

# TERRA LINDA HIGH SCHOOL STUDENT COMMONS

## INCREMENT 1 BID PACKAGE

LEGEND		DESCRIPTION
EXISTING	PROPOSED	
---	---	BOUNDARY
---	---	PROPERTY LINE
---	---	RETAINING WALL
---	---	LANDSCAPE RETAINING WALL
---	---	SUBDRAIN LINE
---	---	TIGHTLINE
SD	SD	STORM DRAIN LINE
SS	SS	SANITARY SEWER LINE
W	W	WATER LINE
G	G	GAS LINE
P	P	PRESSURE LINE
JT	JT	JOINT TRENCH
---	---	SET BACK LINE
---	---	CONCRETE VALLEY GUTTER
---	---	SWALE FLOW DIRECTION
CB	CB	CATCH BASIN
JB	JB	JUNCTION BOX
AD	AD	AREA DRAIN
AD	AD	SQUARE AREA DRAIN
---	---	CURB INLET
SDMH	SDMH	STORM DRAIN MANHOLE
SSMH	SSMH	FIRE HYDRANT
SSMH	SSMH	SANITARY SEWER MANHOLE
222.57 INV	222.57 INV	STREET SIGN
200	200	SPOT ELEVATION
---	---	FLOW DIRECTION
---	---	DEMOLISH/REMOVE
---	---	BENCHMARK
---	---	CONTOURS
---	---	TREE TO BE REMOVED



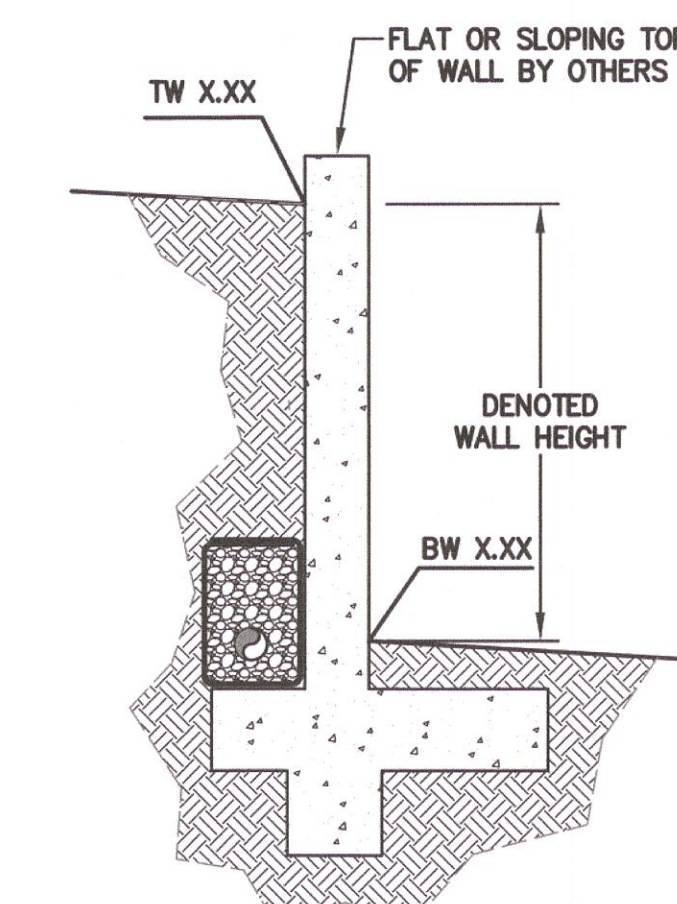
KEY MAP  
1" = 100'

### ABBREVIATIONS

AB	AGGREGATE BASE	LF	LINEAL FEET
AC	ASPHALT CONCRETE	MAX	MAXIMUM
ACC	ACCESSIBLE	MH	MANHOLE
AD	AREA DRAIN	MIN	MINIMUM
BC	BEGINNING OF CURVE	MON.	MONUMENT
B & D	BEARING & DISTANCE	(N)	NEW
BM	BENCHMARK	NO.	NUMBER
BW/FG	BOTTOM OF WALL/FINISH GRADE	NTS	NOT TO SCALE
CB	CATCH BASIN	O.C.	ON CENTER
C & G	CURB AND GUTTER	O/	OVER
C	CENTER LINE	OMC	OPTIMUM MOISTURE CONTENT
CPP	CORRUGATED PLASTIC PIPE	(PA)	PLANTING AREA
CO	CLEANOUT	PED	PEDESTRIAN
CONC	CONCRETE	PV	POST INDICATOR VALVE
CONST	CONSTRUCT or -TION	PSS	PUBLIC SERVICES EASEMENT
CONC COR	CONCRETE CORNER	R	PROPERTY LINE
CY	CUBIC YARD	PP	POWER POLE
D	DIAMETER	PUC	PUBLIC UTILITY EASEMENT
DI	DROP INLET	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	R	RADIUS
EA	EACH	RCP	REINFORCED CONCRETE PIPE
EC	END OF CURVE	RIM	RIM ELEVATION
EG	EXISTING GRADE	RW	RAINWATER
EL	ELEVATIONS	R/W	RIGHT OF WAY
EP	EDGE OF PAVEMENT	S	SLOPE
EQ	EQUIPMENT	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EW	EACH WAY	SAN	SANITARY
(E)	EXISTING	SD	STORM DRAIN
FC	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
FF	FINISHED FLOOR	SHT	SHEET
FG	FINISHED GRADE	S.L.D.	SEE LANDSCAPE DRAWINGS
FH	FIRE HYDRANT	SPEC	SPECIFICATION
FL	FLOW LINE	SS	SANITARY SEWER
FS	FINISHED SURFACE	SSMH	SANITARY SEWER MANHOLE
G	GAS	ST	STREET
GA	GAGE OR GAUGE	STA	STATION
GB	GRADE BREAK	STD	STANDARD
HDPE	HIGH DENSITY CORRUGATED	STRUCT	STRUCTURAL
HORIZ	HORIZONTAL	T	TELEPHONE
HI PT	HIGH POINT	TC	TOP OF CURB
H&T	HUB & TACK	TEMP	TEMPORARY
ID	INSIDE DIAMETER	TP	TOP OF PAVEMENT
INV	INVERT ELEVATION	TW/FG	TOP OF WALL/FINISH GRADE
JB	JUNCTION BOX	TYP	TYPICAL
JT	JOINT TRENCH	VC	VERTICAL CURVE
JL	JOINT UTILITY POLE	VCP	VITRIFIED CLAY PIPE
L	LENGTH	VERT	VERTICAL
LNDG	LANDING	W	WITH
		WL	WATER LINE
		WM	WATER METER
		WWF	WELDED WIRE FABRIC

### RETAINING WALL NOTES

- TW/FG REPRESENTS FINISHED EARTHEN GRADE OR PAVEMENT ELEVATION AT TOP OF WALL. NOT ACTUAL TOP OF WALL MATERIAL. BW/FG REPRESENTS FINISH EARTHEN GRADE OR PAVEMENT ELEVATION AT BOTTOM OF WALL NOT INCLUDING FILL FOUNDATION. GRADES INDICATED ON THESE PLANS REFER TO THE FINISHED GRADES ADJACENT TO THE RETAINING WALL, NOT INCLUDING FOOTING, FREEBOARD, ETC.
- GRADES SHOWN ON PLAN AS TW X.XX & BW X.XX REPRESENT DENOTED WALL HEIGHT ONLY. THE ACTUAL WALL HEIGHT AND DEPTH MAY DIFFER DUE TO CONSTRUCTION REQUIREMENTS.
- REFER TO SPECIFIC WALL CONSTRUCTION DETAIL FOR STRUCTURAL ELEMENTS, FREEBOARD, AND EMBEDMENT.
- REFER TO ARCHITECTURAL, LANDSCAPE ARCHITECTURE, AND/OR STRUCTURAL PLANS FOR DETAILS, WALL ELEVATIONS, SUB-DRAINAGE, WATERPROOFING, FINISHES, COLORS, STEEL REINFORCING, MATERIALS, ETC. PROVIDE CLIPS OR OTHER MEANS OF SECURING FINISH MATERIALS AS NECESSARY (WET SET INTO THE WALL).
- ALL RETAINING WALLS SHOULD HAVE A BACK-OF-WALL SUB-SURFACE DRAINAGE SYSTEM INCLUDING MIRADRAIN PANELS TERMINATING INTO A GRAVEL DRAIN AT THE BASE OF THE WALL (BELOW FINISHED FLOOR LEVEL) CONSISTING OF PERFORATED PIPE ENCAPSULATED IN 3/4 INCH CRUSHED ROCK WITH THE ROCK WRAPPED IN MIRAF 140N OR APPROVED EQUAL FABRIC TO PREVENT HYDROSTATIC PRESSURE. THE SUBDRAIN PIPE SHALL BE CONNECTED TO A SUITABLE DISCHARGE POINT AS SHOWN ON THE PLANS.
- PROVIDE GUARDRAIL (WHERE APPLICABLE AND DESIGNED BY OTHERS) AS REQUIRED FOR GRADE SEPARATION OF 30 INCHES OR MORE MEASURED 5' HORIZONTALLY FROM FACE OF WALL, PER CBC.



GRAPHIC ILLUSTRATION OF RETAINING WALL NOTE.  
THIS IS NOT A DETAIL.  
PROFESSIONAL DISCIPLINE RESPONSIBLE FOR RETAINING WALL DESIGN VARIES PER PROJECT. SEE ARCHITECTURAL TITLE SHEET INDEX FOR REFERENCE TO RETAINING WALL DESIGN.



### SHEET INDEX

C0.01	TITLE SHEET
C0.02	GRADING SPECIFICATIONS
C1.01	DEMO PLAN
C2.01	GRADING & DRAINAGE PLAN AREA OF DETAIL
C2.02	GRADING & DRAINAGE PLAN AREA OF DETAIL
C2.03	GRADING & DRAINAGE PLAN AREA OF DETAIL
C3.01	DETAILS
C4.01	EROSION & SEDIMENTATION CONTROL PLAN
C4.02	EROSION & SEDIMENTATION CONTROL DETAILS
C4.03	CONSTRUCTION BEST MANAGEMENT PRACTICES (SWPPP)

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Student Commons

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Date: 9-26-18 DSA Submittal

### NOTES:

- ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY. TYPICALLY THROUGHOUT IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.
- THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF WILLIAM CLARK, P.E. INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT, THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED. PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.
- ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.
- IF THE CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE CONTRACTOR TO THE ARCHITECT AND/OR ENGINEER.
- THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL IMPORT AND EXPORT QUANTITIES AND/OR DISPOSAL/IMPORT COSTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AND MAKE PROVISIONS FOR WITHIN THEIR BID FOR A PROFESSIONAL LAND SURVEYOR TO PROVIDE CONSTRUCTION STAKING FOR THE PROJECT.

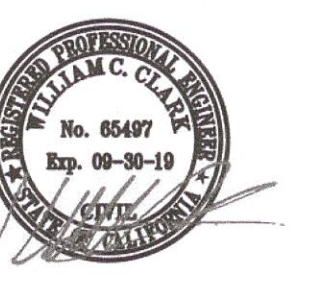
DSA STAMP

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WWW.HED.DESIGN



2017-02606-000

TITLE SHEET

C0.01



# INCREMENT 1 BID PACKAGE

## GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
6. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
7. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE CONSULTING ENGINEER.
8. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
9. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLANS NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY BAGG ENGINEERS, PROJECT NO. FURSD-09048, DATED JANUARY 23, 2012.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS AND COSTS ASSOCIATED WITH SAID PERMITS

## TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM. AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OR TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN, CONSULT WITH THE OWNER'S PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE ARCHITECT / CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM PADDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATE TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES AND PLANTS DESIGNED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES OR PLANTS THAT DIE DUE TO LACK OF MAINTENANCE.
9. TREE PROTECTION ZONES NEED TO BE SET UP WITH FENCING AROUND TREES TO A MINIMUM DISTANCE OF 10 FEET FROM THE BUTTRESS FLAIR. NO EQUIPMENT, MATERIALS STORAGE, OR DIGGING IS ALLOWED WITHIN THE TREE PROTECTION ZONE WITHOUT WRITTEN AUTHORIZATION FROM THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE. ANY AUTHORIZED DIGGING WITHIN THE TREE PROTECTION ZONE MUST BE DONE BY HAND; I.E. PICK AND SHOVEL. CARE MUST BE TAKEN TO AVOID SEVERING ANY STRUCTURAL ROOTS. ANY ROOTS GREATER THAN 2" IN DIAMETER INCIDENTALLY SEVERED, WHETHER INSIDE OR OUTSIDE OF THE TREE PROTECTION ZONE, WILL NEED TO BE BROUGHT TO THE ATTENTION OF AND INSPECTED BY THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE, WHO WILL EVALUATE THE TREE IN QUESTION FOR IMPACTS TO BOTH LONG TERM HEALTH AND STABILITY. ANY ROOT SEVERANCE CONCLUDED TO COMPROMISE TREE STABILITY/SAFETY MAY RESULT IN TREE REMOVAL. ANY COSTS RESULTING FROM TREE REMOVALS WILL BE CHARGED TO THE PROJECT IN QUESTION. ANY COSTS FROM TREE REMOVALS RESULTING FROM VIOLATIONS OF THE COUNTY CODES WILL BE ABSORBED BY THE CONTRACTOR UP TO AND INCLUDING ANY FINES LEVIED BY THE COUNTY.

## SITE MAINTENANCE:

1. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEEP MANUALLY.
3. CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
4. IF THE STREET, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASHED WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIAL USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. THE ON-SITE STORM DRAIN FACILITIES SHALL BE CLEANED A MINIMUM OF TWICE A YEAR AS FOLLOWS: IMMEDIATELY PRIOR TO OCTOBER 15TH AND ONCE IN JANUARY. ADDITIONLY, CLEANING MAY BE REQUIRED IF FOUND NECESSARY BY THE INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH CLEANING.
9. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
10. PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
11. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THE SHEET.

## STORM DRAIN NOTES:

1. ALL STORM DRAIN PIPE SHALL BE PVC PER SECTION 02720, SLOPED AT 2% UNLESS OTHERWISE SPECIFIED ON THE PLANS. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A Y CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
2. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATE 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION- STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
3. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND. A " NO DUMPING"
4. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS AND HAVE BOLT DOWN GRATES.
5. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TEST BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
6. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO TRENCH OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
7. COMPLETE SYSTEMS; ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.

