIRE GAUGE (AMERICAN) ONDUIT ONLY OPPER OLD WATER PUAL ELEMENT FUSE LECTRICAL CONTRACTOR QUIPMENT GROUND XISTING TO REMAIN IRE ALARM URNISHED BY OTHERS	J NIC UON OC OSR PB R TB UL VL VL	JUNCTION BOX NOT IN CONTRACT UNLESS OTHERWISE NOTED ON CENTER ON-SITE REPRESENTATIVE PULL BOX TO BE REMOVED TO BE REMOVED TO BE VERIFIED UNDERWRITERS LABORATORIES VERIFY LOCATION WEATHERPROOF				ш
r l	GEC G	ROUND ELECTRODE CONDUCTOR		EXISTING TO BE RELOCATED				
NGTALLED. ER, TYPICALLY ABLE (AND IRED.						REVISIONS		
PLATE, NUMBER CKBOX. DATA						NO.		
WNER								
						NOTED 220-013	SE	8/16/2021

131 s. dunworth st. visalia, ca 93292 b: 559.733.2671 x101 stham@rse-eng.cor

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SHEET NO. E0.03

PANEL NAME: MSB VOLTASE: 277 J80 3. 600 BUS RATING: 6000 ACCENTING: 5000 CCT # CB POLE CIRCUIT DESCRIPTION OA OB OC OA OB CCT II 225 ANALE: 'N1' 9865 13.2 2055 29415 2775 - AALE: 'N1' 9865 13.2 2055 29415 2775 - AALE: 'N1' 9865 13.2 0 2055 29415 2775 - 201 1 13.2 8105 0 2055 29415 2775 - 201 1 13.2 8105 0 2055 29415 2775 - 201 1 1000 1000 0 0 0 0 0 0 0 0 0 0 0 0	PARLENER: H DUR BURGENERS BURGENERS SARCE STATUS BURGENERS BU	PANEL NAME: H2 VOLTAGE: 277 480 3\$\u03c6, 4W MAIN: 225A BUS RATING: 225A AIC BRACING: 14000A 1 40 PANEL 'LS2' VIA 'TX-LS2' 3 2 5 SPACE 9 40 PANEL 'LS2' VIA 'TX-LS3' 11 2 5 13 125 PANEL 'LS3' VIA 'TX-LS3' 11 2 13 125 PANEL 'P2' VIA 'TX-P2' 15 17 3 19 20 SPARE 21 23 3 25 20 1 SPARE 27 20 SPARE 33 20 SPARE 33 20 SPARE 35 20 SPACE 39 SPACE 41 <td< th=""></td<>
<text></text>	<text></text>	PANEL LS1 VOLTAGE: 120/240 1¢, 3W MAIN: 60A BUS RATING: 1000A CKT # CB POLE CIRCUIT DESCRIPTION 120 PUMP 1

FED FROM 'MSB'

			ELEC LO	AD (VA)						
	ФА	ФВ	ФС	ФА	ФВ	ФС	CIRCUIT DESCRIPTION	CB	POLE	CKT #
	3320			2659			LIGHTS - SOCCER S1	30	$\overline{}$	2
		3120			2659					4
						2659			3	6
				2659			LIGHTS - SOCCER S2	30		8
		3320			2659					10
			3120			2659			3	12
	7680			2659			LIGHTS - SOCCER S3	30		14
		7020			2659					16
			5640			2659			3	18
				2659			LIGHTS - SOCCER S4	30	_	20
					2659					22
						2659			3	24
				1773			LIGHTS - BMX P1 (FUTURE)	30		26
					1773					28
						1773			3	30
				1773			LIGHTS - BMX P2 (FUTURE)	30		32
					1773					34
						1773			3	36
				1773			LIGHTS - BMX P3 (FUTURE)	30		38
					1773					40
						1773			3	42
	11000	13460	8760	15955	15955	15955				
JBTOTAL VA PER PHASE:	26955	29415	24715				_			
OTAL AMPS PER PHASE:	97	106	89				_			
*LML:		VA			NOTES: * L	ARGEST MOT	OR LOAD FROM HVAC UNIT			
**LCL:	11966	VA			**	INCLUDES ALI	L NEW LIGHTING LOADS			
TOTAL VOLT-AMPS:	93052	VA								
TOTAL AMPS:	112	Α								

