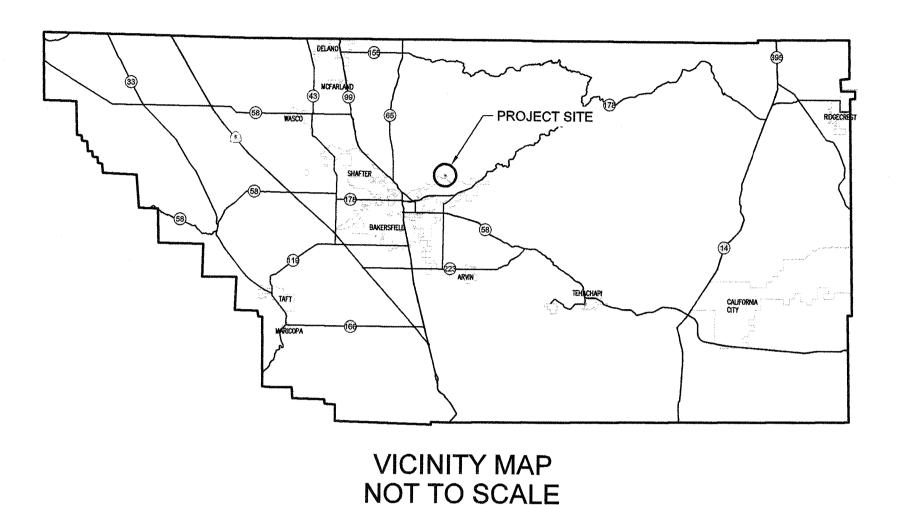
IMPROVEMENT PLANS

HART MEMORIAL PARK ADVENTURE PLAY AREA COUNTY OF KERN, CALIFORNIA



GAS

GAL

GB GPD

GPM

G۷

HC

HDPE

GAGE

GALLON

GALVANIZED

GATE VALVE

HANDICAP

INCHES INVERT

LENGTH

LEFT

LATERAL

LINEAR FEET

LIGHT POLE

JOINT POLE

GRADE BREAK

GALLONS PER DAY

INSIDE DIAMETER

GALLONS PER MINUTE

HYDRAULIC GRADE LINE

JOINT UTILITY TRENCH

HIGH DENSITY POLYETHYLENE

ABBREVIATIONS ASBESTOS CEMENT PIPE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AIR RELEASE VALVE AIR AND VACUUM (COMBINATION) VALVE AVG AVERAGE **BEGIN CURVE** BLIND FLANGE BUTTERFLY VALVE **BUREAU OF INDIAN AFFAIRS** BLDG BUILDING BM **BENCH MARK** BO **BLOW OFF** BALL VALVE CURB CAV COMBINATION AIR VALVE CATV **CABLE TELEVISION** CAST IRON CENTERLINE CLASS CL CMP **CORRUGATED METAL PIPE** CO **CLEANOUT** CONC CONCRETE CONST CONSTRUCTION CONT CONTINUOUS CATHODIC PROTECTION CPLG COUPLING CY **CUBIC YARD** DET DETAIL DIA DIAMETER DIMENSION DRIVEWAY **EXISTING** EACH **END CURVE ELEVATION EDGE OF PAVEMENT EXISTING** EG FCA **EXISTING GROUND** FLANGE COUPLING ADAPTOR FDC FIRE DEPARTMENT CONNECTION FINISH FLOOR FINISH GRADE FIRE HYDRANT FLOW LINE FIRE LINE FLANGE FINISH SURFACE FEET

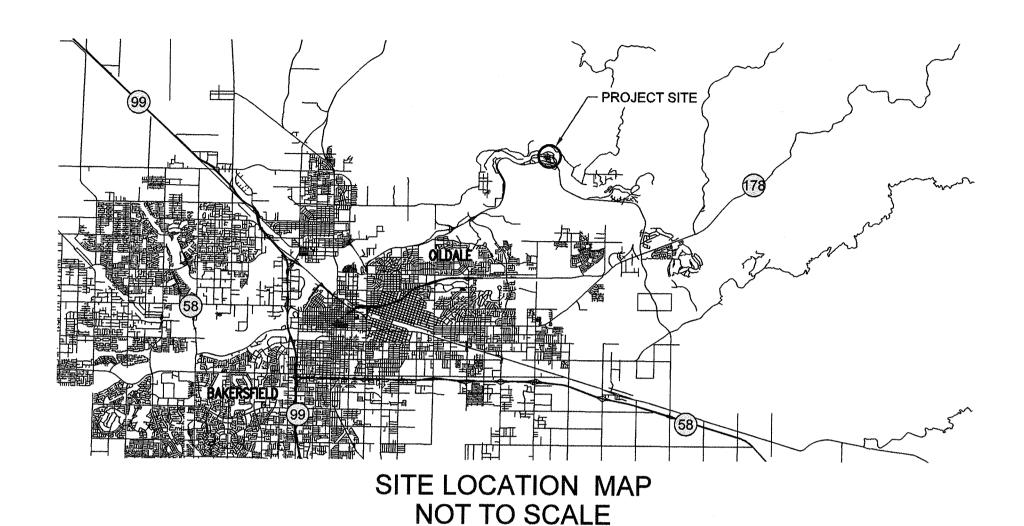
MAXIMUM MINIMUM **MISCELLANEOUS** MANHOLE NOT APPLICABLE NATIONAL GEODETIC VERTICAL DATUM NOT IN CONTRACT NOT TO SCALE OD **OUTSIDE DIAMETER** PORTLAND CEMENT CONCRETE POTHOLE (UTILITY WAS POTHOLED) PIV POST INDICATOR VALVE POINT OF CONNECTION PRESSURE REGULATING VALVE **PSF** POUND PER SQURE FOOT POUND PER SQUARE INCH POLYVINYL CHLORIDE RADIUS REINFORCED CONCRETE REINFORCED CONCRETE PIPE REQUIRED RT RIGHT RIGHT OF WAY RET WALL RETAINING WALL SANITARY SEWER SCHEDULE SD STORM DRAIN SHT SHEET **SPECIFICATIONS** SSFM SANITARY SEWER FORCE MAIN STA STATION STD **STANDARD** STL STEEL SIDEWALK **TELEPHONE** THRUST BLOCK TOP OF BANK TOP OF CURB TOP OF FOOTING TG TOP OF GRATE TP TOP OF PAVEMENT TYP **TYPICAL** TW TOP WALL UTL **COMMON TRENCH UTILITIES** VAR VARIES VC VERTICAL CURVE VIC VICTAULIC COUPLING **VERT** VERTICAL WATER WIDE FLANGE WATER LINE WATER METER WATER SERVICE

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS. NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

WATER VALVE

WET WELL

WELDED WIRE MESH



OWNER

COUNTY OF KERN **GS CONSTRUCTION SERVICES** 1115 TRUXTUN AVE BAKERSFIELD, CA 93308

COUNTY MAIN CONTACT: KERN COUNTY GENERAL SERVICES

SITE ADDRESS

HART MEMORIAL PARK LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

ASSESSOR'S PARCEL NUMBER

ENGINEER

WALLACE GROUP 612 CLARION COURT SAN LUIS OBISPO, CA 93401

GEOTECHNICAL ENGINEER

BSK ASSOCIATES 700 22ND STREET BAKERSFIELD, CA 93301

ELECTRICAL ENGINEER

GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP 2529 PROFESSIONAL PARKWAY, SUITE A SANTA MARIA, CA 93456

SCOPE OF WORK:

THE SCOPE OF WORK FOR THIS PLAN SET INCLUDES:

- CONSTRUCTION OF PLAY AREA AND SPLASH PAD FEATURES INCLUDING UNDERGROUND PUMP AND CONTROLS.
- CONSTRUCTION OF WATER RECLAMATION SYSTEM INCLUDING PUMP.
- PUMP ENCLOSURE, TANK, AND PIPING.
- CONSTRUCTION OF SEPTIC SYSTEM INCLUDING TANKS AND LEACH FIELD CONSTRUCTION OF SITE FURNISHINGS, LANDSCAPE PLANTING, AND IRRIGATION SYSTEM RETROFIT.
- CONSTRUCTION OF ELECTRICAL COMPONENTS SERVICING THE VARIOUS

ALTERNATE BID ITEMS:

THERE ARE NO ALTERNATE BID ITEMS ON THIS PROJECT.

DEFERRED APPROVAL ITEMS:

THE PRE-FABRICATED RESTROOM **BUILDING WILL BE A DEFERRED** APPROVAL ON THIS PROJECT.

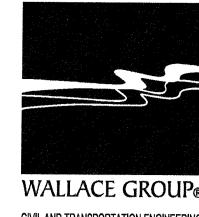
Sheet List	Table
Sheet Number	Sheet Title
C1.0	TITLE SHEET
C1.1	NOTE SHEET
C2.0	TOPOGRAPHIC SURVEY
C4.0	CONTROL POINT PLAN
C4.1	SW HORZ. CONTROL PLAN
C4.2	NE HORZ. CONTROL PLAN
C6.0	SEPTIC SYSTEM LAYOUT
C6.1	SEPTIC SYSTEM DETAILS
C6.2	SEPTIC SYSTEM DETAILS
M6.3	SPLASH PAD EFFLUENT SITE PLAN
M6.4	SPLASH PAD EFFLUENT PIPING OVERVIEW
M6.5	PUMP STATION ELEVATION
M6.6	PUMP PAD PLAN & TANK SECTION
M6.7	PUMP & PIPING DETAILS
M6.8	DETAIL SHEET
S1.0	GENERAL NOTES
S1.1	SPECIAL INSPECTION
S1.2	TYPICAL DETAILS
S2.1	SITE PLAN
S2.1	PUMP STATION PLANS
S3.1	PUMP STATION DETAILS
S3-2	PUMP STATION DETAILS
LP-1	HARDSCAPE PLAN
LD-1	HARDSCAPE DETAILS
LD-2	SPLASH PAD DETAILS
LD-3	PLAYGROUND & SPLASH PAD SURFACING
PP-1	PLANTING PLAN
PD-1	PLANTING DETAILS
IP-1	IRRIGATION PLAN
ID-1	IRR. NOTES AND CALCULATIONS
ID-2	IRRIGATION DETAILS
E-0.1	GENERAL NOTES, SYMBOLS, & ABBRIVIATIONS
E-1.0	SINGLE LINE DIAGRAM
E-1.1	ELECTRICAL SCHEDULES
E-2.0	ELECTRICAL SITE PLAN
E-3.0	ELECTRICAL DETAILS

BUILDING CODE ANALYSIS:

PUMP HOUSE: USE: SHED FOR PUMP EQUIPMENT OCCUPANCY GROUP: U TYPE OF CONSTRUCTION: V-B SPRINKLERS: NON-SPRINKLERED PROPOSED FLOOR AREA: 330 SQ. FT HEIGHT: 12 FT. STORIES: 1 **ALLOWABLE FLOOR AREA: 5,500 SQ FT** HEIGHT: 40 FT. STORIES: 1

HAZARDOUS MATERIALS:

NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED ON THIS PROJECT.



MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES 612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294

DESCRIPTION

SPOT ELEVATIONS

SEWER MANHOLE

SEWER CLEANOUT

SERVICE LATERAL

U=UTILITIES)

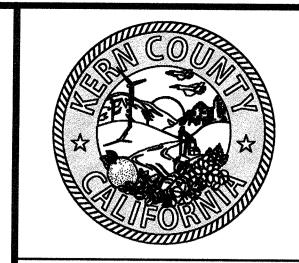
(W=WATER, G=GAS,

BARBED WIRE FENCE

CHAIN LINK FENCE

RETAINING WALL

FLOWLINE



COUNTY OF KERN GENERAL SERVICES DIVISION

OF THE COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE

BAKERSFIELD, CALIFORNIA

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA

COUNTY/BOARD OF SUPERVISORS	OCT	2	2	202
CHAIRMAN BOARD OF SUPERVISORS				DATE
RECOMMENDED FOR APPROVAL DEPARTMENT			- Constitution of the Cons	***************************************
DIRECTOR				DATE
RECOMMENDED FOR APPROVAL				

RECOMMENDED FOR APPROVAL	
GENERAL SERVICES DIVISION	
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SHEET NO. 5/29/2024 DESIGNED BY AMC HECKED BY

RAH DRAWING FILE 1650.7014-21 20MM010

> HART PARK PROP 68 IMPROVEMENTS TITLE SHEET

— —		SERVICE METER (W=WATER)
Constant Constant	8	DOUBLE SERVICE METER (W=WATER)
Torse distillation strong	_	SEWER LATERAL
+\$	•	FIRE HYDRANT
	\bigcirc	STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
AND		GATE VALVE
\Diamond	\Diamond	STREET LIGHT
Δ	&	SURVEY MONUMENT
₩PT	◆ #PT	BENCH MARK
(2.00) % _m	2.00 %	SLOPE PERCENTAGE
	11 11 11 11 11 11	ABANDON UTILITY
, 1,		EDGE OF PAVEMENT
		REDUCER / INCREASER
		WATER LINE
	SSFM	SEWER FORCE MAIN
SS		GRAVITY SEWER LINE
SD	SD	STORM DRAIN
GAS	GAS	UNDERGROUND GAS LINE
UTL	UTL	UNDERGROUND UTILITY LINE LOCATION
	ELE	UNDERGROUND ELECTRICAL LINE
CTV	CTV	UNDERGROUND CABLE TELEVISION LINE
TEL	TEL	UNDERGROUND TELEPHONE LINE
		RIGHT OF WAY
		EASEMENT
OXI		CENTERLINE

PROPOSED

101.50 FS

LEGEND

EXISTING

(100.0 FS)

Know what's below.

Call before you dig.

GENERAL NOTES

- 1. THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE COUNTY OF KERN STANDARDS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS AND WORK SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY OF KERN GS CONSTRUCTION SERVICES (COUNTY).
- 2. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED CONTRACT DOCUMENTS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- 3. CONTRACTOR AGREES THAT HE OR SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN, SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES.
- 4. INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES IS BASED ON RECORD INFORMATION AND IS SHOWN FOR INFORMATION PURPOSES ONLY. UNDERGROUND FEATURES SHOWN IN PLAN VIEW ON THE PLANS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, AND MAY NOT APPEAR IN PROFILE OR SECTIONS VIEWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 811 AND THE COUNTY OF KERN AT 661-868-3066 FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- 5. THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
- 6. THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- 7. ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", NOT A PART; OR HAVE SOME OTHER EXCLUDING NOTATION.
- 8. CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
- 9. THE ENGINEER OF WORK SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE CONFORMANCE WITH THE APPROVED PLANS. CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF WORK FOR PREPARATION OF RECORD DRAWINGS. ENGINEER WILL PREPARE SUCH RECORD DRAWINGS UPON COMPLETION OF THE WORK AND PRIOR TO COUNTY'S FINAL INSPECTION.
- 10. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- 11. ALL CONSTRUCTION SHALL BE IN COMPLETE COMPLIANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS AS SET FORTH IN THE SOILS REPORT: GEOTECHNICAL ENGINEERING REPORT PREPARED BY BSK ASSOCIATES DATED DECEMBER 12, 2022.
- 12. UTILITY LINES ARE SHOWN FOR REFERENCE ONLY. CONTACT PROJECT OWNER FOR UTILITY COMPANY PLANS.
- 13. PRIOR TO FINAL INSPECTION AND/OR CERTIFICATION OF OCCUPANCY THE COUNTY HEALTH DEPT SHALL APPROVE & INSPECT THE CROSS CONNECTION DEVICES
- 14. CONTRACTOR TO WORK WITHIN THE FOLLOWING CONSTRUCTION HOURS: MONDAY FRIDAY 7:00am 6:00pm SATURDAY 8:00am 5:00pm

PRE-CONSTRUCTION MEETING

SUNDAY

NO WORK ALLOWED

- 1. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, ENGINEER OF WORK, GEOTECHNICAL ENGINEER, PERTINENT UTILITY COMPANIES, SURVEYOR AND COUNTY STAFF.
- 2. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE INSPECTOR TO REVIEW THE SPECIAL INSPECTION REPORTING REQUIREMENTS, EROSION, & SEDIMENTATION CONTROL, SWPPP, QSP, & REPORTS REQUIRED. TO SCHEDULE THE MEETING CALL MICHAEL WOODRUFF 661-868-3066.

COUNTY GENERAL NOTES

- 1. NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY THE COUNTY OF KERN GS CONSTRUCTION SERVICES (COUNTY). THE COUNTY SHALL BE NOTIFIED AT LEAST 24-HOURS PRIOR TO STARTING OF CONSTRUCTION AND OF THE TIME LOCATION OF THE PRECONSTRUCTION CONFERENCE. ANY CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO THE COUNTY MAY BE REJECTED AND WILL BE AT THE CONTRACTOR'S AND/OR OWNER'S RISK.
- 2. FOR ANY CONSTRUCTION PERFORMED THAT IS NOT IN COMPLIANCE WITH PLANS OR PERMITS APPROVED FOR THE PROJECT THE COUNTY MAY REVOKE ALL ACTIVE PERMITS AND RECOMMEND THAT COUNTY CODE ENFORCEMENT PROVIDE A WRITTEN NOTICE OR STOP WORK ORDER IN ACCORDANCE WITH THE LAND USE ORDINANCE.
- 3. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE MOST CURRENT COUNTY'S PUBLIC IMPROVEMENT STANDARDS AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
- 4. THE PROJECT OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND/OR MAINTAINING ALL WEATHER ACCESS AT ALL TIMES TO EXISTING PROPERTIES LOCATED IN THE VICINITY OF WORK. ADDITIONALLY, THEY SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING SERVICES, INCLUDING UTILITY, GARBAGE COLLECTION, MAIL DISTRIBUTION, ETC., TO ALL EXISTING PROPERTIES LOCATED IN THE VICINITY OF WORK.
- 5. ON-SITE HAZARDS TO PUBLIC SAFETY SHALL BE SHIELDED BY CONSTRUCTION FENCING. FENCING SHALL BE MAINTAINED BY THE DEVELOPER AND CONTRACTOR UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND OCCUPIED, POTENTIAL HAZARDS HAVE BEEN MITIGATED, OR ALTERNATIVE PROTECTIVE MEASURES HAVE BEEN INSTALLED.
- 6. SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE COUNTY'S PUBLIC IMPROVEMENT STANDARDS. ALL TESTS MUST BE MADE WITHIN 15-DAYS PRIOR TO THE PLACING MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.

- 7. ROADWAY COMPACTION TESTS SHALL BE MADE ON SUBGRADE MATERIAL, AGGREGATE BASE MATERIAL, AND MATERIAL AS SPECIFIED BY THE SOILS ENGINEER. SAID TESTS SHALL BE MADE PRIOR TO THE PLACEMENT OF THE NEXT MATERIAL LIFT.
- 8. SUBGRADE MATERIAL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95-PERCENT IN THE ZONE BETWEEN FINISHED SUBGRADE ELEVATION AND A MINIMUM OF 1-FOOT BELOW. ALL MATERIAL IN FILL SECTIONS BELOW THE ZONE MENTIONED ABOVE SHALL BE COMPACTED TO 90-PERCENT RELATIVE COMPACTION.
- 9. A REGISTERED CIVIL ENGINEER SHALL CERTIFY THAT THE IMPROVEMENTS, WHEN COMPLETED, ARE IN SUBSTANTIAL COMPLIANCE WITH THE PLANS PRIOR TO THE REQUEST TO THE COUNTY FOR A FINAL INSPECTION. RECORD DRAWINGS SHALL BE PREPARED AFTER CONSTRUCTION IS COMPLETED. THE CIVIL ENGINEER CERTIFYING THE IMPROVEMENTS AND PREPARING AS-BUILT PLANS SHOULD BE PRESENT WHEN THE FINAL INSPECTION IS MADE BY THE COUNTY.
- 10. ALL UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 11. AN ENCROACHMENT PERMIT ISSUED BY THE COUNTY IS REQUIRED FOR ALL WORK DONE WITHIN THE COUNTY RIGHT-OF-WAY. THE ENCROACHMENT PERMIT MAY ESTABLISH ADDITIONAL CONSTRUCTION, UTILITY AND TRAFFIC CONTROL REQUIREMENTS.
- 12. THE ENCROACHMENT INSPECTOR, ACTING ON BEHALF OF THE COUNTY, MAY REQUIRE REVISIONS IN THE PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. ALL REVISIONS SHALL BE SUBJECT TO THE APPROVAL OF THE DEVELOPER'S ENGINEER OF WORK.
- 13. THE STRUCTURAL SECTION SHALL BE BASED ON SOILS TESTS TAKEN AT THE TIME OF CONSTRUCTION AND USING A TRAFFIC INDEX OF 8.0 FOR OLD COUNTY ROAD/GIBSON ROAD. THE STRUCTURAL SECTION SHALL BE APPROVED BY THE COUNTY PRIOR TO ROAD CONSTRUCTION.
- 14. WHEN THE PROJECT SITE EARTHWORK IS NOT INTENDED TO BALANCE THEN A SEPARATE GRADING PERMIT FOR THE SENDING OR RECEIVING PROPERTY MAY BE REQUIRED. A COPY OF THE PERMIT/S OR EVIDENCE THAT NO PERMITS ARE REQUIRED SHALL BE SUBMITTED TO THE COUNTY PRIOR TO COMMENCING PROJECT EARTHWORK.

GRADING NOTES

- 1. REFER TO THE GRADING PLANS FOR FINISH GRADES OF THE SURROUNDING AREA.
- 2. PRIOR TO FINAL INSPECTION, THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT ALL GRADING, SCARIFICATION, AND COMPACTION WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SOILS REPORT AND AS NOTED ON THESE PLANS.
- 3. THE GEOTECHNICAL ENGINEER SHALL INSPECT AND CERTIFY THAT ALL FOUNDATION EXCAVATIONS COMPLY WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

DUST CONTROL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH DUST CONTROL MEASURES REQUIRED BY THE AIR POLLUTION CONTROL BOARD.
- 2. IMPLEMENT PERMANENT DUST CONTROL MEASURES AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES
- 3. STABILIZE ALL DISTURBED/EXPOSED SOIL AREAS PER THE EROSION CONTROL NOTES.
- 4. DURING CONSTRUCTION, WATER TRUCKS OR SPRINKLER SYSTEMS SHALL BE USED IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH. RECLAIMED (NON-POTABLE) WATER SHALL BE USED WHENEVER POSSIBLE.
- 5. ALL DIRT STOCKPILE AREAS SHALL BE SPRAYED OR COVERED DAILY AS NEEDED.
- 6. ALL TRUCKS HAULING SOIL MATERIALS TO AND FROM THE SITE SHALL BE COVERED WITH A TARP TO PREVENT DUST FROM BLOWING OFF THE TRUCK.
- 7. ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15 MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
- 8. INSTALL WHEEL WASHERS WHERE VEHICLES ENTER AND EXIT UNPAVED ROADS ONTO ADJACENT STREETS, OR WASH CONSTRUCTION EQUIPMENT AND VEHICLES BEFORE LEAVING THE SITE.
- 9. SWEEP STREETS AT THE END OF EACH DAY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS. WATER SWEEPERS WITH RECLAIMED WATER SHALL BE USED WHEN FEASIBLE.
- 10. THE CONTRACTOR SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO REDUCE THE TRANSPORT OF DUST OFF-SITE. THE DESIGNATED PERSON'S DUTY SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS.
- 11. CONSTRUCTION EQUIPMENT SHALL CONFORM TO THE MOST CURRENT AIR QUALITY REGULATIONS FOR THE OPERATION OF MOTOR VEHICLES.

REPORTS REQUIRED

- 1. ENGINEER OF RECORD TO PROVIDE A FINAL REPORT STATING THE WORK PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS.
- 2. A GEOTECHNICAL ENGINEER OR CIVIL ENGINEER TO DETERMINE GRADING PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND IS SUITABLE TO SUPPORT THE INTENDED STRUCTURE(S).

SCOPE OF WORK

GRADING FOR CONCRETE, UTILITIES, SPLASH PAD, PUMP STATION.

CODE COMPLIANCE

- 1. PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:
 - 2022 CALIFORNIA BUILDING CODE
 2022 CALIFORNIA ELECTRIC CODE
 2022 CALIFORNIA MECHANICAL CODE
 2022 CALIFORNIA PLUMBING CODE
 CALIFORNIA TITLE 24: 2011 CALIFORNIA ENERGY CODE & ACCESSIBILITY STDS
 KERN COUNTY ORDINANCE

DISTURBED AREA

0.1 acres

SOILS REPORT

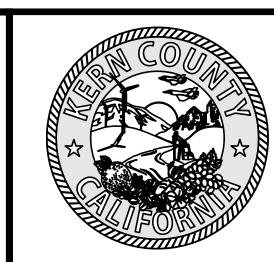
CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS AS STATED IN:

GEOTECHNICAL ENGINEERING INVESTIGATION HMP ADVENTURE PLAY AREA PROJECT BAKERSFIELD, KERN COUNTY, CA BSK PROJECT G00-000-166 DECEMBER 12, 2022



WALLACE GROUP

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES
612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



COUNTY OF KERN

GENERAL SERVICES

DIVISION

OF THE

COUNTY ADMINISTRATIVE OFFICE

1115 TRUXTUN AVENUE

BAKERSFIELD, CALIFORNIA

ROJECT

HART MEMORIAL PARK ADVENTURI PLAY ARFA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF	SUPERVISORS
CHAIRMAN BOARD	OF SUPERVISORS

RECOMMENDED FOR APPROVAL
DEPARTMENT

DIRECTOR

DATE

RECOMMENDED FOR APPROVAL
GENERAL SERVICES DIVISION

HIEF GENERAL SERVICES OFFICER

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, TH PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN.

NO PART THEREOF SHALL BE COPIED, ELECTRONICALLY MODIFIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN.

VISUAL CONTACT WITH THESE DRAWINGS OF SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AN CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.



REV DESCRIPTION

ONSULTANT STAMP

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CHECKED	BY NFW	
JOB NO.		DRAWING FILE

HART PARK PROP 68 IMPROVEMENTS
NOTE SHEET

1650.7014-21

20MM010

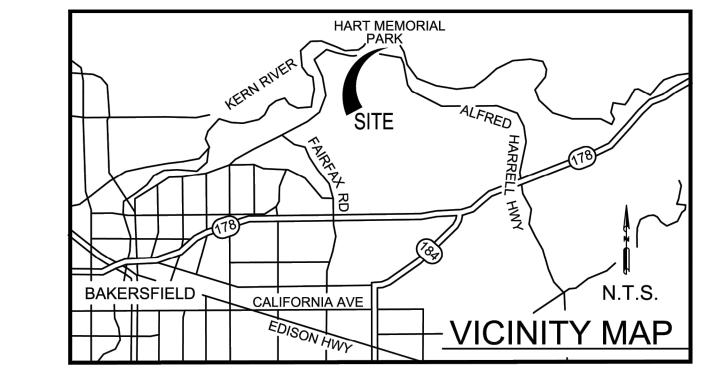
ILE NAME: 1660-0001-TOPO.DWG Plot Date: 12/11/2023

SURVEY CONTROL AND TOPOGRAPHIC MAP

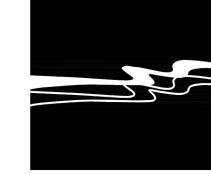
LEGEND

LLOLIN			
	- INDEX CONTOUR	ABBREVIATIONS	
	─ INTERMEDIATE CONTOUR	AC	ASPHALTIC CONCRET
, 1 , , 1 ,	– EDGE OF PAVEMENT	ACB	AC BERM
O/H	- OVERHEAD UTILITY LINE	ВМ	BENCHMARK
	TRAFFIC STRIPING (SOLID)	BOW	BOTTOM OF WALL
	TRAFFIC STRIPING (DASHED)	BWAL	BLACK WALNUT
- · · · — · · · — · · · —	EDGE OF LAKE	CF	CURB FACE
•—	LIGHT STANDARD	CO	COUNTY
□ FM	ELECTRIC METER	CONC	CONCRETE
□M EM ICV	IRRIGATION CONTROL VALVE	DIA	DIAMETER
\bowtie	WATER VALVE	DR	DRIVE
(-	GUY WIRE	ELE	ELECTRIC
●PP	POWER POLE	ELEV	ELEVATION
— PP	POLE WITH LIGHT	EUC	EUCALYPTUS
\bigoplus	BOLLARD/SMALL POLE	L. AMBER	LIQUIDAMBER
•	STREET SIGN/SIGN POST	L. OAK	LIVE OAK
<u>&</u> ′	SURVEY CONTROL POINT AND NUMBER	R LP	LIGHT POLE
	BRUSH LINE/DRIP LINE	m	METRIC
20" PINE	TREE WITH DIAMETER NOTED	OD	OUTSIDE DIAMETER
		PP	POWER POLE
	CONCRETE	PT	POINT
And the second s		RD	ROAD
		SL	STREET LIGHT
		ST	STREET
		SYC	SYCAMORE

SURVEY CONTROL POINTS				
PT. NO.	NORTHING	EASTING	ELEV.	DESC.
100	2350736.98	6290893.71	489.60	SET 80D NAIL
103	2350695.33	6291085.08	493.90	SET MAGNETIC NAIL WG
104	2350890.33	6291117.91	491.49	SET COTTON SPINDLE WG
105	2350929.04	6290819.24	487.92	SET X TC
107	2350946.78	6290287.85	484.47	SET COTTON SPINDLE WG
108	2350769.92	6290395.76	487.48	SET MAGNETIC NAIL WG
109	2350558.17	6290483.99	489.30	SET #5 REBAR WG
114	2350893.58	6290527.55	485.55	SET #5 REBAR WG
125	2350893.07	6291181.21	492.66	SET X CONC



•24" BWAL



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COUNTY OF KERN
GENERAL SERVICES
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OF THE

COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

PROJECT

HARI MEMORIAL
PARK ADVENTURE
PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS

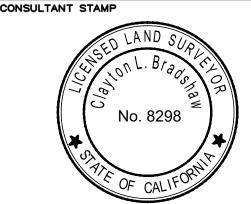
555111 55115 G. CO. <u>211165115</u>	
CHAIRMAN BOARD OF SUPERVISORS	DATE
RECOMMENDED FOR APPROVAL DEPARTMENT	
DIRECTOR	DATE

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

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CLAYTON L. BRADSHAW, LS 8298 DATE: 12/11/2023

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DRAWN BY

DRAWN BY
NDS

CHECKED BY
BD

JOB NO.
1650,7014-21

DRAWING
1660-80

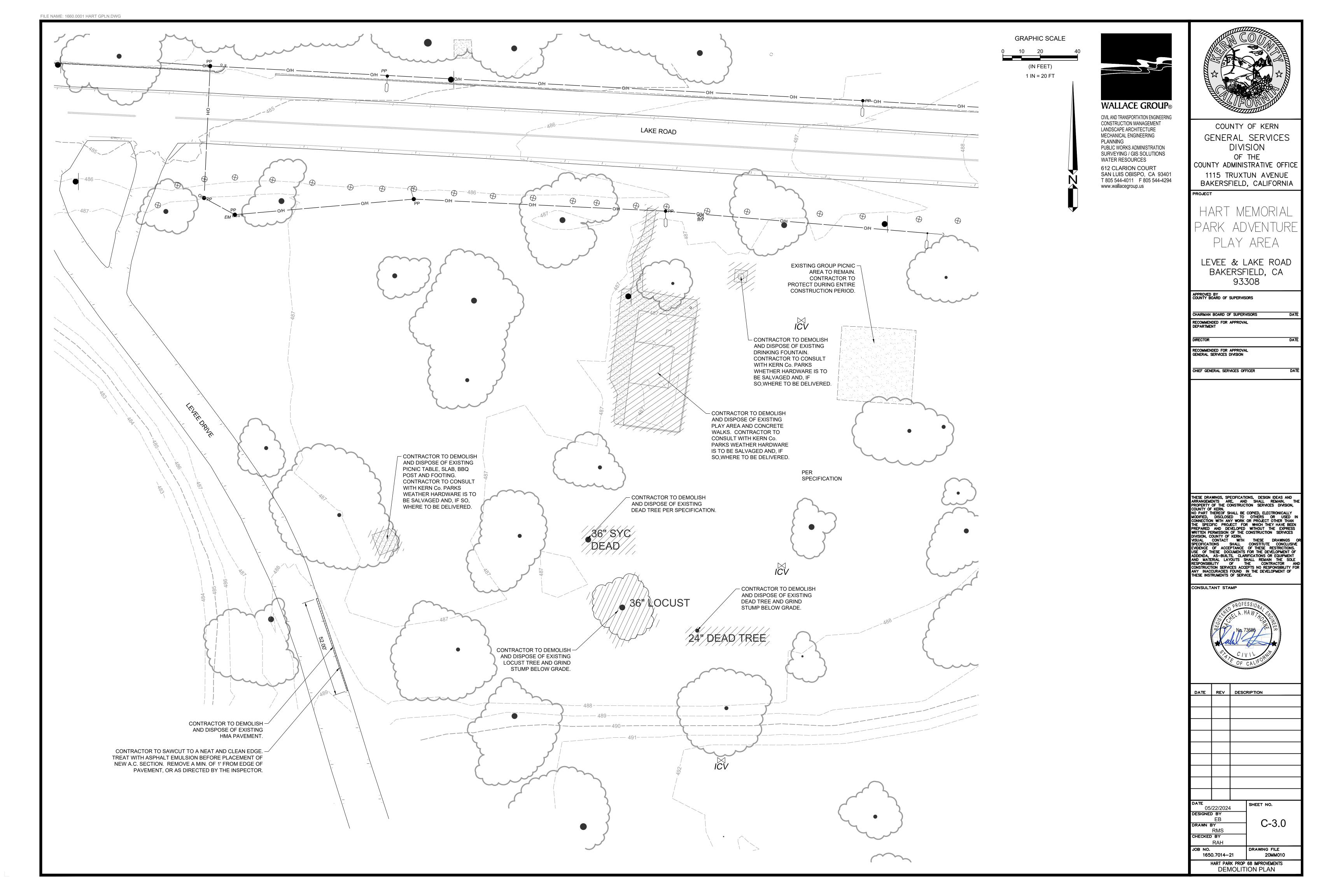
HART PARK PROP 68 IMPROVEMENTS
TOPOGRAPHIC SURVEY

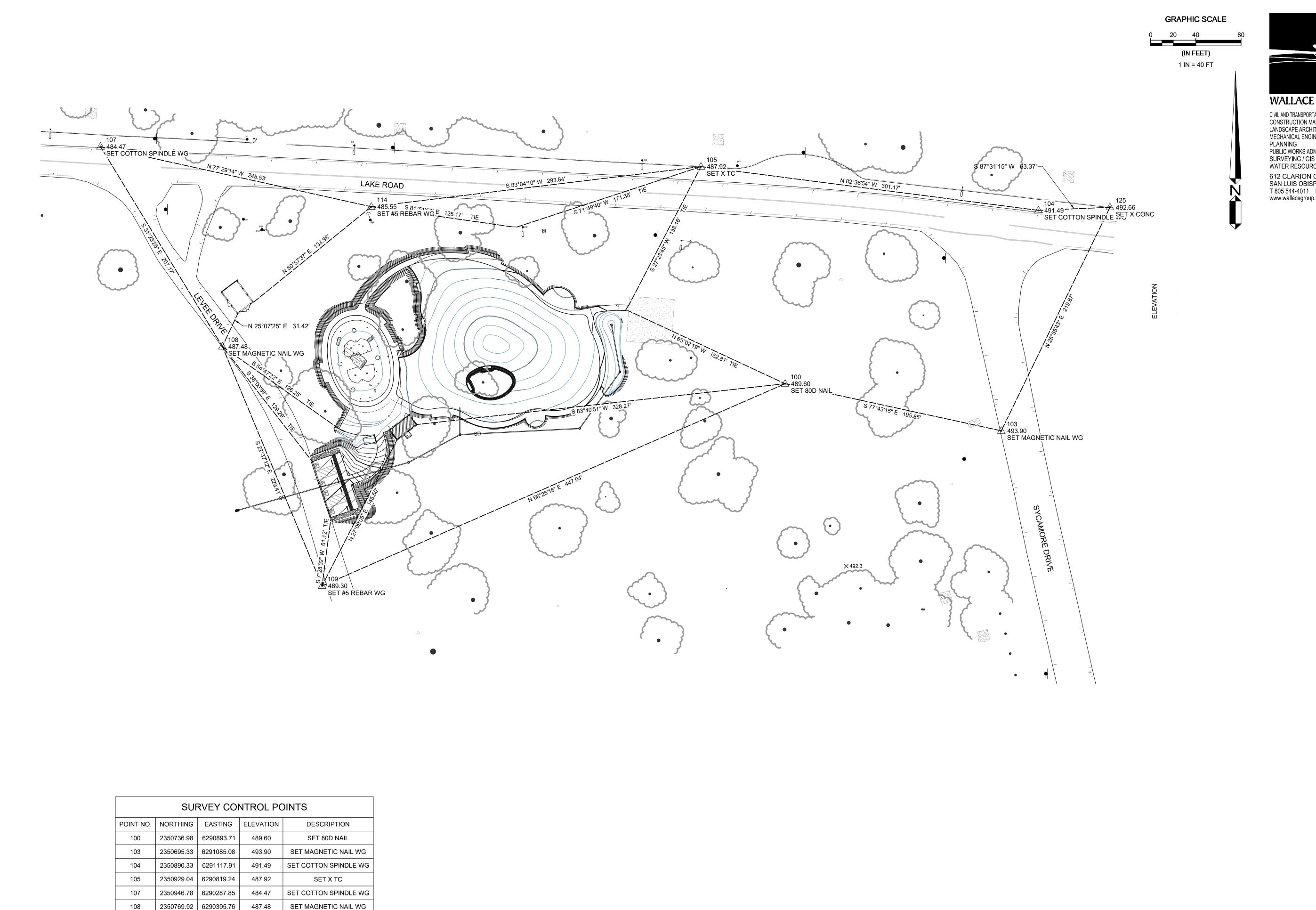


SURVEY NOTES

- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
- 2. THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 5 PROJECTION.
- 3. THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THOSE STATIONS ARE THE NGS POINTS DESIGNATED "P554", HAVING A PUBLISHED POSITION OF: NORTHING 2,111,789.79', EASTING 6,307,067.95'; AND "P563", HAVING A PUBLISHED POSITION OF: NORTHING 2,341,686.43', EASTING 6,138,227.58' AND "P567" HAVING A PUBLISHED POSITION OF: NORTHING 2,340,363.48, EASTING 6,337,139.79. THE RESULTING BEARING FROM "P563" TO "P567" BEING: S 89°37'08" E. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.
- 4. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99997779 THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 489.60 FEET FOR PT. NO. 100. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET
- 5. THE CONVERGENCE ANGLE IS: -0°31'05" AT PT. NO. 100.
- 6. THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE DERIVED CALIFORNIA ORTHOMETRIC HEIGHTS OF 1988 (DERIVED COH88). THE DERIVED COH88 WAS CALCULATED AT POINT NUMBER 100 USING THE FOLLOWING VALUES: A NAD83 ELLIPSOID HEIGHT OF 382.05 FEET, AND A GEOID12B GEOID HEIGHT OF -107.55 FEET, RESULTING IN A DERIVED COH88 ELEVATION OF 489.60 FEET.
- 7. THE CONTOUR INTERVAL IS 1 FOOT.
- B. UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
- . UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
- 10. EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.
- 11. THE TREE CANOPY DRIPLINES SHOWN HEREON ARE MEASURED FROM THE AERIAL ORTHO-PHOTO IMAGE FOR THIS SURVEY DATED 07/12/2022 AND SHOULD BE CONSIDERED APPROXIMATE UNTIL CONFIRMED BY A BIOLOGIST OR ARBORIST.
- 12. THIS MAP REPRESENTS A SURVEY MADE BY ME AT THE REQUEST OF COUNTY OF KERN. THE FIELD SURVEY WAS PERFORMED JULY TWELFTH THROUGH THIRTEENTH, TWO THOUSAND TWENTY-TWO.