## DEMOLITION NOTES:

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED CONTRACTOR SHALL PAY DISPOSAL FEES.
6. CONTRACTOR SHALL PAY DISPOSAL FEES.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECS.
9. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION PLAN & DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
13. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
14. COORDINATE WITH ELECTRICAL, MECHANICAL, FIRE PROTECTION AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
15. DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITIES AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
16. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
17. THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY. FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

## WATER SYSTEM NOTES:

1. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
2. WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/ OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
3. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
4. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/TOWN OR APPLICABLE WATER DISTRICT STANDARDS.
5. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL FACTORY MANUFACTURED WITH BELL AND SPIGOT ENDS AND RUBBER GASKETS. NONMETALLIC WATER LINES HAVE TRACER WIRE INSTALLED.
6. CONNECTION TO THE EXISTING WATER MAIN SHALL BE APPROVED BY WATER COMPANY. THE DISTRICT SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE VALVE AND ALL THRUST BLOCKS. BACKFILL, RESTORE THE SURFACE, AND CLEANUP. ALL WET TAPS SHALL BE APPROVED BY CALIFORNIA WATER COMPANY (CALWATER). NONMETALLIC WATER LINES SHALL HAVE TRACER WIRES INSTALLED.
7. ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.
8. ALL WATER LINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.
9. ALL WATER VALVES SHALL BE PER CITY STANDARD.
10. ALL TEMPORARY AND/OR PERMANENT AIR-RELEASE AND BLOW-OFF VALVES SHALL BE PER CITY STANDARD AND AS DIRECTED BY THE CITY ENGINEER.
11. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSINGS, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD. AWWA C600, SECTION 3.8 UNLESS NOTED OTHERWISE.
12. MECHANICALLY RESTRAINED JOINTS SHALL BE INSTALLED AT VERTICAL BENDS IN ACCORDANCE WITH CITY STANDARDS AND AS APPROVED BY THE CITY ENGINEER.
13. ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

## SANITARY SEWER NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SERVICE IN NON-PAVED AREAS, AND AT THE BOTTOM OF BASECOURSE FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION- SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY/TOWN OR APPROPRIATE SANITARY SEWER DISTRICT.
3. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH GLUED JOINTS.

## SITE FENCING NOTES:

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO EXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING DONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF.
3. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK FENCE WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
4. CONTRACTOR SHALL REPLACE THE GREEN FABRIC AT LEAST ONCE A YEAR OR AT SUCH A TIME AS IT BECOMES TATTERED AND UNSIGHTLY DUE TO WIND OR CONSTRUCTION ACTIVITIES.

Terra Linda  
High School  
Student Commons

320 Nova Albion Way  
San Rafael, CA 94903 (415) 492-3100

Date: 9-26-18 DSA Submittal

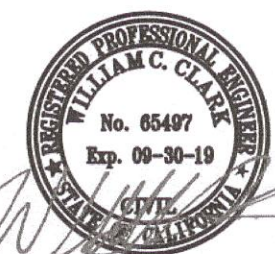
CIVIL ENGINEER  
CLARK CIVIL ENGINEERING  
12700 HIGHWAY ONE  
POINT REYES STATION, CA 94956  
TEL (415) 295-4450  
FAX (510) 372-0259  
CCE PROJECT NO. 217006

**HED**

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Suite 400  
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94104 USA

(415) 981-2345

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GRADING SPECIFICATIONS

C0.02



GRADING NOTES:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES. UNDERGROUND FACILITIES DAMAGED DURING GRADING SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO CONTRACT. REFER TO TOPOGRAPHIC SURVEY AND UTILITY SURVEY FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.

IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5007.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE CORONER IMMEDIATELY.

CONTRACTOR VERIFY EXISTING UTILITY STUB LOCATIONS AND DEPTHS PRIOR TO COMMENCING CONSTRUCTION.

FINISHED GRADES SHALL BE SLOPED TOWARD INLETS OR POSITIVE RELEASE AT 0.5% MIN. FOR CONCRETE AND 1% MIN FOR ASPHALT AREAS.

REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION ON FLAT WORK, PAVING TYPE AND SCORING.

REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE PATH OF TRAVEL. GRADES SHALL BE DONE PER FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS. IF CONTRACTOR BECOMES AWARE OF GRADES THAT ARE NOT CONFORMING TO ACCESSIBILITY REQUIREMENTS, HE SHALL BRING THIS TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER.

CUT AND FILL SLOPES AND GRADING TRANSITIONS AT THE OUTER EDGES OF THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED AT THREE HORIZONTAL TO ONE VERTICAL (3:1) UNLESS OTHERWISE NOTED.

INCREMENT 1 BID PACKAGE

NOTE:  
ANY IRRIGATION LINE TO BE CAPPED SHALL BE REVIEWED WITH DISTRICT PERSONNEL TO ENSURE THAT NO AREAS NEEDING IRRIGATION ARE CUT OFF.

0 10 20 40  
SCALE: 1" = 20'  
STATED SCALE MAY NOT APPLY WHEN DRAWING HAS BEEN REDUCED.

KEY NOTES

- (E) LANDSCAPING TO BE REMOVED, S.A.D. FOR EXTENT. DOES NOT INCLUDE TREES. REMOVE AND CAP ALL UTILITY RELATED ITEMS SHOWN IN THIS AREA. S.P.D. AND S.C.D. FOR EXCEPTIONS TO REMAIN.
- (E) PAVING (AC OR CONC) TO BE REMOVED. REMOVE AND CAP ALL UTILITY RELATED ITEMS SHOWN IN THIS AREA. S.P.D. AND S.C.D. FOR EXCEPTIONS TO REMAIN.
- (E) PAVING TO REMAIN.
- (E) TREE TO BE REMOVED.
- (E) TREES TO REMAIN, PROVIDE FENCE-TYPE TREE PROTECTION WHERE SHOWN. DO NOT DISTURB OR MOVE/OPERATE MACHINERY WITHIN DRIPLINE OF TREES LOCATED ADJACENT TO CONSTRUCTION ZONE. SEE TREE PROTECTION SPEC FOR FULL LIST OF REQUIREMENTS.
- EXISTING UTILITY RELATED ITEM TO BE ADJUSTED TO ALIGN W/(N) GRADE ELEVATIONS.
- (E) PLANTER TO BE REMOVED
- (E) TRASH COMPACTOR TO BE RELOCATED, SEE SHEET C2.02

NOTE:  
PRIOR TO BEGINNING WORK AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES TO THE CIVIL ENGINEER AND ARCHITECT.

INCREMENT 1  
SCOPE OF WORK



SAN RAFAEL  
CITY SCHOOLS

Terra Linda  
High School  
Student Commons

320 Nova Albion Way  
San Rafael, CA 94903 (415) 492-3100

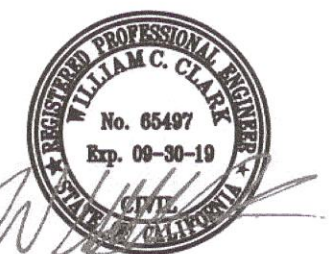
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TEL (415) 295-4450  
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OCE PROJECT NO. 217006

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94104 USA

(415) 981-2345  
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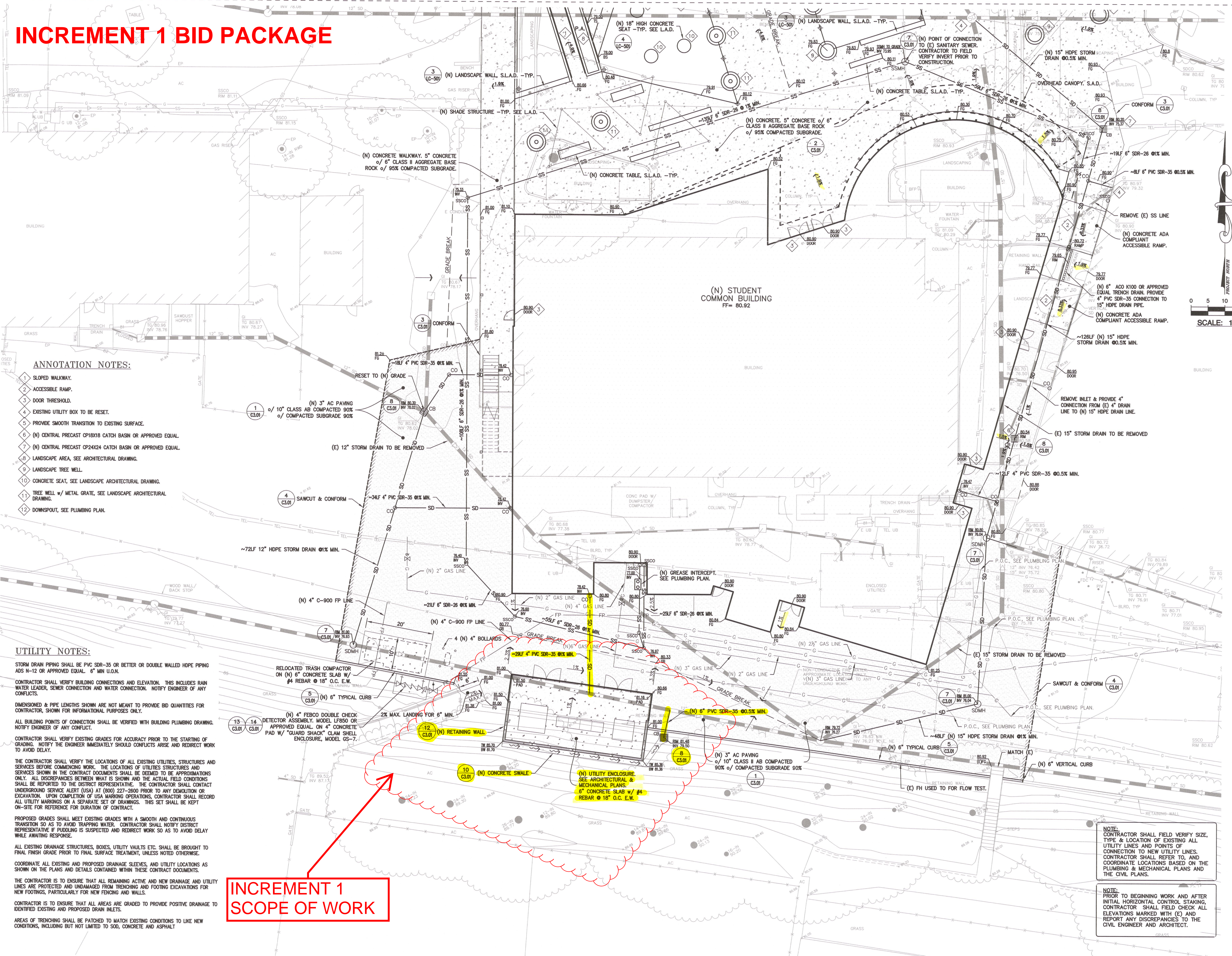
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DEMOLITION PLAN

C1.01



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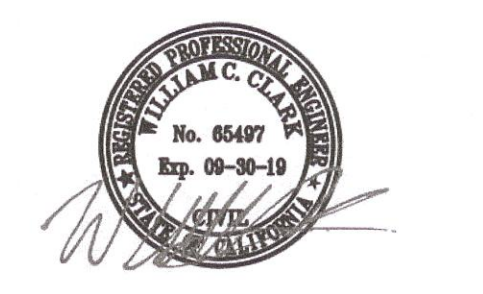


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2017-02608-000  
GRADING AND DRAINAGE  
PLAN-AREA OF DETAIL

C2.02







INCREMENT 1 BID PACKAGE



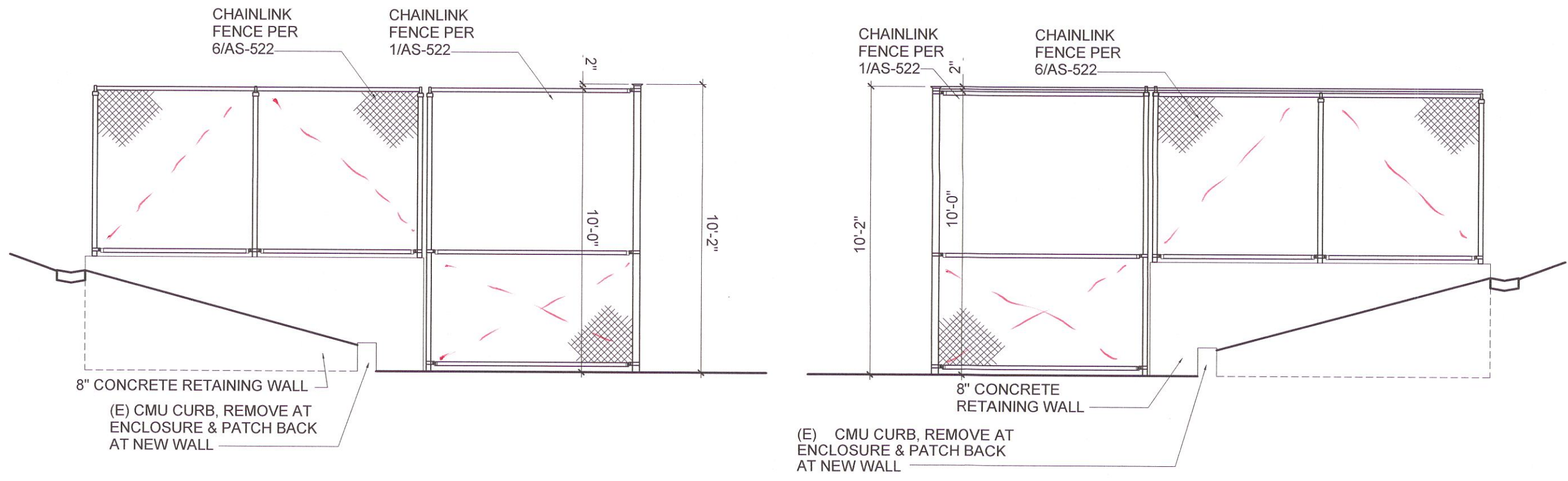
San Rafael City Schools

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San Rafael, CA 94903 415.492.3100