WEATHERPROOF FED FROM 'H1' VIA 'TX-LS1'

		ELEC LO	AD (VA)					
	ФА	ФВ	ФА	ФВ	CIRCUIT DESCRIPTION	СВ	POLE	CKT #
	1380		200		LIGHTS	20	1	2
		1380		360	RECP-GFI	20	1	4
	1380		360		CONTROLS	20	1	6
		1380			SPARE	20	1	8
					SPARE	20	1	10
					SPARE	20	1	12
					SPACE			14
					SPACE			16
					SPACE			18
					SPACE			20
					SPACE			22
					SPACE			24
	2760	2760	560	360				
OTAL PER PHASE:	3320	3120						
*LML:	690	VA						
**LCL:	50	VA						
TAL VOLT-AMPS:	7180	VA						
50% REDUCTION:	0	VA						
TOTAL AMPS:	30	А						

PANEL KEY Н2 MSB Η1 P1 P2 LS1 LS2 LS3

EASTHAM ENGINEERING	
131 s. dunworth st. visalia, ca 93292 p: 559.733.2671 x101 seastham@rse-eng.com www.castham-eng.com DATE SIGNED: 8/16/21 ★ CTR IC	

3-16-21 ISSUE FOR

8-16-21 ISSUE FOR BID

SHEET NO.	
E-1	.03

1. C E F	CONTRACTOR SHALL REFER TO RESPECTIVE CIVIL SITE AND DETAIL PLANS ILLUSTRATING REQUIREMENTS FOR NEW ACILITY AND INSTALL ELECTRICAL ITEMS ACCORDINGLY.	
KE	YNOTES	Z Z Z Z Z Z Z Z Z Z
1	FURNISH AND INSTALL 3/4" CONDUIT FROM CONTROLLER TO EACH SPLASH PAD COMPONENT. REFER TO SPLASH PAD PLANS ON CD-6.01 - CD-6.03 FOR ADDITIONAL REQUIREMENTS.	
2	SPLASH PAD COMPONENTS PROVIDED BY INSTALLING CONTRACTOR. COORDINATE EXACT LOCATION AND ROUTE CONDUIT AS REQUIRED.	CONSULT
З	REFER TO DETAIL 8/E3.01 FOR MOUNTING REQUIREMENTS OF PANEL AND CABINET.	
4	REFER TO DETAIL 6/E3.01 FOR MOUNTING REQUIREMENTS OF TRANSFORMER.	
		X
		Y PA
		TEWA PLAN
		PLANS FOR: NGA TITLE: SITE
		CORA SORA SHEET
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		0-013 6/2021
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	EASTHAM ENGINEERING 131 s. dunworth st. visalia, ca 93292 p: 559.733.2671 x101	SHEET NO.
	seastham@rse-eng.com www.eastham-eng.com No. L−18/86 A DATE SIGNED: 8/16/21 CECTRICE OF CALIFORM	E-1.04

GE	NERAL NOTES	
1. c I F	CONTRACTOR SHALL REFER TO RESPECTIVE CIVIL SITE AND DETAIL PLANS ILLUSTRATING REQUIREMENTS FOR NEW ACILITY AND INSTALL ELECTRICAL ITEMS ACCORDINGLY.	
κe	YNOTES	
	COORDINATE WITH MONUMENT INSTALLER FOR EXACT LOCATION OF MONUMENT LIGHTS. PROVIDE WEATHER PROOF JUNCTION BOX AS REQUIRED FOR ROUTING OF CONDUIT / CONDUCTORS.	
2	COORDINATE CONTROL CABLE REQUIREMENTS WITH MONUMENT INSTALLER AND PROVIDE AS REQUIRED.	CONSU
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	IST S. dunworth st. visalia, ca 93292 p: 559.733.2671 x101 <u>seastham@rse-eng.com</u> www.eastham-eng.com DATE SIGNED: 8/16/21 ★ OF CAL IFORM	SHEET NO. E-1.05