1 INCH = 40 FEET





FILE NAME: NE HORZ. CONTROL PLAN.DWG

2350769.92 | 6290395.76 |

2350558.17 | 6290483.99 |

2350893.58 | 6290527.55 |

2350893.07 | 6291181.21

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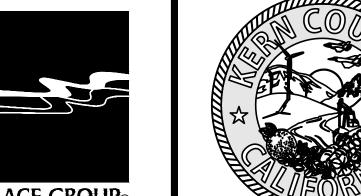
SET #5 REBAR WG

SET #5 REBAR WG

SET X CONC

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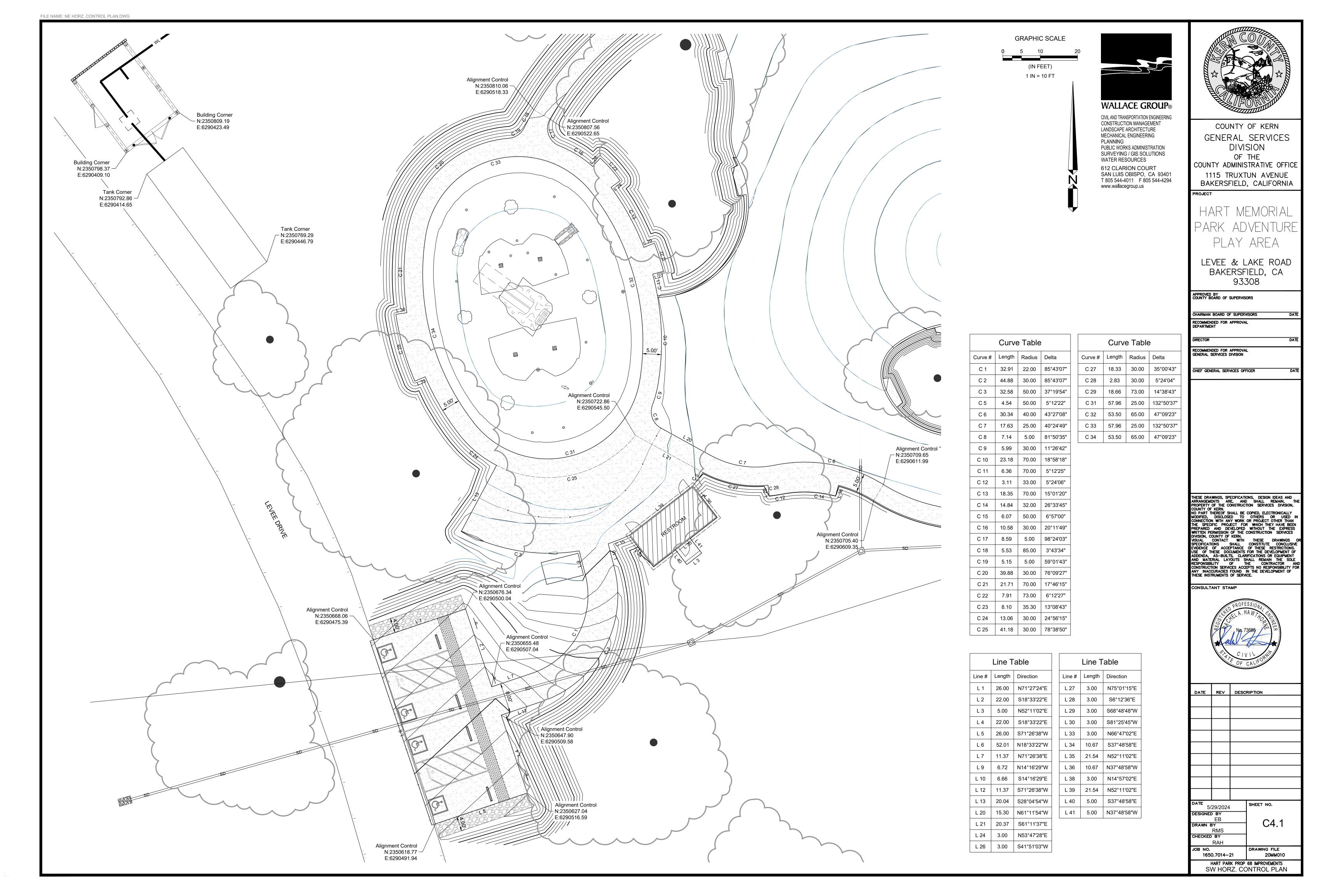
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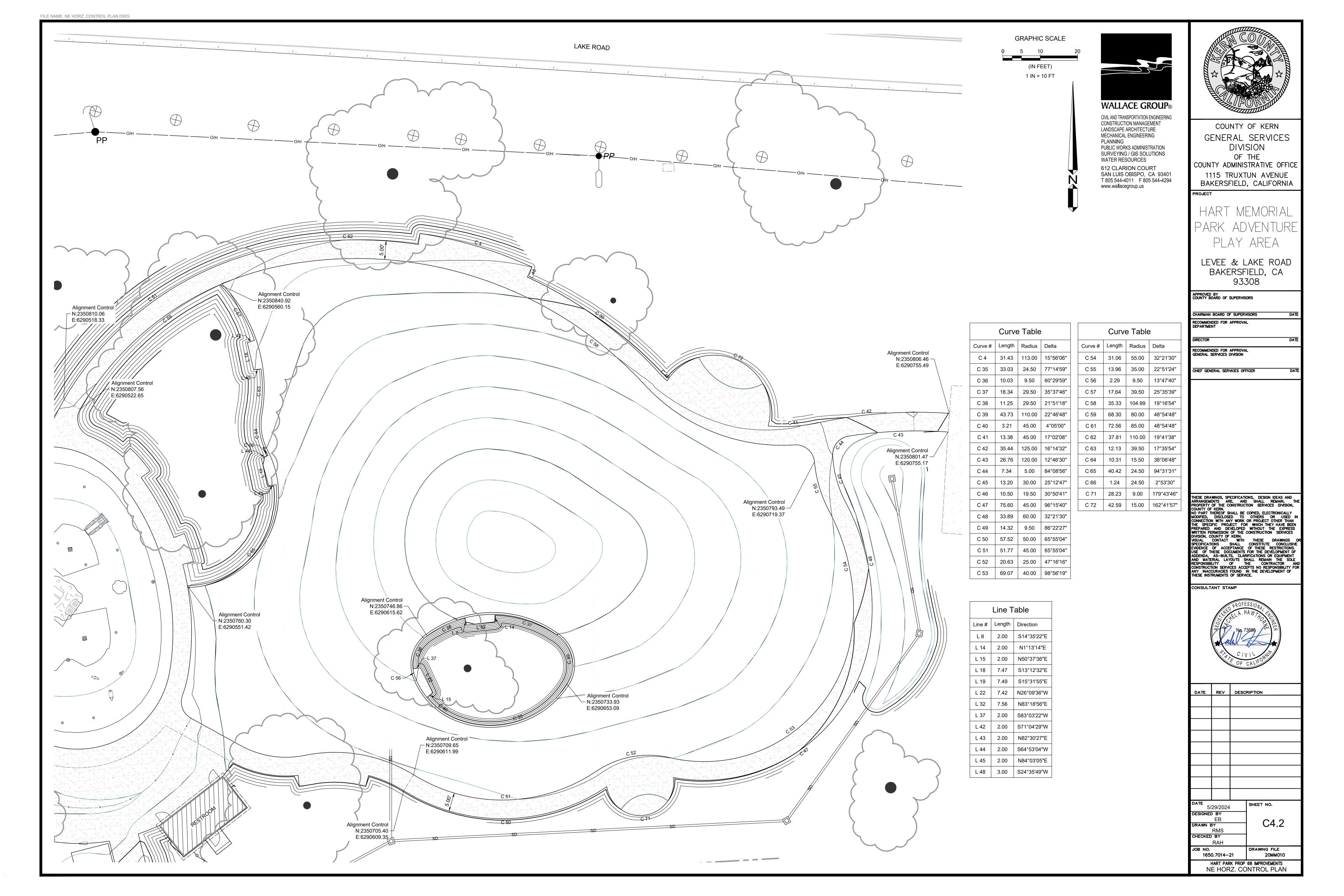
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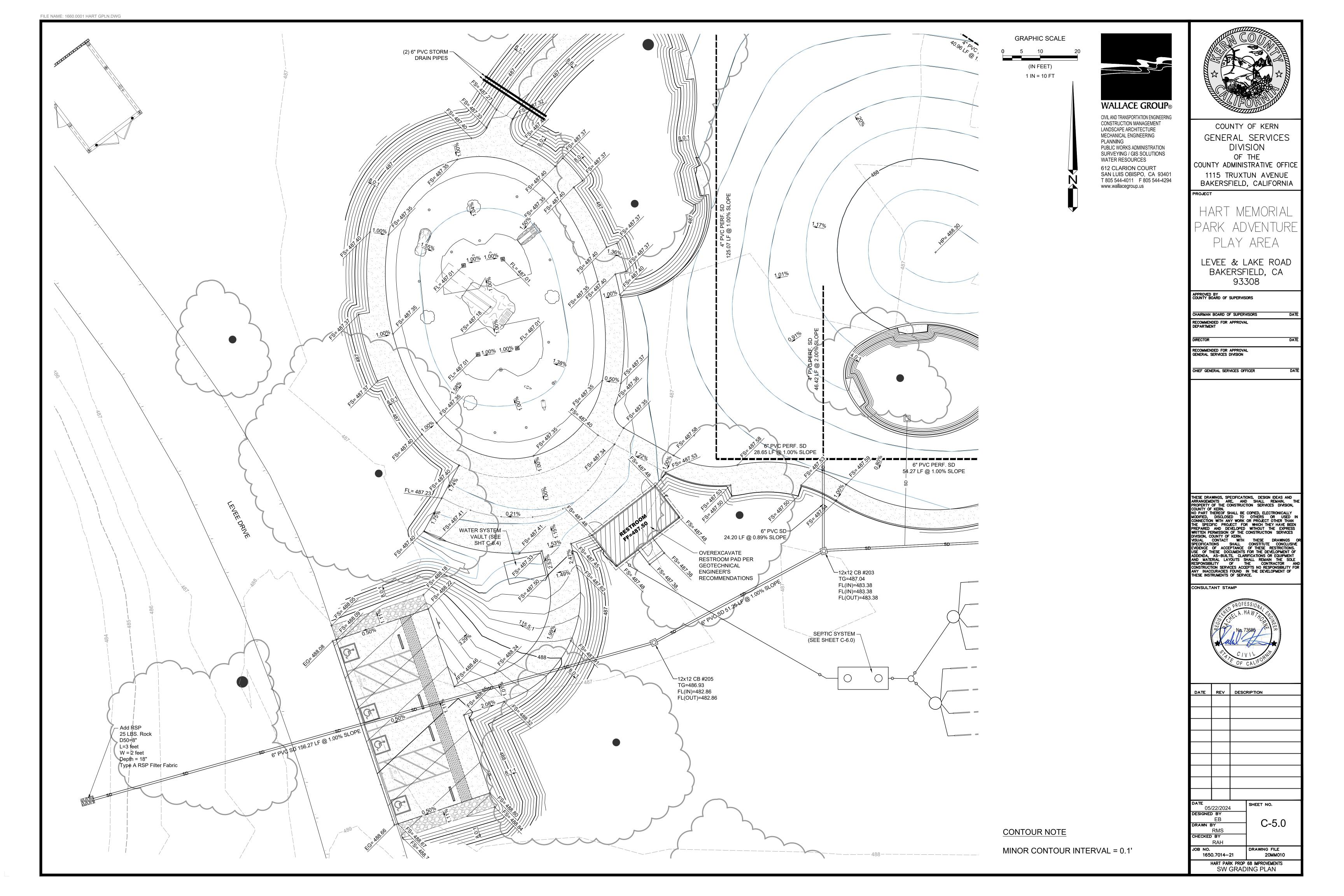
HART PARK PROP 68 IMPROVEMENTS CONTROL POINT PLAN

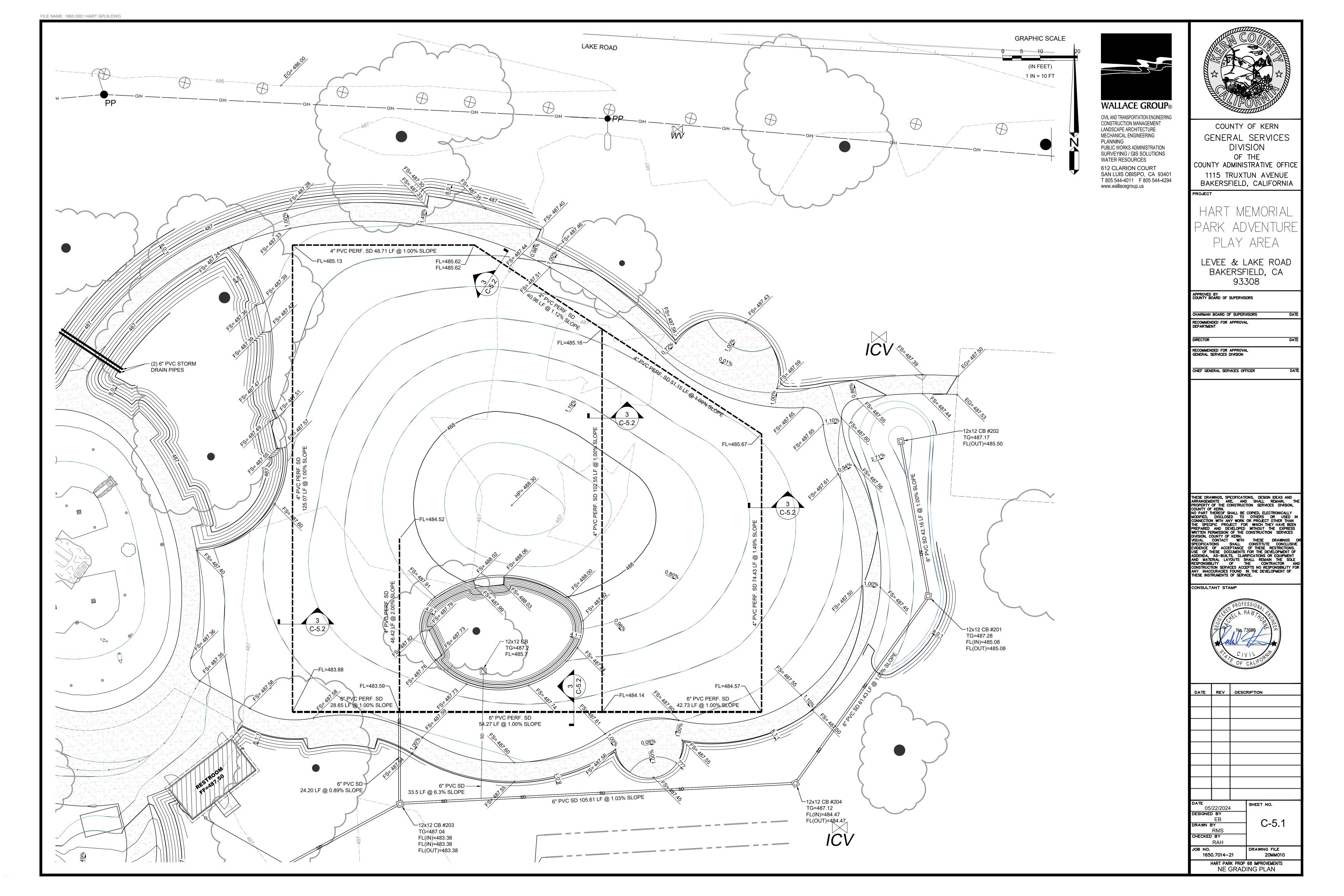
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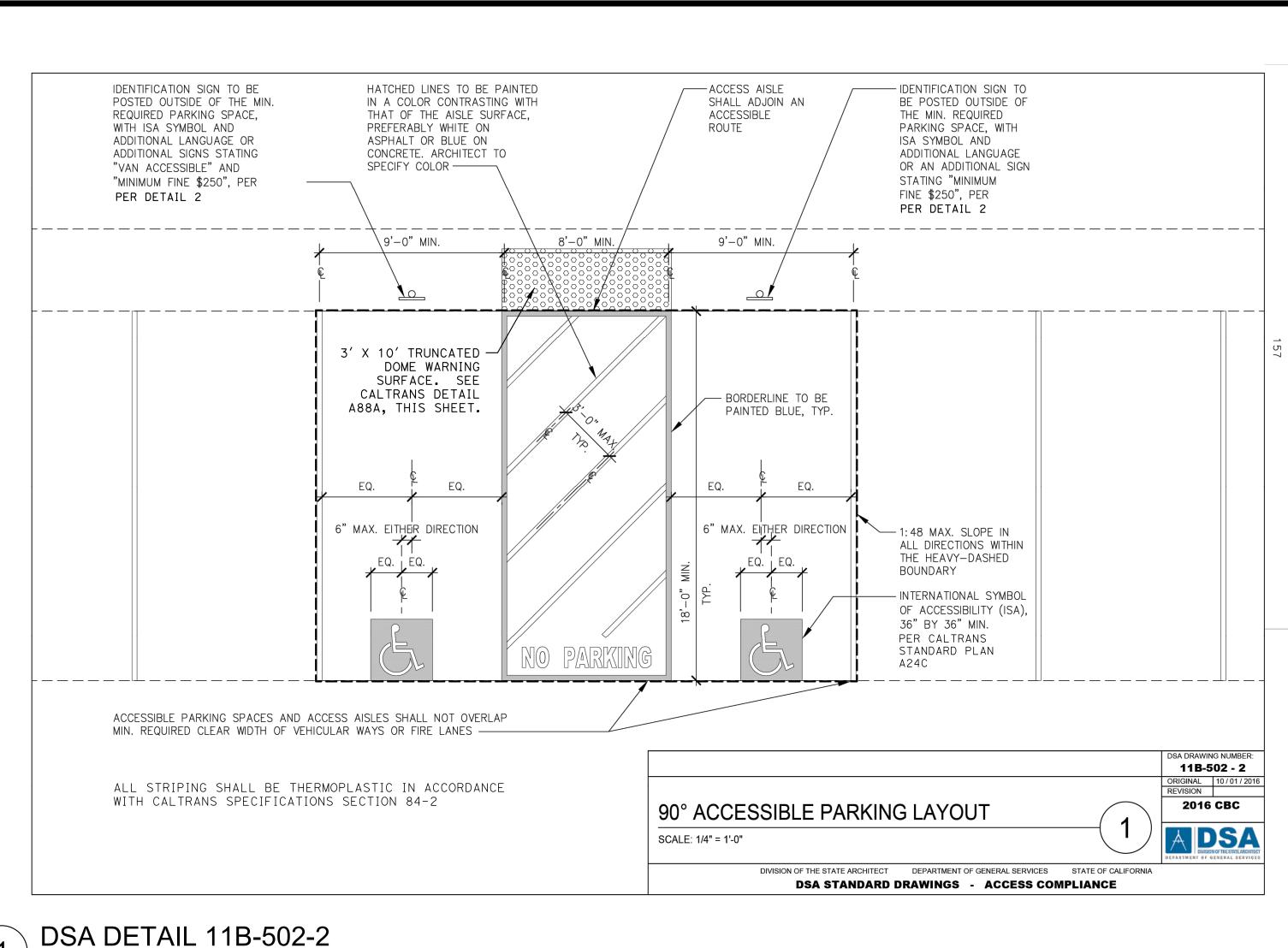
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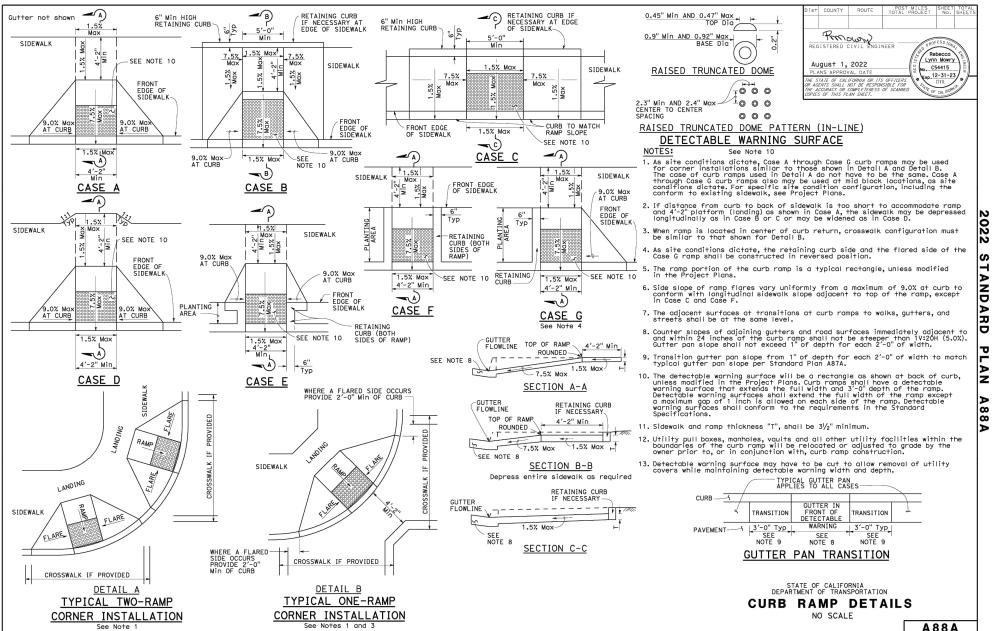






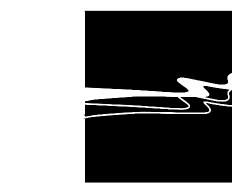


FILE NAME: 1660.0001 HART GPLN.DWG



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LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS

CHAIRMAN BOARD OF SUPERVISORS DAT

RECOMMENDED FOR APPROVAL

DEPARTMENT

DIRECTOR

DAT

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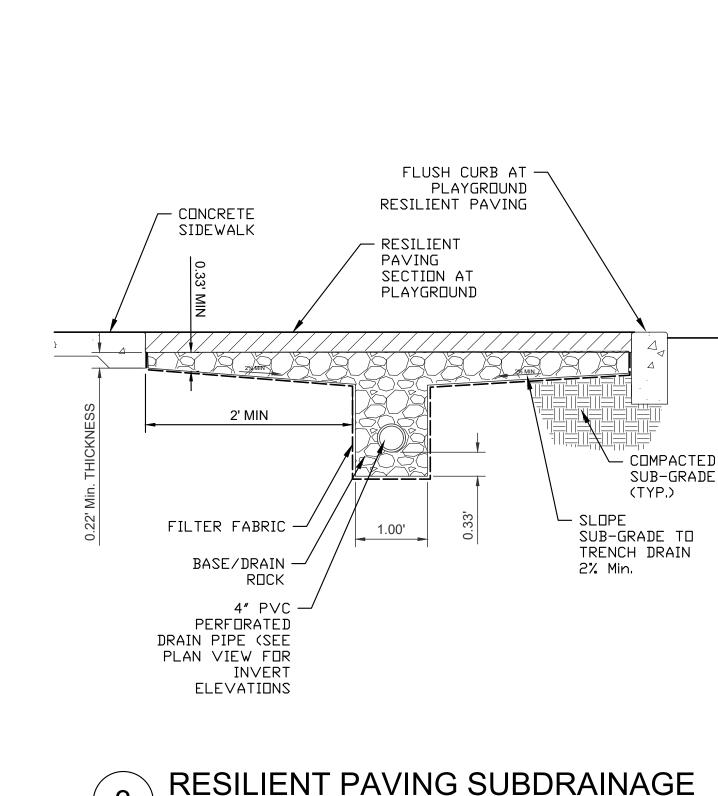
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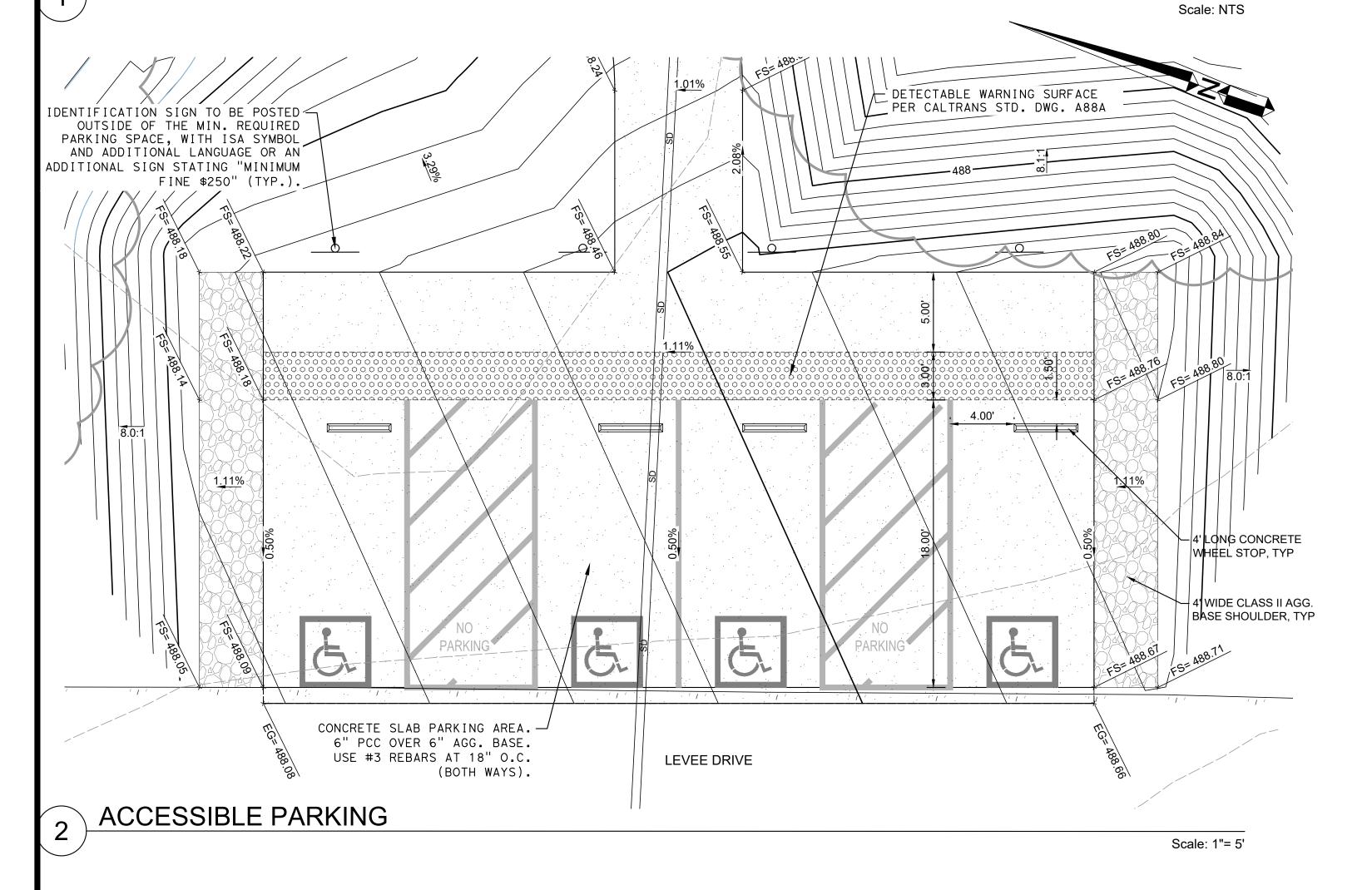
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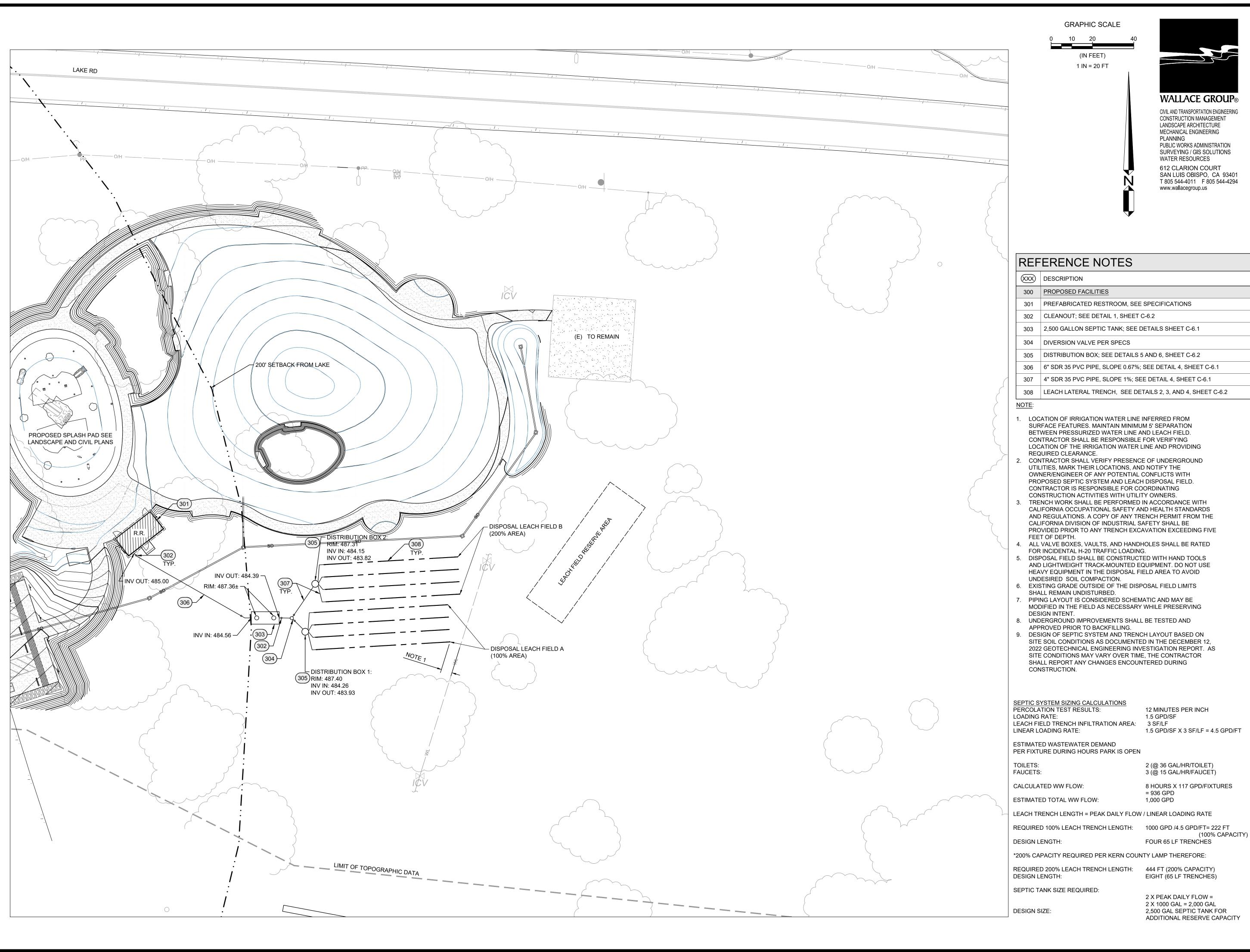


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HART PARK PROP 68 IMPROVEMENTS				
GRADING DETAILS				









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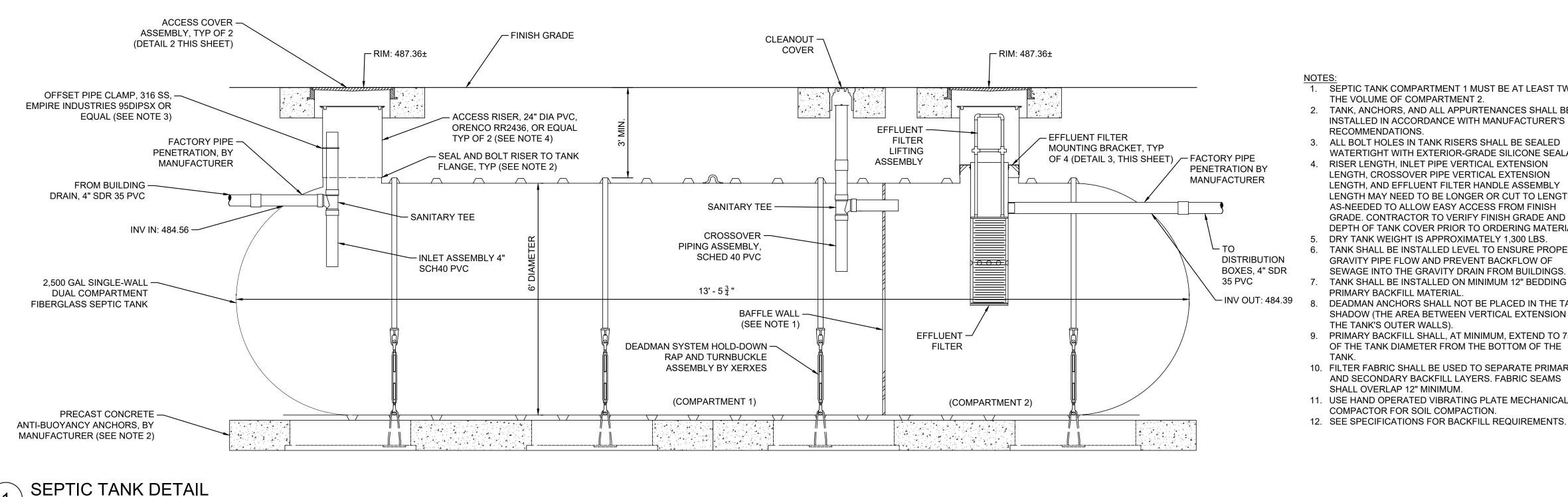
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HART PARK PROP 68 IMPROVEMENTS
SEPTIC SYSTEM LAYOUT

20MM010

1650.7014-21



- STEEL ACCESS COVER, TRAFFIC-RATED, LABELED

4" MIN TYP

TYP OF 2

"SANITARY SEWER," PHOENIX

P-1005 OR APPROVED EQUAL,

- BACKFILL BAFFLE, TYP

- CIRCULAR CONCRETE

COLLAR, 3,000 PSI, TYP

(SEE NOTE 1)

- RISER COVER, 24" DIA,

OF 2

1' TYP

ACCESS RISER —

VENTED, ORENCO FLD24V

OR APPROVED EQUAL, TYP

2' - 6"

ACCESS COVER ASSEMBLY DETAIL

CIRCULAR BACKFILL BAFFLE SHALL BE CUT TO FIT ACCESS RISER OUTSIDE

DIAMETER SNUGLY, AND EXTEND BELOW CONCRETE COLLAR 4" AT A MINIMUM.

- 1. SEPTIC TANK COMPARTMENT 1 MUST BE AT LEAST TWICE
- THE VOLUME OF COMPARTMENT 2. 2. TANK, ANCHORS, AND ALL APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. ALL BOLT HOLES IN TANK RISERS SHALL BE SEALED

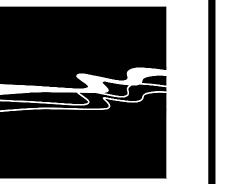
- WATERTIGHT WITH EXTERIOR-GRADE SILICONE SEALANT. 4. RISER LENGTH, INLET PIPE VERTICAL EXTENSION LENGTH, CROSSOVER PIPE VERTICAL EXTENSION LENGTH, AND EFFLUENT FILTER HANDLE ASSEMBLY LENGTH MAY NEED TO BE LONGER OR CUT TO LENGTH AS-NEEDED TO ALLOW EASY ACCESS FROM FINISH GRADE. CONTRACTOR TO VERIFY FINISH GRADE AND DEPTH OF TANK COVER PRIOR TO ORDERING MATERIALS.
- DRY TANK WEIGHT IS APPROXIMATELY 1,300 LBS. TANK SHALL BE INSTALLED LEVEL TO ENSURE PROPER GRAVITY PIPE FLOW AND PREVENT BACKFLOW OF
- TANK SHALL BE INSTALLED ON MINIMUM 12" BEDDING OF PRIMARY BACKFILL MATERIAL. DEADMAN ANCHORS SHALL NOT BE PLACED IN THE TANK SHADOW (THE AREA BETWEEN VERTICAL EXTENSION OF
- THE TANK'S OUTER WALLS). 9. PRIMARY BACKFILL SHALL, AT MINIMUM, EXTEND TO 75% OF THE TANK DIAMETER FROM THE BOTTOM OF THE
- 10. FILTER FABRIC SHALL BE USED TO SEPARATE PRIMARY AND SECONDARY BACKFILL LAYERS. FABRIC SEAMS
- SHALL OVERLAP 12" MINIMUM. 11. USE HAND OPERATED VIBRATING PLATE MECHANICAL
- 12. SEE SPECIFICATIONS FOR BACKFILL REQUIREMENTS.

EFFLUENT FILTER -

HOUSING

1/8" THICK X 1-1/2" -

WIDE 316 SS. TYP



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- ACCESS RISER,

OR APPROVED

— HEX BOLT, AND

NUT, 5/8" - 18 316

EQUAL

➤ WASHER, 5/2

316 SS. TYP

ORENCO ULTRARIB



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HART PARK PROP 68 IMPROVEMENTS SEPTIC SYSTEM DETAILS

AS-NEEDED TO

BRIDGE GAP

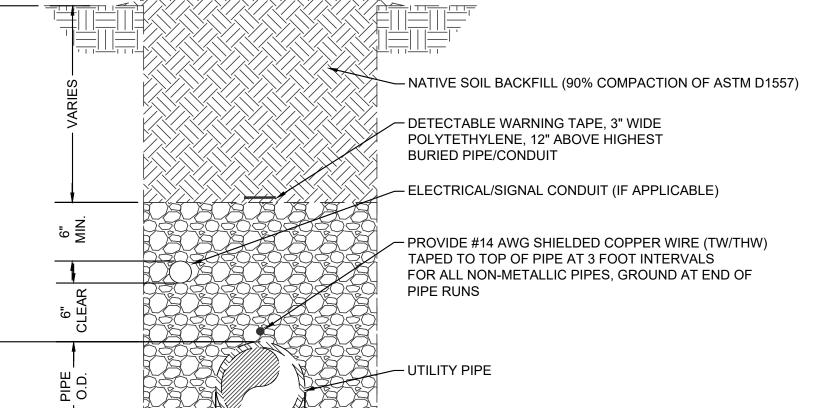
- EFFLUENT FILTER LIFTING ASSEMBLY ACCESS RISER -- EFFLUENT FILTER MOUNTING BRACKET, TYP OF 4 (SEE DETAIL B TO RIGHT) - SEPTIC TANK → EFFLUENT FILTER HOUSING

EFFLUENT FILTER MOUNTING BRACKET DETAIL

► EFFLUENT O FILTER O HOUSING - ACCESS RISER

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD

TANK RISER — FLANGE



- CLASS 2 AB OR SAND (MIN. SE = 25),

95% RELATIVE COMPACTION ASTM D1557

NOTES: 1. FOR TRENCH DEPTHS GREATER THAN 5 FEET, THE ENTIRE

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT" (800-642-2444) FOR AN ACCURATE LOCATION OF EXISTING POWER, TELEPHONE, OIL OR NATURAL GAS UNDERGROUND FACILITIES, AND TO CONTACT THE APPROPRIATE AGENCIES FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES.