Terra Linda High School Student Commons

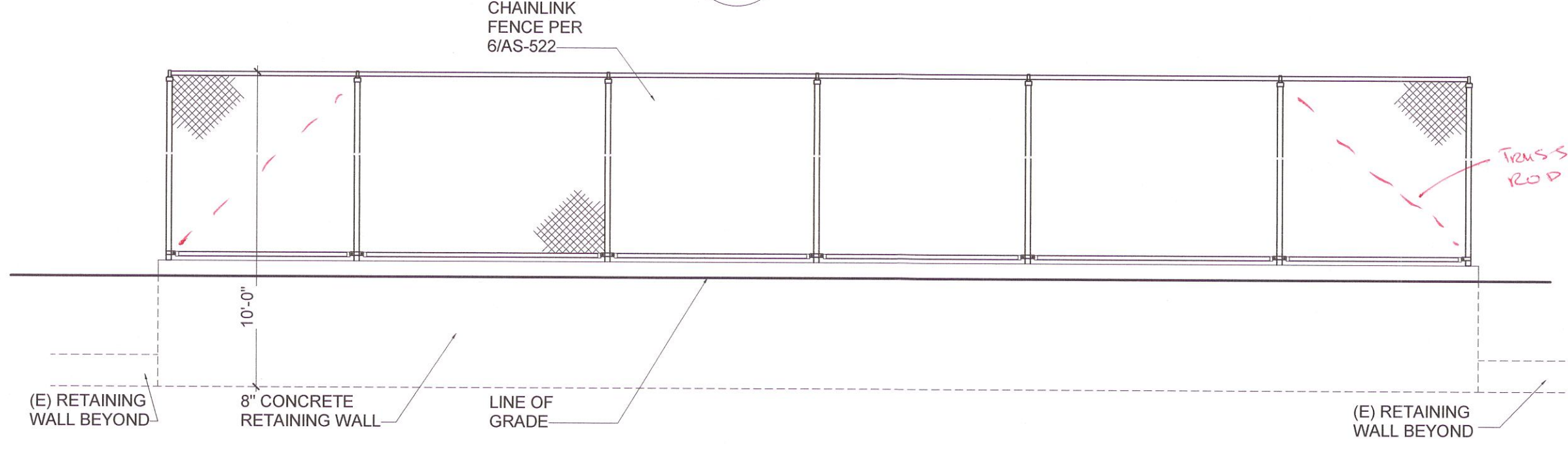
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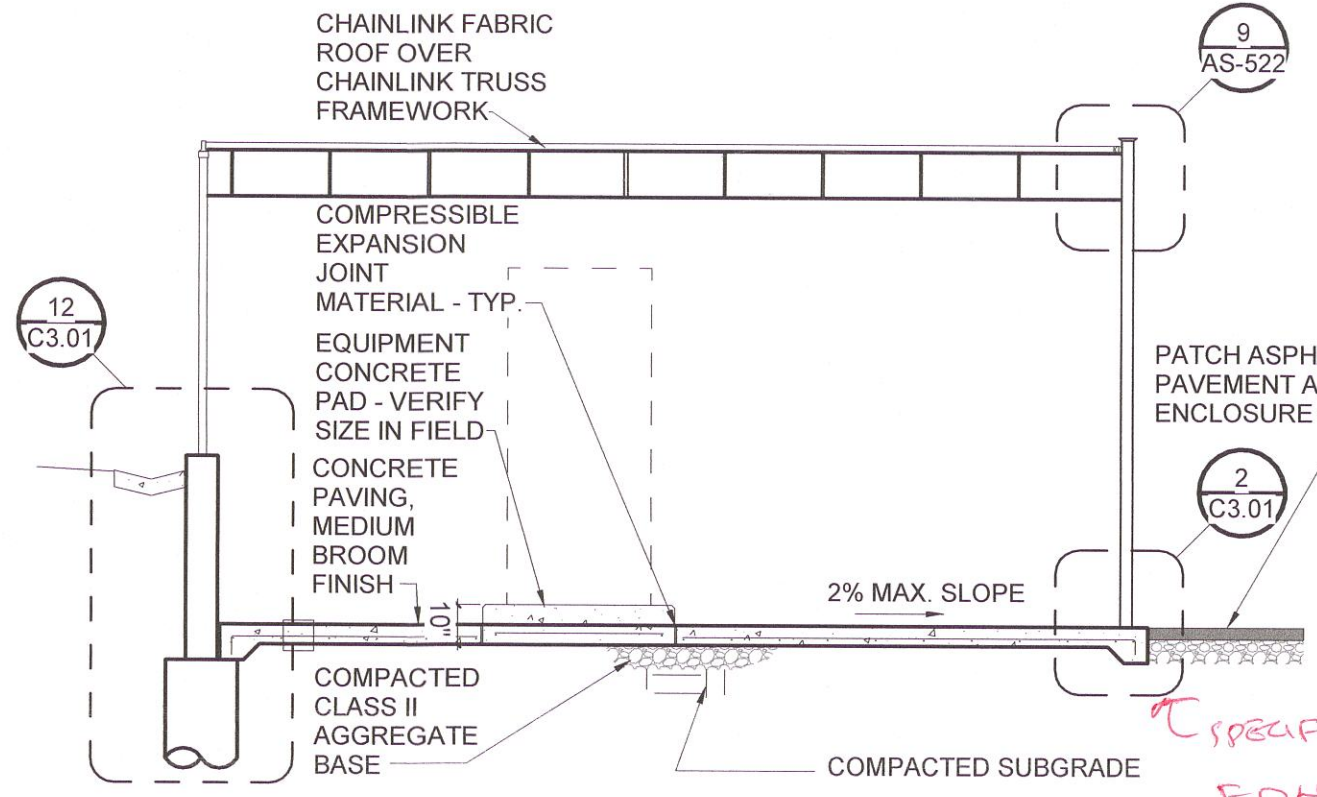


6 UTILITY ENCLOSURE EAST ELEVATION  
1/4" = 1'-0"

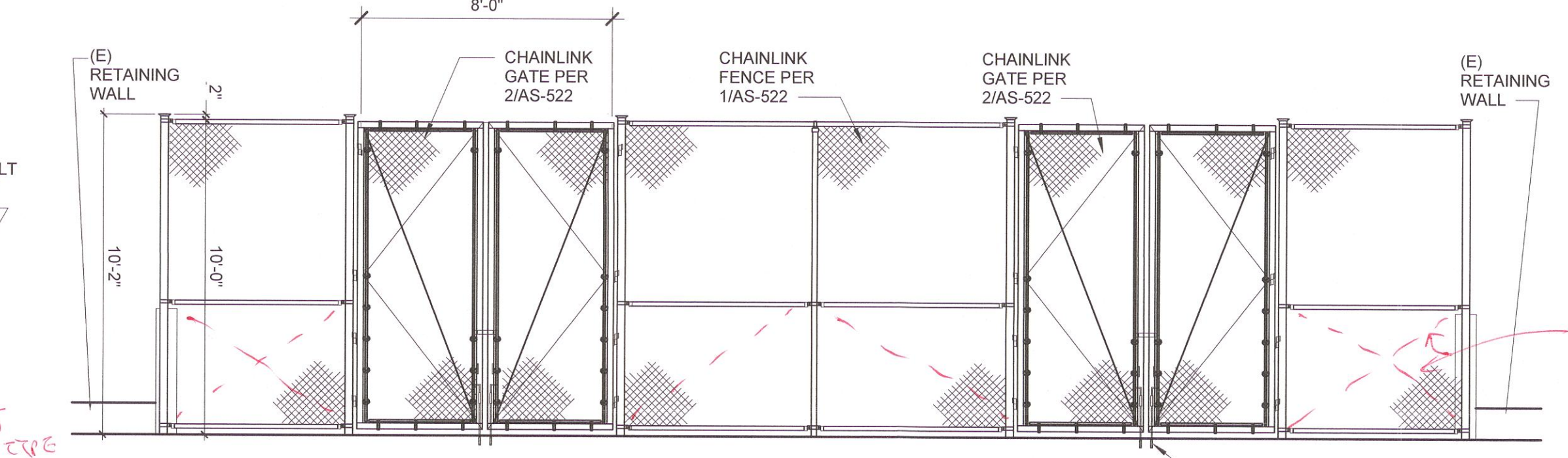
5 UTILITY ENCLOSURE WEST ELEVATION  
1/4" = 1'-0"



3 UTILITY ENCLOSURE SOUTH ELEVATION  
1/4" = 1'-0"



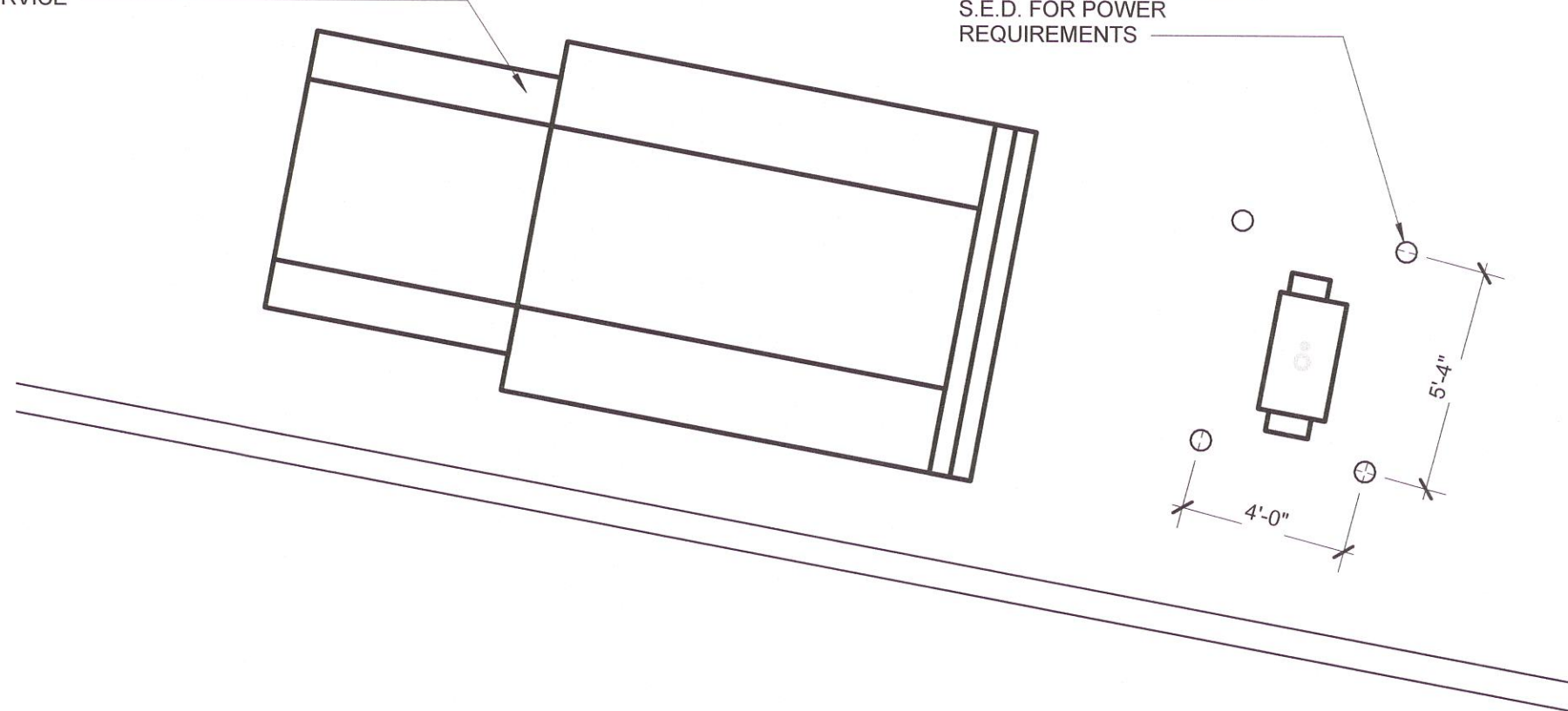
7 UTILITY ENCLOSURE SECTION  
1/4" = 1'-0"



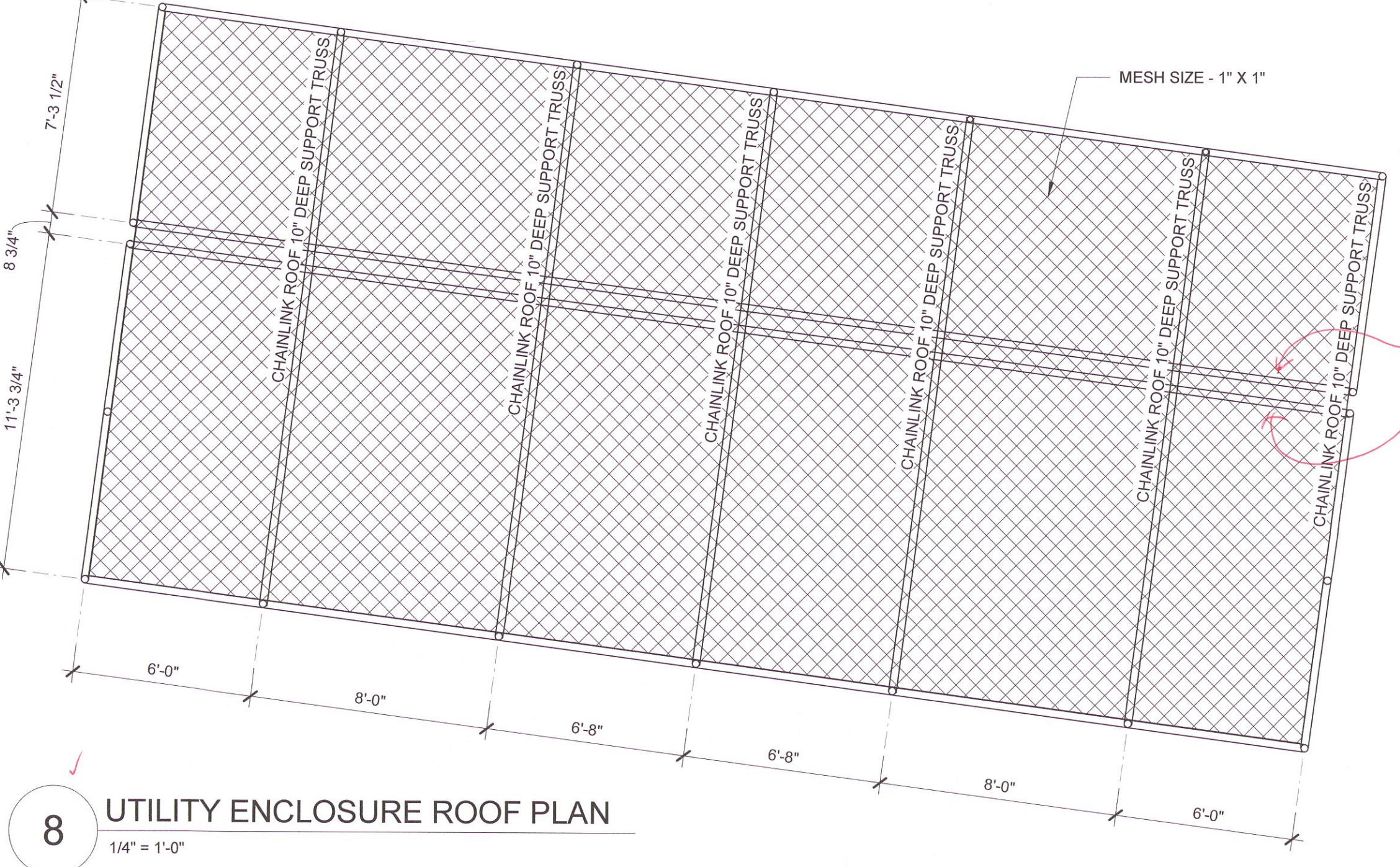
2 UTILITY ENCLOSURE NORTH ELEVATION  
1/4" = 1'-0"

RELOCATE (E) TRASH COMPACTOR & REINSTALL GUIDE RAILS (SET IN CONCRETE AS REQUIRED PER MANUFACTURER). COORDINATE PLACEMENT WITH MARIN SANITARY SERVICE