NRCC-LTO-E	(Created 11/19)													CALIFORNIA E	ENERGY COM	MISSION	
CERTIFICA	TE OF COMPLI	ANCE						110.0 6120.0	6420.2	5440 7	15444 0/1					NRC	C-LTO
Project Na	ment is used to me: CITY O	F CORCO	RAN	A GATEWAY	PAR	K		<u>9110.9, 9130.0</u>	<u>9130.2</u> , j	Report	7 <u>9141.0(D)</u> 2 Page:	<u>L</u> Jor Out	aoor ngnung	scopes usin	g the prest	Pag	e 1 of
Project Ad	ldress: ORANG	GE & OTIS	S AV	/ENUE						Date Pr	epared:						3/15/2
										•							6
01 Proi	AL INFORMA					0	CORAN		04 T	atal Illumin	atod Hardee	ano Aroz	(f+2)		76 187		
02 Climate Zone												(10)		,0,107			
03 Outdoor Lighting Zone per <u>Title 24, Part 1 §10</u>				10-1	14 or as de	signated	by Authority	laving Ju	risdiction (AHJ):							
LZ-0: Very Low - Undeveloped Parkland LZ					LZ-2:	: Moderate	- Rural /	reas	LZ-	4: High - M	ust be revie	wed by (A Energy Co	mmission fo	r Approval		
LZ-1:	Low - Develope	ed Parkla	nd	\checkmark	LZ-3:	: Moderatel	y High -	Urban Areas									
B. PROJE	CT SCOPE																2
Table Inst	ructions: Inclue	de any ou	utdo	or lighting s	ystei	ms that are	within t	he scope of th	e permit d	application	and are den	nonstrat	ng complian	ce using the	prescriptiv	e path	
outlined ii	n <u>§140.7</u> or <u>§14</u>	41.0(b)2L	for	alterations.													
My projec	ct consists of:	01									02						
	Lighting System	01 m				Must Com	lv with	Allowances fro	m 8140 7	7	02						
Alter	ed Lighting System	stem				ls vour alte	ration i	creasing the o	onnected	 I lighting lo	ad (Watts)?			Yes	C	No	
		03						04						05		/	
% (of Existing Lum	inaires B	Being	g Altered ¹		Sum Tota	l of Lur	ninaires Being	Added or	Altered			Calculat	ion Method			
¹ FOOTNO	TES: % of Exist	ing Lumi	inair	es Being Alt	ered	= (Sum Tot	al of Lur	ninaires Being	Added or	Altered / E	xisting Lumi	inaires w	ithin the Sco	pe of the Per	mit Applic	ation) x	100
C. COMP	LIANCE RESU	LTS			_												2
Table Inst	ructions: If any	v cell on t	this	table says "l	DOES		PLY" or	COMPLIES wit	h Exceptio	onal Condit	tions" refer t	o Table). for guidan	ce.			-
	Calculati	on of Tot	tal A	Allowed Ligh	ting	Power (Wa	tts) <u>§14</u>	<u>0.7</u> or <u>§141.0(</u>	b)2L		-		Complia	nce Results			
01	0)2		03		04		05	0	6	07		08	3	(09	
Genera	al P	er		Sales		Ornamant		Per Specific	Exis	ting							
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<u>§140.7(</u>	<u>\$140</u>	. <u>/(a)2</u>		<u>9140.7(d)2</u>				<u>9140.7(d)2</u>	9141.(<u>J(b)ZL</u>	(Watts	>)	(Wa	((5)			
(See Tabl	e I) (See T	able J)	(See Table K		(See Table	L) (1	ee Table M)	(See Ta	ible N)			(See Ta	ble F)			
3,350.6	6 +		+		+			Continues (See	R Table C fr	=	3,350.6	56	≥ 1,1 ⁴		CON	IPLIES	
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NRCC-LTO-E (Created 11/19)		CALIFORNIA ENERGY COMMISSI19
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: CITY OF CORCORAN GATEWAY PARK	Report Page:	Page 2 of 7
Project Address: ORANGE & OTIS AVENUE	Date Prepared:	3/15/21
D. EXCEPTIONAL CONDITIONS		?
This table is auto-filled with uneditable comments because of selections made or dat	ta entered in tables throughout the form.	
S2: Sports lighting - Point-by-point photometry provided in plans by manufacturer S3: Sports lighting - Point-by-point photometry provided in plans by manufacturer S4: Sports lighting - Point-by-point photometry provided in plans by manufacturer Table H. Outdoor Lighting Controls Permit Applicant Notes: PAVILION AREA: EXCEPTION 1 to Section 130.2(c)3 - Fixture less than 40W Total Hardscape Area in Table A does not match the areas entered in Table I. Please	showing cutoff of 0 fc at property line showing cutoff of 0 fc at property line showing cutoff of 0 fc at property line e review for compliance.	
		Ø
This table includes remarks made by the permit applicant to the Authority Having Ju	risdiction.	
FIXTURE TYPE 'WL1' IS SELF-CONTAINED PHOTOVOLTAIC / BATTERY LIGHT, NOT COI	NNECTED TO ELECTRICAL POWER	