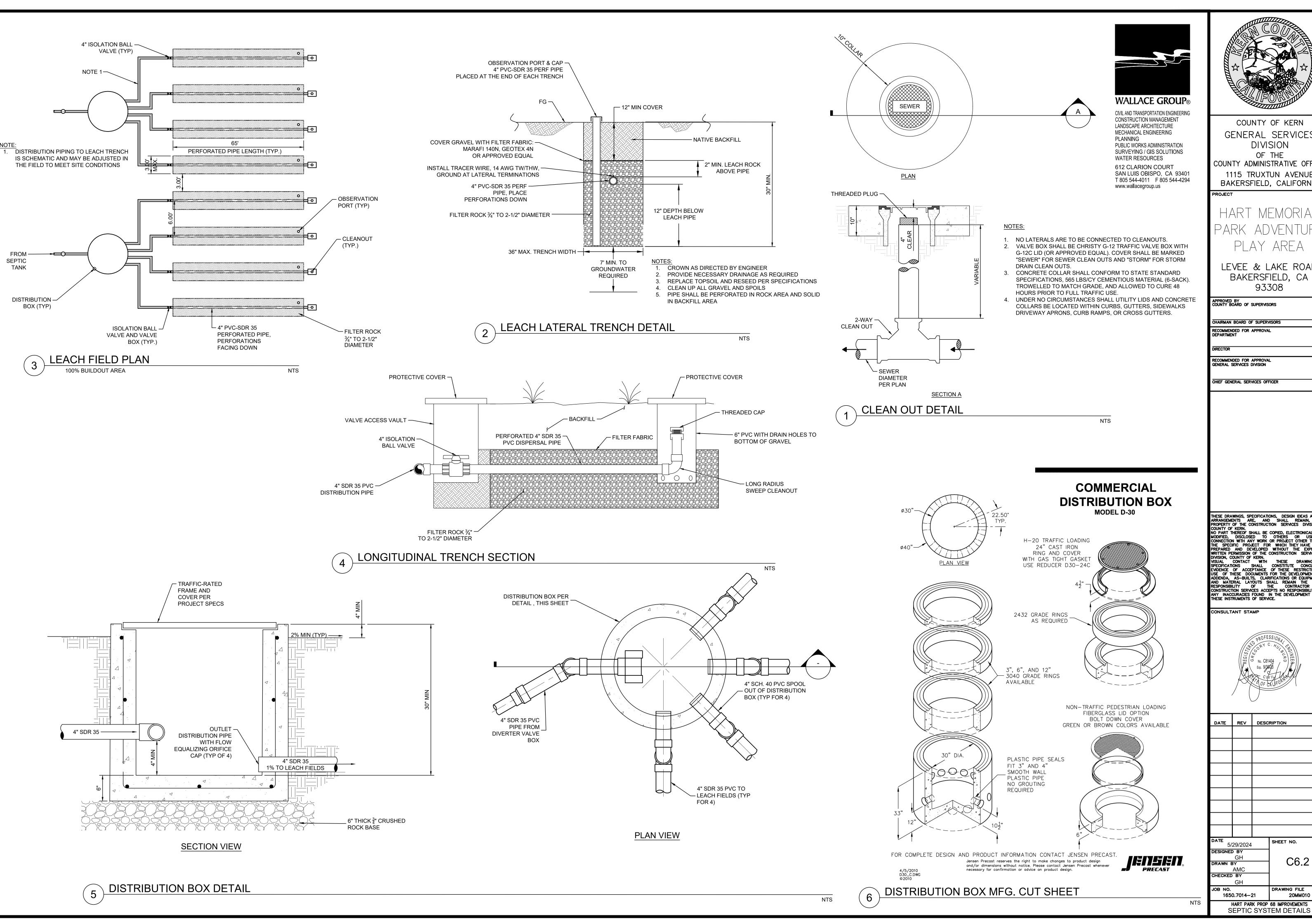
TRENCH SHALL BE COMPACTED TO 95% OF ASTM D1557.

3. ALL TRENCHES SHALL BE BACKFILLED TO THE SURFACE OR COVERED IMMEDIATELY AFTER WORK ON THE FACLITIES WHEN THE TRENCH IS COMPLETED. IN NO CASE SHALL TRENCHES BE LEFT OPEN OVERNIGHT.

UNPAVED FINISH UTILITY TRENCH

PIPE MIN. O.D. MIN.

NTS





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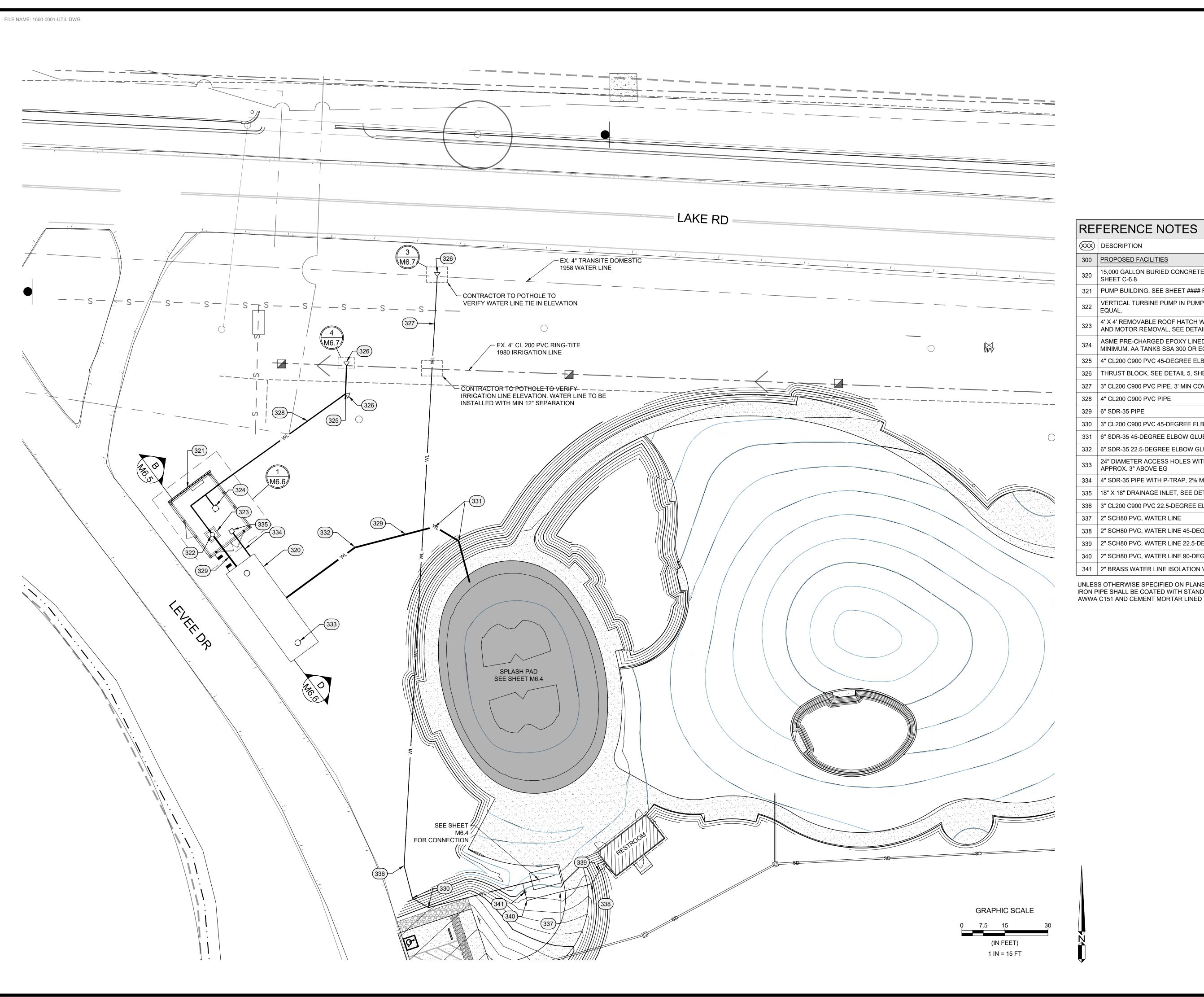
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ANY INACCURACIES FOUND IN THE DEVELOPMENT OF
THESE INSTRUMENTS OF SERVICE.

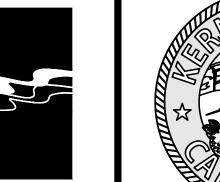
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DRAWING FILE 20MM010 1650.7014-21 HART PARK PROP 68 IMPROVEMENTS





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CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

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(XXX)	DESCRIPTION
300	PROPOSED FACILITIES
320	15,000 GALLON BURIED CONCRETE STORAGE TANK, SEE DETAIL 2, SHEET C-6.8
321	PUMP BUILDING, SEE SHEET #### FOR DETAILS
322	VERTICAL TURBINE PUMP IN PUMP CAN 15 HP PEERLESS 7LB OR EQUAL.
323	4' X 4' REMOVABLE ROOF HATCH WITH SECURITY BARS FOR PUMP AND MOTOR REMOVAL, SEE DETAIL 2, SHEET X
324	ASME PRE-CHARGED EPOXY LINED SURGE TANK. 79 GALLONS MINIMUM. AA TANKS SSA 300 OR EQUAL. 4" VICTALIC CONNECTION.
325	4" CL200 C900 PVC 45-DEGREE ELBOW GLUED FITTING
326	THRUST BLOCK, SEE DETAIL 5, SHEET #### FOR SIZING
327	3" CL200 C900 PVC PIPE. 3' MIN COVER.
328	4" CL200 C900 PVC PIPE
329	6" SDR-35 PIPE
330	3" CL200 C900 PVC 45-DEGREE ELBOW GLUED FITTING
331	6" SDR-35 45-DEGREE ELBOW GLUED FITTING
332	6" SDR-35 22.5-DEGREE ELBOW GLUED FITTING
333	24" DIAMETER ACCESS HOLES WITH GRADE RISER AND MANHOLE LID, APPROX. 3" ABOVE EG
334	4" SDR-35 PIPE WITH P-TRAP, 2% MIN. SLOPE TO TANK
335	18" X 18" DRAINAGE INLET, SEE DETAIL 3, SHEET C-6.8
336	3" CL200 C900 PVC 22.5-DEGREE ELBOW GLUED FITTING
337	2" SCH80 PVC, WATER LINE
338	2" SCH80 PVC, WATER LINE 45-DEGREE ELBOW GLUED FITTING
339	2" SCH80 PVC, WATER LINE 22.5-DEGREE ELBOW GLUED FITTING
340	2" SCH80 PVC, WATER LINE 90-DEGREE ELBOW GLUED FITTING
341	2" BRASS WATER LINE ISOLATION VALVE IN CHRISTY G05 VALVE BOX

UNLESS OTHERWISE SPECIFIED ON PLANS, BURIED AND EXPOSED DUCTILE IRON PIPE SHALL BE COATED WITH STANDARD ASPHALTIC COATING PER AWWA C151 AND CEMENT MORTAR LINED WITH SEAL COAT PER AWWA C104.

COUNTY OF KERN GENERAL SERVICES DIVISION OF THE COUNTY ADMINISTRATIVE OFFICE

1115 TRUXTUN AVENUE

BAKERSFIELD, CALIFORNIA

PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS

CHAIRMAN BOARD OF SUPERVISORS

CHIEF GENERAL SERVICES OFFICER

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

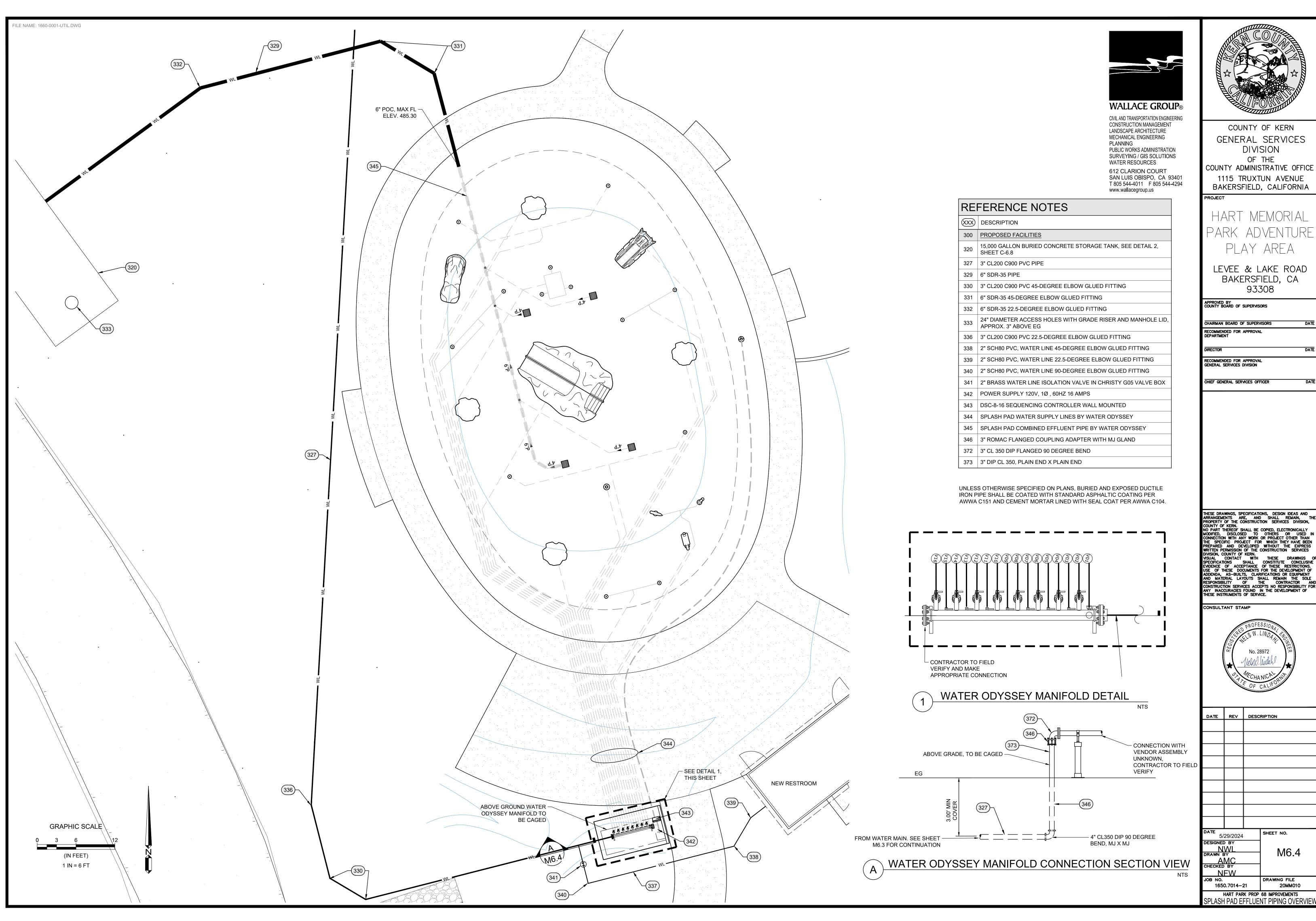
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HART PARK PROP 68 IMPROVEMENTS SPLASH PAD EFFLUENT SITE PLAN





COUNTY OF KERN GENERAL SERVICES DIVISION OF THE

1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

BAKERSFIELD, CA



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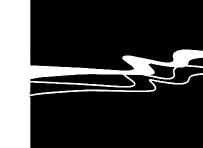
<u> </u>	PUMP DESIGN
VERTICAL TURBI	PUMP TYPE
150	DESIGN FLOW (GPM)
191	DESIGN TOTAL DYNAMIC HEAD (FT)
6.75	SUCTION BELL DIAMETER (IN)
10	BARREL INSIDE DIAMETER (IN)
METERS	PUMP STATION PARAM
7	TOTAL WET WELL DEPTH (FT)

FILE NAME: 1660-0001-UTIL.DWG

STRUCTURE PER STRUCTURAL PLANS, STARTING — ON SHEET S2.1, DESIGN SHOWS MINIMUM PAD SIZE FOR PUMP EQUIPMENT AND PIPING

B PUMP HOUSE SECTION VIEW

(XXX)	DESCRIPTION			
300	PROPOSED FACILITIES			
320	15,000 GALLON BURIED CONCRETE STORAGE TANK, SEE DETAIL 2, SHEET C-6.8			
322	VERTICAL TURBINE PUMP IN PUMP CAN 15 HP PEERLESS 7LB OR EQUAL.			
323	4' X 4' REMOVABLE ROOF HATCH WITH SECURITY BARS FOR PUMP AND MOTOR REMOVAL, SEE DETAIL 2, SHEET X			
324	ASME PRE-CHARGED EPOXY LINED SURGE TANK. 79 GALLONS MINIMUM. AA TANKS SSA 300 OR EQUAL. 4" VICTALIC CONNECTION.			
329	6" SDR-35 PIPE			
333	24" DIAMETER ACCESS HOLES WITH GRADE RISER AND MANHOLE LIE APPROX. 3" ABOVE EG			
334	4" SDR-35 PIPE WITH P-TRAP, 2% MIN. SLOPE TO TANK			
335	18" X 18" DRAINAGE INLET, SEE DETAIL 3, SHEET C-6.8			
347	PRESSURE SWITCH WITH 0-200 PSIG READOUT GAUGE (CONTROLS BY OTHERS)			
348	4" PUMP CONTROL VALVE, CLA-VAL MODEL 60-11, FLANGED			
349	4" AIR RELEASE AND VACUUM VALVE ASSEMBLY, FLANGED			
351	FLANGE MOUNTED PIPE SUPPORT TO BE DESIGNED BY CONTRACTOR			
352	4" FLANGED RESILIENT WEDGE GATE VALVE			
353	4" DISMANTLING JOINT ROMAC DJ405			
354	4" CL 350 DIP, FLANGED X PLAIN END			
355	4" CL 350 DIP, 90-DEGREE ELBOW, FLANGED X FLANGED			
356	4" STYLE 77 VICTAULIC COUPLING			
357	4" CL 350 DIP, FLANGED X FLANGED TEE FITTING			
360	LEVEL SENSORS. PRIMARY: PRESSURE TRANSDUCER IN STILLING WELL. BACKUP: HIGH AND LOW LEVEL FLOAT SWITCHES. (CONTROLS BY OTHERS)			
361	4" RESTRAINED FLANGE ADAPTER, EBAA IRON 2100 MEGAFLANGE OF EQUAL			
364	4" CL 350 DIP ELBOW. FLANGED TO VICTAULIC.			
365	4" CL 350 FLANGED DI PIPE			
367	4" CL 350 DIP FLANGED TEE			
374	SUBMERGED PIPE SEAL PER DETAIL 6, SHEET C-6.7			
376	6" X 4" CL 350 FLANGED DI ECCENTRIC REDUCER			
377	A DEFERRED SUBMITTAL IS REQUIRED FOR THE PUMP ANCHORAGE. SEE SHEET S1.0 SECTION ENTITLED "NOTES ON EQUIPMENT ANCHORS/ANCHORAGE" FOR REQUIREMENTS.			



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1"=2'

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COUNTY OF KERN

GENERAL SERVICES

DIVISION

OF THE

COUNTY ADMINISTRATIVE OFFICE

1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS CHAIRMAN BOARD OF SUPERVISORS

DIRECTOR

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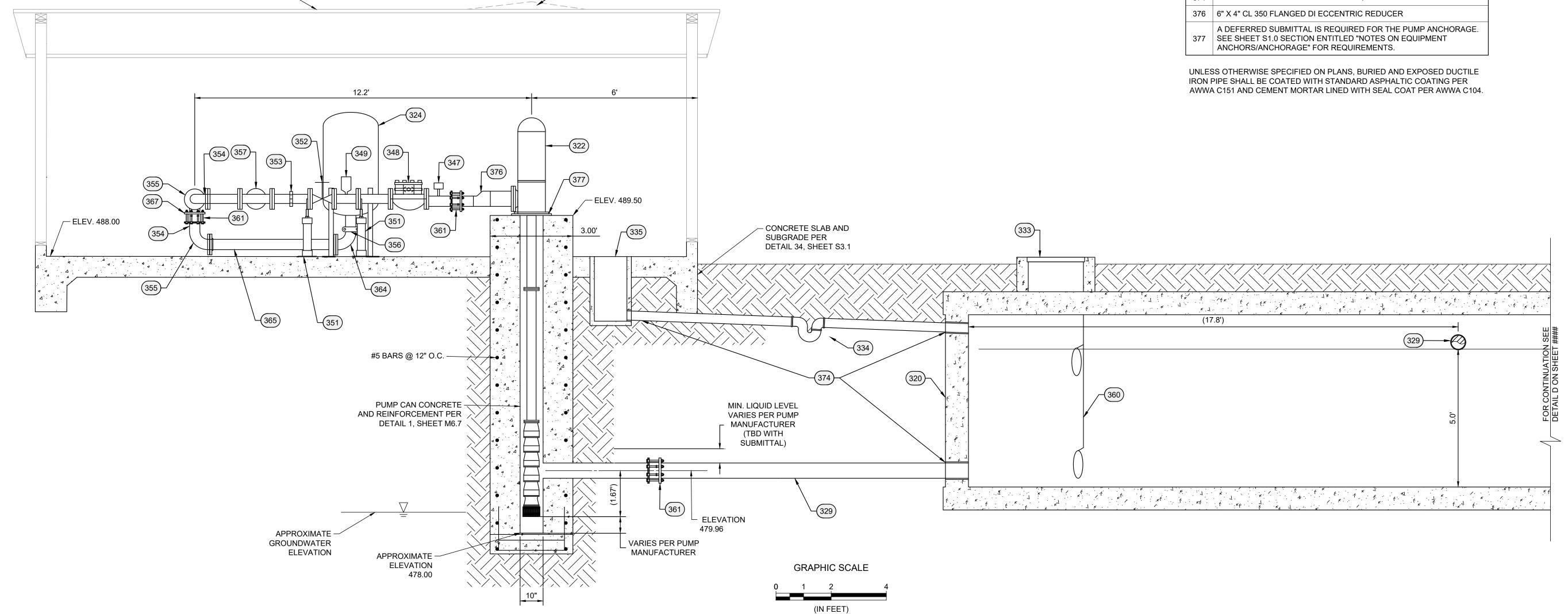
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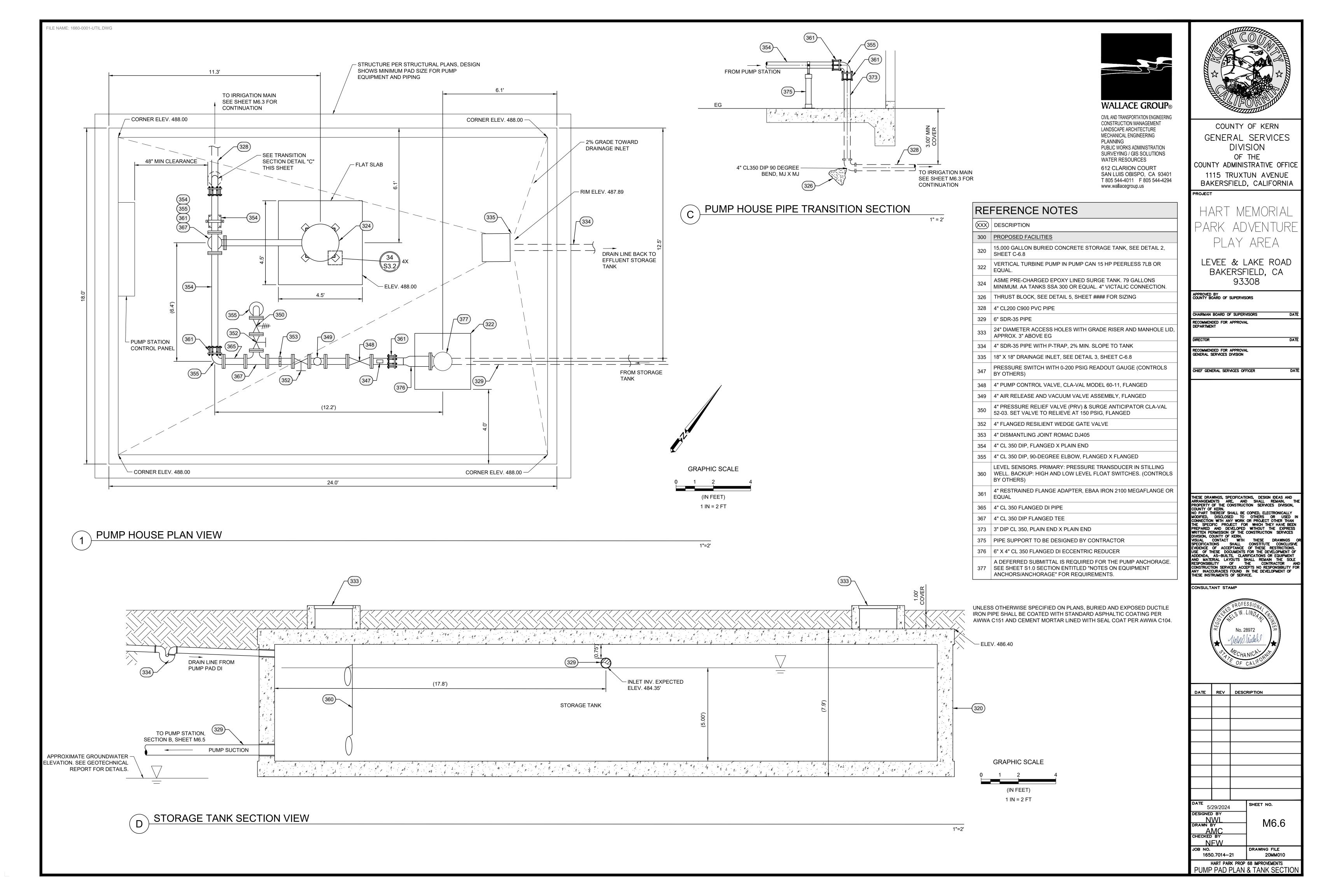


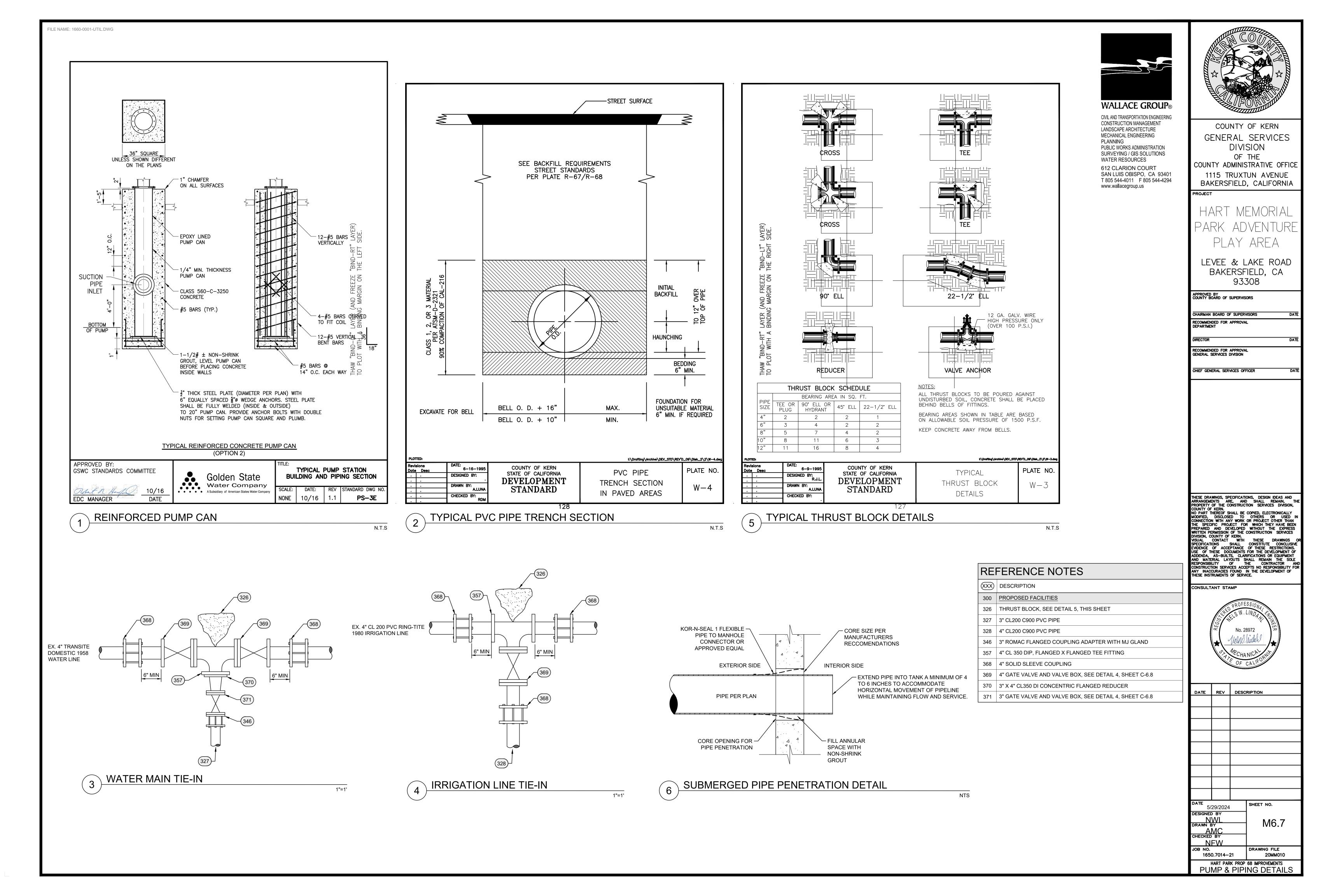
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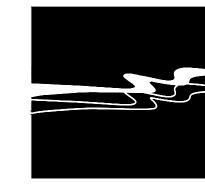
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PUM	P ST	<u>ATIO</u>	N ELEVATION



1 IN = 2 FT







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DETAIL SHEET

REMOVED. SEE STRUCTURAL PLANS FOR DETAILS



Oldcastle Precast®

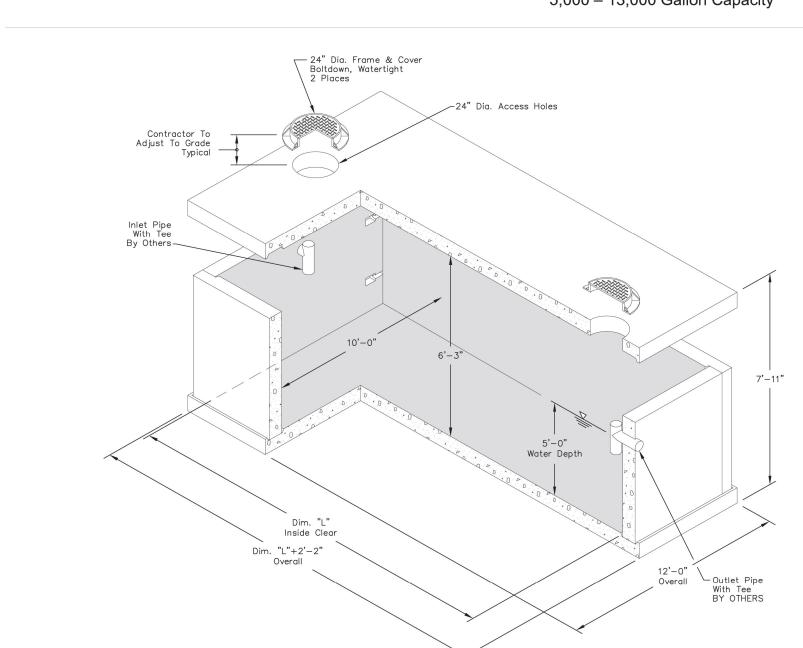
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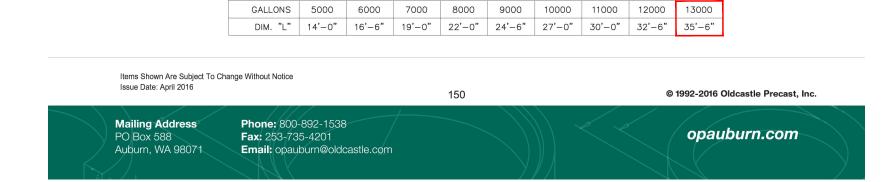
Delivering Reliability

HOLDING TANK PANEL VAULT SYSTEM

5,000 – 13,000 Gallon Capacity

1" = 1'





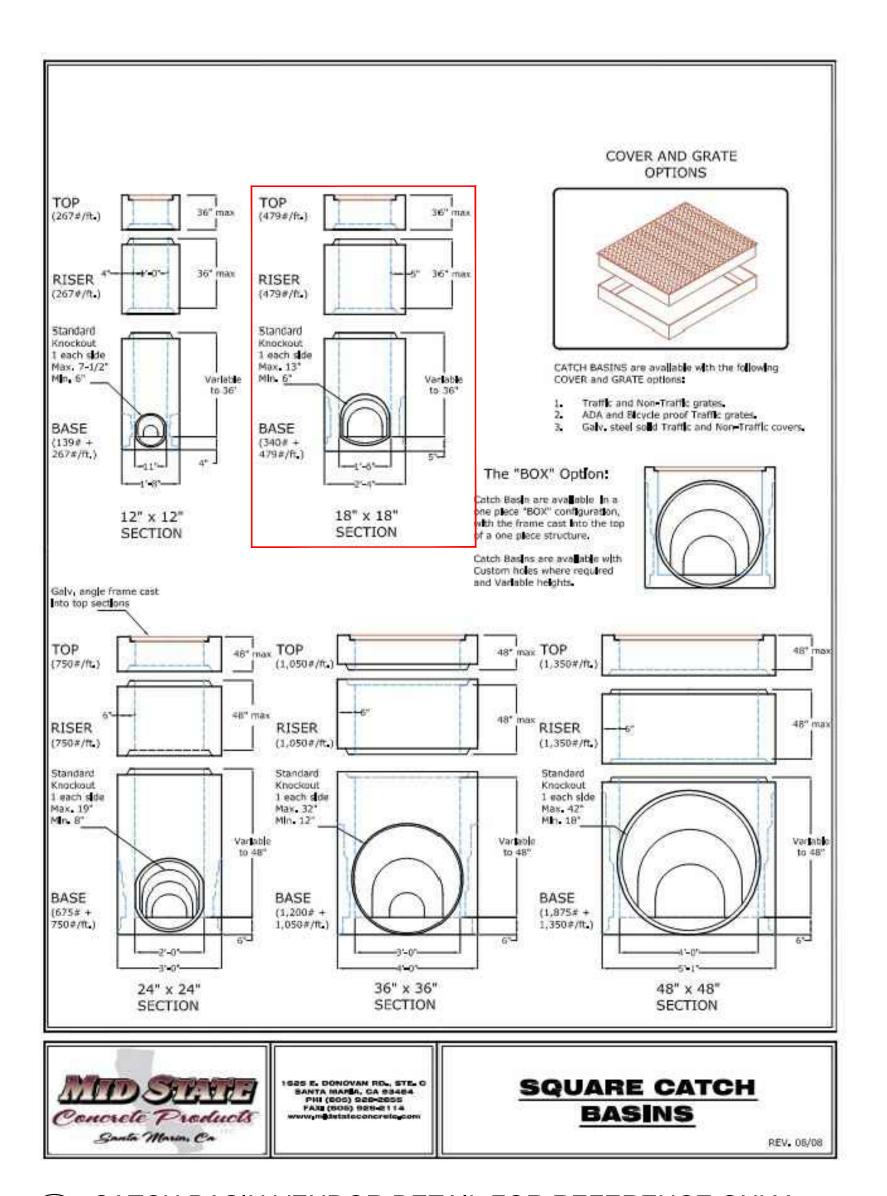
APPROVAL PRIOR TO CONSTRUCTION.

HOLDING TANK SIZING CHART

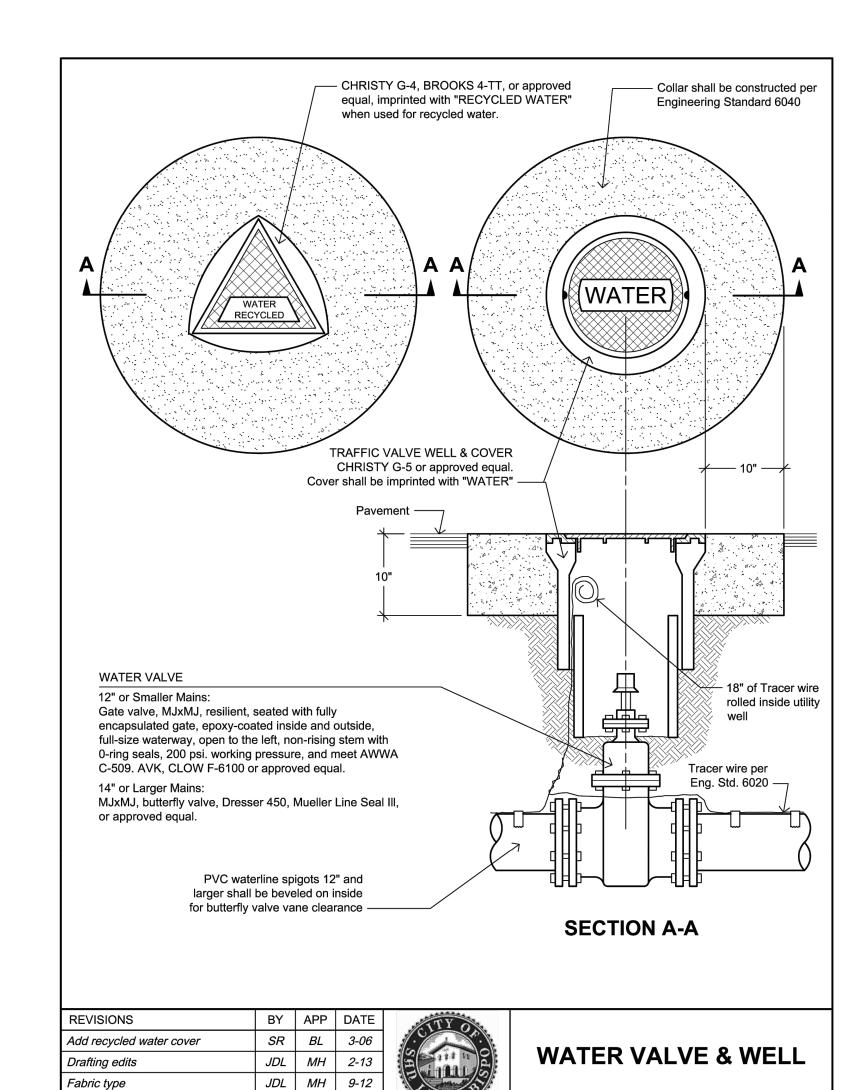
2 EFFLUENT STORAGE TANK VENDOR DETAIL FOR REFERENCE ONLY

NOTE: TANK VENDOR DETAIL FOR REFERENCE ONLY, CONTRACTOR TO SUBMIT PRE-CAST TANK DESIGN FOR

1" = 1"



3 CATCH BASIN VENDOR DETAIL FOR REFERENCE ONLY
NTS



4 WATER VALVE WELL & COVER

AUGUST 2020

STANDARD CURRENT AS OF:

N.T.S

GENERAL STRUCTURAL NOTES

- The Contractor shall verify all dimensions and conditions at the job site prior to starting construction. Notify the Engineer immediately if any discrepancies or inconsistencies are found.
- Details shown on the structural drawings are typical. Similar details apply to similar conditions. In the event certain aspects of the work are not fully detailed on the drawings or specified in these structural notes, the construction shall be of the same character as for similar conditions that are shown or specified and shall be reviewed by the Engineer.
- Existing conditions shown on these drawings are to be field verified by the Contractor as the work progresses. Notify the Engineer immediately if existing conditions are discovered which are different than those shown. Construction shall not proceed until written instructions have been received from the Engineer.
- Notes and details on the drawings shall take precedence over these general notes and typical details. Dimensions shown on the drawings shall take precedence over scale.
- Where there are discrepancies or conflicts between the drawings, notes, and specifications the stricter requirement shall apply unless directed or confirmed with the Architect and Engineer.
- These structural drawings and general notes represent the finished structure. Unless otherwise indicated, they do not specify the method of construction. The Contractor shall provide all measures necessary to protect the structure, workers and other persons during construction. Such measures shall include, but not be limited to, bracing of sufficient strength and stiffness to resist all loads, including wind and seismic loads, imposed on all elements of the structure; shoring for the building, construction equipment, earth banks and retaining walls; forms, scaffolding and planking. These protective measures are the sole responsibility of the Contractor and site visits by the Engineer will not include observation of said measures. Construction materials placed on framed roofs or floors shall be spread out and the resulting loads shall not exceed the design live load for each level.
- Openings, pockets, etc. shall not be placed in slabs, foundations, walls, beams, columns, joists, etc. unless specifically detailed on the structural
- All phases of the work shall conform to the minimum standards of the 2022 California Building Code (CBC), these structural notes, and all local
- All ASTM specifications noted on these drawings or general notes shall be of the latest revision.
- Prefabricated/manufactured assemblies shall be designed to support themselves, and the assumed loads acting on them. Actual field dimensions shall be verified prior to ordering products. Material specifications, fabrication procedures, and installation recommendations to be per manufacturer, and as noted in these plans.
- Special inspection in accordance with Section 1704 of the CBC shall be provided by a qualified person who is acceptable to the Engineer and Building Department for the following types of work:

See Statement and Schedule of Special Inspection.