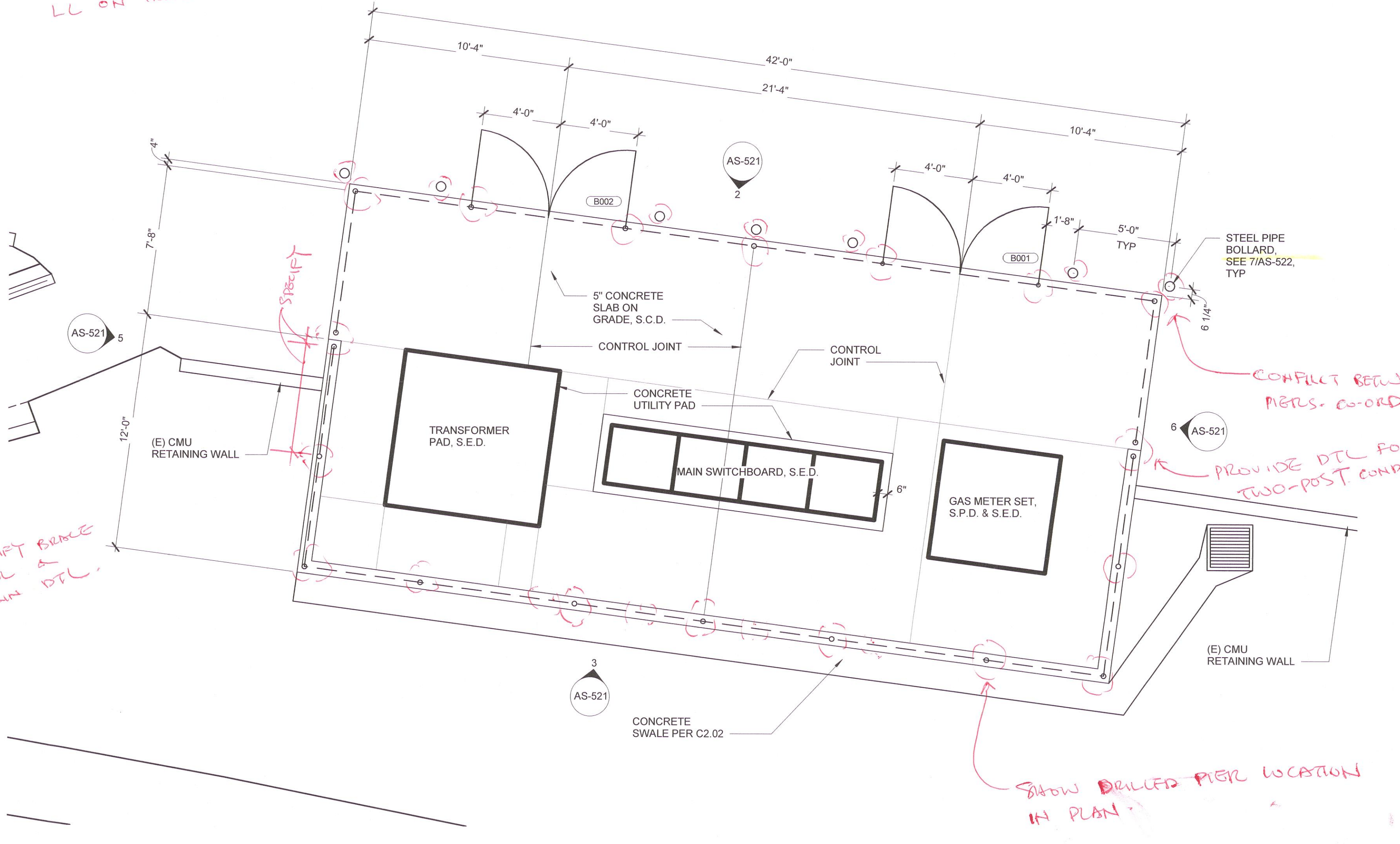
(4) BOLLARDS PER 7/A-522 & RELOCATED (E) TRASH COMPACTOR CONTROLLER, S.E.D. FOR POWER REQUIREMENTS



9 ENLARGED TRASH COMPACTOR PLAN  
1/4" = 1'-0"



8 UTILITY ENCLOSURE ROOF PLAN  
1/4" = 1'-0"



1 ENLARGED UTILITY ENCLOSURE  
1/4" = 1'-0"

FILE# 21-H1 PTM# 05466-27  
IDENTIFICATION STAMP  
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San Francisco, California  
94108 USA  
(415) 981-2345  
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LICENSED ARCHITECT  
michael j. myers  
STATE OF CALIFORNIA  
23095  
00000000

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Utility Enclosure Details

AS-521



INCREMENT 1 BID PACKAGE



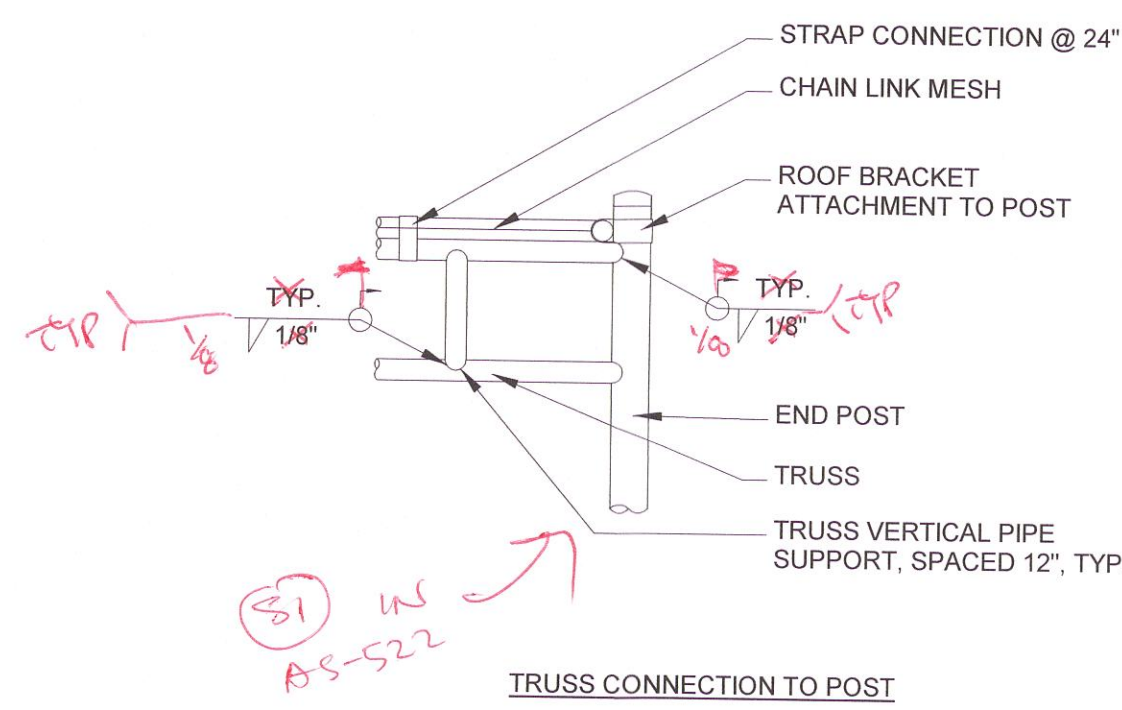
San Rafael City  
Schools

310 Nova Albion Way  
San Rafael, CA 94903 415.492.3200

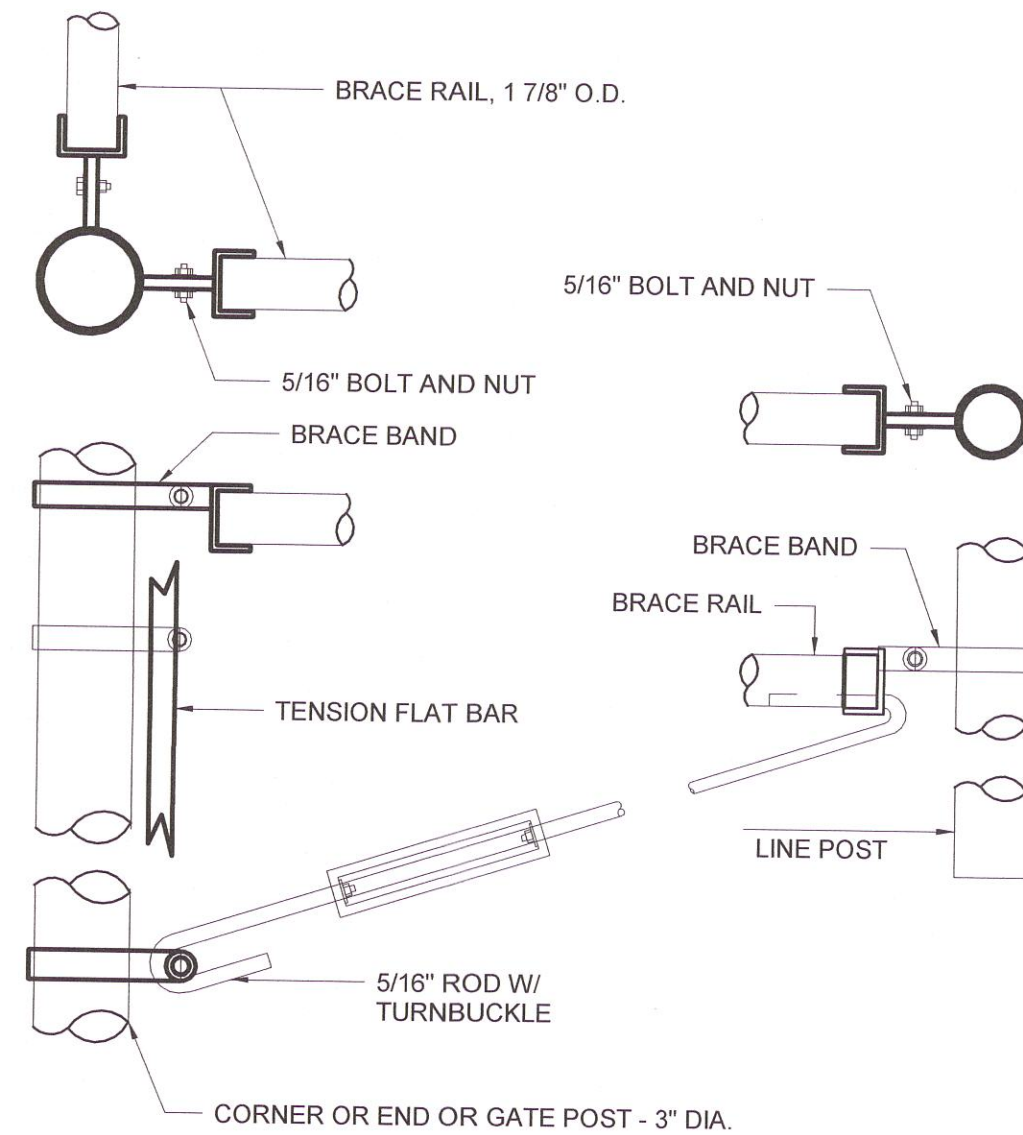
Terra Linda High  
School Student  
Commons

320 Nova Albion Way  
San Rafael, CA 94903 415.492.3100

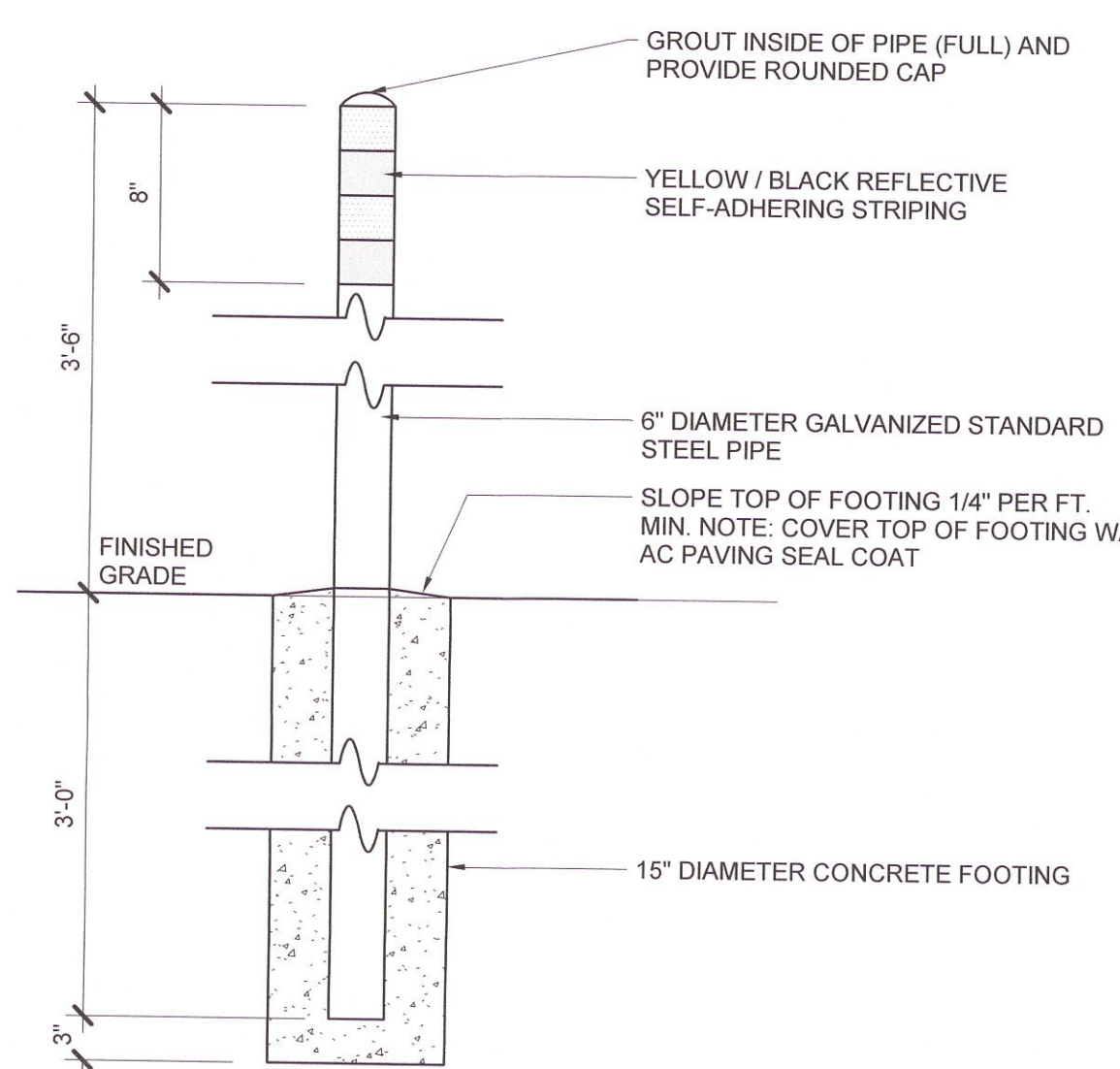
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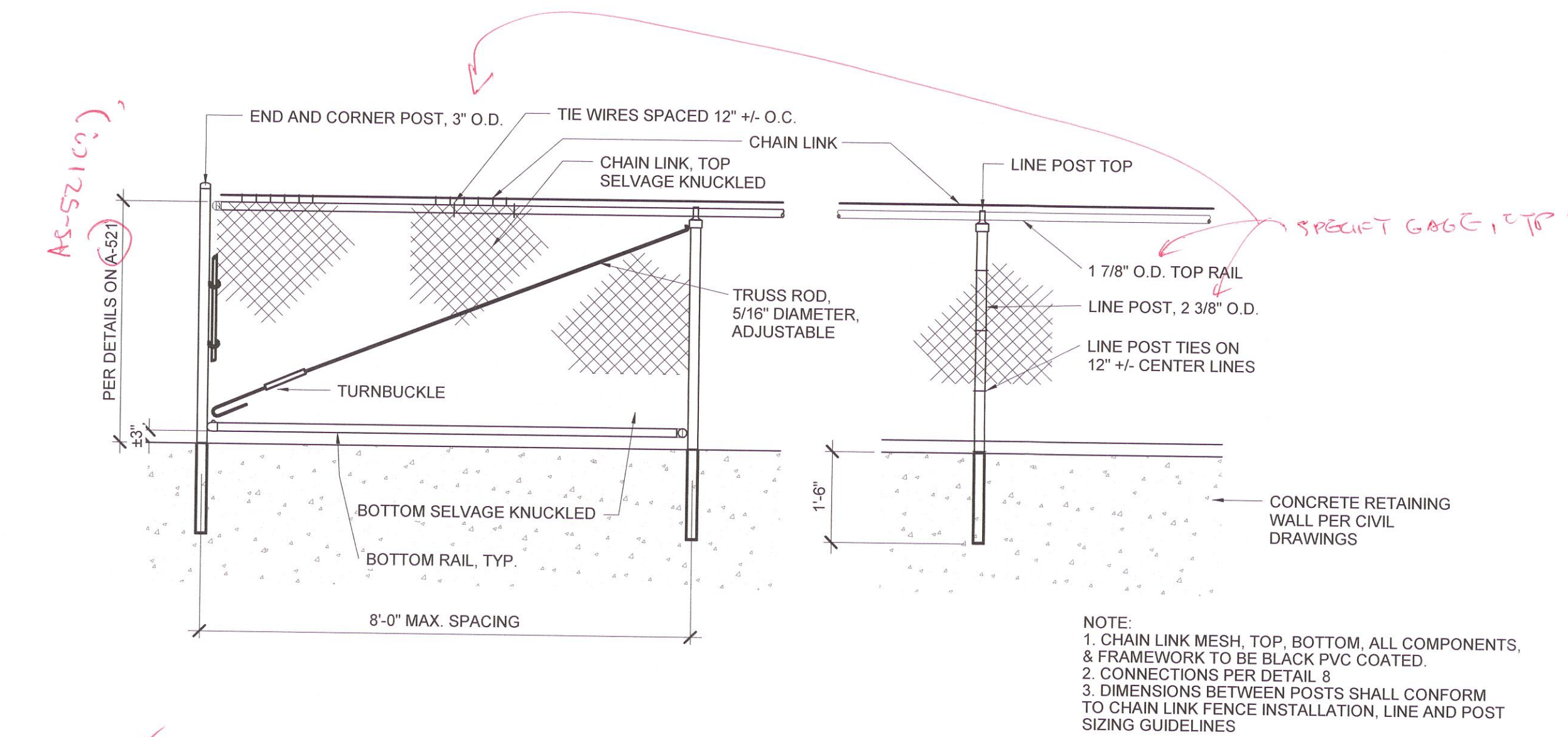
9 CHAINLINK TRUSS  
3/4" = 1'-0"