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with <u>\$140.7</u> (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per <u>\$141.0(b)2L</u> (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed	Wattage:														
01	02		03	04	05	06	07	08	09	1	0				
Name or Item Tag	or ag Complete Luminaire Description		Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140 7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output	Field In:	spector				
									iuiiiiidii es		<u>3140.7 (u)</u>		<u>§130.2(b)</u> ⁴	Pass	Fail
CL1	LED LINEAR PAVILION	🗌 Linear	33	Mfr. Spec ¹	13	New		429	NA: <6,200 lumens						
FL1	LED FLOOD	🗌 Linear	47	Mfr. Spec ¹	4	New	\checkmark		NA: <6,200 lumens						
FL2	LED FLOOD	🗌 Linear	19	Mfr. Spec ¹	2	New	\checkmark		NA: <6,200 lumens						
PL1	PARKING LED POLE	🗌 Linear	89	Mfr. Spec ¹	4	New		356	Yes						
PL2	DUAL LED POLE	🗌 Linear	178	Mfr. Spec ¹	2	New		356	Yes						
S1	LED SPORTS LIGHT	🗌 Linear	7,250	Mfr. Spec ¹	1	New	\checkmark		Exempt*						
Table Cont	tinued														

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

November 2019

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

RTIFICATE OF COMPLIANCE								NRCC-LTO-
oject Name: CITY OF CORCO	RAN GATEWAY PAR	к		Report	Page:			Page 5 of
oject Address: ORANGE & OTIS	S AVENUE			Date Pr	epared:			3/15/2
			1	1	1		I	
01		02		03		04		05
		Shut-Off		Auto-Schedule		Motion Ser	nsor	Field Inspector
Area Description		<u>§130.2(c)1</u>		<u>§130.2(c)2</u>		<u>§130.2(c</u>)	<u>)3</u>	Dass Fail
IOTEC: Controls with a * require				is a shieved				Pass Fall
: Not permitted by health & saj	fety to be turned off	; EXCEPTION 1 to	§130.2(c).	is achieved.				
PAVILION AREA	EXCEPTION 1	to Section 130.2(c)3 - Fixture less th	an 40W				
· · · · · · · · · · · · · · · · · · ·								
LIGHTING POWER ALLOWA	NCE (per <u>§140.7</u>)							
able Instructions: Please comple	te this table for area	as using the			01	L		
lowance calculations per <u>§140.</u>	7. General Hardscap or lost it" Allowanc	be Allowance	Gonoral		"Use it or lose i	t" Allowances (se	lect all that apply)	
able 140.7-B. Indicate which allo	owances are beina u	sed to	/ Hardscape					
and sections for user input. L	uminaires that quali	fy for one of	Allowance	Per Applicati	ion Sales Fr	rontage 🗌 O	rnamental	Per Specific Area
e "Use it or lose it" allowances	shall not qualify for	another "Use						
or lose it" allowance.			Table I (below)	Table J	Table	K Ta	able L	Table M
alculated General Hardscape Lig	hting Power Allowa	nce per <u>Table 14</u>	<u>0.7-A</u> (LZ 2 & 3)			1	-	1
02	03	04	05	06	07	08	09	10
		Area \	Wattage Allowance	(AWA)	Linear	Wattage Allowan	ice (LWA)	Total General
Area Description	Surface Type	Illuminated	Allowed Density	Area Allowance	Perimeter	Allowed Density	y Linear Allowance	AWA + LWA
	Concroto	Area (IL ⁻)	(\\/\[-)			(\v/11)		1 097 44
	Concrete	20,128	0.03	1 016 82	2 2/1	0.4	896.4	1,087.44
	concrete	33,834	0.05	1,010.82	2,271	0.4	850.4	1,515.22
					Initial Wattag	e Allowance for	Entire Site (Watts)	: 350