- The contractor shall contact the Engineer a minimum of 48 hours prior to reaching the following stages of the work:
- a) Placing of concrete. Steel framing erected.
- All structural work completed
- **FOUNDATION**

Foundation design based on soil investigation by BSK Associates Report No. G00-000-166, dated December 12, 2022.

- Allowable soil bearing values and foundation design are based on soil conditions shown by test borings. Actual soil conditions which deviate appreciably from that shown in the test borings or buried structures found during earthwork operations shall be reported to the Engineer immediately.
- All site work and grading shall be done in accordance with the Geotechnical Investigation Report.
- 4. All foundations shall bear in uniform material.
- Excavations for foundations shall conform to the lines and dimensions shown on the drawings. Remove all loose material and debris from excavations and de-water excavations as required to maintain dry working conditions. The Soils Engineer shall approve all site work and foundation excavations prior to installing reinforcing steel or placing concrete.
- The Soils Engineer shall approve all backfill materials prior to placement and observe backfill operations.
- The bottom of all footings shall be horizontal. Where adjoining footings bear at different elevations the bottom of the footings shall be stepped as detailed on the drawings.
- The Soils Engineer shall approve drilled pile excavations prior to placing

- All concrete work shall be performed in accordance with the latest edition of the ACI Building Code (ACI 318) and the latest edition of the ACI Manuals of Concrete Practice.
- Floor/slab flatness and levelness requirement shall be determined by the architect or owner. Testing as required to verify floor/slab flatness and levelness shall conform to ASTM E1155.
- Submit concrete mix designs to Engineer for review.
- Concrete strength: 4000 psi @ 28 days
- Minimum cement content: 6.0 sacks per yard
- Maximum water-cement ratio: 0.49 max water to cement ratio = 0.43 if pouring slab directly on vapor retarder
- Aggregate size: 1". Provide the maximum ratio of coarse aggregate to fine aggregate consistent with placing requirements.
- Maximum slump: 4-1/2" per ASTM C143.

- Concrete materials:
- a) Cement: Portland Type II, ASTM C150.
- b) Coarse aggregate: ASTM C33. Fine aggregate: ASTM C33. Reactivity ratio Sc/Rc shall not exceed
- one (1) per ASTM C289.
- d) Water: potable.
- e) Ready mixed concrete: ASTM C94.
- Water reducing admixture: As required, submit to EOR for review. Air entraining admixture (recommended): Provide between 2% and 4% of entrained air, submit product to EOR for review. Air entraining

admixture is recommended for all concrete except hard troweled

- 10. Reinforcing materials: a) ASTM A615 Grade 60.
- b) Welded wire fabric: ASTM A1064
- c) Reinforcing for welded inserts: ASTM A706 Grade 60. All bars to be welded shall be marked with a W to designate weldability.
- d) Cold drawn spiral reinforcing: ASTM A1064.

11. Miscellaneous materials:

- a) Sand base under slab on grade: Clean sand with less than 3% passing the #200 sieve and no deleterious material content.
- Capillary break base under slab on grade: Clean, coarse sand and/or gravel with 100% passing the 1" sieve, 0-20% passing the #16 sieve, and 0-3% passing the #200 sieve, and no deleterious material
- c) Vapor retarder: Per Geotechnical Report, 15 mil STEGO Wrap or
- approved equal. d) High-strength grout and/or drypack: Non-shrink, non-metallic aggregate type per ASTM C1107. Minimum compressive strength of 7,000psi at 28 days when placed in a fluid state. Mix and apply as
- directed by manufacturer. BASF Masterflow 928 or approved equal. e) Curing compounds: Water based liquid membranes conforming to ASTM C309 when tested in accordance with ASTM C156: EUCLID Aqua-Cure or approved equal.
- Expansion joint material: Conform to ASTM D-1751.
- g) Joint Sealant: Sikaflex 1c SL
- 12. Welding of reinforcing steel: Reinforcing steel shall not be welded unless specifically detailed on the drawings or directed by the Engineer. All welding of reinforcing steel shall be in accordance with the latest edition of "Recommended Practice for Welding Reinforcing Steel, Metal Inserts, and Connections in Reinforced Concrete Construction" by the AWS (AWS D1.4). Use low hydrogen E80xx or E90xx electrodes for welding of reinforcing
- 13. Lap splices: See Schedule
- 14. Cover to bars: See Schedule.

experienced personnel.

- 15. Concrete curing: Keep concrete continuously wet for 7 days or apply curing compound in strict accordance with manufacturer's printed instructions.
- 16. Form removal: Remove forms in accordance with the following schedule: a) Side forms of footings: Minimum 2 days.
- Edge forms of slab on grade strips: Minimum 1 day
- Side forms of joists, beams, and girders: Minimum 3 days.

d) Walls and columns: Minimum 10 days.

- 17. Vibration: Vibrate all concrete in place with a mechanical vibrator used by
- 18. Outside diameter of conduit or pipe embedded in slab shall not exceed 30% of slab thickness, or 1-1/2", whichever is smaller, unless specifically detailed otherwise. All conduits or pipes larger than the 1-1/2" or 30% slab thickness (O.D.) shall be placed under the slab. Conduits can be grouped in pairs. Minimum clear distance between single conduits or pairs shall be 6". Conduits shall be wrapped in a manner suitable to provide a bond break, and allow concrete expansion/shrinkage.
- 19. Projecting corners of walls, beams, columns, etc. shall be formed with a 3/4" chamfer unless specifically noted otherwise.

20. Testing:

- Laboratory: The Owner shall retain the services of a Testing Laboratory where samples will be tested in accordance with these structural notes and the applicable standards of the ASTM. Work under this division (to be performed by the Contractor) includes the
- taking and storage of samples and their delivery to the laboratory. Minimum samples: Make a minimum of 3 test cylinders for each day's pour, and as required by ACI 318.
- c) Minimum testing of samples: Test cylinders as follows: 1 at 7 days, and 2 at 28 days.
- d) Test reports: A copy of all test reports shall be submitted to the
- 21. Shop drawings: Submit to the Architect and Engineer for review. No reinforcing shall be placed until reviewed shop drawings have been received on the job. Shop drawings shall consist of both cut and placing sheets. Placing sheets shall contain all information required to position all reinforcing steel without having to refer to the structural drawings.

CONCRETE BLOCK MASONRY

Concrete block masonry units: Hollow medium weight aggregate single or double open end bond beam units conforming to ASTM C90 Grade N, Type I. For color and exterior finish, refer to Architectural drawings. Minimum f'm = 2000 psi.

Mortar:

- a) Strength: 2500 psi @ 28 days (ASTM C270).
- b) Composition: Type M with Portland cement in accordance with CBC
- c) Slump: 2-1/2" to 3".
- 3. Grout: Transit mix.
- a) Strength: 2500 psi @ 28 days.
- b) Composition: Submit mix design to Engineer for review: minimum 7 sacks of Portland cement per yard; 60% fine aggregate and 40% coarse aggregate.
- Admixture: Sika Grout Aid, Type 2, used in accordance with the manufacturer's printed instructions.
- d) Consistency: Grout shall be of fluid consistency and shall be pumped

- 4. Reinforcing materials ASTM A615 Grade 60.
 - Reinforcing for welded inserts: ASTM A706. All bars to be welded shall be marked with a W to designate weldability.
- Grouting operation: All masonry walls shall be grouted using high lift grouting procedure in accordance with the latest revision of IR 24-4 produced by the California Office of the State Engineer. Masonry units shall be dry at the time they are grouted. Red tape shall be wrapped around the vibrator shaft at the start of each lift such that the tape will be even with the top of the wall being poured when the vibrator has penetrated half way into the previous lift.

- 6. Lap splices of reinforcing steel per schedule, unless noted otherwise.
- 7. Shop drawings: Submit reinforcing steel shop drawings to the Engineer for review. No reinforcing shall be placed until reviewed shop drawings have been received on the job. Shop drawings shall consist of both cut and placing sheets. Placing sheets shall contain all information required to position all reinforcing steel without having to refer to the structural drawings.

STRUCTURAL STEEL AND MISC METALS

1. See Architectural drawings for finishes on steel framing. Steel exposed to weather shall be primed and painted with a high-performance exterior coating approved by the Architect and Engineer or hot-dip galvanized (see below), unless noted otherwise.

- Materials, unless noted otherwise:
- a) Wide flange shapes: ASTM A992. Tubular shapes (Rectangular & Round): ASTM A500 Grade C.
- All other structural steel: ASTM A36.
- All-thread rod: ASTM F1554.
- e) Bolts: ASTM A307.
- Nuts: ASTM A563A. High strength bolts: ASTM F3125 A325-N.
- High strength nuts: ASTM A563DH.
- High strength bolt washers: ASTM F463 Type 1. Welded headed studs: ASTM A108.
- Welding filler metal classification strength: 70 ksi

At A193 ATR use: ASTM A194 Grade 8.

- Stainless steel plate: Type 304 or 316.
- m) Stainless steel all thread rods and bolts: As noted on plan and details. n) Stainless steel nuts: At F593 ATR use: ASTM F594 CW1 or CW2 (316)
- 3. Installation of high strength bolts: In accordance with AISC "Specification
- for Structural Joints Using ASTM A325 or A490 Bolts" turn-of-nut method.
- Holes for bolts & threaded rods shall be standard size and nuts/bolts shall be installed Snug Tight per AISC, unless noted otherwise.
- All welds to conform to AWS D1.1 and shall use prequalified welding procedure specifications (WSPs). The Engineer shall be notified where alternate qualification of the weld process are required.
- Copes and weld access holes shall conform to AWS D1.1 for tension regions
- Cable railing: Cable railing shall be stainless steel wire rope (sswr) 1x19, Type 304 or 316. Tension cables to force specified on plans and details. Terminate cables on end posts with threaded terminal with nuts & washers or washer-nuts. Connect cable to threaded terminal with connection (machine swage, etc) to match cable break strength. At cable penetrations in railing post isolation bushing or grommets may optionally be provided.
- 8. Galvanizing: Steel sections, assemblies, and miscellaneous iron angles, clips, connection hardware, and other elements exposed to weather shall be hot-dip galvanized. Hot-dip galvanized steel framing shall be per ASTM A123 Class 55 minimum. Hot-dip galvanized connection hardware shall be per ASTM A153 or F2329. High-strength bolts per ASTM F3125 A325 may be mechanically galvanized per ASTM B695 Class 55. Mating bolts and nuts shall receive the same zinc-coating. Repair all uncoated, damaged, or altered galvanized surfaces per ASTM A780. Where field welds are specifically called out, remove zinc completely in the area of the weld. Do not water quench galvanized members and assemblies.
- Shop drawings: Submit to the Architect and Engineer for review. Shop and erection drawings shall contain all information required to install all structural steel without having to refer to the structural drawings. Where member or assemblies are required to be galvanized, shop and erection drawings shall also indicated size and location of drain holes as required per ASTM A385.

- 1. Reference Standards:
- AISI "North American Specification for the Design of Cold-Formed
- Steel Structural Members' b) AISI "Standard for Cold Formed Steel Framing - General Provisions"
- AISI "Standard for Cold Formed Steel Framing Floor and Roof
- d) AISI "Standard for Cold Formed Steel Framing Header Design"
- e) AISI "Standard for Cold Formed Steel Framing Wall Stud Design"
- AISI "Standard for Cold Formed Steel Framing Lateral Design"
- AWS D1.3 "Structural Welding Code Sheet Steel."

Materials:

a) Structural Sections:

- 54, 68 and 97-mil; ASTM A1003 Grade 50 Type H or ASTM A653
- SS Grade 50 Class 1, Min Fy = 50 ksi. • 33 and 43-mil; ASTM A1003 Grade 33 Type H or ASTM A653 SS
- Grade 33 Class 1, Min Fy = 33 ksi. • "Z" or "C" Metal Building or Canopy Purlins or Girts; ASTM A653 Grade 55 (fy = 55 ksi)
- b) Sheet Metal Screws: Grabber, Buildex, or Simpson Strong-Tie Self-Drilling, #10 screws unless noted otherwise on drawings; ASTM C1513 or SER approved alternate
- Powder-Actuated Fasteners to Steel: Simpson Strong-Tie PDPAT in accordance with ICC ESR-2138 Powder-Actuated Fasteners to Concrete: Simpson Strong-Tie PDPAT in accordance with ICC ESR-2138, with \(^3\)\(^4\)" embedment unless noted
- Weld Material: E60XX electrodes conforming to AWS D1.3 Studs and Track shall be galvanized in accordance with ASTM A653 G60, unless in contact with pressure treated wood. If in contact with pressure treated wood, use G90 or greater coatings. Fastenings not shown on the drawings shall be as recommended by the manufacturer.
- Size and Profile: Cold-formed steel framing members shall be as specified in the Steel Stud Manufacturer's Association ICC ESR-3064P and of the size and profile as shown on the drawings. Alternate members equivalent in shape, size, and strength by manufacturers not members of the Steel Stud Manufacturer's Association shall be subject to review and approval by the Architect / Engineer.
- 4. Connectors and Fasteners: Connectors shall be installed per the manufacturer's instructions. All screws shall be snug with the steel surface and shall penetrate into steel studs by a minimum of three exposed threads. Connections shall not be stripped. Screws, $\frac{1}{4}$ " or smaller, shall be installed a minimum of 3/8" from steel edges and with no less than $\frac{3}{4}$ " o.c. spacing.

- When fastening to structural steel, Powder Actuated Fasteners shall be installed a minimum of 1/2" from steel edges and with no less than 1" o.c. spacing. When fastening to concrete, Powder Actuated Fasteners shall be installed a minimum of $3\frac{1}{2}$ " from concrete edges and with no less than 5" o.c. spacing. Powder Actuated Fasteners shall not be used for hanging applications.
- 5. Full-Height Non-Load-Bearing Stud Walls: Full height non-load-bearing stud walls shall be attached to concrete slabs above with deflection track to allow for differential vertical floor deflections under live loads. Maintain $\frac{3}{4}$ " gap between top of studs and slab unless noted otherwise on plan.
- Member Condition: All structural cold-formed framing members must be in good condition. Damaged members, members with cracking in the steel at the bend radius locations, and members with significant red rusting or scaling of the protective coating are unacceptable and must be replaced, unless approved by the Engineer. Members not meeting tolerances listed below shall be replaced prior to loading.
- 7. Erection and Tolerances: Cold-formed steel framing shall be erected true and plumb per the requirements and within the specified tolerances listed below. For purposes of this section, camber is defined as the deviation from straightness of a member or any portion of a member with respect to its major axis, and sweep is defined as the deviation from straightness of a member or any portion of a member with respect to its minor axis.
- a) For joists, track, and axial load bearing studs, out of plumbness and out of straightness (camber and sweep) shall not exceed 1/1000th of the member length (1/8" over 10'-0").
- b) Erect framing in accordance with manufacturer's instructions. c) Studs shall seat into top and bottom tracks. The gap between the end of the stud and the web of the track shall not exceed 1/16" for
- axial load bearing studs. d) Joists and end stiffeners shall be located directly over studs. The use of a wall top track as a load distribution member is not permitted.
- When provided, factory punchouts will be located along the center line of the webs of the stud members and will have a minimum center-to-center spacing of 24" and a minimum clear end distance of 10". Punchouts for members greater than 2 ½" deep are a maximum of 1 ½" wide x 4 ½" long. Members with depths 2 ½" and smaller are maximum ¾" wide x 4 ½" long. Any configuration or combination of holes that fit within the punchout width and length limitations mentioned above shall be permitted; other punchout configurations and locations not in compliance with limitations listed above must be approved by a design professional. Values herein are based on punchout configuration and location as described above.
- 9. Field Cuts and Notches: Field cuts and notches of any kind (including widening pre-punched holes) are NOT allowed in any structural cold-formed steel member without prior approval from Engineer.
- 10. Shop drawings: Submit to the Architect and Engineer for review. Shop and erection drawings shall contain all information required to install all structural steel without having to refer to the structural drawings. Where member or assemblies are required to be galvanized, shop and erection drawings shall also indicated size and location of drain holes as required per ASTM A385.

FASTENERS IN HARDENED CONCRETE

- Substitution requests for products other than those listed below and noted in plans and details may be submitted to the SEOR for review. Substitutions may be considered for products having a code report recognizing the product for the appropriate application and project building code.
- Locate existing reinforcement prior to installation of fasteners

Reinforcement shall not be cut unless approved by the SEOR.

3. Anchors that will be exposed to weather shall be stainless steel or hot dip galvanized material unless noted otherwise.

- Adhesive Anchors: a) Adhesive anchors using HILTI HIT-RE 500 V3 Epoxy shall be installed in accordance with the ICC Report No. ESR-3814 & the
- manufacturer's printed installation instructions. b) Adhesive anchors using Simpson SET-3G Epoxy shall be installed in accordance with the ICC Report No. ESR-4057 & the manufacturer's
- printed installation instructions. c) Adhesive anchors using Simpson SET-XP Epoxy shall be installed in accordance with ICC Report No. ESR-2508 & the manufacturer's printed installation instructions. SET-XP many only be used for slab
- dowels unless specifically noted otherwise. d) Installation of adhesive anchors shall be performed by personnel trained to install adhesive anchors
- e) Concrete shall have a minimum age of 21 days, and the design concrete strength (f'c) shall be met. Nominal hole depth & diameter shall be as indicated on the
- drawings. Additional hole length & width and fastener length shall be provided as required by the manufacturer for the specified nominal dimensions. Holes shall be dry, oil- and dust-free.
- g) Anchor spacing and edge distance shall be as shown on the drawings but not less than the minimum allowed in the ICC Report. Holes shall be drilled with a hammer drill with carbide tipped bits.

i) In areas receiving adhesive anchors, all existing reinforcement shall

be located in order to avoid damaging the reinforcement while installing the anchors. Periodic special inspection is required for the installation of adhesive anchors, except continuous special inspection is required at overhead (vertically up or upward inclined) installations. Installation of adhesive anchors horizontally or upwardly inclined to support sustained

tension loads shall be performed by personnel certified by an

5. Screw Anchors: a) Screw anchors using carbon steel or stainless steel HILTI KWIK HUS-EZ (KH-EZ) concrete anchors and shall be installed in accordance with ICC Report No. ESR-3027 & the manufacturer's

applicable certification program.

- printed installation instructions. b) Screw anchors using carbon steel or stainless steel Simpson Titen HD concrete anchors shall be installed in accordance with ICC Report No. ESR-2713 & the manufacturer's printed installation instructions.
- concrete strength (f'c) shall be met. d) Hole depth & diameter shall be as indicated on the drawings. e) Anchor spacing and edge distance shall be as shown on the drawings

but not less than the minimum allowed in the ICC Report.

f) Holes shall be drilled with a hammer drill with carbide tipped bits.

g) In areas receiving screw anchors, all existing reinforcement shall be

c) Concrete shall have a minimum age of 7 days, and the design

located in order to avoid damaging the reinforcement while installing h) Periodic special inspection is required for the installation of screw

- Substitution requests for products other than those listed below may be submitted to the E.O.R for review. Substitutions may be considered for products having a code report recognizing the product for the appropriate application and project building code.
- Strut members & hardware as shown in the latest edition of the "Atkore Unistrut" catalog. Install all hardware in strict accordance with the manufacturer's printed instructions. Fill all holes required by manufacturer for maximum hardware strength, unless noted otherwise.
- Strut members & hardware shall be steel or stainless steel, unless noted
- Strut members & hardware that will be exposed to weather shall be stainless steel or hot dip galvanized material, unless noted otherwise.
- Where channel nuts are required to resist slip, provide any of the following channel nuts: P1006-1010 or P3006-3010, unless noted otherwise. Torque bolts per manufacturer's instructions for maximum allowable resistance to
- Where hardware required set screws, torque screws per manufacturer's instructions for maximum hardware strength, unless noted otherwise.

ANCHOR BOLT

ALASKA CEDAR

ADDITIONAL

ALUMINUM

ALTERNATE

BLOCK(ING)

BOTTOM

BETWEEN

CALIFORNIA

CANTILEVERED

CEILING JOISTS

CONCRETE

CENTERED

DOUBLE

DIAMETER

DECK JOIST

DECK BEAM

DRAWING

EACH FACE

ELEVATION

EXPOSED

EXTERIOR

FLOOR BEAM

FOUNDATION

FINISH GRADE

FIELD NAILING

FACE OF CONCRETE

FLOOR JOIST

FLOOR

FRAMING

FAR SIDE

FOOTING

GAUGE

GRADE BEAM

HOLDOWN

HEADER

HOOK

HANGER

HORIZONTAL

INTERIOR

KING POST

MAXIMUM

MINIMUM

NOT TO SCALE

OPPOSITE HAND

PERPENDICULAR

PRESSURE TREATED DOUGLAS FIR

STRUCTURAL ENGINEER OF RECORD

ON CENTER

POST ABOVE

ROOF BEAM

REFERENCED

ROOF RAFTER

REQUIRED

SCHEDULE

SHEATHING

SHEET METAL SCREW

STAINLESS STEEL

TOP & BOTTOM

TONGUE & GROOVE

UNLESS NOTED OTHERWISE

STANDARD

TRIM POST

THICK(NESS)

TOP OF WALL

VERIFY IN FIELD

VERIFY WITH ARCH

VERIFY WITH CIVIL

VERIFY WITH MECH

VERIFY WITH OWNER

WELDED THREADED STUD

VERIFY WITH GEOTECH

TYPICAL

VERTICAL

SIMILAR

SOUARE

NEW

INFORMATION

GLUE LAMINATED BEAM

HOT DIP GALVANIZED

EMBEDMENT

EXISTING

EACH

CONNECTION

CONTINUOUS

CLEAR/CLEARANCE

CENTER OF GRAVITY

CONCRETE MASONRY UNITS

SHEARWALL EDGE NAILING

FINISH FLOOR ELEVATION

FACE OF STUD, OR FACTOR OF SAFETY

ENGINEERED WOOD PRODUCT

ENTIRE WALL LENGTH

ARCHITECTURA

ALL THREAD ROD

ALASKA-YELLOW CEDAR

DIAPHRAGM BOUNDARY NAILING

ABBREVIATIONS

ADD'L

ALUM

ARCH

ATR

AYC

BOT

BTWN

CALIF

CLR

CMU

CONC

CONN

CONT

DBL

DB

DWG

ELEV

EWL

EWP

FXP

FDN

FOC

FOS

FTG

GΑ

GB

GLB

HDG

HDR

HGR

HORIZ

INFO

LONG

MFR

MAX

NTS

PERP

PTDF

REF'D

REQ'D

SCHED

SEOR

SHTG

SIM

SMS

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STD

T&B

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VWM

VWO

WTS

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INT

FRMG

EMBED

CNTR(D)

DIA OR Ø

CANT'L

BLK(G)

ALT

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ENGINEERS

Structural Sheet Index			
Sheet Number	Sheet Title		
S1.0	General Notes		
S1.1	Special Inspection		
S1.2	Typical Details		
S2.0	Site Plan		
S2.1	Pump Station Plans		
S3.1	Pump Station Details		
S3.2	Pump Station Details		

DESIGN NOTES:

Dead Loads:

a) Roof uniform distributed load: 6.0psf (Projected on Horiz. Plane) -

Add 2.5 psf for solar for seismic (not concurrent with roof live)

Roof Live Load = 20psf

a) Occupancy Risk Category = II b) Basic Wind Speed (3-sec gust) = 94 mph

Wind design data:

b) Wind Exposure(s) = C 4. Earthquake design data: a) Occupancy Risk Category = II b) Seismic Importance Factor, i = 1.0 c) Mapped Spectral Response Accelerations, $S_S = 0.887q \& S_1 = 0.317q$ d) Site Class = D

e) Spectral Response Coefficients, $S_{DS} = 0.677q \& S_{D1} = 0.419q$

f) Seismic Design Category = D g) Basic Seismic-Force Resisting System(s) = Steel Ordinary Cantilever 1) Seismic Response Coefficients, $C_S = 0.542W$ 2) Response Modification Factor, R = 1.25

3) Base Shear, $V_b = 2.82k$ h) Analysis Procedure Used = Equivalent Lateral Force

Design Allowable Bearing Values of Soils: 2,700psf

Special Loads: none

LIMITATIONS/SCOPE DEFINITION: THE SCOPE OF THE DESIGN HEREIN IS FOR THE ELEMENTS DETAILED ONLY. EQUIPMENT ANCHORAGE DETAILS PROVIDED ARE FOR ANCHORAGE ONLY, EQUIPMENT SHALL BE ENGINEERED FOR THE DESIGN LOADS BY OTHERS (MFR) INCLUDING CABINET SUPPORT OF INTERNAL & EXTERNAL

SUBMITTALS REQUIRED FOR REVIEW FOR THIS SCOPE ARE:

NOTES ON EQUIPMENT ANCHORS/ANCHORAGE:

- VERIFY ALL DIMENSIONS IN FIELD IF DIMENSIONS VARY CONTACT ENGINEER PRIOR TO INSTALLATION. WHERE ANCHORS ARE SPECIFIED FOR EQUIPMENT, CONTRACTOR SHALL VERIFY ANCHOR PLATE (PER
- DETAILED. UNLESS NOTED OTHERWISE, SPECIFIED ANCHOR MINIMUM EDGE DISTANCES ARE ALL AROUND/ALL SIDES. MINIMUM ANCHOR EDGE DISTANCES ARE FOR ANCHORAGE DESIGN ONLY, ADDITIONAL EDGE DISTANCES MAY BE REQUIRED FOR SLAB/SUPPORT
- SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.
- DEFERRED SUBMITTAL IS ONLY REQUIRED FOR EQUIPMENT ANCHORAGE WHERE NOTED ON PLAN



COUNTY OF KERN GENERAL SERVICES DIVISION OF THE

1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

COUNTY ADMINISTRATIVE OFFICE

HART MEMORIAL PARK ADVENTURE

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS CHAIRMAN BOARD OF SUPERVISORS ECOMMENDED FOR APPROVAL

CHIEF GENERAL SERVICES OFFICER

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, THE PROPERTY OF THE CONSTRUCTION SERVICES THE PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN.

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INACCURACIES FOUND IN THE DEVELOPMENT OF THESI INSTRUMENTS OF SERVICE.

CONSULTANT STAMP

REV DESCRIPTION HEET NO. 09/20/24

DESIGNED BY HECKED BY RAWING FILE 1650.7014-21 20MM010

> HART PARK PROP 68 IMPROVEMENTS **GENERAL NOTES**

COMPONENTS. LONGITUDINAL MANUFACTURER **MACHINE BOLT** ANY ELEMENTS THAT ARE DIFFERENT THAN NOTED HEREIN, THIS WOULD INCLUDE, BUT IS NOT LIMITED

> TO EQUIPMENT WEIGHTS, SIZES & LAYOUTS OR PROPOSED ALTERNATE CONNECTIONS

WHERE NOTED IN PLANS AND DETAILS

THE DETAILS IN THIS PACKAGE FOR ARE UNIT ANCHORAGE ONLY. UNITS THEMSELVES ARE DESIGNED BY OTHERS.

MFR) HOLE DIMENSION. IF ANCHOR SPECIFIED DOES NOT FIT OR IS MORE THAN 1/8" SMALLER IN DIAMETER, CONTACT ENGINEER UNLESS IT IS EXPLICITLY

CAPACITY AND STABILITY, ACCESS CLEARANCE AROUND UNITS, ETC.

Project: _ Location:	Hart Park Pun Levee & Lake	np Staion Road, Bakersfield, CA		
	•		•	irements of CBC Sections 1704. Included are
• Scheau		ections and tests applicable ections per Sections 1704		
	•	ections for Seismic Resista		
	•	ections for Wind Resistanc		
• List of	Testing Agencies a	nd other special inspector	rs that will be retai	ned to conduct the tests and inspections.
	ctions and Testing d CBC Sections 170		rdance with the ap	oproved plans and specifications, this
The Schedule	of Special Inspect	ions summarizes the Spec	ial Inspections and	d tests required. Special Inspectors will refer
to the approv	ed plans and spec		cial inspection req	uirements. Any additional tests and
			and the Registered	Design Professional in Responsible Charge
	t of Special Inches		ad Charial Inchart	ions testing and correction of any
discrepancies	noted in the inspe	ections shall be submitted		ions, testing and correction of any of a Certificate of Use and Occupancy (Section
	e Final Report will			
•	ed special inspection	es noted in inspections.		
	•	•	t the construction	complies with the approved permit
documents ar	nd to implement th		pections. In partia	I fulfillment of these obligations, the Owner
		vith the understanding tha	_	
		•	•	will perform the inspections. Special Inspectors are qualified and are
		n activities on the job site s called for in this Stateme		
 Review 	submitted inspect	tion reports.		
 Perforn 	n inspections as re	quired by the local buildir	ng code.	
Prepared by:				
	ırphy, SE 6150			
		in Responsible Charge		
Registered De	esign Professional	in Responsible Charge		
1.1/				
	h	09-20-2024		
Signature	h	09-20-2024 Date		
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their position(s) in the organization.

system, designated seismic system or a wind or seismic resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following: (1) Acknowledgement of awareness of the special requirements contained in the statement of special inspections. (2) Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the building official. (3) Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of the reports. (4) Identification and qualification of the person(s) exercising such control and

SCHEDULE OF SPECIAL INSPECTION

Notation Used in Table:

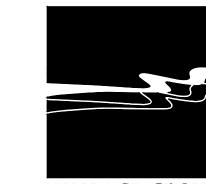
Column headers:

Indicates continuous inspection is required.

Indicates periodic inspections are required. The notes and/or contract documents should

Box entries: Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections. Denotes an activity that is either a one-time activity or one whose frequency is defined in some

eq'd This Job	Verification and Inspection	С	P	Notes
Х	1705.2.1 - Structural Steel (Alum Sim.)			
x	 Review material test reports and certifications (AISC 360 N5.2) 			
Х	2. Inspection of welding (AISC 360 N5.4)			AWS certified inspector required
	3. NDT of welded joints (AISC 360 N5.5)			For Risk Category II structures, NDT shall be performed on 10%
	4. Inspection of high strength bolting (AISC 360 N5.6)			of CJP groove welds with materials $\frac{5}{16}$ " thick or greater.
Х	 Verify compliance of fabricated and erected members with construction documents (AISC 360 N5.7) 			For Risk Category III & IV structures, NDT shall be performed on CJP groove welds
	6. Headed studs and anchors (AISC 360 N6)			with materials $\frac{5}{16}$ " thick or greater.
	7. Inspection of deck attachment (AISC 360 N5.2)			
Х	1705.3 - Concrete Construction			
Х	 Inspection of reinforcing steel, including prestressing tendons and verify placement 		x	
	Reinforcing bar welding: a. Verify weldability of reinforcing bars		V	
	other than ASTM A706;		X	
	 b. Inspect single-pass fillet welds, maximum ⁵⁄₁₆"; and c. Inspect all other welds 	X	X	
Х	3. Inspection of anchors cast in concrete		Х	
	Inspection of anchors post-installed in hardened concrete members:			Verify with manufacturer
	a. Adhesive anchors installed in	Χ		
X	horizontally or upwardly inclined orientations to resist sustained tension			
	loads b. Mechanical anchors and adhesive		$\mid x \mid$	
	anchors not defined in 4.a		. V	
X	5. Verify use of required design mix		X	
Х	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	Х		
Х	7. Inspect concrete and shotcrete placement for proper application techniques	Х		
Х	Verify maintenance of specified curing temperature and techniques		Х	
	9. Inspection of prestressed concrete for:a. Application of prestressing forces; andb. Grouting of bonded prestressing tendons	X X		
	Inspect erection of precast concrete members		Х	
	11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		х	
Х	12. Inspect formwork for shape, location and dimensions of the concrete member being formed		х	
Х	1705.6 - Required Special Inspections and T	ests o	f Soils	
Refer to Geotechnical Report	 Verify materials below shallow foundations are adequate to achieve the desired bearing capacity. 		X	Refer to Geotechnical Report I
	Verify excavations are extended to proper depth and have reached proper material.		х	
	Perform classification and testing of compacted fill materials.		х	
	4. Verify use of proper materials, densities lift thicknesses during placement and compaction of compacted fill.	Х		
	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		х	
Х	1705.12 - Special Inspections for Seismic Re	sistan	ce	
	1 Ctrustural Ctool Chasial Inspections for		I	
x	Structural Steel Special Inspections for Seismic Resistance:			

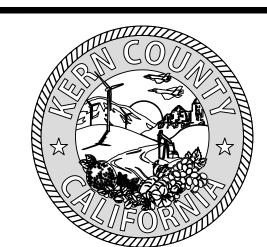


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805-748-3693



COUNTY OF KERN GENERAL SERVICES DIVISION OF THE

COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

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CHAIRMAN BOARD OF SUPERVISORS	DA
RECOMMENDED FOR APPROVAL DEPARTMENT	
DIRECTOR	DA
RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION	

CHIEF GENERAL SERVICES OFFICER

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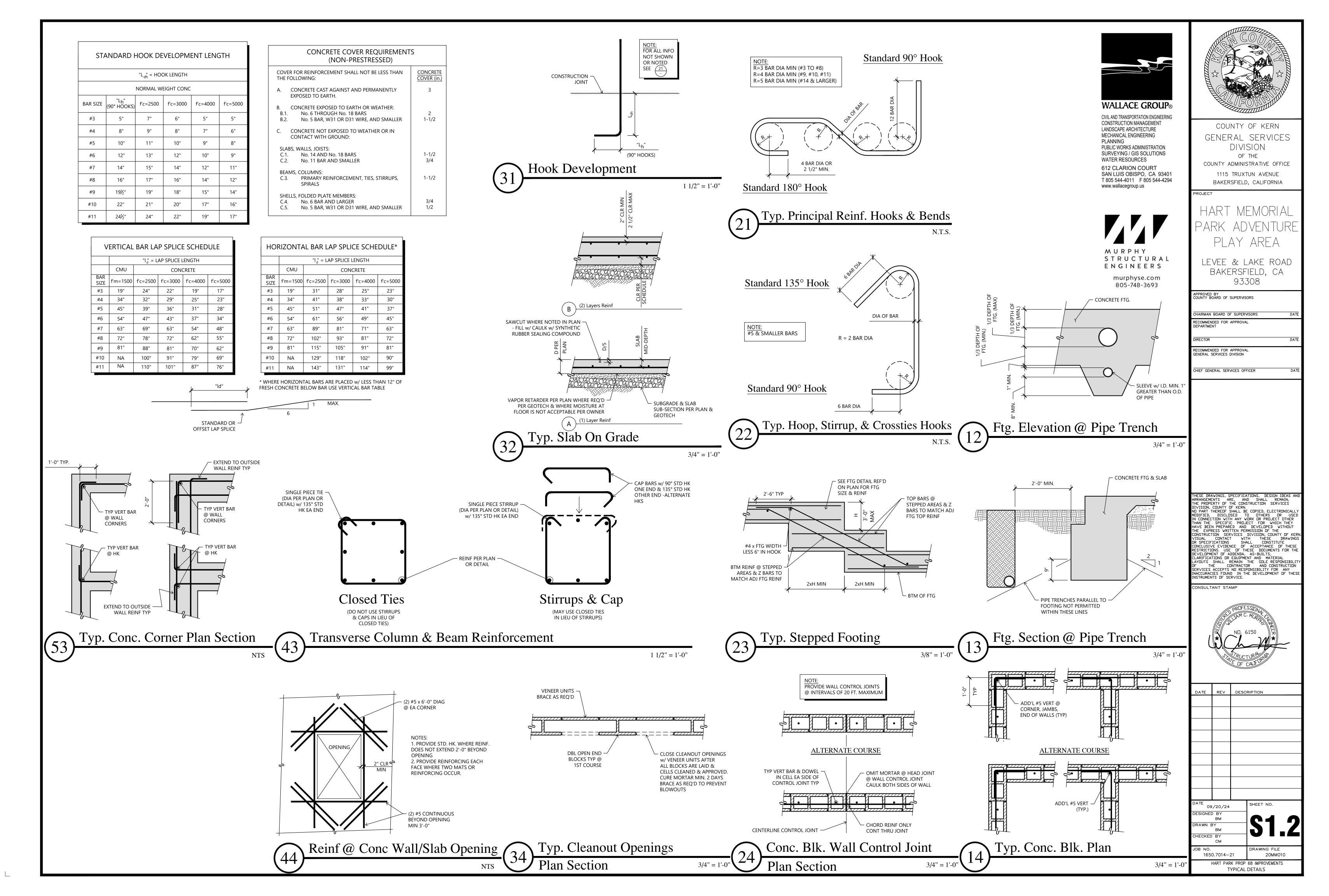
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HART PARK PROP 68 IMPROVEMENTS SPECIAL INSPECTION



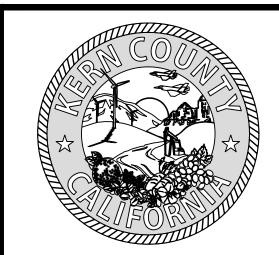


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SCALE: 1/16" = 1'-0"



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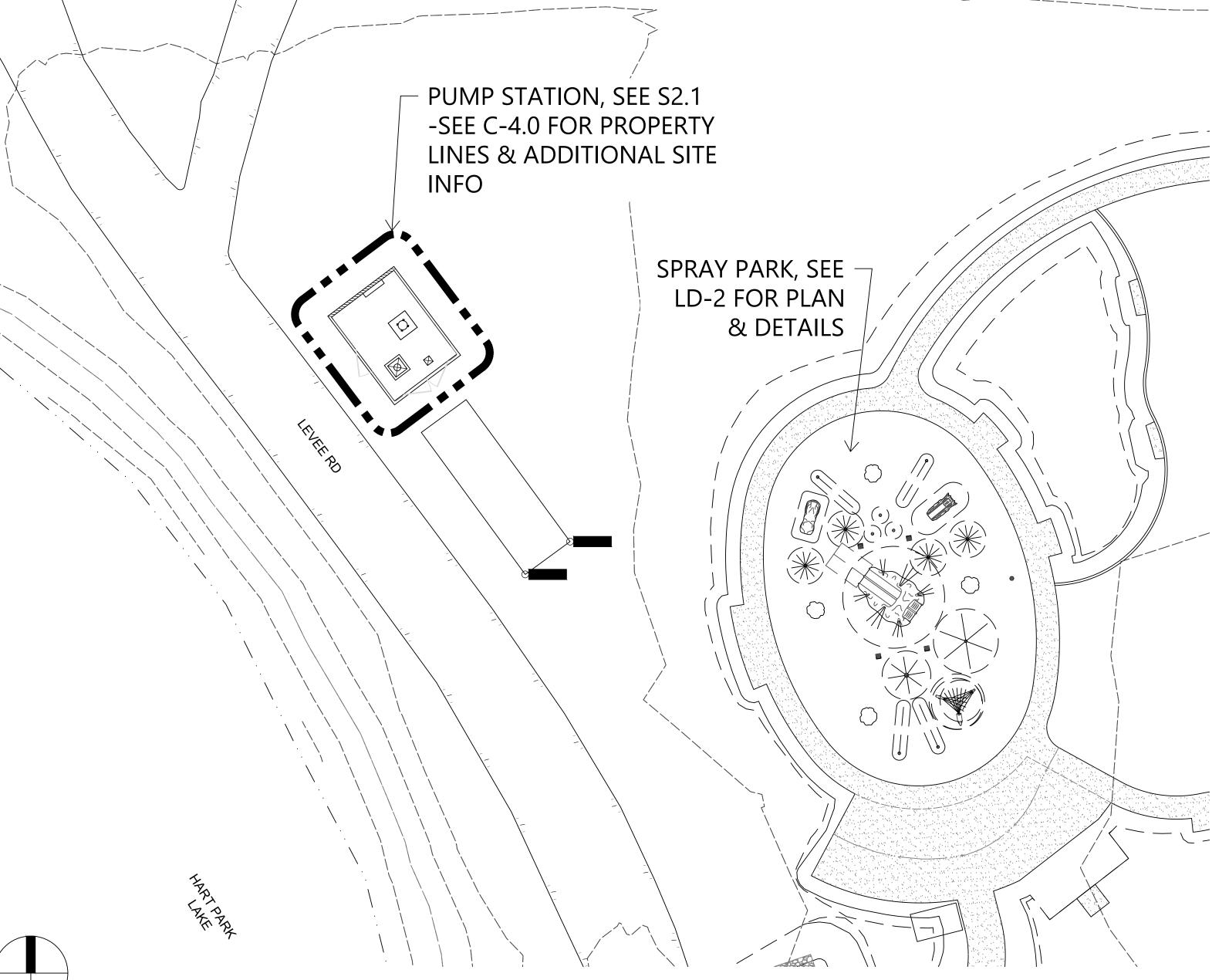
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HART PARK PROP 68 IMPROVEMENTS SITE PLAN