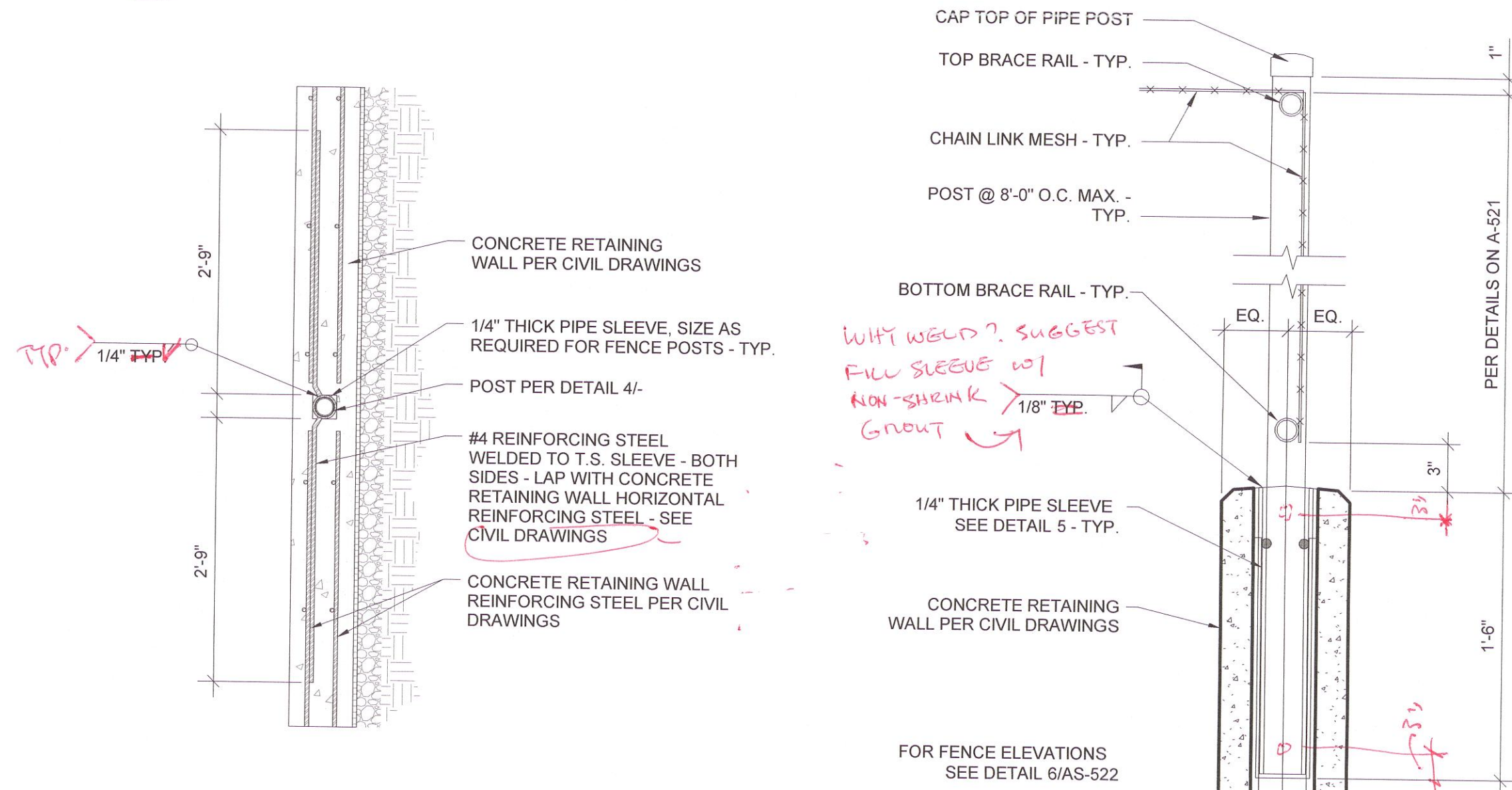
8 CHAIN LINK FENCE CONNECTIONS  
3" = 1'-0"



7 BOLLARD  
3/4" = 1'-0"

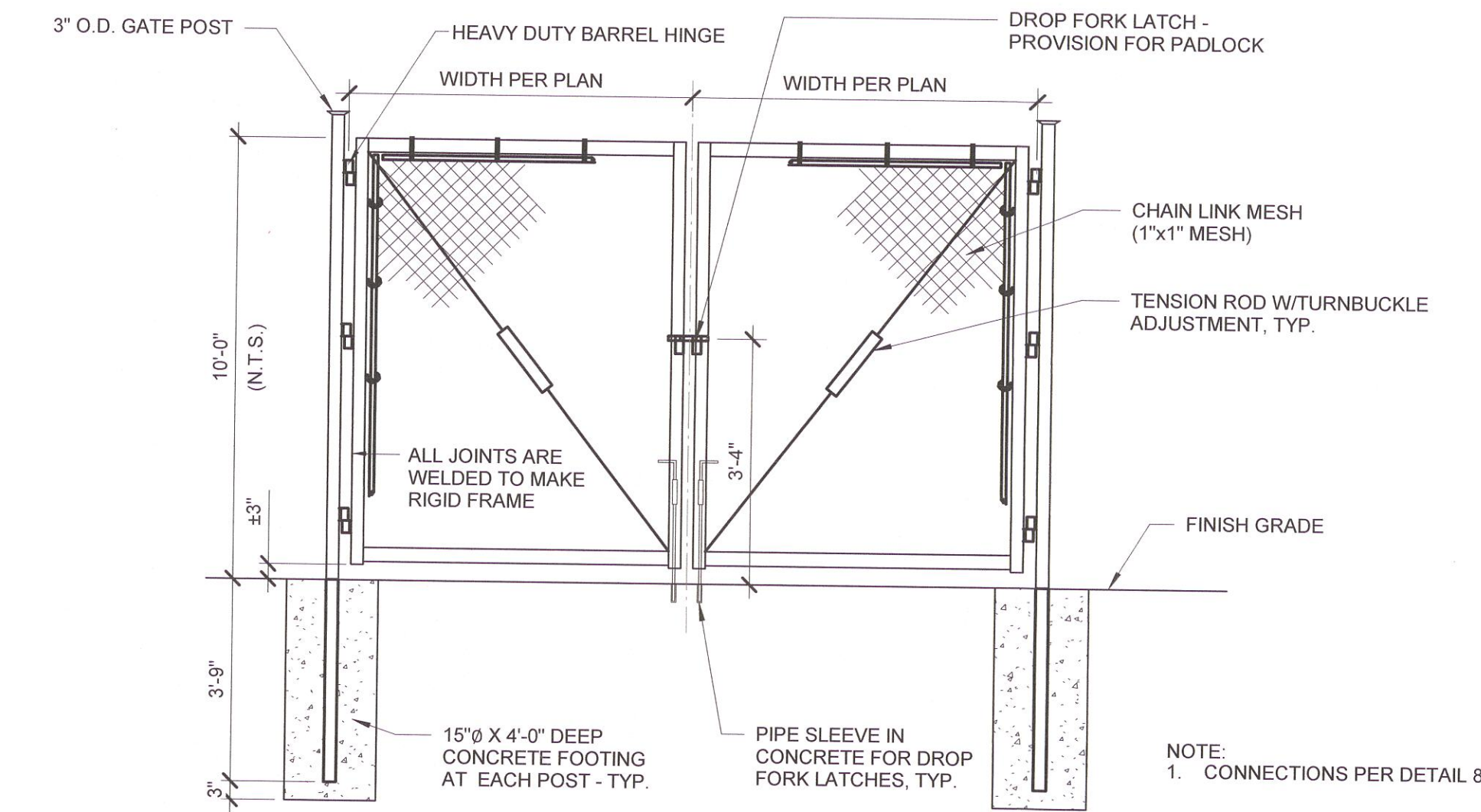


6 TYPICAL CHAIN LINK FENCE ELEVATION @ RETAINING WALL  
1/2" = 1'-0"

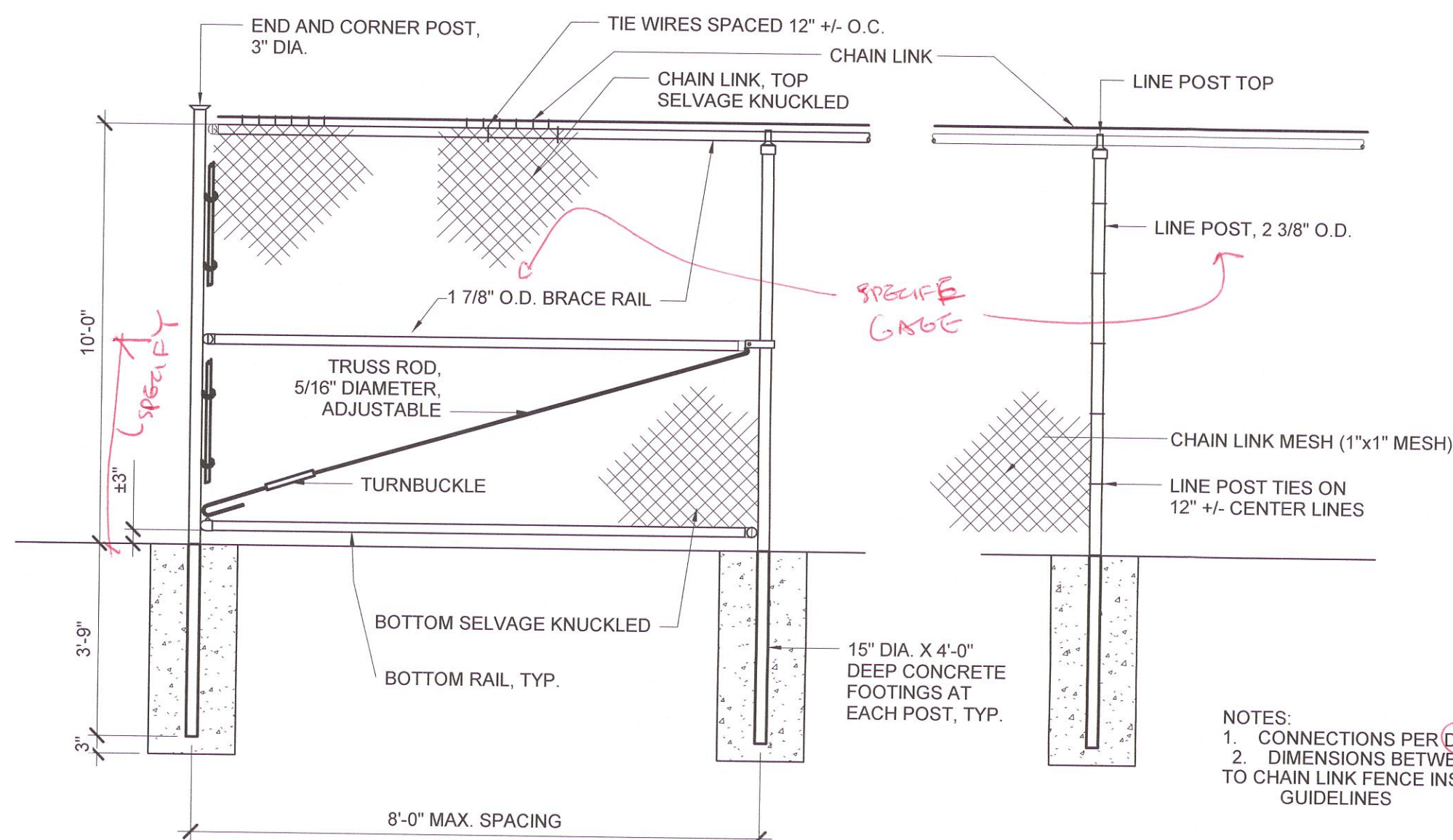


5 TYP. STEEL SLEEVE @ REBAR  
3/4" = 1'-0"

4 CHAIN LINK FENCE ON SITE WALL  
1 1/2" = 1'-0"



2 TYPICAL CHAIN LINK GATE - DOUBLE  
1/2" = 1'-0"



1 TYPICAL CHAIN LINK FENCE ELEVATION  
1/2" = 1'-0"

FILE#: 21-H1 PTN#: 65466-27

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michael j. myers  
STATE OF CALIFORNIA  
ARCHITECT NO. 54098






