					Total Ger	neral Hardscape /	Allowance (Watts)	: 3.350.66
								,
LIGHTING ALLOWANCE: PER	R APPLICATION							E
nis Section Does Not Apply								
LIGHTING ALLOWANCE: SA	LES FRONTAGE							

oject Addı	ress: ORANG		AVEN					Date Prepared	:					3/15/2
01		02			03	04	05	06	07	08	09		1	LO
ame or em Tag	Complete Lu	uminaire D)escr	iption	Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Re 6,200 initia outpu 8130 2	eq. ≥ I lumen ut (b) ⁴	Field In	spector
S2 S3	LED SPORTS			Linear Linear	7,250	Mfr. Spec ¹	1	New	 ✓ ✓ 		Exemp Exemp	ot*		
S4 WL1	LED SPORTS			Linear	8,430	Mfr. Spec ¹	1	New			Exemp	ot*		
	500 11 220			Linear						0				
				Linear				Total Desig	ned Watts	0 : 1,141				
S2 S S3 S S4 S OOTNOTH For linear minaires. Felect "Ne xisting to ing remov	Sports lighting Sports lighting ES: Authority l luminaires, w w for new lu Remain" for e ved and reinst ce with mando	: - Point-by : - Point-by Having Jun attage sho minaires i existing lun talled as p atory cuto, ENTS (BU	/-poi /-poi /-poi risdic ould n a r minc art c ff rec JG)	int photo int photo int photo ction may be indico new outd aires with of the pro quiremer	ometry provide ometry provide ometry provide wask for Lumin ated as W/If in loor lighting pr hin the project oject scope hts is required	ed in plans by man ed in plans by man ed in plans by man paire cut sheets to stead of Watts/lu roject or for addea scope that are no for luminaires wit	hufacturer sho hufacturer sho confirm watt minaire. Tota d luminaires in t being altere h initial lumer	wing cutoff of 0 fc at owing cutoff of 0 fc at owing cutoff of 0 fc at age used for complia I linear feet for the lu an alteration. Select d and are remaining.	property Ii property Ii property Ii nce per <u>§13</u> minaire sho t "Altered" Select "Exi ss exempted	ne ne 0.0(c) ould be indicated for replacement sting Reinstalled d by <u>\$130.2(b)</u> .	l in column 0 luminaires iı l" for existin <u>ı</u>	וז insteac ז an alter ן lumina	l of nui ation. res wh	mber of Select ich are
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Compliance CUTOFF able Instru able Instru able Contin able Contin A Building E ATE OF CALIF Utdoor ICC-LTO-E (C RTIFICATE oject Nam oject Addu his Section	Energy Efficience FORNIA FORNI	ANCE CORCORA E & OTIS A ANCE	able ection s - 20 AN G AVEN	for fixtu n 5.106.8 019 Nonre ATEWAY IUE ENTAL	res of ≥ 6,200 3. esidential Compl	initial luminaire lu	energy.ca.gov/	ed on Table F as need title24/2019standards Report Page: Date Prepared	ling to com	ply with Cutoff R	CALIFORNIA EN	ERGY COM	Novemt	ber 2019
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n	Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per <u>§140.7(a)</u>	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output δ120.2(b) ⁴	Field Ins	spector
							<u>8130.2(b)</u>	Fass	Faii
ar	7,250	Mfr. Spec'	1	New	 ✓ 		Exempt*		
ar	8,430	Mfr. Spec ¹	1	New	\checkmark		Exempt*		
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131 s. dunworth st. visalia, ca 93292 p: 559.733.2671 x101 seastham@rse-eng.com www.eastham-eng.com