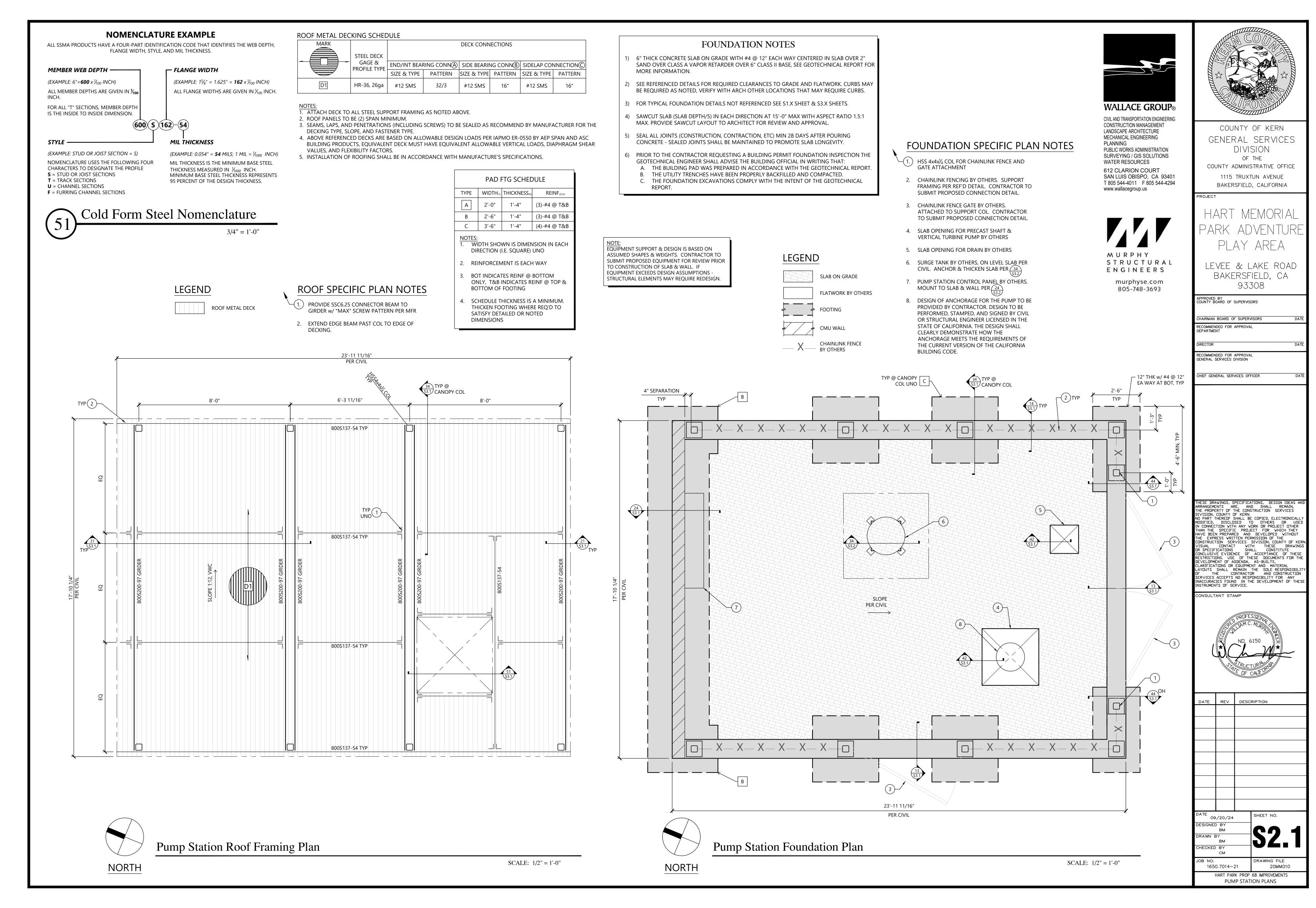
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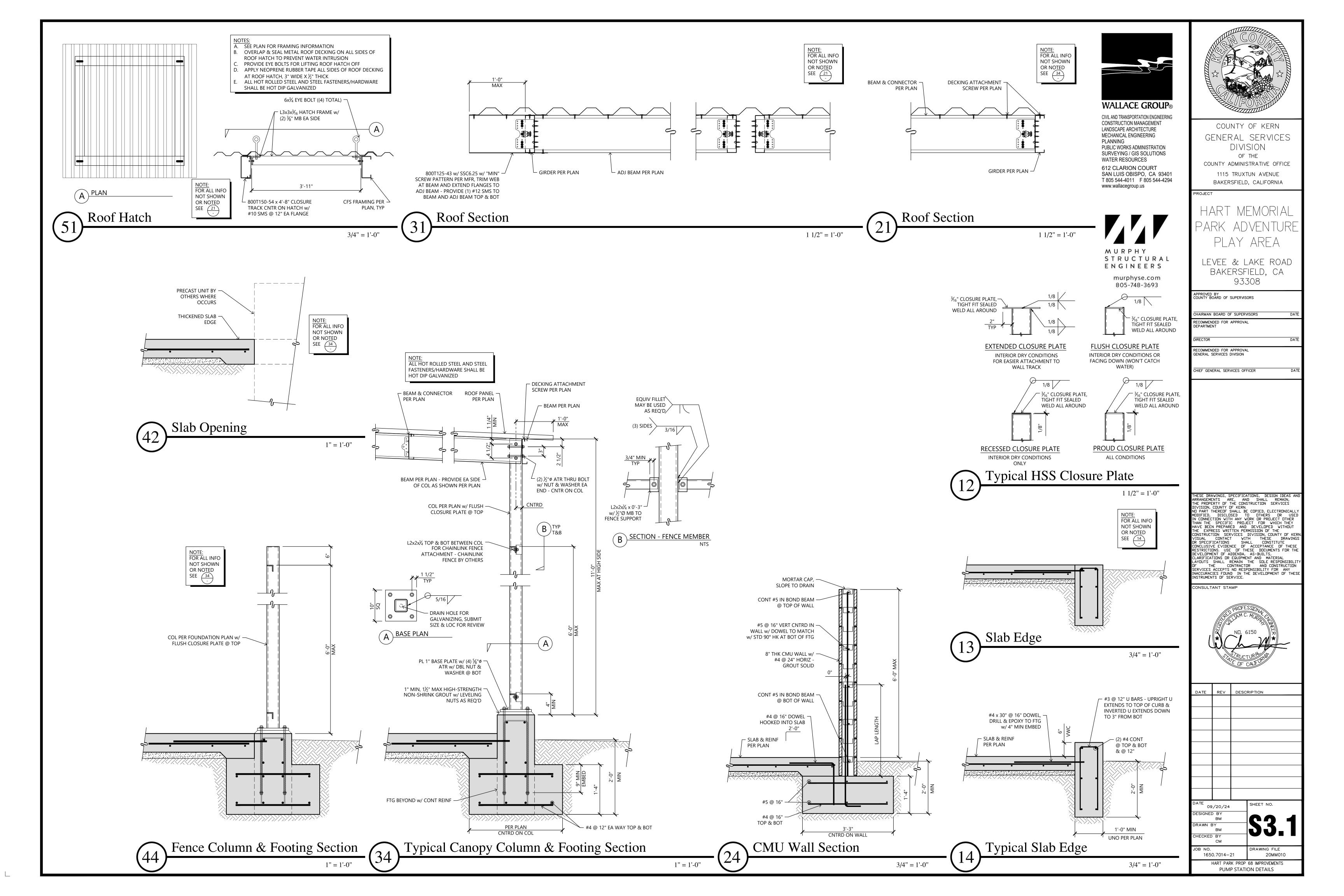
PUMP STATION, SEE S2.1 -SEE C-4.0 FOR PROPERTY LINES & ADDITIONAL SITE INFO SPRAY PARK, SEE LD-2 FOR PLAN & DETAILS Site Plan



NORTH



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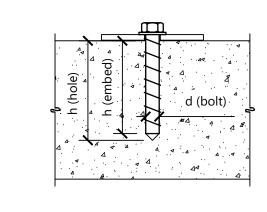
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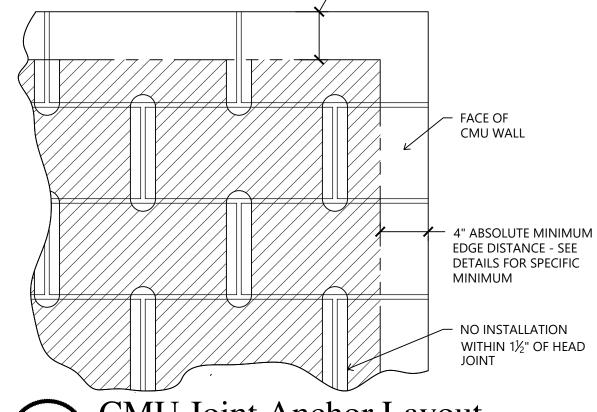
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Titen HD Diameter (in.)	Wrench Size (in.)	Recommended Fixture Hole Size (in.)	Min. Hole Deptl Overdrill (in.)	
1/4	3/8	¾ TO ¼ ₆	1/8	
3/8	% ₁₆	½ TO % ₆	1/4	
1/2	3/4	5⁄8 TO 11∕16	1/2	
5/8	¹⁵ / ₁₆	¾ TO ¹ ¾ ₁₆	1/2	
3/4	1 1/8	⅓ TO ¹⁵ ⁄₁6	1/2	

Typ. Titen Screw Anchor Install. 1 1/2"



CMU Joint Anchor Layout 1 1/2" = 1'-0"

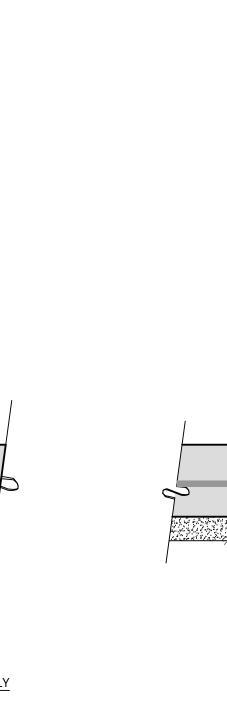
EQUIPMENT ASSUMPTIONS

PUMP STATION CONTROL PANEL: ASSUMED MAX OP. WT. = 40psf (480# PER 24")

/ 4" ABSOLUTE MINIMUM EDGE DISTANCE

- SEE DETAILS FOR SPECIFIC MINIMUM

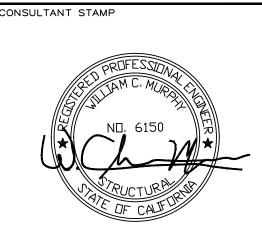
ATTACHMENT TO WALL AT TOP & BOT OF UNIT PER DETAIL HEIGHT = 72" (MAX CG HT FROM BASE OF CABINET = 36")



ANCHORAGE FOR STRUT, 3/8" SS TITEN HD @ 24" MAX - (2) ANCHORS MIN PER STRUT SEGMENT, LOCATED AT EA END & WITHIN 2" OF UNIT ATTACHMENT LOCATION UNISTRUT P1000 OR EQUAL STRUT ALIGNED w/ -UNIT MOUNTING HOLES T&B - PROVIDE CHANNEL NUT @ BOLT TORQUE TO PREVENT SLIP PER MFR F-----3/8" Ø MB OR ATR w/ WASHER @ -ATTACHMENT LOC PER MFR TOP & BOT- (2) MIN PER 24", FOR ALL INFO CONNECT TO STRUT OR NOTED UNIT PER MFR, SEE EQUIPMENT -**ASSUMPTIONS** UNIT TO BEAR -**FULLY ON SLAB** 3" MIN EMBED

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EQUIPMENT ASSUMPTIONS:

- SURGE TANK: ASSUMED MAX OP. WT. = 1100# ANCHORAGE DIMENSIONS (O.C.) = 16.9"x16.9"
- (4) ANCHORS ((1) EA LEG) HEIGHT = 64" (MAX CG HT FROM BASE = 44")

UNIT BY OTHERS -UNIT SUPPORT LEG & — BASE PLATE BY MFR ((4) LOC) $\frac{3}{8}$ " ϕ SS ATR (A193 Grade B8 Class 1) \frown EA LEG, DRILL & EPOXY (SET 3G) w/ 6" EMBED & 3" STRETCH LENGTH - THICKEN SLAB @ – WRAP TAPE AROUND TANK LOC FOR ANCHORAGE OVER ANCHORAGE STRETCH LENGTH ONLY

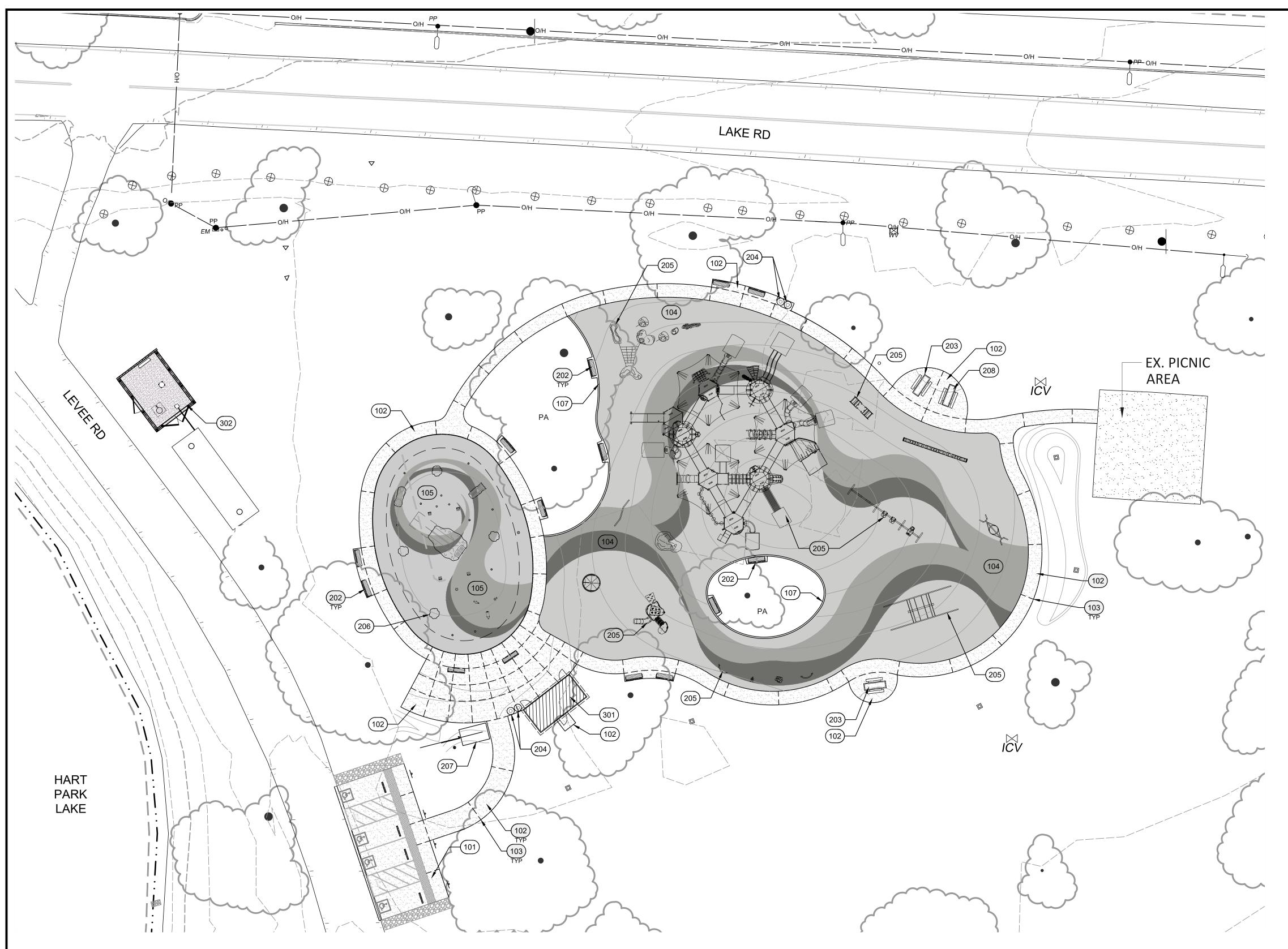
Slab Supported & Wall Anchored Unit

1 1/2" = 1'-0"

Slab Supported & Wall Anchored Unit

1 1/2" = 1'-0"

1650.7014-21 HART PARK PROP 68 IMPROVEMENTS PUMP STATION DETAILS





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REF	REFERENCE KEYNOTES				
(XXX)	DESCRIPTION				
100	SURFACE IMPROVEMENTS				
101	ADA PARKING - SEE CIVIL PLANS				
102	CONCRETE PAVING, LIGHT BROOM FINISH. SEE DETAIL 1, SHEET LD-1				
103	EXPANSION JOINTS AT 20' O.C. SPACING EXCEPT WHERE SHOWN OR NOTED OTHERWISE. SEE DETAIL 1, SHEET LD-1				
104	RESILIENT PAVING AT PLAYGROUND, SEE DETAIL 2, SHEET LD-1 AND LAYOUT SHEET LD-3				
105	SPLASH PAD SURFACING. SEE DETAIL 1, SHEET LD-1 AND LAYOUT SHEET LD-3				
107	CONCRETE CURB AT RESILIENT PAVING, SEE DETAIL 4, SHEET LD-1				
PA	PLANTING AREA				
200	SITE AMENITIES				
202	6' BENCH, SEE SPECIFICATIONS.				
203	8' PICNIC TABLE. SEE SPECIFICATIONS				
204	TRASH AND RECYCLE CONTAINERS. SEE SPECIFICATIONS				
205	PLAYGROUND EQUIPMENT. SEE SPECIFICATIONS				
206	SPLASH PAD EQUIPMENT. SEE SPECIFICATIONS AND DETAIL 1, SHEET LD-2				
207	SPLASH PAD SYSTEM CONTROLS VAULT, SEE DETAILS 1-4, SHEET LD-2				
208	8' ADA PICNIC TABLE, SEE SPECIFICATIONS				
300	STRUCTURES				
301	PRE-FABRICATED RESTROOM. UNDER SEPARATE PERMIT				
302	SPLASH PAD EFFLUENT PUMP STATION HOUSING, SEE CIVIL SHEET C-6.3 AND STRUCTURAL PLANS S-2.1.				



COUNTY OF KERN GENERAL SERVICES DIVISION

OF THE COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

HART MEMORIAL PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

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CHAIRMAN BOARD OF SUPERVISORS

CHIEF GENERAL SERVICES OFFICER

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HART PARK PROP 68 IMPROVEMENTS HARDSCAPE PLAN

HARDSCAPE NOTES:

PAVEMENT DESIGN

- 1. RECOMMENDATIONS FOR MIX DESIGN, CURING, JOINTS AND REINFORCEMENT SHALL BE AS PROMULGATED BY THE PORTLAND CEMENT ASSOCIATION. CONTROL AND CONSTRUCTION JOINTS SHALL BE USED TO SEPARATE THE PAVEMENTS INTO APPROXIMATELY SQUARE SHAPED AREAS AT A SPACING OF NO MORE THAN 2.5 TIMES THE SLAB THICKNESS IN FEET (I.E. 4" SLAB, JOINTS AT 10' O.C.) OR 15 FEET ON-CENTER, EACH WAY, WHICHEVER IS LESS. A CONCRETE SHRINKAGE OF APPROXIMATELY 1/16-INCH PER 10 FEET OF LENGTH SHALL BE ANTICIPATED AND JOINTS SHALL BE DESIGNED ACCORDINGLY.
- 2. ALL JOINTS IN AND ADJACENT TO THE PCC PAVEMENT SHALL BE SEALED TO PRECLUDE ENTRY OF WATER INTO THE SOIL'S UNDERLYING PAVED AREAS.

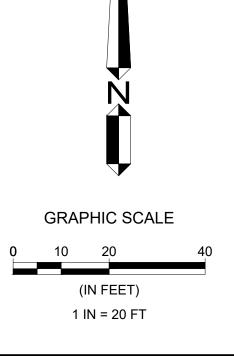
SURFACE AND SUBSURFACE DRAINAGE

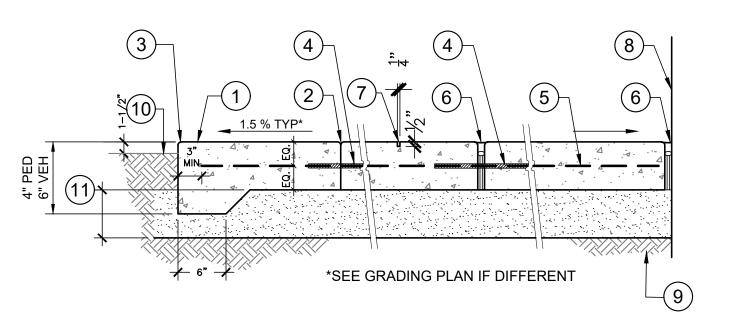
1. SURFACE DRAINAGE GRADIENTS SHALL BE PLANNED TO PREVENT PONDING AND PROMOTE DRAINAGE OF SURFACE WATER AWAY FROM BUILDING FOUNDATIONS, EDGES OF PAVEMENTS AND SIDEWALKS. FOR SOIL AREAS WE RECOMMEND THAT A MINIMUM OF 2% GRADIENT BE MAINTAINED.

BMP MAINTENANCE PLAN

- 1. OWNER IS RESPONSIBLE FOR MAINTENANCE OF DRAIN SYSTEM, INCLUDING PERIODIC INSPECTION FOR REMOVAL OF OBSTRUCTIONS FROM ENTIRE DRAIN SYSTEM.
- 2. OWNER TO INSURE THAT DRAIN SYSTEM IS OPERATING EFFICIENTLY AND THAT ALL NECESSARY REPAIRS ARE MADE TO PROTECT SAID PROPERTY AND THE HEALTH, SAFETY AND WELFARE OF
- 3. BEFORE AND AFTER RAINY SEASONS, OWNER SHALL BE RESPONSIBLE TO VISUALLY INSPECT AND CLEAR DEBRIS FROM ROOF GUTTERS, DOWN SPOUTS, AND OVERFLOW PIPE(S) CHECKING
- AND AROUND INFILTRATION PIT. 4. BEFORE AND AFTER RAINY SEASONS, OWNER SHALL BE RESPONSIBLE FOR INSPECTING ALL LANDSCAPE CATCH DEVICES AND REMOVING ALL DEBRIS FROM GRATES AND SCREENS (WHERE APPLICABLE) AND BUILDUP IN CATCH BASINS.

INFILTRATION PIT OVERFLOW PIPE, MAINTAINING DEPRESSED AREAS AND LANDSCAPE ABOVE





- A. PROVIDE FINISH GRADES FOR PAVEMENT PER CIVIL PLANS, SLOPE PAVEMENT. AWAY FROM WALLS, FOUNDATIONS AND STRUCTURES, 1.5% CROSS SLOPE, 4.5% LONGITUDINAL SLOPE.
- B. SEALANT COLOR TO MATCH CONCRETE FINISH.

CONC. PAVING AND JOINTS

- C. PROVIDE GREASED DOWELS TO PREVENT VERTICAL DIFFERENTIAL IN GRADES FOR CONC. SLABS OTHER THAN WALKWAYS.
- D. INSTALL THICKENED FOOTING AT OUTSIDE EDGES, WHERE ADJACENT SHOULDER IS LEVEL FOR LESS THAN 2'.

LEGEND:

- (1) CONCRETE PAVING MEDIUM BROOM FINISH
- (2) COLD JOINT, @ 10' O.C. MAX LONGITUDINAL
- (3) 1/4" RADIUS, TYP. ALL EDGES
- (4) 18" PAPER SLIP DOWEL @ 18" O.C.
- (5) #4 REBAR @ 24" O.C. BOTH WAYS

(1) SQUARE FENCE COLUMN PER DETAIL 44, SHEET S3.1

(4) 9 GUAGE X 2" CHAIN LINK FABRIC, GALVANIZED

(6) CONCRETE FOOTING PER DETAIL 44, SHEET S3.1

(11) SLAB & REINFORCING PER DETAIL 44, SHEET S3.1

(7) LATCH ASSEMBLY, SEE SPECIFICATIONS

(12) SLAB EDGE PER DETAIL 14, SHEET S3.1

COUNTY WILL PROVIDE LOCK.

(8) SUBGRADE, COMPACT TO 90% RC

(3) SQUARE FENCE TOP AND BOTTOM RAILS. SIZE TO MATCH

- (6) 1/2" EXPANSION JOINT, BACKERBEAD, AND SEALANT @ 30'-0" MAX LONGITUDINAL INTERVALS UNO PER PLAN, SEE NOTES
- 7^{1} TOOLED JOINT @ 5' O.C. MIN. UNO PER PLAN
- (8) BUILDING FACE OR VERTICAL SURFACE
- (9) COMPACTED SUBGRADE, 95% RELATIVE COMPACTION
- (10) FINISH GRADE

2 2" GATE FRAME RAILS

FENCE COLUMNS

(5) TENSION BAR STRAPS

9 CANE BOLT

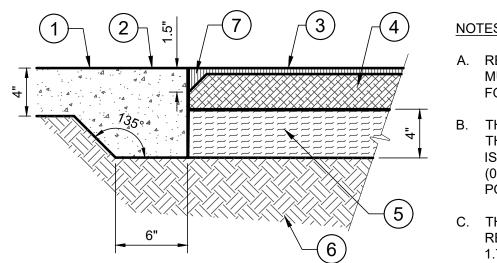
(10) CANE BOLT SLEEVE

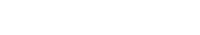
15) TENSION BARS

(11) COMPACTED NATIVE MATERIAL, 95% COMPACTION

LEGEND:

- 1) FINISHED GRADE
- (2) NEW CONCRETE PAVING WITH A THICKENED EDGE
- (3) 1/2" THICK RESILIENT SURFACING WEAR COURSE
- (4) RESILIENT SURFACING ATTENUATION CUSHION LAYER THICKNESS PER FALL HEIGHT
- (5) PLAYGROUND AREA: POROUS CLASS 2 BASE ROCK COMPACTED TO 95% RELATIVE COMPACTION. SPLASH PAD AREA: NEW CONCRETE PAD.
- (6) SUB-GRADE PREPARATION: COMPACT TO 95%
- (7) 1-1/2" 45 DEGREE EDGE BEVEL AGAINST PRIMED CONCRETE BORDER





RESILIENT SURFACING MUST MEET ASTM F1292 FOR 8-FT FALL HEIGHT.

> THE MINIMUM SLOPE OF THE RESILIENT SURFACING IS 1 INCH PER10 FEET (0.833%). ALLOW NO PONDING.

THE MAXIMUM SLOPE OF RESILIENT SURFACING IS

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GENERAL SERVICES DIVISION OF THE COUNTY ADMINISTRATIVE OFFICE

COUNTY OF KERN

1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS HAIRMAN BOARD OF SUPERVISORS RECOMMENDED FOR APPROVAL DEPARTMENT

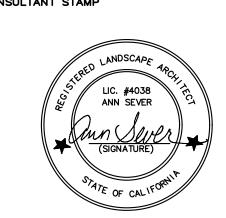
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DIVISION, COUNTY OF KERN.
VISUAL CONTACT WITH THESE DRAWINGS O
SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE
EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.
USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF
ADDENDA, AS—BUILTS, CLARIFICATIONS OR EQUIPMENT
AND MATERIAL LAYOUTS SHALL REMAIN THE SOLD
CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR
ANY INACCURACIES FOUND IN THE DEVELOPMENT OF
THESE INSTRUMENTS OF SERVICE.

ONSULTANT STAMP



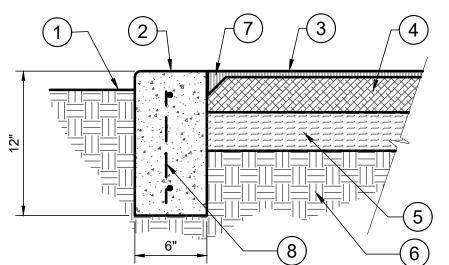
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MJW

1650.7014-21

20MM010

RESILIENT PAVING AT PLAYGROUND & SPLASH PAD SCALE: 1 1/2" = 1'-0"



- 1) FINISHED GRADE IN PLANTER AREAS 1.5" BELOW TOP OF CURB
- (2) 6" X 12" CONCRETE CURB WITH 2 NO. 3 REBAR PIECES SET 3" MIN. FROM TOP AND BOTTOM, TOOL RADIUS AT EXPOSED EDGES.
- (3) 1/2" THICK RESILIENT SURFACING WEAR COURSE
- (4) RESILIENT SURFACING ATTENUATION CUSION LAYER THICKNESS PER FALL
- (5) 4" POROUS CLASS 2 BASE ROCK COMPACTED TO 95% RELATIVE COMPACTION
- (6) COMPACTED SUB-GRADE, 95% RELATIVE COMPACTION
- 7 1.5" 45 DEGREE EDGE BEVEL AGAINST PRIMED CONCRETE BORDER
- (8) #4 REBAR AT 24" O.C.

CONCRETE CURB AT RESILIENT PAVING

321816.13-16

APPROVAL PRIOR TO INSTALLATION. CHAIN-LINK MAINTENANCE GATE

(13) CHAIN LINK SHALL EXTEND TO WITHIN 3" OF UNDERSIDE OF

(14) 3/8" STEEL TENSION ROD W/TIGHTENER, AT ALL CORNERS

ALL METAL FENCE COMPONENTS SHALL HAVE BLACK VINYL COATING.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND

CONCRETE PAD WITH CURB, SEE SHEET C-6.6 ELECTRIC CONTROL PANEL, SEE SHEET C-6.6 SURGE TANK, SEE SHEET C-6.6 DRAINAGE INLET, SEE SHEET C-6.6

- PIPE, SEE SHEET C-6.6 6 NOT USED
- NOT USED VERTICAL TURBINE PUMP, SEE
- SHEETS C-6.5 AND C-6.6 CORRUGATED METAL ROOF, SEE 6' CHAIN-LINK FENCE, SEE DETAIL
- 7, THIS SHEET CHAIN-LINK MAINTENANCE GATE, SEE DETAIL 5 THIS SHEET
- 12 POSTS, SEE STRUCTURAL SHEETS CMU WALL, SEE SHEETS S2.1 AND
- 5.5' CHAIN LINK GATE, SEE DETAIL 8, THIS SHEET

1) SQUARE FENCE COLUMN PER SPACING PER S2.1 2 CHAIN LINK SHALL EXTEND TO 3 SQUARE FENCE TOP AND BOTTOM RAILS. SIZE TO MATCH FENCE (4) TENSION BAR (5) 3/8" STEEL TENSION ROD WITH (6) CONCRETE FOOTING PER DETAIL

44, SHEET S3.1 (7) 9 GUAGE X 2" CHAIN LINK FABRIC, GALVANIZED (8) COMPACTED SUBGRADE

SHALL HAVE BLACK VINYL COATING 2. SEE SHEETS S2.1 AND S3.1 FOR

323113-31

DETAIL 44, SHEET S3.1

COLUMNS

WITHIN 3" OF UNDERSIDE OF ROOF

TIGHTENER, AT ALL CORNERS

DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

PUMP ENCLOSURE

PLAN VIEW

033302-03

(12) CHAIN LINK SHALL EXTEND TO WITHIN 3" OF UNDERSIDE OF 1. ALL METAL FENCE COMPONENTS ROOF FRAMING (13) 2" GATE FRAME RAILS (14) SLAB EDGE PER DETAIL 14, 4' CHAIN LINK GATE

(1) SQUARE FENCE COLUMN PER

MATCH FENCE COLUMNS

DETAIL 44, SHEET S3.1

2 SQUARE FENCE TOP AND BOTTOM RAILS. SIZE TO

(5) TENSION BAR STRAPS - 4

(6) CONCRETE FOOTING PER

DETAIL 44, SHEET S3.1

(3) TENSION BAR

(4) FENCE FABRIC

EACH SIDE

(7) LATCH ASSEMBLY

MORE INFORTAION. 3. CONTRACTOR SHALL SUBMIT SHOP

44, SHEET S3.1 (1) SELF CLOSING GATE HINGE (9)

CHAIN LINK FENCE

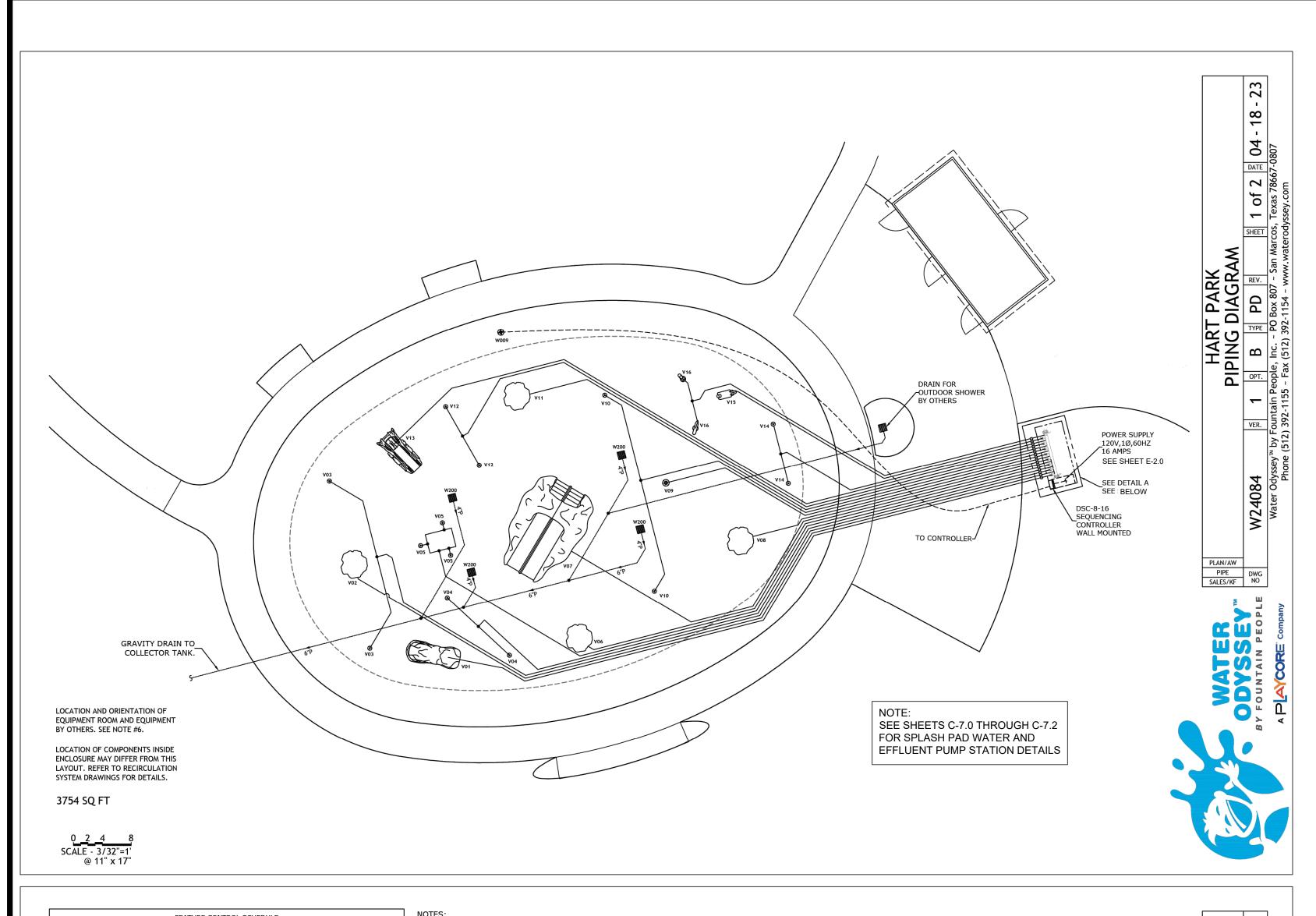
(8) COMPACTED SUBGRADE OR (9) SLAB & REINFORCING PER DETAIL 44, SHEET S3.1 10) 5 HOG RINGS - TOP & BOTTOM

9 SLAB & REINFORCING PER DETAIL

323113-33

ALL FENCE MATERIAL SHALL BE GALVANIZED

STEEL WITH BLACK VINYL COATING.



1. THIS DRAWING IS SCHEMATIC IN NATURE. LOCATIONS RECOMMENDED FOR PLAY COMPONENTS AND DRAINS ARE APPROXIMATE. PIPING AND CONDUIT RUNS ARE

MUST DETERMINE FINAL ROUTING.

RUN TO ENSURE BALANCED FLOW.

BE PROVIDED BY INSTALLER.

OR UTILITY BOX FOR SPECIFIC INSTALLATION DETAILS. 4. PIPING, CONDUIT, AND WIRE ARE BY INSTALLER.

7. A MAXIMUM OF 50 PSI @ PROVIDED MANIFOLD.

2. CHECK LOCAL CODES FOR PIPING REQUIREMENTS. JOB CONDITIONS AND LOCAL CODES

3. REFER TO THE INSTALLATION DRAWING OF EACH PLAY FEATURE AND EQUIPMENT VAULT

5. ANY REQUIRED BACKFLOW DEVICE OR WATER METER ON THE CITY WATER MAIN SHALL

8. SYMBOL "*" INDICATES THAT THE TEE MUST BE PLACED IN THE CENTER OF THE PIPING

DETAIL A

"REFER TO ELECTRICAL SCHEMATICS AND PROGRAMMING SHEET FOR WIRING CONNECTIONS TO BE MADE TO TAGGED SOLENOID VALVE ASSEMBLIES"

SHOWN AT 3X SCALE _ ____

WATER SUPPLY

9. WET DECK AREA MUST BE POURED AND FORMED SO THAT WATER SHED AREA SLOPES

6. PIPE SIZES ASSUME 100' MAXIMUM RUNS. LONGER RUNS MUST BE EVALUATED BY WATER ODYSSEY. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF PIPE SIZE BETWEEN

DISCHARGE MANIFOLD AND FEATURES. VELOCITY NOT TO EXCEED 8FT/SECOND.