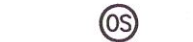

























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Utility Enclosure  
Details

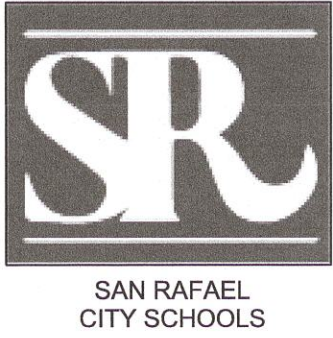
AS-522



FILE: M:\101-17-11 Terra Linda HS Student Commons\11ED1.dwg Dec 04, 2017 12:13 pm Scale: 1"=1' by: TRANG Xiong 2017-02608-000\_ARCH\_HED\_SHEET BIDDER 30x42.dwg

GENERAL NOTES	LEGEND	ABBREVIATIONS	DRAWING INDEX
<div>1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.</div> <div>2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.</div> <div>3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.</div> <div>4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.</div> <div>5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.</div> <div>6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.</div> <div>7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.</div> <div>8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.</div> <div>9. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED.</div> <div>10. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.</div> <div>11. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONLY.</div> <div>12. ALL WIRES SHALL BE IN CONDUIT, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4", UNLESS OTHERWISE INDICATED.</div> <div>13. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.</div> <div>14. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.</div> <div>15. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.</div> <div>16. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.</div> <div>17. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.</div> <div>18. THE CONTRACTOR SHALL EMPLOY QUALIFIED, LICENSED IN STATE OF CALIFORNIA AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.</div> <div>19. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.</div> <div>20. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.</div> <div>21. PROVIDE ARC-FLASH HAZARD WARNING ON ELECTRICAL EQUIPMENT PER CEC 20/6 ARC. 110.16. WARNING SIGNS SHALL BE WITH WHITE LETTERS ON RED BACKGROUND WITH MINIMUM 3/8 INCH HIGH LETTERING. INDOORS SIGN SHALL BE ENGRAVED PLASTIC LAMINATED INSTRUCTION SIGNS WITH APPROVED LEGEND WHERE INSTRUCTIONS ARE NEEDED FOR SYSTEM OR EQUIPMENT OPERATION. INSTALL METAL BACKED BUTYRATE SIGNS FOR OUTDOOR SYSTEM.</div> <div>22. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.</div> <div>23. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div>A AMP AMPERE</div> <div>AFF ABOVE FINISHED FLOOR</div> <div>AP ACCESS POINT</div> <div>BRKR BREAKER</div> <div>C CATV CABLE TELEVISION</div> <div>CBC CALIFORNIA BUILDING CODE</div> <div>CCTV CLOSED CIRCUIT TELEVISION</div> <div>CEC CALIFORNIA ELECTRIC CODE</div> <div>CKT CIRCUIT</div> <div>CO CONDUIT ONLY WITH PULL ROPE</div> <div>CPS CURRICULUM AND PRESENTATION SYSTEM</div> <div>CSC CLOCK/SPEAKER CABINET</div> <div>(E) EXISTING</div> <div>FU FUSE</div> <div>(G) GROUND, GUARD</div> <div>IDF INTERMEDIATE DISTRIBUTION FRAME</div> <div>MAX MAXIMUM</div> <div>MDF MAIN DISTRIBUTION FRAME</div> <div>MIN MINIMUM</div> <div>MPOE MAIN POINT OF ENTRY</div> <div>MSTC MAIN SIGNAL TELEPHONE CABINET</div> <div>MTB MAIN TELEPHONE BOARD</div> <div>NEC NATIONAL ELECTRICAL CODE</div> <div>NL NIGHT LIGHT</div> <div>NTS NOT TO SCALE</div> <div>O.C. ON CENTER</div> <div>PA PUBLIC ADDRESS</div> <div>PEU PHOTOELECTRIC UNIT</div> <div>PH, Ø PHASE</div> <div>(PNL) PANEL</div> <div>(R) RELOCATED</div> <div>RECEPT. RECEPTACLE</div> <div>SAD SEE ARCHITECTURAL DRAWINGS</div> <div>STC SATELLITE TERMINAL CABINET</div> <div>TRANSF. TRANSFORMER</div> <div>TB TELEPHONE BOARD</div> <div>TC TERMINAL CAN</div> <div>TMGB TELECOMMUNICATION MAIN GROUNDING BUSBAR</div> <div>TYP TYPICAL</div> <div>UDN UNLESS OTHERWISE NOTED</div> <div>V VOLT</div> <div>W WATT</div> <div>WG WIRE GUARD</div> <div>WP WEATHERPROOF</div> <div>XFMR TRANSFORMER</div>	<div>E0.1 GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING INDEX</div> <div>E1.1 ELECTRICAL SITE PLAN</div> <div>E2.1 LIGHTING PLAN - FIRST FLOOR</div> <div>E2.2 LIGHTING PLAN - SECOND FLOOR</div> <div>E3.1 POWER PLAN - FIRST FLOOR</div> <div>E3.2 POWER PLAN - SECOND FLOOR</div> <div>E4.1 ELECTRICAL PLAN (HVAC) - FIRST FLOOR</div> <div>E4.2 ELECTRICAL PLAN (HVAC) - SECOND FLOOR</div> <div>E4.3 ELECTRICAL PLAN (HVAC) - ROOF</div> <div>E5.1 SIGNAL PLAN - FIRST FLOOR</div> <div>E5.2 SIGNAL PLAN - SECOND FLOOR</div> <div>E6.1 SINGLE LINE DIAGRAM</div> <div>E7.1 SIGNAL RISER DIAGRAM</div> <div>E8.1 SCHEDULE AND DETAILS</div> <div>E9.1 DETAILS</div> <div>E10.1 SCHEDULES</div> <div>E10.2 SCHEDULES</div>
MEP COMPONENT ANCHORAGE NOTES		LIST OF APPLICABLE CODES	
<div>ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.</div> <div>1. ALL PERMANENT EQUIPMENT AND COMPONENTS:</div> <div>2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER</div> <div>3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.</div> <div>THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.</div> <div>A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</div> <div>B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.</div> <div>FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.</div> <div>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:</div> <div>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.</div> <div>THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.</div> <div>MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):</div> <div>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input checked="" type="checkbox"/></div> <div>OPTION 1: DETAILED ON THE APPROVED DWGS WITH PROJECT SPECIFIC NOTES AND DETAILS</div> <div>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input checked="" type="checkbox"/></div> <div>OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#); (I.E. OPM # 0043-13 MASON INDUSTRIES INC., AND OPM # 0203-13 M.W. SAUSSE &amp; CO. INC.)</div> <div>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/></div> <div>OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.</div>		<div>1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)</div> <div>2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 &amp; 2 (PART 2, TITLE 24, CCR)</div> <div>3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)</div> <div>4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)</div> <div>5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)</div> <div>6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)</div> <div>7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)</div> <div>8. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)</div> <div>9. 2016 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)</div> <div>10. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED</div> <div>11. NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS</div> <div>12. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES</div> <div>13. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED</div>	

INCREMENT 1 BID PACKAGE

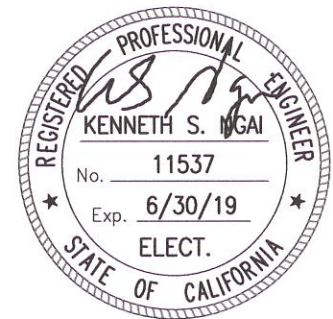


Terra Linda  
High School  
Student Commons

Date Issued For  
DSA Submittal

320 Nova Albion Way  
San Rafael, CA 94903 (415) 492-3100

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4701 Patrick Henry Drive, Bldg. 10  
Santa Clara, CA 95054  
phone (408) 970-9888  
fax (408) 970-9316  
www.aec-engineers.com  
PROJECT NO. 101-17-11



FILE#: 21-H1 PTN#: 65466-27  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION  
SERVICES  
APP#: 01-117738  
AC FLS SS  
DATE

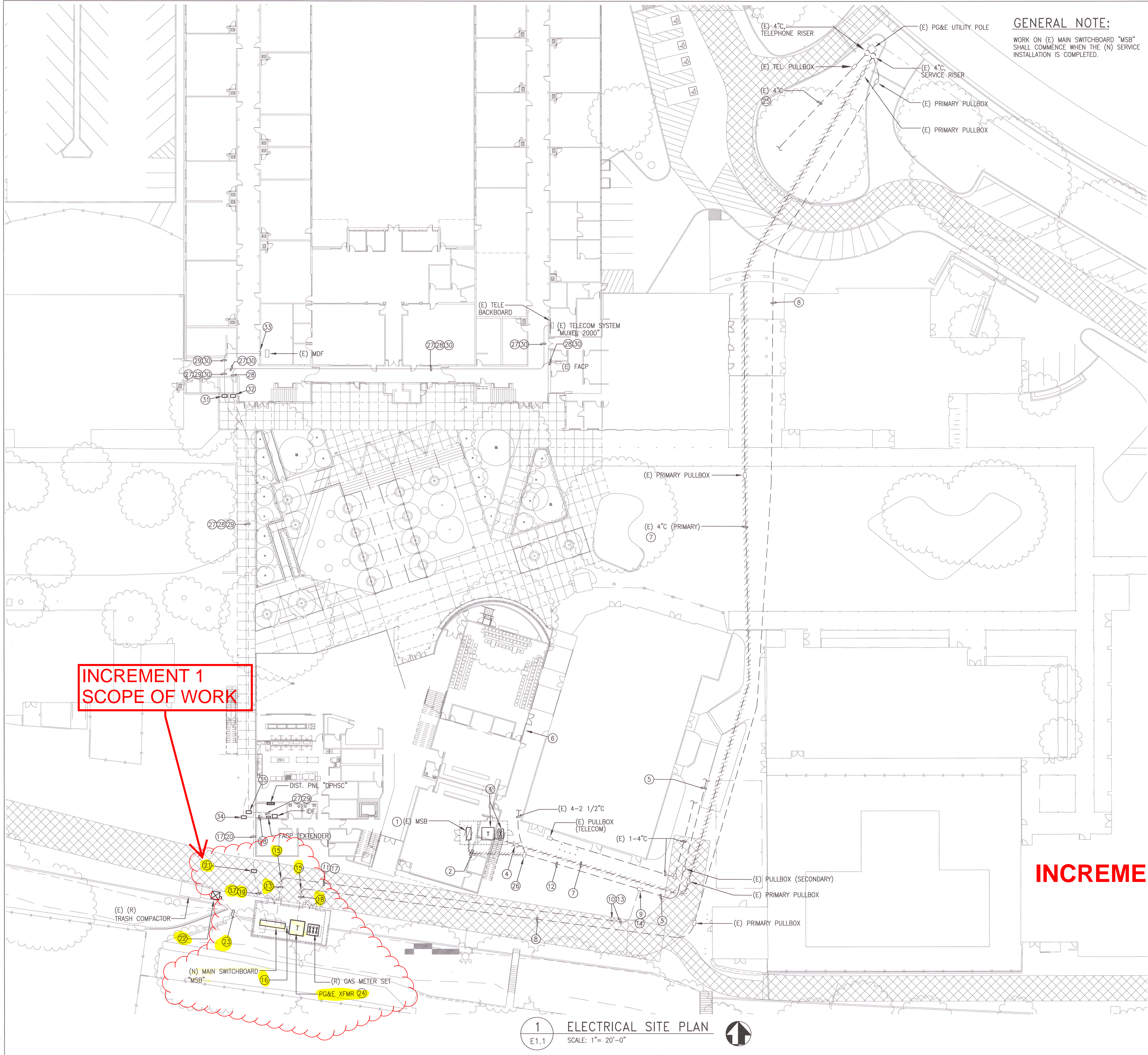
HED  
417 Montgomery Street  
Suite 400  
San Francisco, CA  
94104 USA  
(415) 981-2345  
WWW.HED.DESIGN

2017-02608-000

GENERAL NOTES,  
LEGEND,  
ABBREVIATIONS &  
DRAWING INDEX

E0.1





**GENERAL NOTE:**

WORK ON (E) MAIN SWITCHBOARD "MSB" SHALL COMMENCE WHEN THE (N) SERVICE INSTALLATION IS COMPLETED.

**SHEET NOTES:**

- ① DISCONNECT AND REMOVE (E) MAIN SWITCHBOARD "MSB", SEE NOTE ② ON THIS SHEET FOR ADDITIONAL WORK REQUIRED.
- ② (E) 2-4" WITH BRANCH FEEDER WIRES. CUT PORTION OF (E) 2-4" UP TO GROUND AND ABANDON THE REMAINING. ALL BRANCH WIRES SHALL BE PULLED BACK UP TO THE (N) PULLBOX FOR SPLICING, SEE NOTE ⑨ ON THIS SHEET.
- ③ (E) TRANSFORMER AND GAS METER SET TO BE REMOVED BY PG&E. COORDINATE WITH PG&E FOR ADDITIONAL WORK REQUIRED.
- ④ REMOVE (E) ELECTRICAL PULLBOX AND ABANDON (E) CONDUIT.
- ⑤ (E) 2-4" WITH BRANCH FEEDER WIRES.
- ⑥ REFER TO ELECTRICAL PLANS FOR (N) WORK REQUIRED IN THIS AREA.
- ⑦ ABANDON (E) 4" PRIMARY. DISCONNECT AND REMOVE PRIMARY FEEDER WIRES UP TO SOURCE. COORDINATE WITH PG&E PRIOR TO REMOVAL OF (E) WIRES. TO MINIMIZE DOWNTIME, WORK SHALL BE DONE WHEN THE NEW SERVICE INSTALLATION IS COMPLETED. CUTOVER SHALL BE FULLY COORDINATED WITH PG&E AND THE OWNER PRIOR TO START OF WORK.
- ⑧ (E) 1-4" (PRIMARY)
- ⑨ INSTALL (N) PULLBOX IN (E) CONDUIT RUN.
- ⑩ INTERCEPT (E) CONDUITS AND EXTEND TO (N) PULLBOX AS SHOWN, SEE NOTE ⑨.
- ⑪ (E) ③ 3 1/2" C  
(E) ⑦ 2 1/2" C  
(E) ③ 1 1/2" C
- ⑫ UTILIZE (E) CONDUITS AND PULL (N) WIRES.
- ⑬ (E) ③ 3 1/2" C  
(E) ⑦ 2 1/2" C  
(E) ③ 1 1/2" C
- ⑭ CONCRETE PULLBOX, CHRISTY CAT #N48 WITH EXTENSION.
- ⑮ CONNECT (N) CONDUIT TO (E) CONDUIT.
- ⑯ (E) 5" C
- ⑰ SEE SINGLE LINE DIAGRAM FOR WIRE SIZE.
- ⑱ (N) 1-4" (PRIMARY)
- ⑲ (E) ② 3" C (DIST. PNL "PPHSC")  
(E) ② 2 1/2" C (SPARE)
- ⑳ (E) ② 3" C (DIST. PNL "DPHSC")
- ㉑ CONCRETE PULLBOX, CHRISTY CAT #N40 WITH EXTENSION, COVER SHALL BE ENGRAVED WITH "ELECTRIC".
- ㉒ TRASH CONTROLLER PROVIDED BY OTHERS, ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION.
- ㉓ 1" C, 3 #10 & 1 #10 GND.
- ㉔ PROVIDE CONCRETE PAD PER PG&E REQUIREMENT.
- ㉕ PROTECT (E) TEL. PRIMARY CONDUIT DURING CONSTRUCTION. MAINTAIN CIRCUIT CONTINUITY.
- ㉖ (E) PULLBOX TO REMAIN.
- ㉗ (E) ② 2" C (CLOCK/SPEAKER/TEL)
- ㉘ (E) ① 1 1/2" C (FIRE ALARM)
- ㉙ (E) ① 2" C (DATA/FIBER)
- ㉚ ROUTE CONDUIT ABOVE CEILING AND PROVIDE CONDUIT SUPPORT AT 10FT. INTERVAL MAXIMUM.
- ㉛ PROVIDE (N) 18"x12"x6" NEMA 3R PULLBOX AND SECURE ON THE EXTERIOR WALL OF THE BUILDING.
- ㉜ SAME AS NOTE ㉛ EXCEPT PULLBOX SIZE IS 8"x8"x6"
- ㉝ STUB-OUT CONDUIT NEXT TO EQUIPMENT.
- ㉞ CONCRETE PULLBOX, CHRISTY CAT #B1017. COVER SHALL BE ENGRAVED WITH "FIRE ALARM".
- ㉟ CONCRETE PULLBOX, CHRISTY CAT #B1324. COVER SHALL BE ENGRAVED WITH "SIGNAL".