E-18786 DATE SIGNED: 8/16/21

pject Name: CITY OF CORCC			CALIFORNIA ENERGY C			NRCC-ELC-E (Created 11/19)
ect Address: ORANGE & OTI	DRAN GATEWAY PARK S AVENUE	Report Page: Date Prepared:		Page 7 of 7 3/15/21	This document is used to demonstrate compliance with mandatory requirements in <u>\$130.5</u> for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per <u>\$141.0(a)</u> or	Project Name: CITY OF CORCOF Project Address: ORANGE & OTIS
UMENTATION AUTHOR'	S DECLARATION STATEMENT			?	§141.0(b)2P for alterations. Project Name: CITY OF CORCORAN GATEWAY PARK Report Page: Page 1 of 5	D. EXCEPTIONAL CONDITIONS
fy that this Certificate of Co	ompliance documentation is accurate and comp	plete	11 an		Project Address: ORANGE & OTIS AVENUE Date Prepared: 3/15/21	This table is auto-filled with unedi
nentation Author Name:	STEVE EASTHAM	Documentation Author Signa	ature: Augury han		A. GENERAL INFORMATION	Table B indicates the project is ex
any: RO	SE SING EASTHAM AND ASSOCIATES	Signature Date: 4/14	/21		01 Project Location (city) CORCORAN 02 Occupancy Types Within Project: Office Patail Warehouse Hetel/ Matel School	indicates instantaneous kW dema
SS:	131 S. DUNWORTH ST.	CEA/ HERS Certification Ident	tification (if applicable):		Parking Garage High-Rise Residential Relocatable Healthcare Facilities Other (Write In): CITY PARK	E. ADDITIONAL REMARKS
ate/Zip:	VISALIA CA 93292	Phone:	559.733.2671		B. PROJECT SCOPE	This table includes remarks made
y the following under per	nalty of perjury, under the laws of the State of	f California:			Table Instructions: Include any electrical service systems that are within the scope of the permit application.	
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onsible Designer Name:	STEVE EASTHAM	Responsible Designer Signatu	ure: June of h		MSB New electrical service equipment & meter 499 Image: Mail and the service equipment & meter	
any: RC	DSE SING EASTHAM AND ASSOCIATES	Date Signed: 4/14/	/21			Load Type per <u>Table 1</u>
SS:	131 S. DUNWORTH ST.	License:	E-18786		¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required. ² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period	
State/Zip:	VISALIA CA 93292	Phone:	559.733.2671		Applicable if the utility company is providing a metering system that malcates instantaneous kw demand and kwn for a utility-defined period.	Lighting including exit, egres
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ו §130.5(ג h for a u/	a) Service Electrical Metering requirement utility-definied period.	ts because the utility	company has provided the project a meteri	ng system	that
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entirely n e load typ	ew or complete replacement electrical pov pes included for each service. Any load typ	wer distribution syste pes that are not inclue	ms to demonstrate compliance with <u>§130.5</u> ded in the service do not need to be shown.	' <u>b)</u> . Using	the
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	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method ²	Location of Requirements in Construction Documents	Field In	spector Fail
rior	All lighting disaggregated by floor, type or area	Method 3	E0.04		