10. ALL PIPING TO FEATURES ARE RECOMMENDED TO HAVE 1%-2% SLOPE FOR

VALVE	VALVE SIZE	FEATURE REF.	FEATURE	QTY	PIPE SIZE	GPM	PSI	OUTPUT CHANNEL	ACTIVATO
V01	1" Std	F2052	F2052 ROCKY RAIN AQUA SPRAYER		1"	18	5	2:01	
V02	1" Std	FFLRS W24084	CUSTOM FUN FORM LARGE ROCK SPOUT	1	1"	4	5	2:02	
V03	1" Std	W006C	AQUA ARCH 6' HIGH - 10' THROW	2	1"	6	4	2:03	
V04	1" Std	W057	WATER SPROUT 2' HIGH - 6' SPREAD	2	1"	8	1	2:04	
V05	1" Std	W280	POPP DROPP 4' HIGH	3	1"	9	7	2:05	
V06	1" Std	FFLRS W24084	CUSTOM FUN FORM LARGE ROCK SPOUT	1	1"	4	5	2:06	
V07	1" Std	F1011	BIG "DOUBLE" BEND AQUA SLIDE - LARGE DUAL	1	1"	16	3	2:07	
V08	1" Std	FFLRS W24084	CUSTOM FUN FORM LARGE ROCK SPOUT	1	1"	4	5	2:08	
V09	1" Std	W004C	DADDY LONG LEGS 10' HIGH	1	1"	9	6	3:01	W009
V10	1" Std	W036C	BABY LONG LEGS 10' HIGH	2	1"	12	6	3:02	
V11	1" Std	FFLRS W24084	CUSTOM FUN FORM LARGE ROCK SPOUT	1	1"	4	5	3:03	
V12	1" Std	W057	WATER SPROUT 2' HIGH - 6' SPREAD	2	1"	8	1	3:04	
V13	1" Std	F1130	HOLLOW LOG AQUA SLIDE - SMALL	1	1"	8	3	3:05	
V14	1" Std	W006C	AQUA ARCH 6' HIGH - 10' THROW	2	1"	6	4	3:06	
V15	1" Std		FAT CAT	1	1"	9	8	3:07	
146	11.01.1	W322	SHORT LEAF	1	4.11	7.5	8	2.00	
V16	1" Std		TALL LEAF	1	1"	7.5	8	3:08	
OTAL F	OTAL FLOW								

	FEATURE	
RODUCT REF.	PRODUCT	QTY
W009	TOUCH N' GO HARD-WIRED	1
W200	PLAIN DRAIN 50 GPM FLOW RATE EA	4

ACTIVATOR CONTROL SCHEDULE					
FROM (INPUT CHANNEL)	то	# CONDUCTORS			
1:01	W009	3 (3/4" CONDUIT)			

LOCATION AND ORIENTATION OF EQUIPMENT ROOM AND EQUIPMENT BY OTHERS. SEE NOTE #6.

LOCATION OF COMPONENTS INSIDE ENCLOSURE MAY DIFFER FROM THIS LAYOUT. REFER TO RECIRCULATION SYSTEM DRAWINGS FOR DETAILS.

3754 SQ FT

0 2 4 8 SCALE - 3/32"=1' @ 11" x 17"

NOTES:

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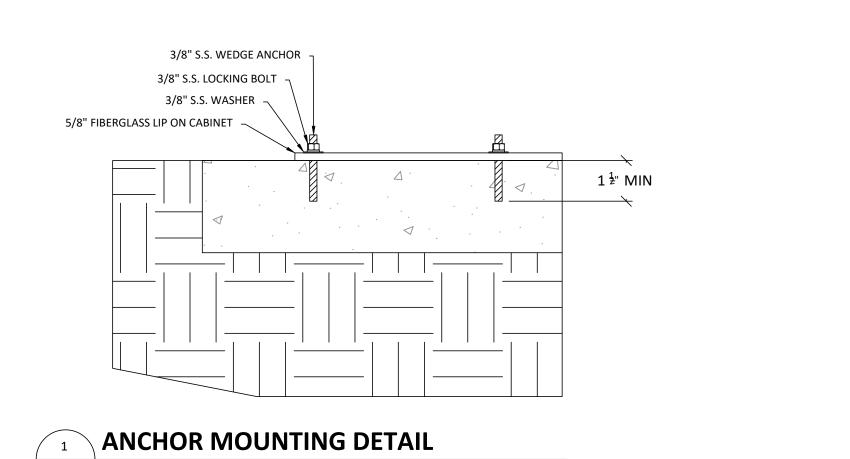
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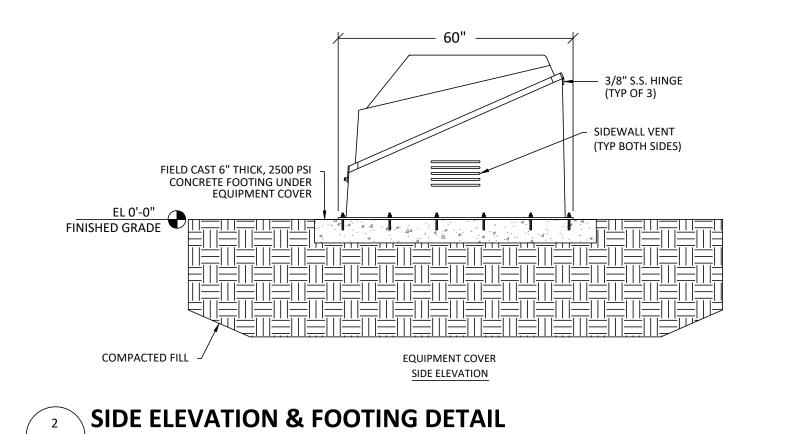
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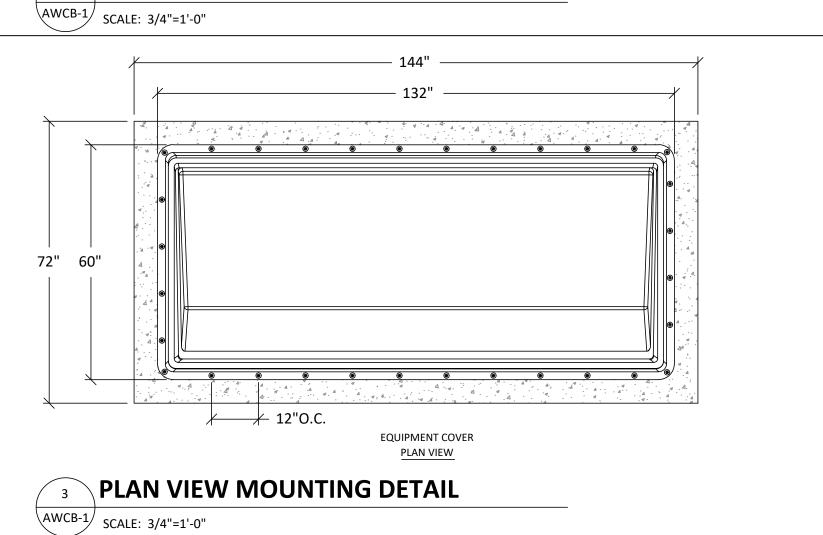
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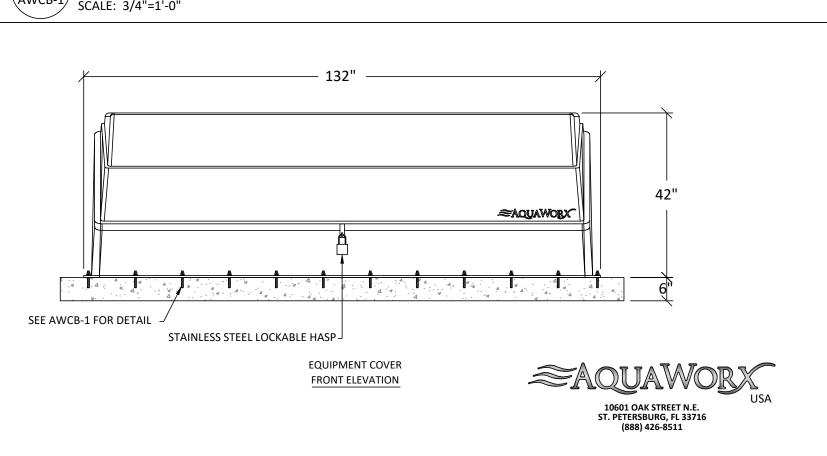
| ~ |⁶

- 1. THE DETAIL IN THIS DIAGRAM IS A MANUFACTURER SUGGESTED MOUNTING DETAIL ONLY, AND DOES NOT YET REFLECT
- OFFICIALLY ENGINEERED PLANS.
- 2 . GIVEN A MAX WIND SPEED OF 170 MPH, WITH A STANDARD DRAG COEFFICIENT, THE ESTIMATED FORCE WIND LOAD
- 3. ALL PLANS AND COMPONENTS CONTAINED HEREIN SHALL COMPLY WITH THE 2017 FLORIDA BUILDING CODE SIXTH EDITION













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OF THE COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

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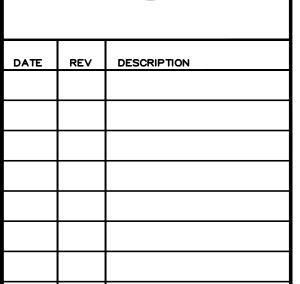
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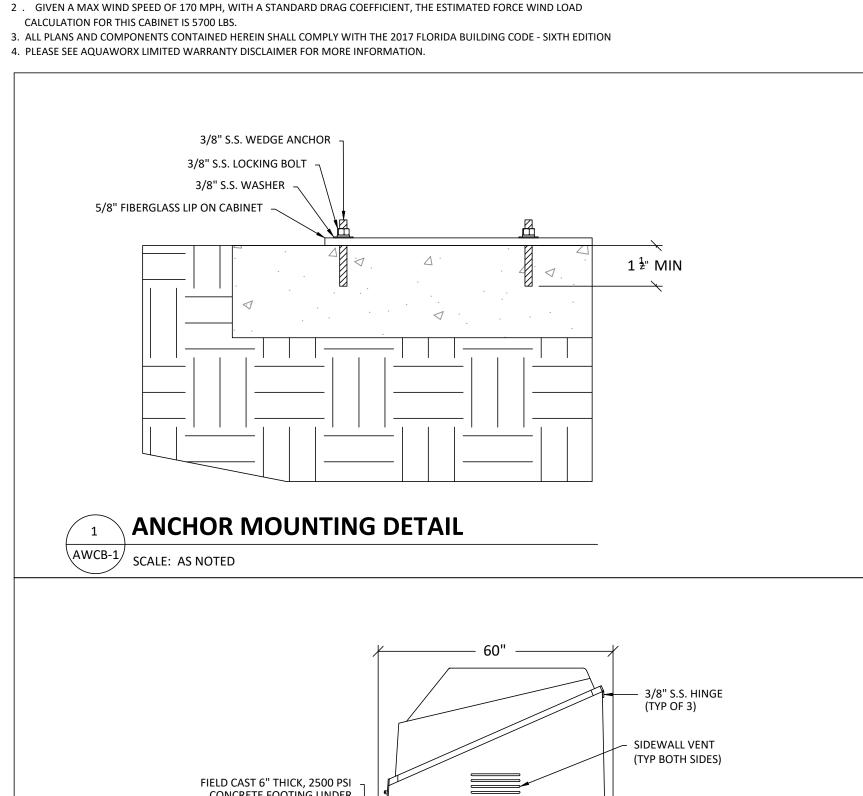
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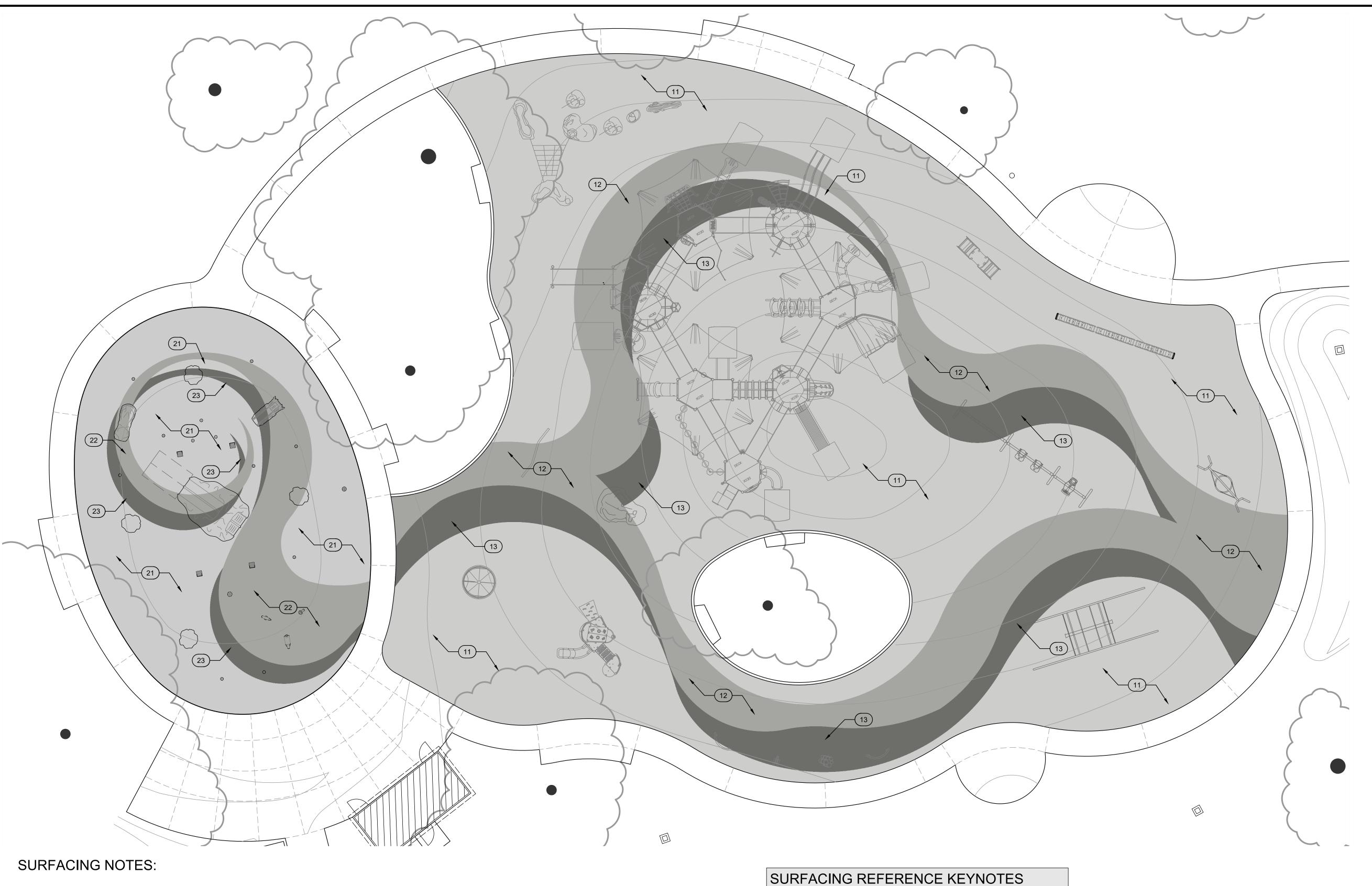




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CHECKED BY MJW DRAWING FILE 1650.7014-21 20MM010 HART PARK PROP 68 IMPROVEMENTS SPLASH PAD DETAILS





POURED IN PLACE FALL ATTENUATION

- 1. PLAYGROUND SURFACING SHALL BE 'FLEXGROUND' OR APPROVED EQUAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. PROVIDE DEPTH FOR FALL ATTENUATION LAYER PER PLAYGROUND MANUFACTURER'S SPECIFICATION FOR THE SPECIFIED EQUIPMENT.
- 3. LANDSCAPE ARCHITECT WILL PROVIDE AUTOCAD FILE OF SURFACING LAYOUT FOR USE IN LAYOUT OF COLOR PATTERNS.

SPLASH PAD SURFACING

- 1. SPLASH PAD SURFACING SHALL BE 'SPLASH TREAD' OR APPROVED EQUAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. LANDSCAPE ARCHITECT WILL PROVIDE AUTOCAD FILE OF SURFACING LAYOUT FOR USE IN LAYOUT OF COLOR PATTERNS

SUF	SURFACING REFERENCE KEYNOTES						
(XXX)	DESCRIPTION						
10	PLAYGROUND FALL SURFACING						
11	PIP PLAYGROUND SURFACING COLOR - BEIGE						
12	PIP PLAYGROUND SURFACING COLOR - TURQUOISE						
13	PIP PLAYGROUND SURFACING COLOR - LIGHT BLUE						
20	SPLASH PAD FALL SURFACING						
21	SPLASH TREAD COLOR - SANDSTONE						
22	SPLASH TREAD COLOR - TEAL						
23	SPLASH TREAD COLOR - UTAH						



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CHAIRMAN BOARD OF SUPERVISORS

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CONSULTANT STAMP



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	DATE 5/29/2024			
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GRAPHIC SCALE

(IN FEET)

1 IN = 10 FT

LD-3 DRAWING FILE 1650.7014-21 20MM010 HART PARK PROP 68 IMPROVEMENTS YGROUND & SPLASH PAD SURFAC







COUNTY OF KERN

GENERAL SERVICES DIVISION OF THE COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

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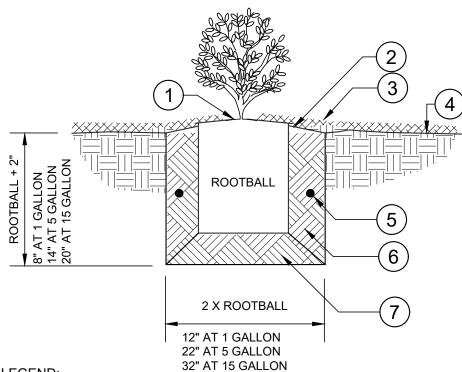
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PLANTING PLAN

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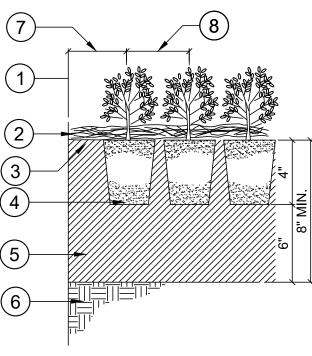


- (1) SET ROOTBALL CROWN 1" HIGHER THAN SURROUNDING FINISHED GRADE
- (2) SLOPE FINISHED GRADE AT BACKFILL AWAY FROM ROOTBALL
- (3) BARK MULCH 3" DEPTH
- (4) FINISHED GRADE
- (5) PLANT TABLETS AS SPECIFIED
- (6) BACKFILL MIX, SEE NOTES AND SPECIFICATIONS
- 7) NATIVE SOIL MIX, FIRMLY COMPACTED

SHRUB PLANTING

1" = 1'-0"

329333.13-11



LEGEND:

- (1) EDGE OF PLANTING
- (2) 3" DEPTH OF BARK MULCH
- (3) FINISH GRADE
- (4) PLANTS FROM POTS OF LINERS AS REQUIRED
- (5) BACKFILL MIX, SEE NOTES & SOILS REPORT
- (6) EXISTING SOIL
- (7) 2/3 PLAN SPACING
- (8) SPACING PER PLANS

SCALE = NTS

NOTES:

A. PREPARE FINISH GRADE OF BEDS TO SURFACE DRAIN AWAY FROM WALLS / STRUCTURES

GROUND COVER BED PLANTING

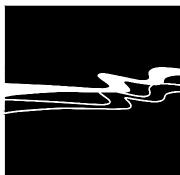
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PLANTING NOTES:

- 1. REFER TO PLANTING PLANS, PLAN NOTES, SPECIFICATIONS, PLANT LEGEND, AND PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION. REFER TO IRRIGATION PLANS, NOTES, SPECIFICATIONS, AND DETAILS FOR RELATED LANDSCAPE WORK.
- 2. NOTIFY OWNER'S REPRESENTATIVE (REP.) 48 HOURS MINIMUM PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULE.
- 3. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE OF FIELD CONDITIONS THAT VARY FROM THOSE SHOWN ON DRAWINGS AND SEEK CORRECTIONS AND DIRECTIONS BEFORE PROCEEDING WITH WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
- 4. LOCATE AND MARK ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT. PROTECT FROM DAMAGE ALL UTILITIES, AREAS AND STRUCTURES IN AND AROUND LANDSCAPE WORK AREAS. ASSUME FULL RESPONSIBILITY AND EXPENSE FOR REPAIR AND REPLACEMENT OF DAMAGES CAUSED BY CONTRACTOR.
- 5. LOCATION OF NON-LANDSCAPE CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, STRUCTURES, TRANSFORMERS, AND OTHER ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FIELD CONDITIONS WHETHER SHOWN HEREON OR NOT. WHEN SHOWN ITEMS DO NOT CORRESPOND TO FIELD CONDITIONS, REPORT DISCREPANCIES TO OWNER'S REP. FOR CLARIFICATIONS AND INSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

6. PLANTING ACCESSORIES & MATERIAL:

- A. FERTILIZER TABLETS: AGRIFORM (OR APPROVED EQUAL) 20-10-5, TWO 10-GRAM TABLETS FOR 5 GALLON SIZE PLANTS, ONE 10-GRAM TABLET FOR 1 GALLON SIZE.
- B. FULLY COMPOSTED ORGANIC MATERIAL. MIX 3" THICK LAYER INTO EXISTING SITE SOIL FOR THE SHRUB PLANTING AREAS ONLY. INCORPORATE 6" DEEP BEING CAREFUL TO AVOID DAMAGE TO EXISTING TREE ROOTS.
- C. MULCH: CONIFEROUS BARK MULCH AT SHRUB LOCATIONS ONLY. SUBMIT SAMPLE FOR APPROVAL.
- 7. SOIL MANAGEMENT REPORT: PROVIDE ONE REPRESENTATIVE SOIL SAMPLE OF THE EXISTING SITE SOIL IN ACCORDANCE WITH LABORATORY PROTOCOL. SOIL ANALYSIS TO INCLUDE: A. SOIL TEXTURE
- B. INFILTRATION RATE
- D. TOTAL SOLUBLE SALTS
- E. SODIUM
- F. PERCENT ORGANIC MATTER
- G. RECOMMENDATIONS FOR SHRUB AND SOD PLANTING.
- 8. ADD FERTILIZER AND AMENDMENTS TO THE PLANTING AREAS PER SOIL TEST REPORT RECOMMENDATIONS FOR PLANTING WORK.
- 9. PREPLANTING PREPARATION:
- A. PROCEED WITH PLANTING WORK ONLY AFTER IRRIGATION WORK IS COMPLETED, TESTED, AND
- APPROVED BY OWNER'S REP. PROTECT IRRIGATION SYSTEM FROM DAMAGE. B. ROUGH GRADE PLANTING AREAS UNIFORMLY SMOOTH, DEVOID OF DEPRESSIONS, TO CONFORM TO THE GRADING PATTERNS ESTABLISHED BY CIVIL ENGINEERING DRAWINGS. ENSURE POSITIVE WATER REMOVAL AT 2% MINIMUM GRADIENT TO DRAINAGE ELEMENTS OR STRUCTURES PROVIDED
- C. REMOVE ALL ROCKS GREATER THAN 1" DIAMETER AND ALL DEBRIS AND DELETERIOUS MATERIAL FROM PLANTING AREAS.
- D. TAKE CARE TO AVOID DAMAGE TO EXISTING TREE ROOTS.
- 10. PLANTS: ALL PLANTS OF THE SAME SPECIES/CULTIVAR/VARIETY SHALL HAVE MATCHING FORM, FLOWER COLOR, AND SIZE, IN HEALTHY AND THRIVING CONDITION, FREE FROM INJURIES, DISEASES, PESTS AND ROOT-BOUND OR GIRDLING ROOTS. REPLACE REJECTED PLANTS WITH MATCHING SPECIES, SIZE AND FORM.
- 11. PLANTING:
- A. IRRIGATE PLANTING AREAS TO BRING TOP 6" OF SOIL TO FIELD CAPACITY. ALLOW SOIL TO DRAIN.
- DO NOT WORK SOIL UNTIL IT RETURNS TO A MOIST FRIABLE CONDITION. B. PLACE PLANTS IN THEIR CONTAINERS AT THE LOCATIONS PER PLANS FOR APPROVAL BY OWNER'S REP. MAKE MINOR ADJUSTMENTS AS REQUIRED BY FIELD CONDITIONS AND TO ALLOW OPTIMAL
- C. PLANT QUANTITIES GIVEN ON PLANT LEGEND ARE FOR GENERAL GUIDANCE ONLY. PROVIDE THE SPECIFIED PLANT SPECIES IN THE QUANTITIES AT THE REQUIRED SPACING TO ACHIEVE THE DESIGN
- EFFECT/INTENT SHOWN ON THE PLANS. D. PLANT SHRUBS AS SHOWN ON DETAILS.
- E. INSTALL 3" DEEP CONIFEROUS BARK MULCH TO COVER BARE SOIL AROUND NEW SHRUBS AND EXISTING TREES IN SHRUB AREAS. KEEP MULCH 3" AWAY FROM SHRUB TRUNKS. 6-8" AWAY FROM
- F. APPLY TURF SEED BY BROAD CAST SEEDING AT A RATE OF 15 POUNDS PER 15,000 SQ. FT. RAKE IN AND IRRIGATE THOROUGHLY.
- G. PROVIDE TEMPORARY FENCE AROUND SEEDED TURF AREAS FOR A MINIMUM OF ONE MONTH FOR SEED ESTABLISHMENT.
- 12. 1-YEAR MAINTENANCE PERIOD: MAINTAIN PLANTINGS IN THRIVING CONDITION USING ACCEPTED INDUSTRY PRACTICES FOR WATERING, FERTILIZING, AND PRUNING. REPLACE PLANTS THAT DIE OR FAIL TO ESTABLISH IN THRIVING CONDITION WITH SPECIES, SIZE AND FORM MATCHING OTHERS ON SITE. REPAIR OR REPLACE BROKEN IRRIGATION COMPONENTS.
- 13. WARRANTY: WARRANT PLANT MATERIAL AND IRRIGATION SYSTEM FOR ONE YEAR FROM END OF MAINTENANCE PERIOD. REPLACE DEAD OR DYING PLANTS AND BROKEN IRRIGATION COMPONENTS WITHIN THIS PERIOD.



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CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES 612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



COUNTY OF KERN GENERAL SERVICES DIVISION OF THE

COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

PROJECT

PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

UNTY	OF	SUPERVISORS	

CHAIRMAN BOARD OF SUPERVISORS RECOMMENDED FOR APPROVAL DEPARTMENT

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

IRECTOR

CHIEF GENERAL SERVICES OFFICER

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, THE PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN.

NO PART THEREOF SHALL BE COPIED, ELECTRONICALLY MODIFIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN.

VISUAL CONTACT WITH THESE DRAWINGS OF SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDENDA, AS—BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

CONSULTANT STAMP

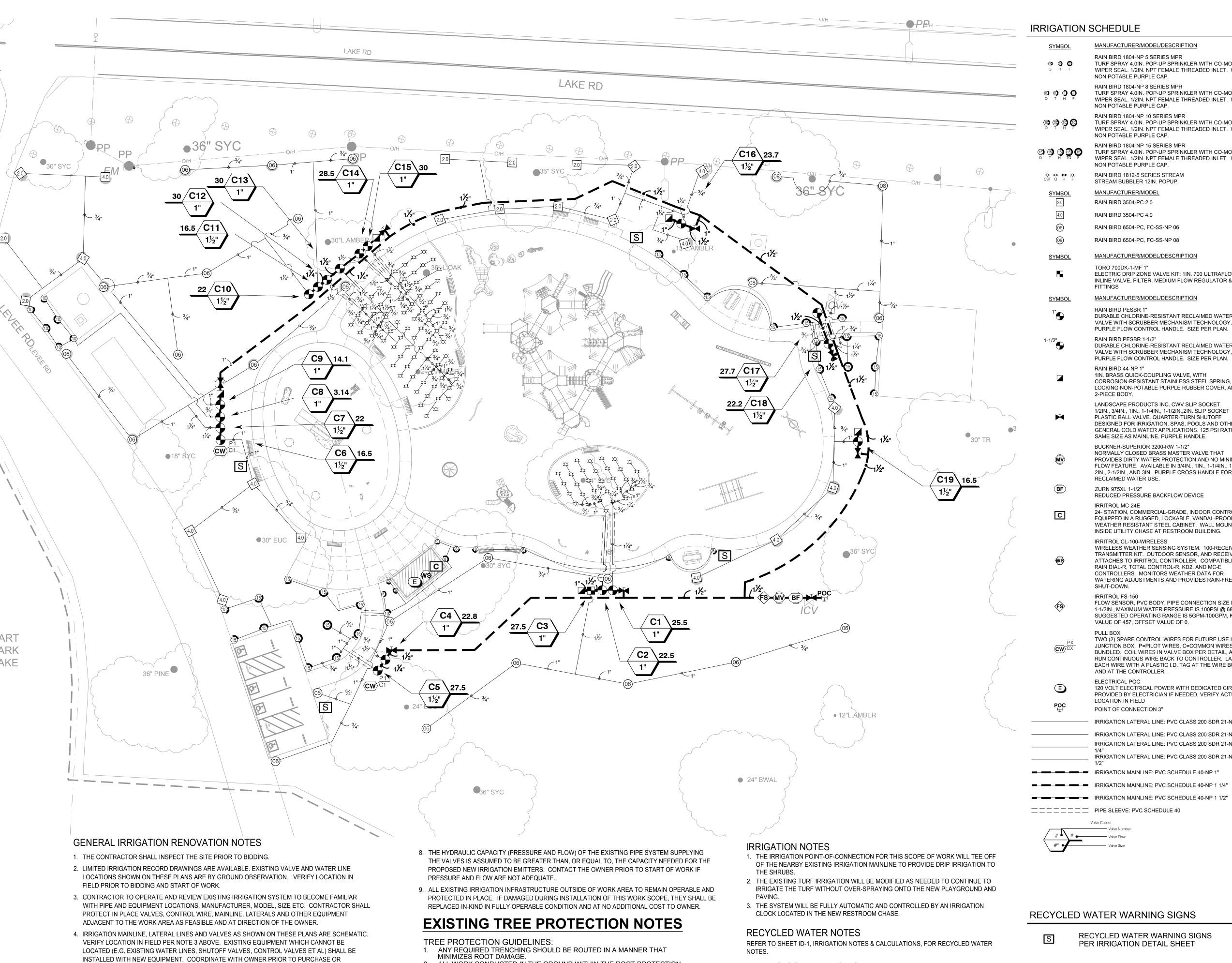


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SHEET NO. 5/29/2024 DESIGNED BY EAS DRAWN BY EAS

CHECKED BY MJW JOB NO. 1650.7014-21 20MM010

> HART PARK PROP 68 IMPROVEMENTS PLANTING DETAILS



2. ALL WORK CONDUCTED IN THE GROUND WITHIN THE ROOT PROTECTION AREA OF ANY PROTECTED TREE SHOULD BE ACCOMPLISHED WITH HAND

4. THE CRITICAL ROOT ZONE SHOULD BE IRRIGATED SUFFICIENTLY WITH CLEAN, POTABLE WATER TO KEEP THE TREE IN GOOD HEALTH AND VIGOR BEFORE, DURING, AND AFTER CONSTRUCTION. THIS MAY MEAN DEEPLY SOAKING THE GROUND PERIODICALLY.

NO CONSTRUCTION STAGING OR DISPOSAL OF CONSTRUCTION MATERIALS OR BYPRODUCTS IS ALLOWED WITHIN THE CRITICAL ROOT

AND CABLES BELOW UNCUT ROOTS).

CONSTRUCTION ACTIVITY SHOULD BE DIVERTED FROM THE CRITICAL ROOT ZONE. CUTTING OF ROOTS SHOULD BE AVOIDED (I.E., PLACE PIPES

MWELO COMPLIANCE STATEMENT

I HAVE COMPLIED WITH THE CRITERIA OF THE CALIFORNIA WATER EFFICIENT LANDSCAPE ORDINANCE 1881 AND APPLIED THEM ACCORDINGLY FOR THE

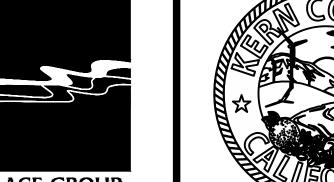
EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. MM BURROWS, CLA 2737

MAY 2024

RIGATION	SCHEDULE		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PS
(3) (5) (6) Q H F	RAIN BIRD 1804-NP 5 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH NON POTABLE PURPLE CAP.	4	30
(3) (3) (3) Q T H F	RAIN BIRD 1804-NP 8 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH NON POTABLE PURPLE CAP.	6	30
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	RAIN BIRD 1804-NP 10 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH NON POTABLE PURPLE CAP.	7	30
(15) (15) (15) (15) (15) (17) (17) (17)	RAIN BIRD 1804-NP 15 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH NON POTABLE PURPLE CAP.	26	30
OF Q H F	RAIN BIRD 1812-5 SERIES STREAM STREAM BUBBLER 12IN. POPUP.	111	30
SYMBOL 2.0	MANUFACTURER/MODEL RAIN BIRD 3504-PC 2.0	<u>QTY</u> 11	
4.0	RAIN BIRD 3504-PC 4.0	12	
66	RAIN BIRD 6504-PC, FC-SS-NP 06	22	
<u>08</u>	RAIN BIRD 6504-PC, FC-SS-NP 08	3	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	<u>PS</u>
-	TORO 700DK-1-MF 1" ELECTRIC DRIP ZONE VALVE KIT: 1IN. 700 ULTRAFLOW INLINE VALVE, FILTER, MEDIUM FLOW REGULATOR & FITTINGS	1	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	
1"	RAIN BIRD PESBR 1" DURABLE CHLORINE-RESISTANT RECLAIMED WATER VALVE WITH SCRUBBER MECHANISM TECHNOLOGY, AND PURPLE FLOW CONTROL HANDLE. SIZE PER PLAN.	9	
1-1/2"	RAIN BIRD PESBR 1-1/2" DURABLE CHLORINE-RESISTANT RECLAIMED WATER VALVE WITH SCRUBBER MECHANISM TECHNOLOGY, AND PURPLE FLOW CONTROL HANDLE. SIZE PER PLAN.	9	
	RAIN BIRD 44-NP 1" 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY.	5	
×	LANDSCAPE PRODUCTS INC. CWV SLIP SOCKET 1/2IN., 3/4IN., 1IN., 1-1/4IN., 1-1/2IN.,2IN. SLIP SOCKET PLASTIC BALL VALVE. QUARTER-TURN SHUTOFF DESIGNED FOR IRRIGATION, SPAS, POOLS AND OTHER GENERAL COLD WATER APPLICATIONS. 125 PSI RATING. SAME SIZE AS MAINLINE. PURPLE HANDLE.	8	
ŴV	BUCKNER-SUPERIOR 3200-RW 1-1/2" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE. AVAILABLE IN 3/4IN., 1IN., 1-1/4IN., 1-1/2IN., 2IN., 2-1/2IN., AND 3IN PURPLE CROSS HANDLE FOR RECLAIMED WATER USE.	1	
BF	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	1	
С	IRRITROL MC-24E 24- STATION, COMMERCIAL-GRADE, INDOOR CONTROLLER. EQUIPPED IN A RUGGED, LOCKABLE, VANDAL-PROOF, WEATHER RESISTANT STEEL CABINET. WALL MOUNT INSIDE UTILITY CHASE AT RESTROOM BUILDING.	1	
(v)	IRRITROL CL-100-WIRELESS WIRELESS WEATHER SENSING SYSTEM. 100-RECEIVE AND TRANSMITTER KIT. OUTDOOR SENSOR, AND RECEIVER ATTACHES TO IRRITROL CONTROLLER. COMPATIBLE WITH RAIN DIAL-R, TOTAL CONTROL-R, KD2, AND MC-E CONTROLLERS. MONITORS WEATHER DATA FOR WATERING ADJUSTMENTS AND PROVIDES RAIN-FREEZE SHUT-DOWN.	1	
FS	IRRITROL FS-150 FLOW SENSOR, PVC BODY, PIPE CONNECTION SIZE IS 1-1/2IN., MAXIMUM WATER PRESSURE IS 100PSI @ 68F, SUGGESTED OPERATING RANGE IS 5GPM-100GPM, K VALUE OF 457, OFFSET VALUE OF 0.	1	
CW CX	PULL BOX TWO (2) SPARE CONTROL WIRES FOR FUTURE USE IN JUNCTION BOX. P=PILOT WIRES, C=COMMON WIRES BUNDLED. COIL WIRES IN VALVE BOX PER DETAIL, AND RUN CONTINUOUS WIRE BACK TO CONTROLLER. LABEL EACH WIRE WITH A PLASTIC I.D. TAG AT THE WIRE BUNDLE AND AT THE CONTROLLER.	2	
E	ELECTRICAL POC 120 VOLT ELECTRICAL POWER WITH DEDICATED CIRCUIT, PROVIDED BY ELECTRICIAN IF NEEDED, VERIFY ACTUAL LOCATION IN FIELD	1	
POC 난	POINT OF CONNECTION 3"	1	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21-NP 3/4"	2,276 L.F.	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21-NP 1"	649.1 L.F.	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21-NP 1 1/4" IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21-NP 1	214.9 L.F.	
	1/2"	187.7 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40-NP 1"	22.3 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40-NP 1 1/4"	174.0 L.F.	

RECYCLED WATER WARNING SIGNS

RECYCLED WATER WARNING SIGNS PER IRRIGATION DETAIL SHEET



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612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us

Jim Burrows Landscape Architecture 979 OSOS STREET, SUITE B6 SAN LUIS OBISPO, CA 93401 (805) 439-3209

COUNTY OF KERN

DIVISION OF THE **COUNTY ADMINISTRATIVE OFFICE** 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

GENERAL SERVICES

PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS CHAIRMAN BOARD OF SUPERVISORS

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

CHIEF GENERAL SERVICES OFFICER

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CONSULTANT STAMP



DATE	REV	DESCRIPTION
	/29/2024	SHEET NO.
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IRRIGATION PLAN

GRAPHIC SCALE

625.4 L.F.

110.2 L.F.

(IN FEET) 1 IN = 20 FT

INSTALLATION.

5. CONTRACTOR SHALL EVALUATE EXISTING IRRIGATION SYSTEM COMPONENTS TO DETERMINE

THEIR CONDITION AND FUNCTIONALITY. DAMAGED, WORN AND/OR INOPERABLE PIPE OR

6. ALL WORK SHALL BE PERFORMED PER LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.

INSTALLING NEW PRESSURE REDUCERS AND FILTERS TO EXISTING VALVES, WITH DRIP TUBING

AND EMITTERS TO CREATE A FULLY OPERABLE SYSTEM DELIVERING IRRIGATION UNIFORMLY,

CONSISTENT WITH THE DETAILS AND SPECIFICATIONS IN THESE DRAWINGS, AS WELL AS THE

7. THE IRRIGATION SCOPE OF WORK ON THESE PLANS INCLUDES, BUT IS NOT LIMITED TO,

EQUIPMENT SHALL BE REPLACED WITH NEW COMPONENTS.

MANUFACTURER'S SPECIFICATIONS.