**INCREMENT 1 BID PACKAGE**

**1 ELECTRICAL SITE PLAN**  
SCALE: 1"= 20'-0"



**Terra Linda High School Student Commons**

320 Nova Albion Way  
San Rafael, CA 94903 (415) 492-3100

Date Issued For  
DSA Submittal

**Alliance Engineering Consultants, Inc.**  
4701 Patrick Henry Drive, Bldg. 10  
Santa Clara, CA 95054 phone (408) 970-9888  
fax (408) 970-9319  
PROJECT NO. 101-17-11 www.aec-engineers.com



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**HED**  
417 Montgomery Street  
Suite 400  
San Francisco, CA 94104 USA  
(415) 981-2345  
WWW.HED.DESIGN

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2017-02608-000

**ELECTRICAL SITE PLAN**

**E1.1**



## **Architect's Supplemental Instructions HED**

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Project:	<b>Student Commons Building</b>	Architect's Supplemental
	Terra Linda High School	Instruction Number: <b>1</b>
	320 Nova Albion Way	
	San Rafael, CA 94903	
Owner:	<b>San Rafael City Schools</b>	DSA ApplicationNo.: <b>01-117738</b>
		DSA File No.: <b>21-H1</b>
		Date of Issuance: <b>8 February 2019</b>
		Architect's Proj No.: <b>2017-02608</b>

### Contract for: Terra Linda High School Student Commons Building

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents. Prior to proceeding with these instructions, indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents. Any additional cost or time extension cannot be approved by the Architect without the authorization of the Owner. Return a copy of concurrence and/or notations for additional cost and schedule considerations to the Architect, Construction Manager and Owner's Representative(s).

### **Description:**

- 1.0 Attached are the PG&E engineered drawings for the electrical primary line/switchgear and gas meter.

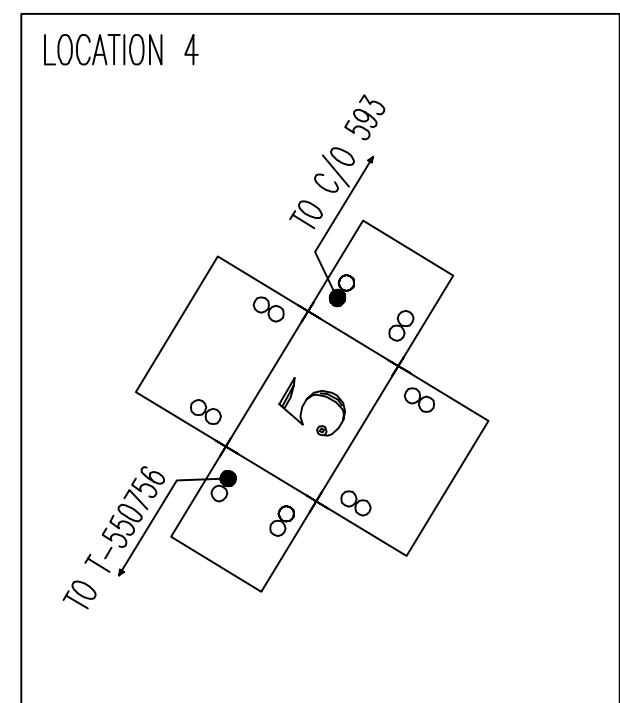
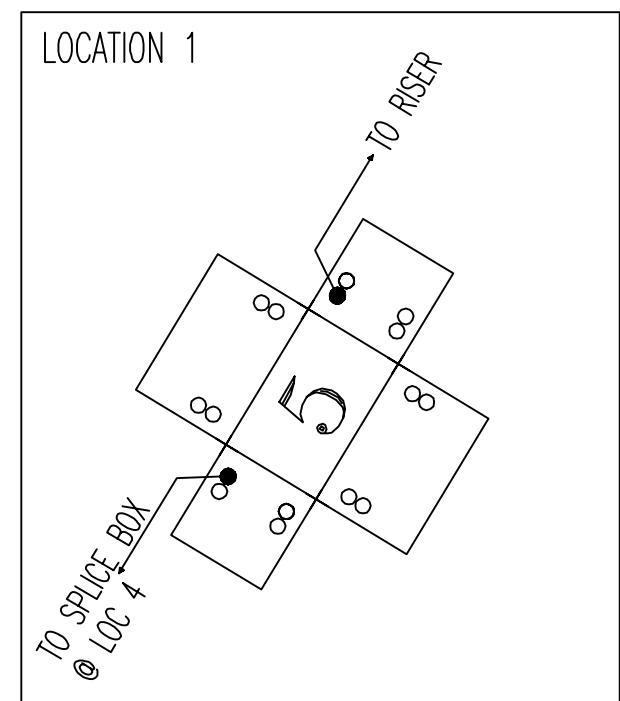
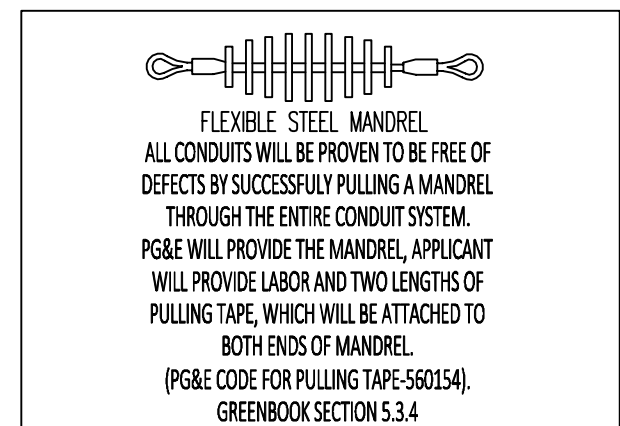
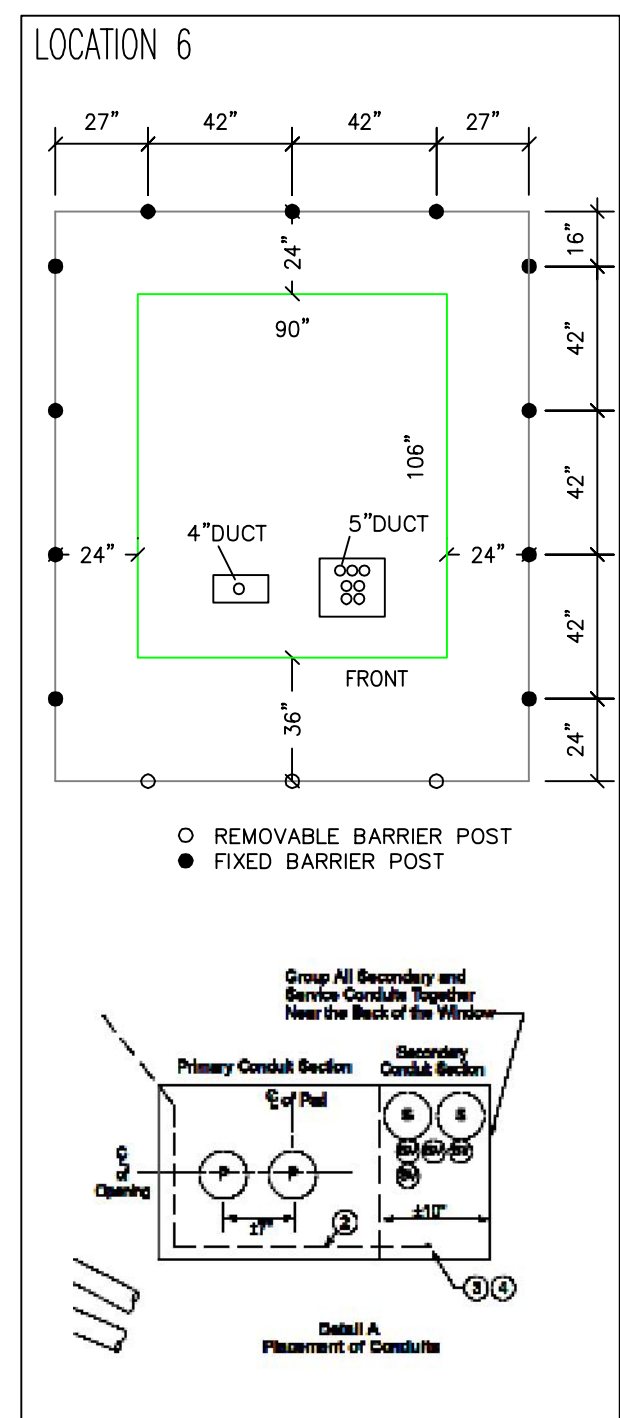
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PG&E PM 31416909 Gas Meter Record Drawing (1 page)  
PG&E PM 43413460 Gas Service Record (2 pages)*














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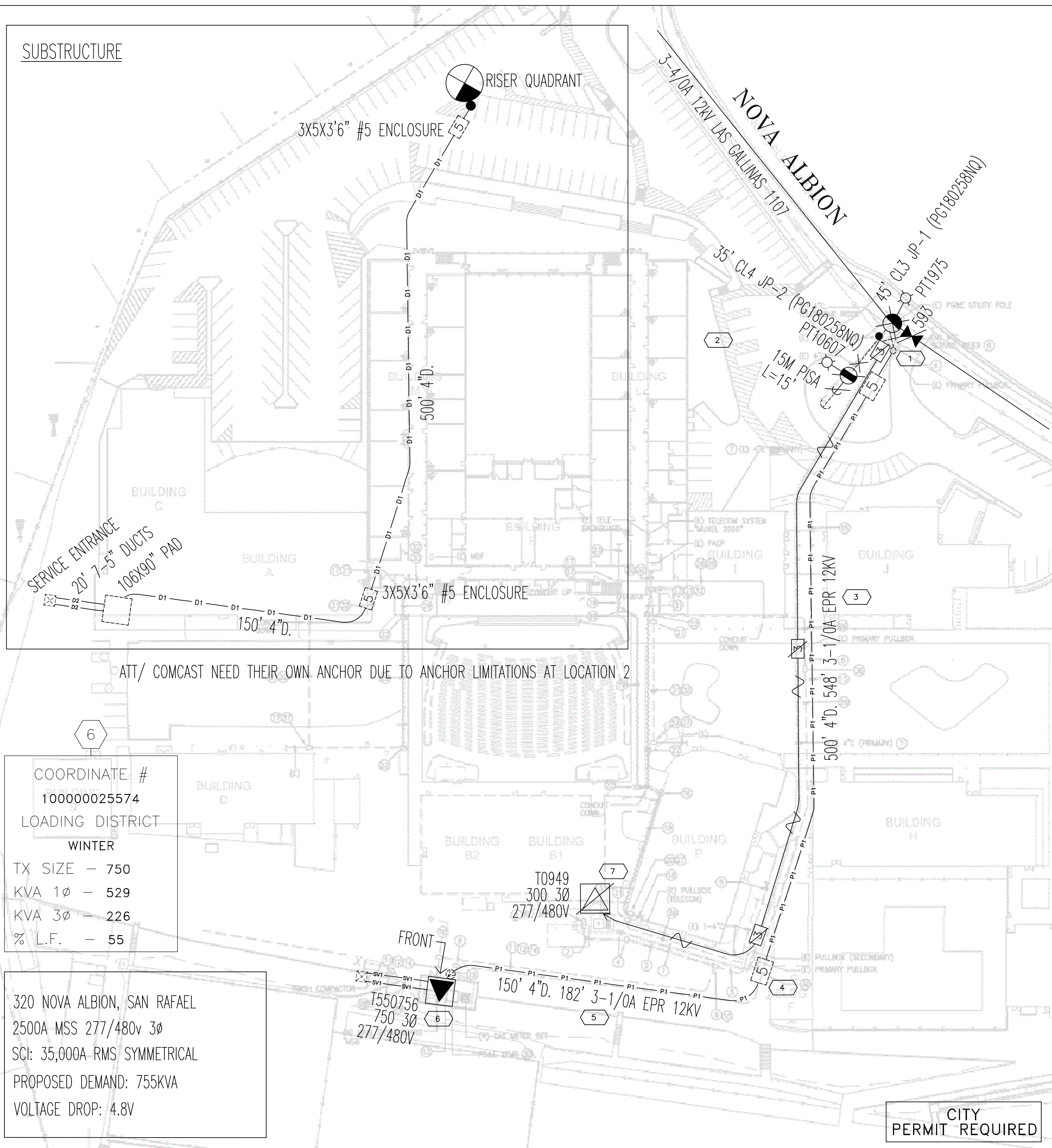
By \_\_\_\_\_  
*Architect* Wallace B. Gordon