Method 3

E0.04

November 2019

r*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

All plug load separated by floor, type or area Groups of plug loads exceeding 25

kVA connected load in an area less than 5000 sf

CALIFORNIA ENERGY COMMIS NRCC-ELC-E CITY OF CORCORAN GATEWAY PARK Report Page: Page 5 of 5 Date Prepared: 3/15/21 ON AUTHOR'S DECLARATION STATEMENT Certificate of Compliance documentation is accurate and complete. Julith STEVE EASTHAM Documentation Author Signature: ROSE SING EASTHAM AND ASSOCIATES Signature Date: 3/16/21 131 S. DUNWORTH ST. CEA/ HERS Certification Identification (if applicable): VISALIA CA 93292 559.733.2671 Phone: RSON'S DECLARATION STATEMENT wing under penalty of perjury, under the laws of the State of California: on provided on this Certificate of Compliance is true and correct.

nder Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of

atures and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this

Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. esign features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable cuments, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available ment agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the n the builder provides to the building owner at occupancy.

STEVE EASTHAM	Responsible Desig	ner Signature:	Stutionthing	
ROSE SING EASTHAM AND ASSOCIATES	Date Signed:	3/16/21		
131 S. DUNWORTH ST.	License:		E-18786	
VISALIA CA 93292	Phone:		559.733.2671	

ding Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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EASTHAM ENGINEERING

131 s. dunworth st. visalia, ca 93292 p: 559.733.2671 x101 seastham@rse-eng.com www.eastham-eng.com

DATE SIGNED: 8/16/21

SHEET NO.	
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KEYNOTES

CONTRACTOR SHALL REFER TO RESPECTIVE ARCHITECTURAL FLOOR AND DETAIL PLANS ILLUSTRATING REQUIREMENTS FOR NEW FACILITY AND INSTALL ELECTRICAL ITEMS ACCORDINGLY

EASTHAM ENGINEERIN No. É-18786 🕻 🔪 DATE SIGNED: 8/16/21

CONTRACTOR SHALL REFER TO RESPECTIVE CIVIL FLOOR AND DETAIL PLANS ILLUSTRATING REQUIREMENTS FOR NEW FACILITY AND INSTALL ELECTRICAL ITEMS ACCORDINGLY.

KEYNOTES

COORDINATE WITH CITY PERSONNEL FOR NETWORK SETTINGS AND ISP REQUIREMENTS. PROVIDE ALL COMPONENTS NECESSARY FOR OPERATION OF NETWORK.

- $\binom{2}{2}$ PROVIDE CATE CABLES BETWEEN NETWORK DEVICES WITH RJ-45 TERMINATIONS AS REQUIRED.
- <з> REFER TO DETAIL 5 / E3.02 FOR ADDITIONAL CABINET REQUIREMENTS.
- PROVIDE QUANTITY FOR EACH CIRCUIT CONTROLLED. REFER TO PLANS AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- LIGHTING CIRCUITS nLIGHT nPP16 RECEPTACLE CIRCUITS - nLIGHT nPP20 PL
- < 5 > REFER TO PANEL SCHEDULES FOR IDENTIFICATION AND QUANTITY OF CIRCUITS CONTROLLED.

MIKROTIK 4011 SERIES 10-PORT W/ F.O. SFP MODULE AS REQUIRED

31 s. dunworth st. visalia, ca 93292 b: 559.733.2671 x101 seastham@rse-eng.com www.eastham-eng.com

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