GENERAL IRRIGATION NOTES:

- 1. THE SYSTEM DESIGN SHOWN IS BASED UPON A MINIMUM PRESSURE OF 60 PSI AT A MAXIMUM DISCHARGE OF 30 GPM. VERIFY PRESSURE AND FLOW ON SITE COUNTY'S REPRESENTATIVE.
- 2. THE IRRIGATION SYSTEM DESIGN AND UTILITIES SHOWN ARE BASED ON THE "HART PARK BASE PLAN", PREPARED BY THE KERN COUNTY PUBLIC WORKS DEPARTMENT. ADDITIONAL INFORMATION WAS DERIVED FROM A VARIETY OF AVAILABLE RESOURCES, INFORMATION AND SCANS AND SHOULD BE USED FOR REFERENCE ONLY. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THIS DATA AND INFORMATION IS ACCURATE AND RELIABLE, WALLACE GROUP DOES NOT ASSUME LIABILITY FOR ANY DAMAGES CAUSED BY ANY ERRORS OR OMISSIONS IN THE DATA AND INFORMATION PROVIDED. CONTRACTOR TO VERIFY EXACT LOCATIONS OF COMPONENTS IN THE FIELD AT THE START OF CONSTRUCTION.
- 3. THIS IRRIGATION SYSTEM IS DESIGNED TO REPLACE EXISTING IRRIGATION SYSTEMS WITHIN CONSTRUCTION AREA. SYSTEM INDICATED IS BASED ON COMPLETE EXISTING IRRIGATION DEMOLITION OCCURRING WITHIN CONSTRUCTION AREA AS IT PERTAINS TO MAINLINE, WIRES, VALVES AND SPRINKLERS. THE EXACT LOCATION OF EXISTING EQUIPMENT MAY BE DIFFERENT FROM THAT SHOWN HEREON. PRIOR TO CONSTRUCTION OR EXCAVATION FIELD VERIFY ALL EXISTING LOCATIONS OF IRRIGATION EQUIPMENT AND LINES.
- 4. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE SITE SUPERVISOR DURING CONSTRUCTION. CONTACT INFORMATION: DONALD WODDARD, PLANNER, KERN COUNTY GENERAL SERVICES, PH: (661) 868-7020.
- 5. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES AND THE PLANS, SPECIFICATIONS, DETAILS AND NOTES FOR THIS PROJECT. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO, UNDERGROUND UTILITIES, STRUCTURES, EXISTING IRRIGATION VALVES, MAINLINE, CONTROL WIRES, LATERAL LINES AND SPRINKLER HEADS AND STAKE ALL DISCONNECTED, CAPPED OR RELOCATED FACILITIES IN THE FIELD IN WORK AREA PRIOR TO START OF CONSTRUCTION. ALL WORK SHALL BE COORDINATED WITH CIVIL, MECHANICAL, AND ELECTRICAL WORK AND TRADES TO MINIMIZE CONFLICTS. IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK, CONTRACTOR SHALL PROMPTLY NOTIFY LANDSCAPE ARCHITECT TO ARRANGE FOR RELOCATIONS IF REQUIRED WITHIN WORK AREA PRIOR TO START OF CONSTRUCTION.
- 7. THE WORK INCLUDES THE RESPONSIBILITY FOR THE INSTALLATION OF IRRIGATION SLEEVING. CONTRACTOR SHALL COORDINATE SLEEVE INSTALLATION AND SEQUENCE HIS WORK WITH ALL WORK AND DISCIPLINES AS REQUIRED.
- 8. LAYOUT SHOWN IS DIAGRAMMATIC. IRRIGATION PIPING AND COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY. INSTALL IRRIGATION PIPING AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE. INSTALL IRRIGATION VALVES IN GROUND COVER OR SHRUB AREAS WHENEVER POSSIBLE. LOCATE IRRIGATION CONTROL AND QUICK COUPLING VALVES ADJACENT TO HARDSCAPE OR TURF AREAS FOR EASY ACCESS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIAL, AND ARCHITECTURAL FEATURES.
- 9. DO NOT PROCEED WITH THE INSTALLATION OF THE SYSTEM WHEN IT IS EVIDENT THAT FIELD CONDITIONS OR DIFFERENCES EXIST THAT COULD NOT HAVE BEEN CONSIDERED IN ENGINEERING OR IF DISCREPANCIES IN CONSTRUCTION DRAWINGS, DETAILS, NOTES AND SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH DIFFERING FIELD CONDITIONS AND DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- 10. THIS SYSTEM DOES NOT USE A BACKFLOW PREVENTION DEVICE BECAUSE IT IS A NON-POTABLE SYSTEM AND IS NOT CONNECTED TO THE PARK'S POTABLE SYSTEM.
- 11. SEE LEGEND FOR PIPING MATERIAL. SEE DRAWINGS AND LEGEND FOR PIPE SIZES. SIZE CALLOUTS ON DRAWINGS INDICATE NOMINAL PIPE SIZE. UNLABELED SECTIONS ARE THE NOMINAL SIZE OF THE PRECEDING CALLOUT. SUBSEQUENT CALLOUTS INDICATE CHANGE IN PIPE SIZE.
- 12. UNLESS OTHERWISE NOTED, TRENCHING DEPTHS FOR IRRIGATION SHALL BE 18" FOR MAINLINES IN PLANTING AREAS AND 12" FOR LATERALS. DEPTH SHALL BE MEASURED FROM THE TOP OF PIPE TO FINISHED SOIL LEVEL.
- 13. EXERCISE CARE WHEN TRENCHING AROUND EXISTING LANDSCAPE AND PROTECT EXISTING LANDSCAPE DURING ALL PHASES OF WORK. WHEN ENCOUNTERED, HAND TRENCH AROUND EXISTING PLANT/ TREE ROOTS OVER 2" IN DIAMETER. ALL DISTURBED AREAS SHALL MATCH APPEARANCE OF ADJACENT AREAS AT END OF WORK.
- 14. INSTALL CONCRETE THRUST BLOCKS ON ALL MAINLINES THREE (3) INCHES AND LARGER IN DIAMETER IN ACCORDANCE WITH LOCAL CODES AND STANDARDS OR ASAE STANDARD \$376.1.
- 15. ALL MAINLINES, LATERALS, AND CONTROL WIRES UNDER PAVEMENT SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES. SLEEVES SHALL EXTEND 12" BEYOND EDGE OF PAVEMENT AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE DURING CONSTRUCTION.
- 16. IRRIGATION SYSTEMS TO REMAIN TO BE PROTECTED THROUGHOUT GRADING AND CONSTRUCTION PHASES. ANY EXISTING IRRIGATION AND PLANTING DAMAGED OR IMPACTED BY THE NEW WORK WILL BE REPLACED, REPAIRED AND/OR RETROFITTED AS NEEDED WITH MATCHING MATERIAL.
- 17. AT ALL TIMES, ENSURE THAT EXISTING IRRIGATION FACILITIES WHICH REMAIN AFTER GRADING, REMAIN OPERATIONAL AND ADJOINING UNDISTURBED AREAS RECEIVE ADEQUATE AND REGULAR IRRIGATION.
- 18. HAND IRRIGATE ALL EXISTING LANDSCAPED AREAS WHICH CANNOT BE IRRIGATED BY EXISTING FACILITIES AFFECTED BY THE IMPROVEMENTS UNTIL IRRIGATION SYSTEMS ARE RESTORED.
- 19. PRIOR TO BACKFILLING, FLUSH AND TEST MAINS AND LATERALS. FLUSH MAINS BEFORE INSTALLING VALVES. FLUSH LATERALS BEFORE INSTALLING SPRINKLERS. SUBJECT MAINS TO HYDROSTATIC PRESSURE OF 1.5 TIMES THE ANTICIPATED OPERATING PRESSURE (MIN. 100 PSI) FOR TWO HOURS. SUBJECT LATERALS TO HYDROSTATIC PRESSURE EQUAL TO ANTICIPATED OPERATING PRESSURE. ALL FLUSHING SHALL BE DONE IN THE PRESENCE OF THE ARCHITECT. BACKFILL WITH CLEAN MATERIAL FROM EXCAVATION. REMOVE ROCKS AND DEBRIS LARGER THAN 1" DIAMETER.
- 20. PRIOR TO BACKFILLING THE POTABLE AND NEW RECYCLED WATER IRRIGATION CONNECTION & CROSSING WORK AREAS, AN INSPECTION BY A CERTIFIED CROSS CONNECTION SPECIALIST SHALL OCCUR TO VERIFY NO CROSS CONNECTION BETWEEN THE POTABLE WATER AND THE RECYCLED WATER SYSTEMS. PROVIDE PHOTOS OF ALL WORK. SPECIALIST TO BE PROVIDED BY THE COUNTY.
- 21. IRRIGATION VALVE BOXES SHALL BE PURPLE IN COLOR. EXISTING IRRIGATION VALVE BOXES ON SITE WITHIN THE WORK AREA WHICH ARE NOT PURPLE ARE TO BE REPLACED WITH A PURPLE VALVE BOX OF SIMILAR SIZE.

- 22. INSTALL QUICK COUPLING VALVE ASSEMBLIES AS SHOWN OR APPROXIMATELY 50 FEET ON CENTER FOR IRRIGATION AND HARDSCAPE WASHDOWN WATER. EXISTING QUICK COUPLING VALVE ASSEMBLIES WITHIN WORK AREA TO BE REPLACED WITH NEW ASSEMBLIES WITH PURPLE TOPS.
- 23. THE FINAL LOCATION OF THE IRRIGATION CONTROLLER SHALL BE APPROVED BY COUNTY'S REPRESENTATIVE PRIOR TO INSTALLATION. 120V ELECTRICAL SUPPLY SHALL BE BY OTHERS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE FINAL CONNECTION TO THE CONTROLLER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LOCAL ELECTRICAL CODES.
- 24. INSTALL ONE (1) AWG #14 CONTROL WIRE (RED) FROM THE CONTROLLER TO EACH REMOTE CONTROL VALVE. INSTALL ONE (1) AWG #14 WIRE (GREEN) FROM THE CONTROLLER TO THE MOST REMOTE REMOTE CONTROL VALVE ALONG EACH BRANCH OF WIRING RUNS FOR USE AS A SPARE CONTROL WIRE. INSTALL ONE (1) AWG #12 WIRE (WHITE) FOR COMMON GROUND. COIL THREE (3) FEET OF WIRE IN EACH VALVE OR SPLICE BOX. USE 3M DBY SPLICE KITS FOR ALL WIRE CONNECTIONS AND SPLICES.
- 25. CONTRACTOR SHALL CONDUCT A COVERAGE TEST IN THE PRESENCE OF THE DISTRICT'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT FOR FINAL APPROVAL. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF ALL PLANTED AREAS. ADJUST REMOTE CONTROL VALVE PRESSURE REGULATOR AND FLOW CONTROL TO BALANCE EACH LATERAL SYSTEM AND TO ENSURE PROPER VALVE CLOSURE TIME. SELECT AND ADJUST NOZZLES FOR SPRAY AND BUBBLER SPRINKLERS WITH RADII AND ANGLES TO ENSURE UNIFORM COVERAGE WITH MINIMUM OVER-SPRAY. SELECT NOZZLES FOR ROTARY SPRINKLERS AND ADJUST DIFFUSER AND RADIUS TO ENSURE UNIFORM COVERAGE TO MINIMIZE OVER-SPRAY.
- 26. CONTRACTOR SHALL ADJUST SPRINKLER HEAD LOCATION(S) AND ADD HEADS AS REQUIRED TO ACCOMMODATE VERTICAL OBSTRUCTIONS, INCLUDING, BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, AND SIGNAGE.
- 27. INSTALL PLASTIC CHECK VALVES AT THE BASE OF ALL SPRINKLER HEADS OR INSTALL SPRINKLER HEADS WITH INTEGRAL CHECK VALVES AS REQUIRED TO PREVENT LOW-HEAD DRAINAGE
- 28. COUNTY STAFF SHALL INSTALL RECYCLED WATER ADVISORY SIGNS AT THEIR DISCRETION.

STATE WATER BOARD REQUIREMENTS

- ANY USE OF RECYCLED WATER SHALL COMPLY WITH THE FOLLOWING:

 a) ANY IRRIGATION APPLICATION SHALL BE CONFINED TO THE RECYCLED WATER AREA.
 b) SPRAY, MIST, OR RUNOFF SHALL NOT ENTER DWELLINGS, DESIGNATED OUTDOOR EATING AREAS, OR FOOD HANDLING FACILITIES.
 - c) DRINKING WATER FOUNTAINS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUNOFF.
 d) SPRAY APPLICATION HOURS SHALL COMPLY WITH STATE WATER BOARD
- REQUIREMENTS.

 2. AT THE DISCRETION OF COUNTY HEALTH DEPARTMENT AND PUBLIC WORKS: NO SPRAY IRRIGATION OF ANY RECYCLED WATER, OTHER THAN DISINFECTED TERTIARY RECYCLED WATER. SHALL TAKE PLACE WITHIN 100 FEET OF A RESIDENCE OR A PLACE WHERE

PUBLIC EXPOSURE COULD BE SIMILAR TO THAT OF A PARK, PLAYGROUND, OR SCHOOL

- 3. ALL USE AREAS WHERE RECYCLED WATER IS USED THAT ARE ACCESSIBLE TO THE PUBLIC SHALL BE POSTED WITH SIGNS THAT ARE VISIBLE TO THE PUBLIC, IN A SIZE NO LESS THAN 4 INCHES HIGH BY 8 INCHES WIDE, THAT INCLUDE THE FOLLOWING WORDING: "RECYCLED WATER DO NOT DRINK". EACH SIGN SHALL DISPLAY AN INTERNATIONAL SYMBOL SIMILAR TO THAT SHOWN IN FIGURE 60310-A (SEE DETAIL 1, SHEET ID1). THE DEPARTMENT MAY ACCEPT ALTERNATIVE SIGNAGE PROVIDED THE APPLICANT DEMONSTRATES TO THE DEPARTMENT THAT THE ALTERNATIVE SIGNAGE WILL ASSURE AN EQUIVALENT DEGREE OF PUBLIC NOTIFICATION.
- 4. THE PORTIONS OF THE RECYCLED WATER PIPING SYSTEM THAT ARE IN AREAS SUBJECT TO ACCESS BY THE GENERAL PUBLIC SHALL NOT INCLUDE ANY HOSE BIBS. ONLY QUICK COUPLERS THAT DIFFER FROM THOSE USED ON THE POTABLE WATER SYSTEM SHALL BE USED ON THE PORTIONS OF THE RECYCLED WATER PIPING SYSTEM IN AREAS SUBJECT TO PUBLIC ACCESS.





LEGEND:

1 EXAMPLE OF ACCEPTABLE SIGNS. PROVIDE SHOP DRAWINGS AND ADD SPANISH TRANSLATION.

NOTES

- A. WARNING SIGNS STATING, "CAUTION RECYCLED WATER DO NOT DRINK" IN ENGLISH AND SPANISH, SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PLANS.
- B. LETTERS ON THE SIGNS SHALL BE WHITE, A MINIMUM OF ½ INCH IN HEIGHT AND PRINTED ON A PURPLE (PANTONE #512) BACKGROUND.
- C. ALL SIGNS SHALL BE SIGN GRADE
 ALUMINUM, 0.080" THICK AND A
 MINIMUM OF 8" WIDE AND 10" HIGH
- D. SIGNS SHALL BE MOUNTED TO U-CHANNEL, 2 LBS. HOT ROLLED, HIGH TENSILE RAIL OR BILLET STEEL WITH GALVANIZED FINISH PER ASTM A-123. SIGN POST SHALL EXTEND 4'-3" BELOW GRADE.
- E. TOP OF SIGN SHALL BE 30" ABOVE GRADE.
- F. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- G. CITY STANDARD "PROCEDURES FOR RECYCLED WATER USE" SHALL SUPERSEDE DETAILS WITHIN THIS PACKAGE.



RECYCLED WATER WARNING SIGNS

328419.05-05



COUNTY OF KERN
GENERAL SERVICES
DIVISION

OF THE
COUNTY ADMINISTRATIVE OFFICE
1115 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

PROJECT

CIVIL AND TRANSPORTATION ENGINEERING

CONSTRUCTION MANAGEMENT

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS

SAN LUIS OBISPO. CA 93401

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LANDSCAPE ARCHITECTURE

MECHANICAL ENGINEERING

WATER RESOURCES

www.wallacegroup.us

612 CLARION COURT

PLANNING

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

COUNTY	OF	SUPERVISORS

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DIRECTOR

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

CHIEF GENERAL SERVICES OFFICER

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CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FO ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

CONSULTANT STAMP



REV DESCRIPTION

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DATE 5/29/2024 SHEET NO.

DESIGNED BY EAS
DRAWN BY SLB

SLB

CHECKED BY

MJW

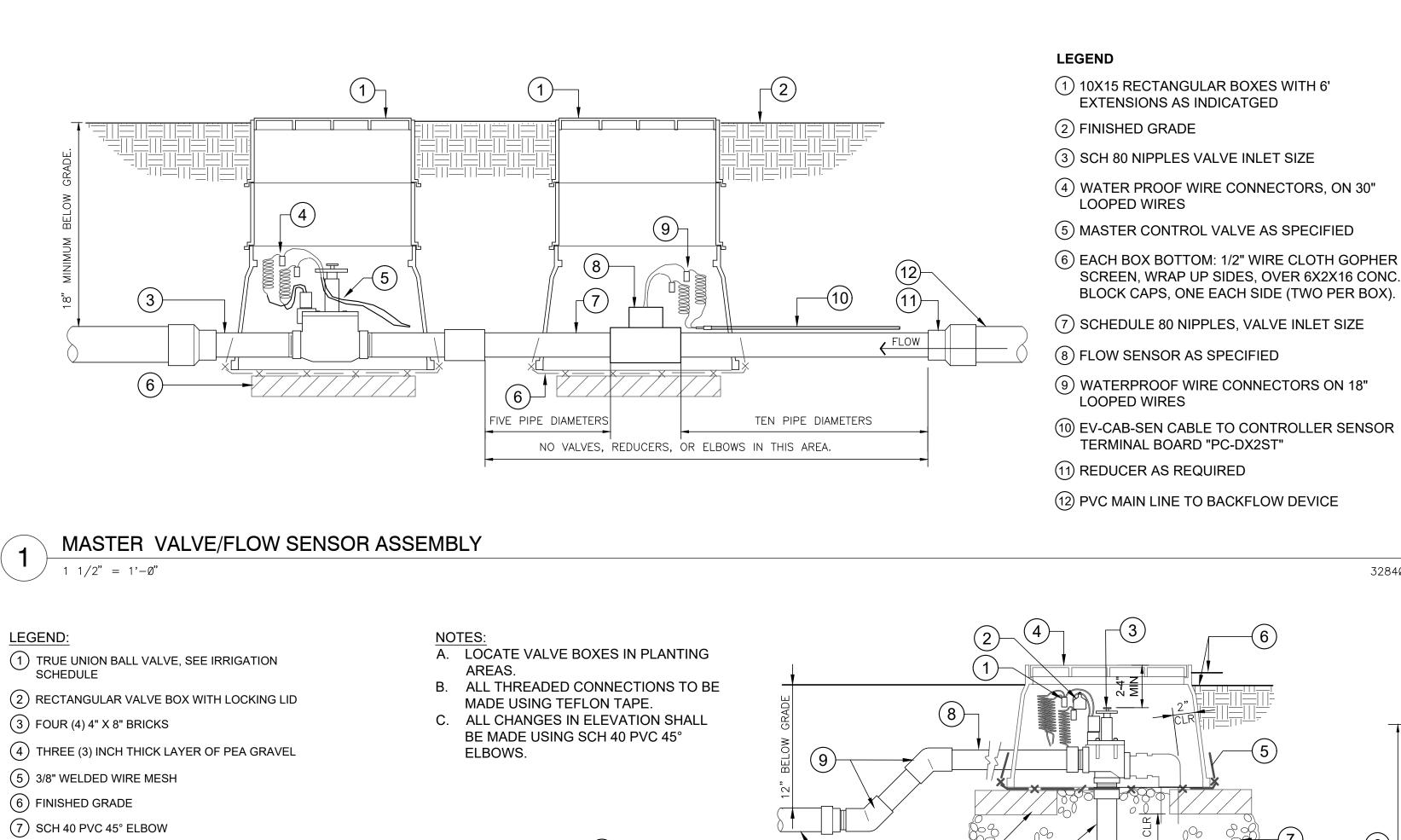
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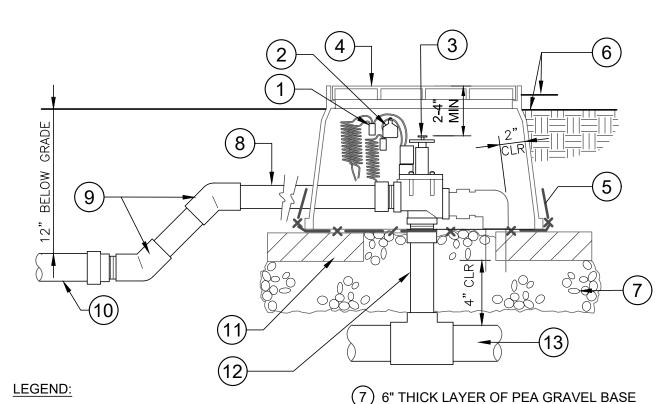
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DRAWING FILE

20MM010

HART PARK PROP 68 IMPROVEMENTS
IRR. NOTES AND CALCULATIONS





(1) WATER PROOF WIRE CONNECTORS

(2) PLASTIC I.D. TAG AT EACH VALVE REMOTE CONTROL VALVE, ONE PER BOX. HEAT BRAND "RCV" AND VALVE NUMBER WITH 2" HIGH LETTERS

(4) 10X15 RECTANGULAR VALVE BOX 1/2" WIRE CLOTH GOPHER SCREEN,

WRAP UP SIDES (6) 3" ABOVE FINISHED GRADE AT SHRUBS, 1" ABOVE FINISHED GRADE AT LAWN

328406.13-01

(13) MAIN LINE AS SPECIFIED **ELECTRIC REMOTE CONTROL VALVE ASSEMBLY**

(8) OUTLET PIPE SAME SIZE AS VALVE, 24" MIN. TO FIRST FITTING

9 45 DOWN AS REQUIRED TO LATERAL

(11) CONCRETE BRICK SUPPORT, TWO ON

(12) SCHEDULE 80 RISER, SIZE AS NEEDED

SCALE: 1 1/2" = 1'-0"

(10) INCREASE LATERAL LINE AS PER

PIPE DEPTH

EACH SIDE

IRRIGATION PLAN

1 1/2" = 1'-0"

7

LEGEND:

- (1) 10" DIAMETER VALVE BOX. HEAT BRAND "QCV" ON LID WITH 2" HIGH LETTERS
- (2) FINISHED GRADE
- (3) 10" DIAMETER VALVE BOX
- (4) FLUSH TO GRADE AT
- (5) 1" ABOVE GRADE AT SHRUBS
- (6) QUICK COUPLER AS SPECIFIED
- (7) GALVANIZED RISER AND ELBOW, QC INLET SIZE
- (8) FOUR COMMON BRICKS AS SUPPORT UNDER BOX
- (9) 1/2" WIRE CLOTH GOPHER SCREEN, WRAP **UP SIDES**
- (10) MAIN LINE

QUICK COUPLING VALVE IN BOX ASSEMBLY

LEGEND

1) FINISHED GRADE

APPLICABLE

(3) TURF POP UP HEAD

(4) 1/2" MARLEX STREET

(6) 12" MINIMUM BELOW

(7) LATERAL LINE AND PVC

2) CLEAR TO FENCE OR

HARDSCAPE WHERE

(5) SCHEDULE 80 PVC NIPPLE

SET AT 45 DEGREE ANGLE

- (11) PVC MALE ADAPTER
- (12) 60 LB CONCRETE TORQUE BLOCK

328406.43-03

5

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES 612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us

LEGEND:

(1) FINISHED GRADE

(2) CLEAR TO FENCE OR HARDSCAPE,

(4) MARLEX STREET ELLS, INLET SIZE

REQUIRED, SET AT 45 DEGREE ANGLE

Scale: 3" = 1'-0"

(5) 12" MINIMUM BELOW GRADE

(6) SCHEDULE 80 PVC NIPPLE AS

(7) LATERAL LINE, SIZE PER PLAN

WHERE APPLICABLE

(3) TURF ROTOR POP UP

DIAMETER

1) NON-PRESSURIZED LINE

(LATERAL LINE)

(4) DIRECT BURIAL LOW

(5) FINISHED GRADE

SUPPLY LINE

6 PAVEMENT

VOLTAGE CONTROL WIRES

(7) SAND BACKFILL, MATERIAL

FREE FROM ALL ROCK AND

DEBRIS GREATER THAN

ONE HALF INCH. 4" ABOVE

(MAINLINE)

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING



COUNTY OF KERN GENERAL SERVICES DIVISION OF THE

COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

HART MEMORIAL PARK ADVENTURE PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS CHAIRMAN BOARD OF SUPERVISORS RECOMMENDED FOR APPROVAL DEPARTMENT RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

CHIEF GENERAL SERVICES OFFICER

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VISUAL CONTACT WITH THESE DRAWINGS SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE DIVISION, COUNTY OF KERN.

NSUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDENDA, AS—BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

REV DESCRIPTION SHEET NO.

AND 2" BELOW PRESSURE

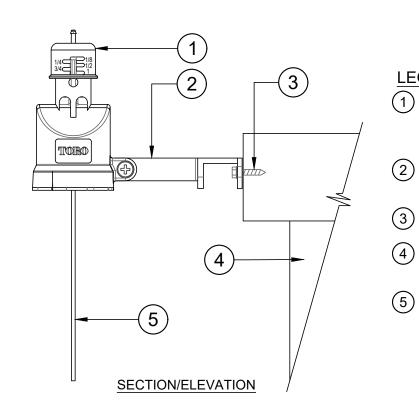
C. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 ELECTRICAL CONDUIT. D. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

A. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.

B. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC SLEEVE UNDER PAVEMENT.

IRRIGATION TRENCHING

TURF ROTOR MARLEX ASSEMBLY TURF SRAY MARLEX ASSEMBLY 328403.13-01 LEGEND: (1) TORO WIRELESS RAIN SENSOR, MODEL NO. **TWRFS** (2) ADJUSTABLE MOUNTING BRACKET (3) WOOD SCREW (2) PRESSURIZED LINE (4) WOOD FENCE OR 4X4 (3) DETECTABLE LOCATOR (5) ANTENNA



328406.23-10

MOUNT SENSOR VERTICALLY. AVOID PLACEMENT UNDER EVE OR TREE CANOPY. LOCATE WITHIN 300 FEET OF SENSOR RECEIVER AND CONTROLLER.

A. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. B. DO NOT SCALE DRAWINGS. C. CONTRACTOR NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT: www.CADdetails.com/info REFERENCE NUMBER 065-256b.

NOT TO SCALE

WIRELESS RAIN/FREEZE SENSOR - SURFACE MOUNT

328409.65-01

(8) BACKFILL MATERIAL, FREE FROM ALL ROCK AND **DEBRIS LARGER THAN** 1-INCH

ONSULTANT STAMP

5/29/2024 EAS EAS

CHECKED BY MJW DRAWING FILE 1650.7014-21 20MM010

REQUIRED (7) FINISH GRADE - TOP OF MULCH

(4) PVC SCH 80 TEE OR ELL (5) PLANT MATERIAL (6) PVC SCH 80 NIPPLE, LENGTH AS

LEGEND:

(3) PVC LATERAL PIPE, SIZE PER PLAN

1) POP-UP STREAM BUBBLER HEAD

(2) MARLEX STREET ELL

328406.33-07

(1) SET THE CONTROLLER 60" ABOVE FINISHED GRADE IN A WATERPROOF ENCLOSURE

UNLESS OTHERWISE NOTED (2) CONTROLLER AS SPECIFIED. SECURELY BOLT CONTROLLER TO WALL. INSTALL BACKUP BATTERIES AS REQUIRED. GROUND AS PER MANUFACTURER'S SPECIFICATIONS.

(3) 2" DIAMETER RIGID STEEL CONDUIT FOR RCV

(4) 1/2" DIA. RIGID STEEL CONDUIT FOR 110 VAC ELECTRICAL SOURCE. INSTALL AS PER LOCAL ELECTRICAL CODES

(5) 12" X 12" X 4" STEEL JUNCTION BOX. GROUP WIRE BUNDLES AND SPLICE TO 18 GA. WIRES WITH TERMINAL STRIP AS PER SPECIFICATIONS

(6) 2" DIAMETER RIGID STEEL CONDUIT FOR RCV

(7) FINISHED GRADE (8) LONG SWEEP ELL

(9) USE PVC SCH. 40 BELOW GRADE

328409.13-02

FX-IR-FX-AUXEQ-Ø8

POP-UP STREAM BUBBLER

(8) PAVEMENT

(10) MAINLINE

9 SCH 80 PVC NIPPLE TxS

 $1 \ 1/2" = 1'-\emptyset"$

TRUE UNION BALL VALVE

328403.56-03

WALL MOUNT CONTROLLER

DESIGNED BY DRAWN BY

ELECTRICAL PLAN CONVENTIONS

DETAIL CALL-OUT/REFERENCE # DETAIL NO. \setminus sheet / \longrightarrow PLAN REFERENCE NO

REFERENCE NOTE CALL-OUT $\pmod{\#}$ Numbered sheet note A → LUMINAIRE DESIGNATION

CRITICAL BRANCH

CURRENT TRANSFORMER

DEMOLITION / DEMOLISH

DOUBLE POLE SINGLE THROW

EXISTING IN NEW LOCATION

EXISTING TO BE RELOCATED

ELECTRICAL CONTRACTOR

ELECTRIC METALLIC TUBING

FIRE ALARM CONTROL PANEL

FULL VOLTAGE NON-REVERSING

GROUNDING CONDUCTOR

END OF LINE RESISTOR

ENGINEER OF RECORD

FIRE ALARM TERMINAL

FURNISHED BY OTHERS

FULL LOAD AMPS

FLOOR

FLUORESCENT

FUSIBLE SWITCH

CONDUIT SEAL

CONDUIT CONTINUATION

FUSES FOR

DEPARTMENT OF THE STATE ARCHITECT

CALIFORNIA SEM

DIRECT CURREN

DIAMFTER

ELECTRICAL

EMERGENC)

DPST

FLUOR

COPPER

FEEDER DESIGNATION

REFERS TO FEEDER SCHEDULE INCLUDED ON THE SINGLE LINE DIAGRAM. SCHEDULE NOTES FEEDER SPECIFICATION, CONDUIT SPECIFICATION, AND ROUTING.

LUMINAIRE DISTRIBUTION <-∳-> ← LIGHT DISTRIBUTION INDICATED BY ARROWS

SINGLE POLE SINGLE THROW

SQUARE

SERVICE

SWITCH

SURFACE SERVICE

TRANSFORMER

TIME CLOCK

TIME SWITCH

TRANSFORMER

UNDERGROUND

UG SVC ALERT

VOLT AMPERES

WHILE-IN-USE

XFMR TRANSFORMER

WEATHERPROOF

UTILITY METER WITH CT'S

VANDAL-RESISTANT

WIDTH, WIRE OR WATT

TYPICAL

TELEPHONE

TO BE REMOVED

TWISTED SHIELDED PAIR

TELEPHONE TERMINAL BOARD

TELEPHONE TERMINAL CABINET

UNDERGROUND PULL SECTION

UNDERWRITERS LABORATORIES

VOLT ALTERNATING CURRENT

UNLESS OTHERWISE NOTED

UNDERCABINET OR UNDERCOUNTER

SPST

SQ

SVC

UON

USA

Ta,b ■BRANCH CIRCUIT, SWITCHLEG(S)

1 - BRANCH CIRCUIT

DESIGNATION

ELECTRICAL ABBREVIATIONS OWNER PROJECT REQUIREMENTS GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER O&M AMPERE OPERATION & MAINTENANCE ABOVE GROUND FAULT CIRCUIT INTERRUPTER OSA OFFICE OF THE STATE ARCHITEC ALTERNATING CURRENT GND GROUND OFFICE of STATEWIDE HEALTH GALVANIZED RIGID STEEL PLANNING & DEVELOPMENT **ADJACENT** FUSED SWITCH AMPERAGE RATING GANG WITH SWITCH OVERLOAD ABOVE FINISH FLOOR AUTHORITY HAVING JURISDICTION HIGH INTENSITY DISCHARGE **PUBLIC ADDRESS** AMPERES INTERRUPTING CAPACITY PULLBOX HIGH OUTPUT HAND-OFF-AUTO PHOTOCELL PLUMBING CONTRACTOR AIR POLLUTION CONTROL DISTRICT HORSEPOWER AUTOMATIC TRANSFER SWITCH HPF HIGH POWER FACTOR PHASE PANFI AUDIBI F/AUDIO VISUA HIGH PRESSURE SODIUM POINT OF CONNECTION AWG AMERICAN WIRE GAGE **IDENTIFICATION** PHOTOVOLTAIC BELOW FINISH GRADI ISOLATED GROUND INTERNATIONAL BUILDING CODE RELOCATE(D) BLDG BUII DING RECEPT BOD BASIS OF DESIGN RECEPTACLE JUNCTION BOX CONDUIT RLA RUNNING/RATED LOAD AMPS CALIFORNIA ROOM RMCRIGID METAL CONDUIT CABLE TELEVISION KVA KILOVOLTAMPS RMVCIRCUIT BREAKER **RPLC** CA BUILDING CODE REPLACE LIGHTING CONTROL CA ELECTRICAL CODE RAPID START LOCKED ROTOR AMPS COMPACT FLUORESCEN CA FIRE CODE LIFE SAFETY BRANCH SIGNAL CABINET CEILING SCC SHORT CKT CURRENT CENTER LINE LIGHTING STATE FIRE MARSHAI CIRCUIT LOW VOLTAGE CONTRACTOR SWITCH LEG CONDUIT ONLY (W/PULLROPE MECHANICAL CONTRACTOR SPEC **SPECIFICATION**

MINIMUM CIRCUIT AMPS

MAIN CIRCUIT BREAKER

MECHANICAL

MFTAL HALIDE

MAIN LUGS ONLY

MAXIMUM OCP

MANUFACTURER

MAIN FUSIBLE SWITCH

MAIN POINT OF ENTRY

MAIN SWITCHBOARD

MOUNTING HEIGHT

MANUAL TRANSFER SWITCH

NEUTRAL CONDUCTOR

NATIONAL FLECTRICAL CODE

NORMALLY OPEN, NUMBER

NORMAL POWER FACTOR

OVERCURRENT PROTECTION

NAT'L ELEC MANUFACTURER'S ASSOC

NORMALLY CLOSED

NOT IN CONTRACT

NEMA 3R

NATIONAL

NIGHT LIGHT

NOT TO SCALE

OVERALL HEIGHT

OUTSIDE DIAMETER

ON CENTER

OVERHEAD

MAIN TELEPHONE TERMINAL BOARD

MAIN TELEPHONE TERMINAL CABINET

MCA

MCB

MSB

MTTB

MTTC

OD

OH

ELECTRICAL SYMBOLS

LIGHTING		SWITCHES		POWER & 0	COMMUNICATION
OR 0	CEILING MOUNT LUMINAIRE	\$	SPST	Ф	SINGLE RECEPTACLE
Ю	WALL MOUNT LUMINAIRE	\$ ²	DPDT	Ф	DUPLEX RECEPTACLE
	PENDANT MOUNT LUMINAIRE	\$3	3-WAY	Ф	HALF-SWITCHED DUPLEX RECEPTACLE
0	RECESSED DOWNLIGHT	\$ ⁴	4-WAY	ф	FULLY-SWITCHED RECEPTACLE
	RECESSED WALL WASH DOWNLIGHT	\$ _D	STAND ALONE DIMMER	 	DOUBLE DUPLEX RECEPTACLE
_ -	RECESSED STEP LIGHT	\$	TIMER SWITCH	\otimes	SPECIAL PURPOSE RECEPTACLE - THREE PHASE
	STRIP LIGHT	\$P	PILOT LIGHT	Ф	SPECIAL PURPOSE RECEPTACLE - SINGLE PHASE
	LUMINAIRE WITH EMERGENCY BATTERY	\$ ^K	KEY OPERATED	$\boldsymbol{\varphi}^{\bullet}$	DEVICE MOUNTED ABOVE COUNTER SPLASH
OR	PACK OR EMERGENCY BRANCH CIRCUIT CONNECTION	\$ •	DEVICE MOUNTED ABOVE	<u> </u>	JUNCTION BOX
	TRACK LIGHT		COUNTER SPLASH	lacktriangledown	TELEPHONE DEVICE
8 OR A	DIRECTIONAL FLOOD LIGHT	OS	OCCUPANCY SENSOR	∇	COMMUNICATIONS DEVICE (DATA/TEL)
	EMERGENCY LUMINAIRE	PC	PHOTOSENSOR/PHOTOCELL	TV	TELEVISION OUTLET
-■	AREA LIGHT (EXTERIOR)	PP	POWER PACK		DISCONNECT SWITCH (FUSED/UN-FUSED)
\bigcirc	BOLLARD (EXTERIOR)				COMBINATION MOTOR STARTER/DISCONNECT
	UP LIGHT (FLUSH IN GRADE)			Dell	CORD DROP RECEPTACLE
	DIRECTIONAL GROUND MOUNTED LIGHT			© _{CLG}	MOTOR
₹	EXIT SIGN (CHEVRON DIRECTIONS NOTED)				CIRCUIT BREAKER
₩	EXIT SIGN (WALL MOUNTED)			__	FUSIBLE SWITCH
				— —	FUSE
				— « »—	DRAW-OUT STUBS
RACEWAY	S & CONDUCTORS			÷	GROUND
	UNDERGROUND CONDUIT			ø	PHASE
	CONDUIT (CONCEALED IN STRUCTURE)				FLUSH MOUNT PANEL
	OVERHEAD CONDUCTORS (NOT IN CONDUIT)			_	SURFACE MOUNT PANEL
	WIREMOLD RACEWAY			K1	SURFACE PANEL WITH WORKING CLEARANCE NOTED
	HOMERUN CONDUIT. CROSS MARKS DENOTE NUMBER OF CONDUCTORS - EXAMPLE: 3-HOT AND 1-NEUTRAL. GROUND CONDUCTOR NOT SHOWN.				DRY TYPE TRANSFORMER (RATING NOTED)
	CONDUIT TURNS UP (TOWARDS VIEWER)			\triangle	THREE PHASE DELTA CONNECTION, NEUTRAL GROUNDED
	CONDUIT TURNS DOWN (AWAY FROM VIEWER)			Ţ	THREE PHASE WYE CONNECTION
	CONDUIT STUB (NO MARKER)			⊣ ⊢	RELAY
				M	UTILITY METER
	CONDUIT SEAL			+ _	

ADA MOUNTING HEIGHTS

DEVICE	MOUNTING HEIGHT	NOTES
PROTRUDING OBJECT (WALL MOUNTED)	LEADING EDGE BETWEEN 27" AND 80" AFF.	OBJECT SHALL NOT PROTRUDE MORE THAN 4" INTO THE CIRCULATION PATH.
RECEPTACLE, COMMUNICATION, TELEPHONE, CATV, ETC.	+15" AFF TO THE BOTTOM OF THE OUTLET BOX.	APPLICABLE TO RECEPTACLES (30 AMPS AND LESS), CONTROLS, AT SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM PER CBC 11B-308.1.1 (SWITCHES) AND 11B-308.1.2 (RECEPTACLES).
LUMINAIRE SWITCHES	+48" AFF TO THE TOP OF THE OUTLET BOX.	OUTLET(S) SHALL BE INSTALLED NO LESS THAN $+15$ " MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.
DEVICES ABOVE A 20"-25" DEEP COUNTER/OBSTRUCTION	+46" (MAX.) TO THE TOP OF THE OUTLET BOX (SIDE APPROACH). +44" (MAX.) TO THE TOP OF THE OUTLET BOX (FORWARD APPROACH).	COORDINATE WITH ARCHITECTURAL PLANS. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH THE RECEPTACLE/DEVICE.
FIRE ALARM PULL STATIONS	BETWEEN +42" - 48" MAX TO THE TOP OF THE ACTIVATING HANDLE.	

1) DEVICES SHALL MOUNT PER MATRIX ABOVE UNLESS OTHERWISE NOTED PER PLANS.

2) PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT CONNECTION LOCATIONS WITH THE ARCHITECT OR OWNER. WHERE DEVICES ARE LOCATED ABOVE COUNTERS AND SHELVING, SPECIAL ATTENTION SHALL BE TO ENSURE OUTLETS AND COVER PLATES DO NOT CONFLICT WITH EDGES OF COUNTER SPLASH, SHELVING TRIM, WAINSCOTING, ETC. CONSULT ARCHITECTURAL DETAILS AND INTERIOR ELEVATIONS, AS THEY SHALL GOVERN WHERE THERE IS CONFLICT

B) EXCEPTIONS: APPLIANCES (I.E. KITCHEN RANGES, DISHWASHERS, ETC.) WHICH DO NOT HAVE CONTROLS LOCATED ON APPLIANCE.

GENERAL POWER & COMMUNICATION PLAN NOTES

DEVICE AND EQUIPMENT FINAL LOCATION SHALL BE FIELD VERIFIED WITH ALL TRADES DURING ROUGH-IN. OBTAIN ACCEPTANCE OF EXACT LOCATIONS WITH ARCHITECT/OWNER REPRESENTATIVES TO AVOID CONFLICT WITH FURNITURE, CASEWORK, ETC.

RECEPTACLES INSTALLED IN EXTERIOR LOCATIONS SHALL BE PROVIDED WITH A WEATHERPROOF WHILE-IN-USE COVER (LOCKING AS REQUIRED PER PLANS).

3. SEPARATE NEUTRAL CONDUCTORS SHALL BE INSTALLED FOR EACH BRANCH CIRCUIT AS INDICATED PER CONSTRUCTION DOCUMENTS. FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUNDING CONDUCTOR, SHALL BE INSTALLED IN EACH CONDUIT/RACEWAY AND SHALL

BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM, GROUNDING CONDUCTORS SHALL BE SIZED PER THE CONSTRUCTION DOCUMENTS OR CEC REQUIREMENTS, WHICHEVER IS GREATER. MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN CONDUIT AND RACEWAYS. GROUND CONDUCTORS SHALL BE SIZED AS INDICATED IN CEC TABLE 250.122, UNLESS OTHERWISE NOTED ON THE DRAWINGS. IT SHALL BE PERMITTED TO UTILIZE A SINGLE GROUND CONDUCTOR WHEN BRANCH CIRCUITS ARE COMBINED IN A SINGLE HOMERUN. GROUND CONDUCTOR SHALL BE SIZED FOR THE LARGEST OVERCURRENT DEVICE.

- THERMAL OVERLOAD PROTECTION SHALL BE PROVIDED FOR ALL MOTORS WHERE REQUIRED PER CEC 430. OVERLOAD PROTECTION MAY BE PROVIDED INTEGRAL TO EQUIPMENT.
- WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS, FUSIBLE DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT TIME DELAY FUSES, FUSES SHALL BE SIZED AS NOTED PER THE CONSTRUCTION DOCUMENTS AND/OR PER MANUFACTURER REQUIREMENTS, VERIFY FUSE SPECIFICATION WITH EQUIPMENT NAMEPLATE INFORMATION DURING SUBMITTAL REVIEW, PRIOR TO PROCUREMENT.

- ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH FIELD OR FACTORY MARKING INDICATING THE POTENTIAL ARC FLASH HAZARDS AS REQUIRED IN CEC 110.16 AND 110.21.
- WORKING SPACE AT ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AS REQUIRED PER CEC 110.

CODE COMPLIANCE

THE WORK IDENTIFIED IN THESE PLANS AND SPECIFICATIONS SHALL CONFORM TO AND BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES, STANDARDS, AND ORDINANCES ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION AT TIME OF PERMITTING. UNLESS OTHERWISE NOTED, CODES, STANDARDS, AND ORDINANCES SHALL BE THE LATEST EDITION WITH CALIFORNIA AND LOCAL JURISDICTION AMENDMENTS AS APPLICABLE. WORK IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED TO CONFLICT WITH ANY STATE LAW, CODE OF REGULATION, LOCAL ORDINANCE, ASSEMBLY BILL, ETC. CALIFORNIA CODE OF REGULATIONS TITLE 24

- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA BUILDING CODE
- CALIFORNIA ACCESSIBILITY CODE

GENERAL NOTES

- FURNISH LABOR, MATERIALS, EQUIPMENT, COMPONENTS, TOOLS, TRANSPORTATION TO/FROM THE WORK SITE, AND NECESSARY SERVICES ETC. AS REQUIRED TO SUPPORT AND IMPLEMENT THE ELECTRICAL WORK SHOWN ON THE CONSTRUCTION DOCUMENTS.
- "PROVIDE" AS USED ON THE CONSTRUCTION DOCUMENTS, IS DEFINED AS "FURNISH AND INSTALL"
- PERMITS SHALL BE OBTAINED FOR ELECTRICAL WORK. ARRANGE INSPECTIONS WITH THE AHJ AND OBTAIN ACCEPTANCE. CONSULT WITH THE ELECTRICAL INSPECTOR PRIOR TO BEGINNING WORK.
- ELECTRICAL WORK SHALL BE PERFORMED BY A CALIFORNIA STATE LICENSED ELECTRICIAN.
- INSTALL EQUIPMENT AT LOCATIONS INDICATED ON THE DRAWINGS AS CLOSELY AS FIELD CONDITIONS PERMIT. OBTAIN ACCEPTANCE OF EQUIPMENT DIMENSIONS PRIOR TO INSTALLATION THROUGH SUBMITTAL REVIEW. CALIFORNIA ELECTRICAL CODE (CEC) MINIMUM WORKING CLEARANCES SHALL BE MAINTAINED.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT MINOR VARIATIONS IN EQUIPMENT ALIGNMENT/INSTALLATION THAT MAY BE NECESSARY. REVIEW EXISTING FIELD CONDITIONS AND MAKE PROPER ADJUSTMENTS AS REQUIRED TO AVOID CONFLICT WITH OTHER TRADES OR PORTIONS OF WORK, SATISFY THE DESIGN REQUIREMENTS, AND MEET CODE MINIMUMS. OBTAIN ACCEPTANCE OF ADJUSTMENTS FROM THE ARCHITECT/ENGINEER.
- DRAWINGS DO NOT SHOW THE EXTENT OF J-BOXES AND PULL BOXES THAT ARE REQUIRED TO IMPLEMENT THE ELECTRICAL WORK. PROVIDE THE QUANTITY OF J-BOXES AND PULL BOXED AS REQUIRED TO IMPLEMENT ELECTRICAL WORK, COMPLY WITH CODE, AND MEET
- 8. NOTIFY THE ARCHITECT/ENGINEER OF DISCREPANCIES WITHIN THE DRAWINGS, THIS SPECIFICATION, AND/OR ACTUAL FIELD CONDITIONS
- 9. COORDINATE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
- 10. RACEWAYS WITHIN THE BUILDING SHALL BE CONCEALED, WITH THE EXCEPTION OF EXPOSED STRUCTURE AND WHERE SPECIFICALLY ALLOWED BY THE ARCHITECT/OWNER. WHERE APPROVED, EXPOSED CONDUIT SHALL BE RUN SQUARE AND PLUMB WITH BUILDING LINES AND SHALL BE PROPERLY SUPPORTED PER CODE.
- 11. EXPOSED CONDUIT BELOW 7' AFF, AND WHERE SUBJECT TO PHYSICAL DAMAGE, SHALL BE INSTALLED IN GRS CONDUIT.
- 12. WHERE CONDUIT ONLY IS SHOWN ON THE DRAWINGS AND/OR INSTALLED FOR FUTURE PROVISIONS, 1" AND LARGER, INSTALL A NYLON
- 13. FLUSH MOUNTED PANELBOARDS SHALL HAVE A MINIMUM OF (1) 3/4" C.O. INSTALLED FROM THE PANEL TO AN ACCESSIBLE CEILING AREA, FOR EVERY FOUR BRANCH CIRCUIT SPARES AND/OR SPACES.

- PRIOR TO BIDDING, CONSULT PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IF PROJECT SPECIFICATIONS HAVE NOT BEEN PROVIDED, REQUEST THEM FROM THE ARCHITECT AND/OR ENGINEER OF RECORD.
- 2. PRIOR TO THE SUBMISSION OF BID REVIEW EXISTING FIELD CONDITIONS AND MAKE PROPER ADJUSTMENTS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- 3. OBTAIN ENGINEERING PRE-APPROVAL FOR ALTERNATE PRODUCT AS OUTLINED IN THE PROJECT SPECIFICATIONS.

FINAL ACCEPTANCE

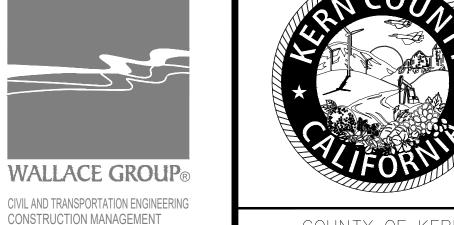
- COMPLETE ACCEPTANCE TESTING AS REQUIRED PER THE PROJECT SPECIFICATIONS. SUBMIT APPROPRIATE DOCUMENTATION TO THE OWNER, ARCHITECT, AND AHJ.
- TEST THE ELECTRICAL SYSTEM AND COMPONENTS TO ENSURE PROPER PERFORMANCE. MAKE CORRECTIONS WHERE REQUIRED. DEMONSTRATE SYSTEM PERFORMANCE TO THE OWNER AND OBTAIN ACCEPTANCE.
- 3. PROVIDE RECORD DRAWINGS PER THE PROJECT SPECIFICATIONS TO THE OWNER.
- 4. PROVIDE O&M MANUALS PER THE PROJECT SPECIFICATIONS TO THE OWNER.

- FURNISHED MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
- 2. FURNISHED MATERIAL, EQUIPMENT, AND FIRE STOP THROUGH PENETRATIONS SHALL BE LISTED BY UL OR AN EQUIVALENT NATIONALLY RECOGNIZED LISTING AGENCY. PRODUCT LISTINGS SHALL BE PROVIDED TO THE EOR AT TIME OF SUBMITTAL REVIEW.
- 3. FURNISHED MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER REQUIREMENTS, SUBJECT TO REVIEW, INSPECTION, AND APPROVAL BY THE AHJ.

- CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN CBC CHAPTER 7 AND COMPLY WITH LOCAL AHJ REQUIREMENTS. PROVIDE MEANS TO MAINTAIN INTEGRITY OF THE FIRE RATED ASSEMBLY BY PROVIDING THE FOLLOWING A PHYSICAL ENCLOSURE AROUND EQUIPMENT (INCLUDING LUMINAIRES, PANELS, OUTLETS, ETC.) AS APPLICABLE. PENETRATIONS SHALL BE INSTALLED PER APPROVED MANUFACTURER THROUGH-PENETRATION FIRESTOP SYSTEM DETAILS. ELECTRICAL OUTLET BOXES INSTALLED FLUSH IN FIRE RATED ASSEMBLIES SHALL NOT EXCEED 16 SQ. IN., OR MORE THAN 100 SQ. IN. FOR ANY 100SQ. FT.
- THE PROJECT STRUCTURAL ENGINEER AND ARCHITECT SHALL APPROVE PENETRATION OF STRUCTURAL MEMBERS (INCLUDING BUT NOT LIMITED TO: BEAMS, COLUMNS, FOOTINGS, ETC.), PERFORM WORK IN ACCORDANCE TO STRUCTURAL DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS.

EQUIPMENT ANCHORAGE

- ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES IDENTIFIED IN THE 2022 CBC AND A.S.C.E. 7-10.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND AHJ.
- THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURES ABILITY TO SUPPORT HANGER AND/OR BRACE LOADS DUE TO ELECTRICAL EQUIPMENT.



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BAKERSFIELD, CA

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USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDENDA, AS—BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTIOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FO ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

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DATE	REV	DESCRIPTION
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DATE		CHEET NO

5/29/2024	SHEET NO.
DESIGNED BY JC	
DRAWN BY HB	
CHECKED BY HG	
JOB NO. 1650.7014-21	DRAWING FILE 20MM010
	68 IMPROVEMENTS OLS & ABBREVIATIONS



Arc Flash and Shock Hazard Appropriate PPE Required

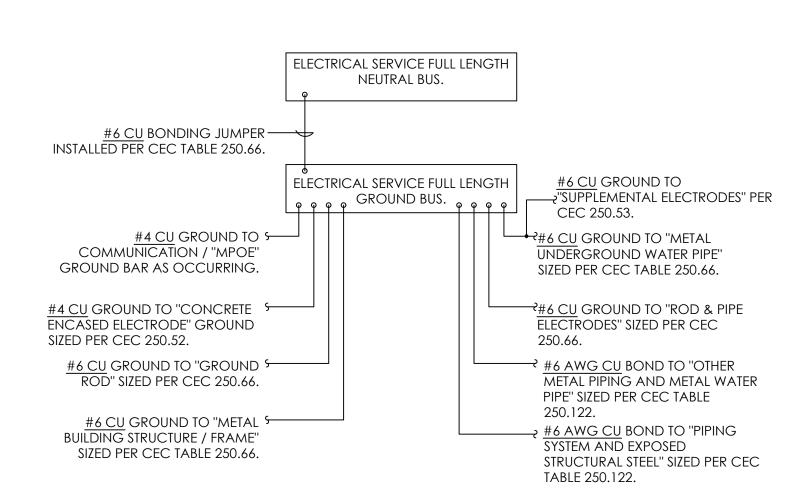
NOT TO SCALE

ARC FLASH HAZARD WARNING - ELECTRICAL EQUIPMENT (IE. SWITCHGEAR, PANELS, CONTROL PANELS, METER SOCKED ENCLOSURES) THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ARC FLASH HAZARDS. THE MARKING SHALL ADHERE TO NFPA 70E-2009, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE. IN ADDITION, ANSI Z535.4-1998, PRODUCT SAFETY SIGNS AND LABELS. REFER TO DIVISION 26 SPECIFICATION SECTION 26 05 03, "IDENTIFICATION OF ELECTRICAL SYSTEMS" FOR ADDITIONAL REQUIREMENTS.

WHEN MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR, THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE, AND THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT INTERRUPTING RATINGS ARE SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT.

\(\sqrt{\omega} \mathbb{W} \mathbb{A} \)	RNING
	Shock Hazard PPE Required
ARC FLASH PROTECTION	SHOCK PROTECTION
FLASH HAZARD CATEGORY INCIDENT ENERGY (cal/cm^2) ® WORKING DISTANCE ARC FLASH BOUNDARY	VOLTAGE SHOCK HAZARD LIMITED APPROACH BOUNDARY RESTRICTED APPROACH BOUNDARY PROHIBITED APPROACH BOUNDARY GLOVE CLASS
EQUIPMENT ID: DAT	E PREPARED: BY:

TYPICAL ARC FLASH SIGNAGE



GROUND / BOND DETAIL AT NEW SERVICE

GENERAL NOTES

- GROUNDING SHALL BE IN ACCORDANCE TO THE CEC, ARTICLE 250.
- GROUNDING ELECTRODES PRESENT AND STRUCTURE / BUILDING SHALL BE BONDED TOGETHER TO FORM A COMPLETE GROUNDING ELECTRODE SYSTEM. WHERE GROUNDING ELECTRODES IDENTIFIED IN THIS DETAIL AND CEC 250.52 ARE NOT PRESENT, PROVIDE ONE OR MORE CONNECTIONS TO THE ELECTRODE IDENTIFIED / PRESENT.
- CONSULT CEC ARTICLE 250 FOR GROUND RINGS, OTHER LISTED ELECTRODES, AND PLATE ELECTRODES NOT SHOWN IN THIS
- GROUNDING CONDUCTORS SIZED PER CEC TABLE 250.66 SHALL BE COORDINATED WITH THE UTILITY INSTALLED SECONDARY SERVICE CONDUCTOR SPECIFICATION PRIOR TO INSTALLATION.
- SEPARATELY DERIVED SYSTEMS SHALL BE GROUNDED AS PER CEC 250.30 (A) FOR GROUNDED, AND 250.30 (B) FOR UNGROUNDED SYSTEMS, AND COMPLY WITH 250.20 AND 250.26.
- ALL SERVICE FEEDERS OR BRANCH CIRCUTS SUPPLYING A BUILDING SHALL HAVE A COMMON GROUNDING ELECTRODE SYSTEM.
- ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER.
- ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD SHALL BE GROUNDED.

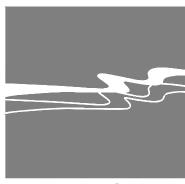
(N) RISER N) BACKBOARD 200A, 277/480V THREE-PHASE, 4-WIRE, 65,000 AIC (EST). $-(\mathbf{M})^2$ ¬TX-LP 25KVA 480-120/240V, (N)PANEL 1-PHASE HP #8 cu 3P P P MLO (N) PANEL LP 125A | ° °) 20A "SS" F04 125A (N) PANEL 2P CONTROL PANEL RR PUMP 1 34 FLA 204 LRA 4

TO PG&E

SINGLE LINE DIAGRAM

REFERENCE NOTES

- NEW UTILITY SERVICE. RATING AS INDICATED.
- 2. NEW METER. ENCLOSURE RATING NEMA 3R.
- 3. NEW DISTRIBUTION PANEL "HP". INSTALL AT EXISTING BACKBOARD OR NEAR VICINITY. ENCLOSURE RATING NEMA 3R.
- 4. NEW SPLASHTOP CONTROLLER (BY OTHERS).
- 5. NEW PANELBOARD FOR PUBLIC RESTROOM (BY OTHERS).
- 6. NEW PANELBOARD "LP". ENCLOSURE RATING NEMA
- 7. NEW SOFT-START FOR EFFLUENT PUMP.



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SINGLE LINE DIAGRAM GENERAL NOTES

FAULT CURRENT CALCULATION NOTE

THE ELECTRICAL DISTRIBUTION SHALL BE PROVIDED WITH A FAULT RATING CAPABLE TO WITHSTAND THE VALUE INDICATED ON THE SINGLE LINE DIAGRAM AND / OR REFLECTED IN THE FEEDER SCHEDULE PREPARED FOR THIS PROJECT. THE FORMULAS USED IN THIS CALCULATION ARE AS FOLLOWS;

C FACTOR = 1/Z PER LF $FFACTOR = [1.73 \times L \times I] / [PC \times C \times E]$ M FACTOR = 1 / [1 + F FACTOR]SHORT CIRCUIT AMPS AT FAULT = 1 x M

Z PER LF = CONDUCTOR IMPEDANCE PER LINEAR FOOT L = CONDUCTOR LENGTH IN LINEAR FEET I = FAULT CURRENT RATING AVAILABLE AT THE SOURCE PC = QUANTITY OF PARALLEL CONDUCTORS PER PHASE C = C FACTOR (SEE EQUATION) E = LINE VOLTAGE

THE CONTRACTOR SHALL MEET ALL SERVING UTILITY REQUIREMENTS WITH RESPECT TO PROCUREMENT AND INSTALLATION OF THE ELECTRICAL SERVICE. REQUIREMENTS INCLUDE, HOWEVER ARE NOT LIMITED TO THE FOLLOWING:

- CONDUCTORS SHALL BE THHN/THWN COPPER UNLESS OTHERWISE NOTED. AMPACITY SIZES NOTED ON THE CONSTRUCTION DOCUMENTS ARE BASED ON 75 DEG.
- TERMINALS FOR SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS.
- FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE-WRENCH TIGHTENED TO THE MANUFACTURER RECOMMENDED SPECIFICATION.

EMERGENCY DISTRIBUTION EQUIPMENT (I.E. BOXES, CABINETS, TRANSFER SWITCHES, GENERATORS, POWER PANELS, ETC.) SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM IN ACCORDANCE TO NEC 700-9(A).

ERIES RATED EQUIPMENT

SERIES RATED EQUIPMENT SHALL NOT BE PERMITTED.

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OF THE COUNTY ADMINISTRATIVE OFFIC 1115 TRUXTUN AVENUE BAKERSFIELD, CALIFORNIA

HART MEMORIAL PLAY AREA

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

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> HART PARK PROP 68 IMPROVEMENTS SINGLE LINE DIAGRAM

HART PARK ADVENTURE PLAYGROUND -- FEEDER SCHEDULE **ESTIMATED** CONDUIT SIZE FEEDER SPECIFICATION CALCULATED VOLTAGE DROP CONDUCTOR LENGTH INTERRUPTING FEEDER NO. **AMPACITY** DESIGNATION CAPACITY (AIC) (SEE NOTE #1) SEE NOTES #1, 2) CALCULATED PER + # GND. SPECIFICATION E TOTAL FROM SOURCE # SPECIFICATION SPECIFICATION **FEEDER** REFER TO UTILITY HANDOUT PACKAGE METER 200A 65,000 (EST.) 3 #4AWGTHWNCU. + 1 #8AWGCUGND. 2 #4AWGTHWNCU. + 1 #8AWGCU.GND. 1 1-1/2'C 3 #1/0 AWG THWN CU. + 1 #6 AWG CU. GND. 1 2'C 3 #1/0 AWG THWN CU. + 1 #6 AWG CU. GND. 1 3/4"C 2 #8 AWG THWN CU. + 1 #8 AWG CU. GND. -3,848

CONDUCTOR LENGTH HAS BEEN PROVIDED AS THE BASIS OF DESIGN FOR BOTH VOLTAGE DROP AND AIC CALCULATION. CONDUCTOR LENGTH NOTED SHALL NOT BE USED FOR BIDDING OR PROCUREMENT PURPOSES. HOULD THE ACTUAL CONDUCTOR LENGTH DIFFER FROM WHAT HAS BEEN SPECIFIED, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR REVIEW AND RE-CALCULATION AS MAY BE NECESSARY. 2. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RATED TO WITHSTAND A MIN. OF THE CALCULATED SHORT CIRCUIT CURRENT.

									F	ANEL H	ΙP								
TYPE	PANELBOA	RD								H CIRCUITS							LOCATION: E		
BUS:	125A 277/480V 1	3-PHASE, 4W					16	FULL SIZE I	BOLLON BREAKER SPA	∆ ∩ES							NEMA: 3 MOUNTING: S		
125/		CUIT BREAKER								PMENT GRO	UND BUS						FEED FROM: U		
NOTES	CIRCUIT	DESCRIPTION	BREAKER	WIRE	LF	VD(%)	PF	TYPE		PHASE B	PHASE C	TYPE	PF	VD(%)	LF	WIRE	BREAKER	DESCRIPTION	CIRCUIT NOT
2	1	TX#LP	* /0	-	-	-	-	С	12580										2
2	3	п	*/2	-	-	-	-	С		10660									4
2	5			-	-	-	-	С											6
2	7	PUMP 1		-	-	-	-	С	9422										8
2	9	п	*/3	-	-	-	-	С		9422									10
2	11	п		-	-	-	-	С			9422								12
	13																		14
	15																		16
								TOTAL (VA			9422					•			
							C(AMPS @	ONTINUOU: 277	550		2356 43								

									PANE	EL LP									
TYPE BUS:	PANELBOAR 125A 120/240V, 1- MAIN LUGS	-PHASE, 3W					(E-1.0) 16	FULL SIZE CIRCUIT	el & Branci Bolt on Breaker spa With Equif	ACES	und bus					LOCATION: NEMA: MOUNTING: FED FROM:	SURFACE		
NOTES	CIRCUIT	DESCRIPTION	BREAKER	WIRE	LF	VD(%)	PF	TYPE	PHASE A	PHASE B	TYPE	PF	VD(%)	LF	WIRE	BREAKER	DESCRIPTION	CIRCUIT	NOTES
2	1	RR	*/2	-	-	-	-	-	7300 1920		-	-	-	1	-	*/1 GFI	SC	2	2
2	3	п	/ 2	-	-	-	-	-		7300 3360	_	-	-	-	-	*/2	LIFT STATION/PUMP	4	2
	5								3360		-	-	-	-	-	/2	п	6	2
	7																	8	
	9									-								10	
	11																	12	
	13																	14	
	15																	16	
								OTAL (VA) INTINUOUS 120		0									

PANEL SCHEDULE NOTES

PANEL SCHEDULE LOAD TYPE INDEX:
"C" = CONTINUOUS LOAD. OPERABLE FOR 3 HOURS OR MORE. LOAD CALCULATED AT 125% OF TOTAL CONNECTED LOAD.

- "K" = KITCHEN APPLIANCE LOAD. SUBJECT TO 75% DEMAND FACTOR PER NEC 220.53 IF GREATER THAN/EQUAL TO FOUR APPLIANCES. "M"= MECHANICAL LOAD. NO DEMAND FACTOR APPLIED.
- "R" = RECEPTACLE LOAD. "G"= GENERAL LOAD.

- VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED IN ACCORDANCE TO 2016 CALIFORNIA ENERGY CODE STANDARDS (TITLE 24, ELECTRICAL POWER DISTRIBUTION). CONDUCTOR LENGTH INDICATED SHALL NOT BE USED FOR BIDDING AND PROCUREMENT PURPOSES. FIELD COORDINATE CONDUCTOR LENGTH REQUIRED AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
- FOR CIRCUITS WITH MULTIPLE LOADS (I.E. RECEPTACLES, LIGHTING) THE CIRCUIT ESTIMATED LENGTH IS DETERMINED BY THE FURTHEST DEVICE LOCATION.
- WHERE BRANCH CIRCUITS HAVE NOT BEEN LOADED TO THE MAXIMUM ALLOWABLE CIRCUIT CAPACITY, VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED BASED ON CONNECTED LOAD INDICATED, UNLESS OTHERWISE

VOLTAGE DROP CALCULATION:

VOLTAGE DROP (%) = (2 x OHMS PER 1000 LF x CONDUCTOR LENGTH x AMPS) / (1000 x QTY OF WIRES PER PHASE)

SCHEDULE SPECIFIC NOTES:

- VERIFY LOAD, CIRCUIT BREAKER, AND CONDUCTOR SIZE WITH EQUIPMENT MANUFACTURER SPECIFICATIONS.
- 2. SEE SINGLE LINE DIAGRAM FOR OVERCURRENT PROTECTION DEVICE RATING AND FEEDER SCHEDULE FOR CONDUCTOR SPECIFICATION ON SHEET E-1.0.

NOTES	DESCRIPTION	PHASE A	PHA SE B	DESCRIPTION	NOTES
	PANEL 'LP''	12580			
	п		10660		
		12580	10660		
	TRANSFORM ER LO	DAD SUMMARY	23.2	KVA	
	TRANSF	ORMER RATING	25.0	KVA	
		LOADING	93	%	



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CONSULTANT STAMP



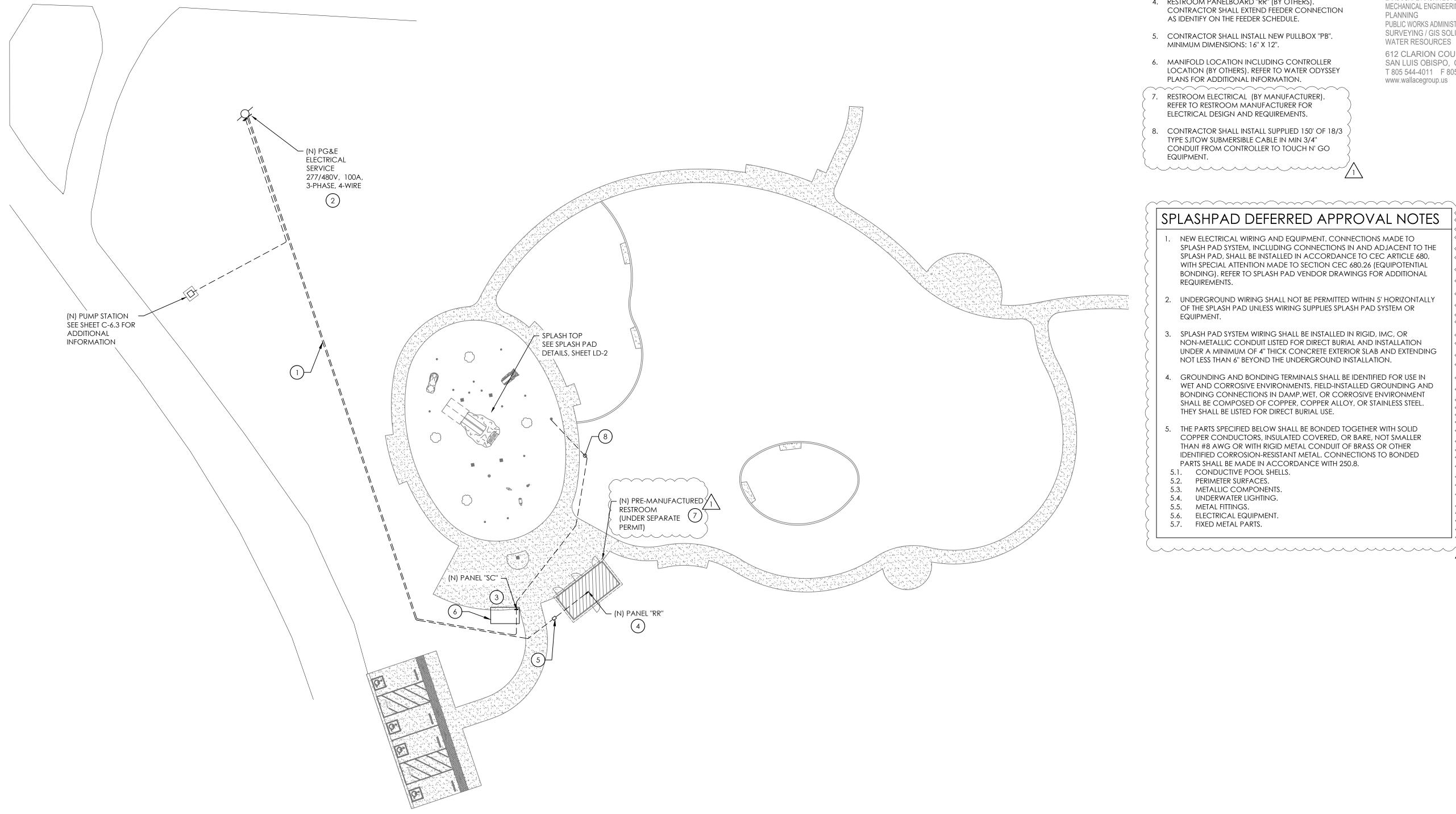
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DATE		SHFFT NO			

DATE 5/29/2024	SHEET NO.	
DESIGNED BY JC		
DRAWN BY HB		
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JOB NO. 1650.7014–21	DRAWING FILE 20MM010	
HART PARK PROF	68 IMPROVEMENTS	

ELECTRICAL SCHEDULES



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ELECTRICAL SITE PLAN

REFERENCE NOTES

- CONTRACTOR SHALL EXTEND (3) 2" C FROM (E) BACKBOARD TO NEW RESTROOM FACILITY. COORDINATE LOCATION PRIOR INSTALLATION.
- 2. CONTRACTOR SHALL PROCURE AND INSTALL NEW BACKBOARD WITH METER, PANELBOARD HP, TX-LP, AND PANEL LP.
- 3. SPLASH TOP CONTROLLER (BY OTHERS). CONTRACTOR SHALL EXTEND FEEDER CONNECTION AS IDENTIFY ON THE FEEDER SCHEDULE.
- 4. RESTROOM PANELBOARD "RR" (BY OTHERS). CONTRACTOR SHALL EXTEND FEEDER CONNECTION AS IDENTIFY ON THE FEEDER SCHEDULE.
- MINIMUM DIMENSIONS: 16" X 12". 6. MANIFOLD LOCATION INCLUDING CONTROLLER

LOCATION (BY OTHERS). REFER TO WATER ODYSSEY

- PLANS FOR ADDITIONAL INFORMATION. 7. RESTROOM ELECTRICAL (BY MANUFACTURER). REFER TO RESTROOM MANUFACTURER FOR
- ELECTRICAL DESIGN AND REQUIREMENTS. 8. CONTRACTOR SHALL INSTALL SUPPLIED 150' OF 18/3 TYPE SJTOW SUBMERSIBLE CABLE IN MIN 3/4" CONDUIT FROM CONTROLLER TO TOUCH N' GO

EQUIPMENT.



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NEW ELECTRICAL WIRING AND EQUIPMENT. CONNECTIONS MADE TO

SPLASHPAD DEFERRED APPROVAL NOTES

- SPLASH PAD SYSTEM, INCLUDING CONNECTIONS IN AND ADJACENT TO THE SPLASH PAD, SHALL BE INSTALLED IN ACCORDANCE TO CEC ARTICLE 680, WITH SPECIAL ATTENTION MADE TO SECTION CEC 680.26 (EQUIPOTENTIAL BONDING). REFER TO SPLASH PAD VENDOR DRAWINGS FOR ADDITIONAL
- 2. UNDERGROUND WIRING SHALL NOT BE PERMITTED WITHIN 5' HORIZONTALLY OF THE SPLASH PAD UNLESS WIRING SUPPLIES SPLASH PAD SYSTEM OR EQUIPMENT.
- SPLASH PAD SYSTEM WIRING SHALL BE INSTALLED IN RIGID, IMC, OR NON-METALLIC CONDUIT LISTED FOR DIRECT BURIAL AND INSTALLATION UNDER A MINIMUM OF 4" THICK CONCRETE EXTERIOR SLAB AND EXTENDING NOT LESS THAN 6" BEYOND THE UNDERGROUND INSTALLATION.
- . GROUNDING AND BONDING TERMINALS SHALL BE IDENTIFIED FOR USE IN WET AND CORROSIVE ENVIRONMENTS. FIELD-INSTALLED GROUNDING AND BONDING CONNECTIONS IN DAMP, WET, OR CORROSIVE ENVIRONMENT SHALL BE COMPOSED OF COPPER, COPPER ALLOY, OR STAINLESS STEEL. THEY SHALL BE LISTED FOR DIRECT BURIAL USE.
- THE PARTS SPECIFIED BELOW SHALL BE BONDED TOGETHER WITH SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE, NOT SMALLER THAN #8 AWG OR WITH RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL. CONNECTIONS TO BONDED PARTS SHALL BE MADE IN ACCORDANCE WITH 250.8.
- 5.1. CONDUCTIVE POOL SHELLS. 5.2. PERIMETER SURFACES.
- 5.3. METALLIC COMPONENTS.
- 5.4. UNDERWATER LIGHTING. 5.5. METAL FITTINGS.
- 5.6. ELECTRICAL EQUIPMENT.5.7. FIXED METAL PARTS.

GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP

SUITE A - P.O. BOX #368 E.INFO@GECECORP.COM SANTA MARIA, CA 93455 WWW.GECECORP.COM

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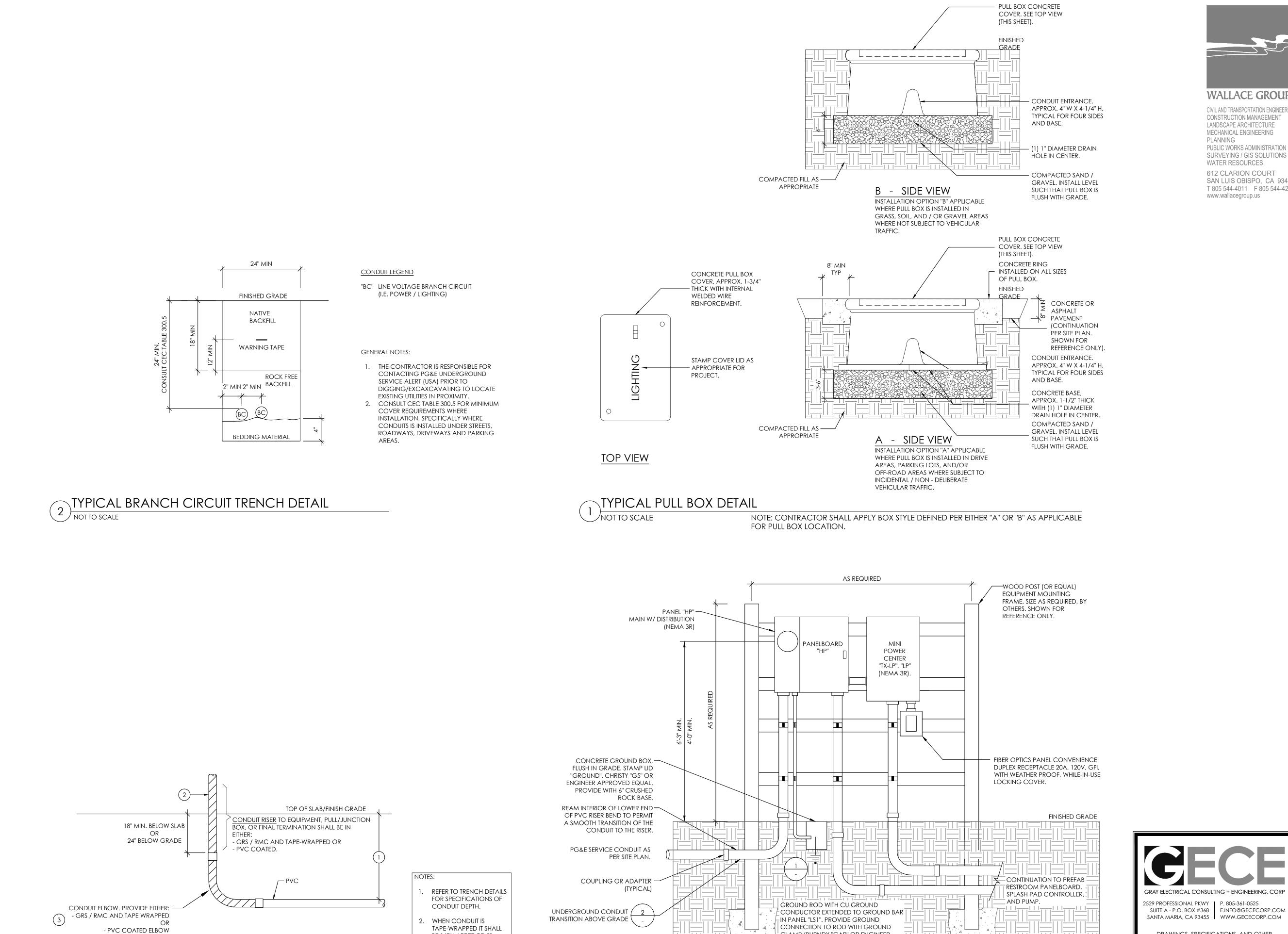
ONSULTANT STAMP



DATE	REV	DESC	RIPTION	
05/02/24	1	PERMIT S	SET	
DATE 5/2	29/2024		SHEET NO.	

ELECTRICAL SITE PLAN

DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + DRAWN BY ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF CHECKED BY SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. RAWING FILE 1650.7014-21 20MM010 HART PARK PROP 68 IMPROVEMENTS



BE 1/2" LAPPED TO 3"

OR TOP OF SLAB.

APPLICABLE FOR

ABOVE FINISHED GRADE

CONDUIT EXTENSION OF

150 FEET AND GREATER AS

INDICATED PER DIVISION

26 SPECIFICATIONS.

TYPICAL UNDERGROUND CONDUIT TRANSITION

TO ABOVE GRADE OR ABOVE SLAB



WALLACE GROUP®

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COUNTY OF KERN GENERAL SERVICES DIVISION

BAKERSFIELD, CALIFORNIA

OF THE COUNTY ADMINISTRATIVE OFFICE 1115 TRUXTUN AVENUE

LEVEE & LAKE ROAD BAKERSFIELD, CA 93308

APPROVED BY COUNTY BOARD OF SUPERVISORS

CHAIRMAN BOARD OF SUPERVISORS

RECOMMENDED FOR APPROVAL DEPARTMENT

RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION

CHIEF GENERAL SERVICES OFFICER

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ONSULTANT STAMP



SHEET NO. 5/29/2024 DRAWN BY ____

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> HART PARK PROP 68 IMPROVEMENTS ELECTRICAL DETAILS

SERVICE EQUIPMENT PANEL MOUNTING

EXPOSED CONDUIT SHALL BE

(GRS) WHERE SUBJECT TO

PHYSICAL DAMAGE.

METAL (EMT) OR GALVANIZED

CLAMP (BURNDY "GAR" OR ENGINEER

APPROVED EQUAL). GROUND ROD SHALL

BE 3/4" DIAM X 10' LONG COPPERWELD).