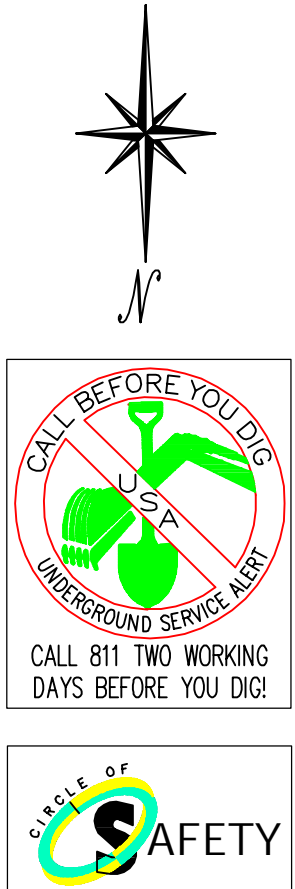


- |   |   |
|---|---|
|    | 750KVA 277/480V 3Ø 12KV PM TRANSFORMER                  |
|    | 200A LOADBREAK TERMINATIONS                             |
| — P1 —  | 3-1/0A EPR 12KV CABLE                                   |
| — SV1 —   | 6-1,000C & 2-250C 600V CABLES                           |
|    | 277/480V 3Ø 13-JAW CT RATED METER                       |
|    | 45' CL3 JOINT POLE                                      |
|    | FUSED CUTOUPS   |
|    | 3" U-SHAPED PVC PRIMARY RISER                           |
|    | 35' CL4 JOINT GUY STUB                                  |
|    | 15M PISA SOLELY OWNED                                   |
|   | <u>INSTALL — APPLICANT</u>                              |
| — D1 —  | 4" CONDUIT DB120 (MIN)                                  |
| — D2 —  | 5" CONDUIT DB120 (MIN)                                  |
|    | 3X5X3'6" INCIDENTAL PRIMARY SPLICE ENCLOSURE (# 025601) |
|    | 106X90" PAD (CODE# 040292)                              |
|   | <u>REMOVE — PGE</u>                                     |
|  | 45' CL4 JOINT POLE                                      |
|  | MANUAL SWITCH (OBSOLETE)                                |
|  | 3" PVC/STEEL PRIMARY RISER                              |
|  | JOINTLY OWNED GUY STUB                                  |
|  | 7.5M ANCHOR   |
|  | 300KVA PAD-MOUNTED UCD 277/480V 3Ø                      |
|   | <u>REMOVE — APPLICANT</u>                               |
| —————   | 3-2C 12KV CABLE (APPLICANT OWNED)                       |
|  | #3 ENCLOSURE (APPLICANT OWNED)                          |

- 1 PGE TO REMOVE FRAMING, SWITCH, RISER AND TOP 15' OF JOINT POLE.  
PGE TO SET NEW 45' CL3 JOINT POLE, BUILD PRIMARY RISER AND INSTALL CUTOUTS.  
(\*SET POLE IN SAME HOLE DUE TO RISERS\*)  
APPLICANT TO REMOVE EXISTING ENCLOSURE & INSTALL #5 PRIMARY SPLICE ENCLOSURE.
- 2 PGE TO REMOVE SPAN/DOWN GUY ASSEMBLIES AND ANCHOR.  
PGE TO INSTALL 35' CL4 GUY STUB, SPAN/DOWN GUY ASSEMBLY AND ANCHOR.
- 3 APPLICANT TO TRENCH & INSTALL 4" DUCT AND REMOVE EXISTING ENCLOSURE.  
PGE TO INSTALL 548' 3-1/0A PRIMARY CABLE.
- 4 APPLICANT TO REMOVE EXISTING ENCLOSURE & INSTALL #5 PRIMARY SPLICE ENCLOSURE.  
PGE TO INSTALL STRAIGHT PRIMARY SPLICES.
- 5 APPLICANT TO TRENCH & INSTALL 4" DUCT.  
PGE TO INSTALL 182' 3-1/0A PRIMARY CABLE.
- 6 APPLICANT TO EXCAVATE AND INSTALL 106X90" TRANSFORMER PAD.  
APPLICANT TO EXCAVATE AND INSTALL 7-5" DUCTS.  
PGE TO INSTALL 750KVA 277/480V 3Ø 12KV PM TRANSFORMER.  
PGE TO INSTALL 6-1,000C & 2-250C. PGE TO INSTALL CT'S AND METERING.
- 7 PGE TO REMOVE EXISTING 300KVA PAD-MOUNT TRANSFORMER, SERVICE & METERING.



PRI. VOLT.: 12KV	INS. DIST.: A	FIRE AREA: UNF
PLAT: S53217	LOAD. AREA: URBAN	EQUIP. #: N/A
DGN. VOLT:	CORR. AREA: NON	EXEMPT:
PCKT: LAS GALLINAS 1107	ARRESTOR DIST.:	DISTRICT: UNF
SSD: 17/79	RAPTOR FRAMING: NA	



APPLICANT NOTES:

- \* APPLICANT TO TRENCH, INSTALL, ALL CONDUITS, SUBSTRUCTURES & BACK-FILL PER PG&E SPECIFICATIONS. TRENCH IS TO BE JOINT WHERE POSSIBLE. APPLICANT IS RESPONSIBLE FOR COORDINATION OF OTHER UTILITIES.
- \* APPLICANT IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CONTACT U.S.A. LOCATE SERVICE AT 8-1-1 AT LEAST TWO WORKING DAYS TO TRENCHING. BETTER: INSTALL A POLY-ESTER PULLING TAPE IN CONDUITS ATTACHED TO END CAPS. PULL TAPE CODE #560154.
- \* MANDEILLED, PRIMARLY A MINIMUM OF 36" RADIUS FOR VERTICAL BENDS AND 60" RADIUS FOR HORIZONTAL BENDS. SECONDARY A MINIMUM OF 24" RADIUS FOR VERTICAL BENDS AND 36" RADIUS FOR HORIZONTAL BENDS. SERVICE A MINIMUM OF 24" RADIUS FOR VERTICAL BENDS AND 36" RADIUS FOR HORIZONTAL BENDS.
- \* BACK-FILL MATERIAL MUST CONTAIN NO MORE THAN OCCASIONAL BOUNDED ROCKS LESS THAN 12" DIAMETER. EXCEPT FOR MATERIAL USED FOR BACKFILLING, ALL OTHERS MUST BE REJECTED PRIOR TO BACK FILL. TRENCH MUST BE INSPECTED BY PG&E BEFORE BACKFILLING. CONDUIT SYSTEM MUST PASS MANDEILL. TEST BEFORE PGE WORK CAN BE SCHEDULED.
- \* ANY CHANGES OR MODIFICATIONS MUST BE APPROVED BY PG&E.
- \* REFERENCES DRAWINGS AVAILABLE ON PG&E INTERNET WEB SITE: <http://www.pg&e.com/greenbook>

CONDUIT DWG. # 162288 ENCLOSURES DWG. # 028022, 052000

05/29/03

**IMPORTANT: DEVELOPER, GENERAL CONTRACTOR & ELECTRICAL CONTRACTOR PLEASE NOTE:**  
BEFORE BEGINNING SUBSTRUCTURE WORK, PLEASE CALL PG&E INSPECTOR. 48 HOURS IN ADVANCE @ (415) 257-3130. WORK NOT PROPERLY INSPECTED MAY BE REJECTED. IF THERE ARE CONFLICTS BETWEEN LANDSCAPING (MOUNDS, BENCHES, BUSHES, ETC.), PLEAS, CONTACT THE INSPECTOR PRIOR TO INSTALLATION (SPICE BOXES, TRANSFORMER PAIDS, ETC.). PLEASE CONTACT THE INSPECTOR PRIOR TO INSTALLATION.

[illegible]



EST:	JBP4
ADD:	JAGQ
SUPV:	DJMQ
REP:	DMBQ
PLNR:	
SCALE:	DATE:
N.T.S.	

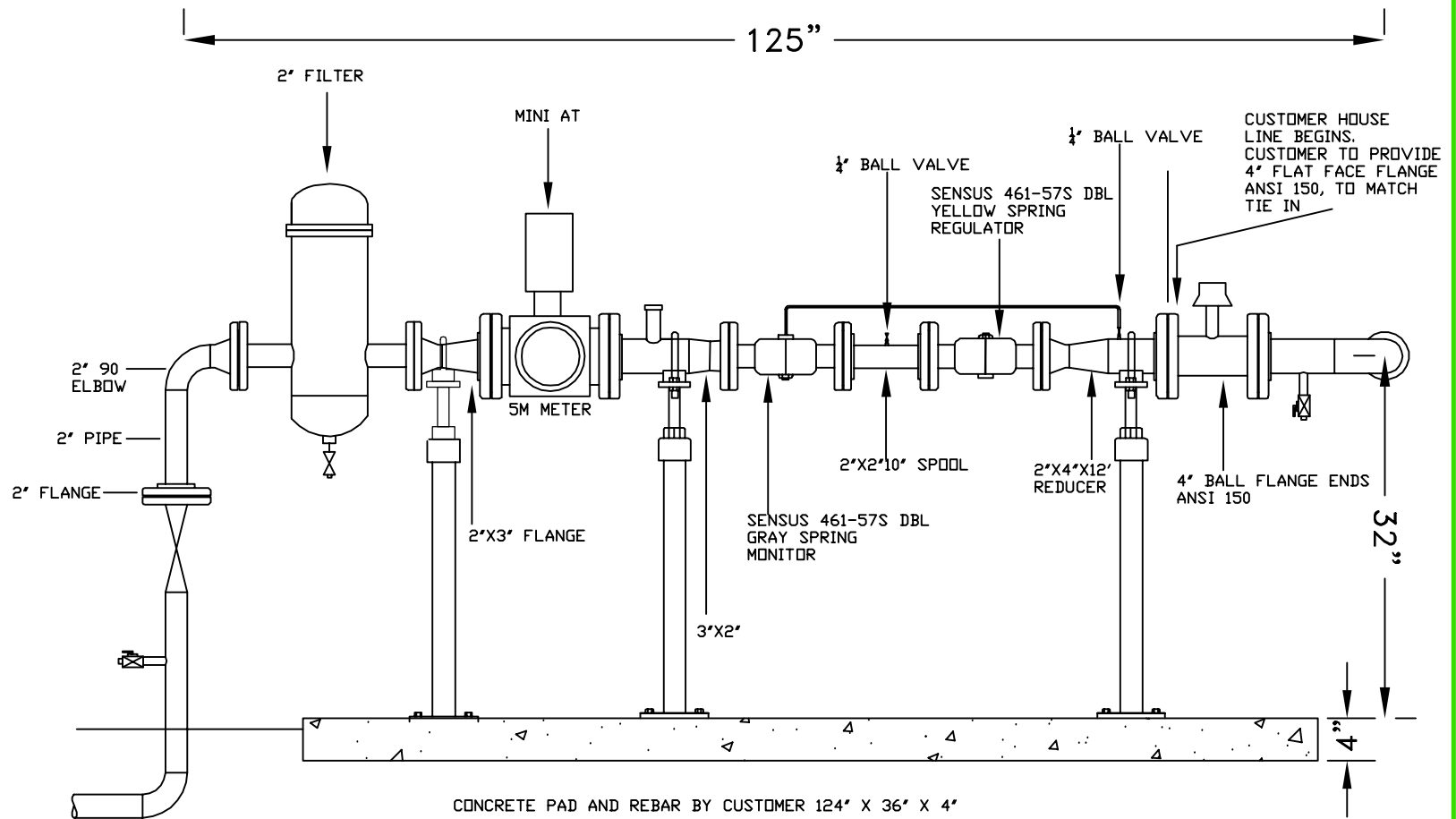


**GAS METER RECORD DRAWING**  
**320 NOVA ALBION WAY**  
**SAN RAFAEL**

CO:	
SD:	
NOTE:	11189038112953926
OTHER:	
SHT:	SHEETS
PM:	31416909
REV.	0

**TOTAL CONNECTED LOAD**  
**14,543 SCFH**

PG&E TO DEMO EXISTING DOWNSTREAM 5M ROTARY METER AT 5 PSIG.  
PG&E TO RE-INSTALL (1) 5M ROTARY AS UPSTREAM METERING AT 5 PSIG.  
PG&E TO REMOVE EXISTNG REG & MON AND INSTALL NEW REG & MON.  
INSTALL (1) NEW MINI AT







If completing this form by hand, use non-erasable blue or black ink.

Form TD-9500P-14-F01, Rev. 2  
Publication Date: 06/20/2018  
Effective Date: 08/20/2018












Leak #:

The site plan illustrates the proposed gas service installation at Terra Linda High School (#320). Key features include:

- PG&E TO:** CUT & ALTER EXISTING 2" ISOLATED STL GAS SERVICE TO NEW METER LOCATION. RE-INSTALL ROTARY AT 5 PSIG. INSTALL 5 LB ANODE AT ALTER POINT. INSTALL 28' OF 2" PL GAS SERVICE.
- APPLICANT TO:** TRENCH BACKFILL AND PAVE ALL. INSTALL HOUSE LINES
- Location Labels:** #320 TERRA LINDA HS, NEW BUILD, POOL, NOVA ALBION WAY, PARKING LOT, FOOTBALL FIELD, TRACK.
- Gas Service Details:**
  - 2" STL-SVC (Service)
  - 1/2" PL ('81) S/Q# 47462
  - 2" PL SVC ('06)
  - 4" STL HP-MAIN
  - 2" PL INSTALL (dashed line, 28' length)
  - INSTALL 5 LB ANODE
  - CONTROL GAS FLOW WITH EXISTING CURB VALVE
- Orientation:** A north arrow points towards the top left of the page.



Always indicate specific section on sketch if multiple values for material, method of installation, size, or year installed (if year is available) are applicable to a single service.  
Not intended to be inclusive of all possible symbols.

Symbols	----- Gas Line (New)  Meter  Anode  Reducer  OR  EFV  Valve with Frame and Cover ———— Gas Line (Existing)  Meter Manifold  Electronic Marker  Service Tee  D OR  Cap Pipe Size and Material (Casing Size and Material) Insert											
Vertical Information	Required	Altered or Installed Service			Required	Work Location Information			Required	Instructions for Deactivations: The following is the minimum information required when creating a GSR for deactivation.		
	If App.	Main or Mother Service			If App.	If Applicable			Deactivation Required	Deactivation Required		
Optional	• Main • Service pipe • Service tee • Pressure classification: High pressure (HP), semi-high pressure (SHP ), low pressure (LP), transmission pressure (TP)			• Material • Method of install per TD-4461M: Trench, HDD, splitting, dry bore, insert • Pipe size • Status: New or existing • Existing pipe: Year installed, if available			• Name of nearest cross street • Name of street • North arrow • Street address • Dimension service tee to service end • Dimension service tee to nearest cross street			• Location of gas flow termination • Installed assets related to deactivation (e.g. electronic markers, end caps, plugs) • Deactivated pipe: Length, material, size • Deactivated pipe: Year installed, if available • Date deactivation work was completed • LAN ID and signature* of the qualified field representative performing required test(s) and/or inspection(s) • LAN ID and signature* of the person in charge installing assets related to deactivation • Excavation Agent: PG&E or Applicant		
• Mother/branch service • New cathodic protection (e.g. anode) • Deactivated pipe • Electronic markers • Fittings per TD-4461M • Curb valve • Excess flow valve • Meter/manifold • Pipe casing • Regulating stations involved in or within close proximity to work • Meter guards			• Casing material • Casing size • Joint trench (JT)			• Casing length • Deactivated pipe length • Width of cross street • Repairs: Dimension from service tee or riser and length of repair • Partial replacement: Dimension from service tee or riser and length of installation • Stub completion: Dimension from service tee or riser and length of installation • Manifold or large meter: Dimension minimum distance required between structure and riser • Lateral offset: Dimension from service tee or riser • Valves and fittings: Dimension from service tee or riser			• Deactivated non-pipe assets, if available: material, size.			