

Terra Linda High School

New Gym & Frontage Improvements

SITE WORK INCREMENT 1 OF 2

320 Nova Albion Way, San Rafael, CA 94903

San Rafael City Schools

DSA FILE NO: ###-##

DSA APPLICATION NO: ###-#####

PTN: #####-##



PROJECT TEAM

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INCREMENT 1 OF 2

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DSA APP NO. ###-#####

ARCH PROJECT NO. 1854.00

DRAWN BY: TF

DRAWING SCALE: NO SCALE

PTN: #####-## FILE NO: ###-##

90% DD

JULY 13, 2020

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

ABBREVIATIONS

AB	AGGREGATE BASE	MH	MANHOLE
AC	ASPHALT CONCRETE	MIN	MINIMUM
AD	ADVERSE DIFFERENCE	MISC	MISCELLANEOUS
ADP	ADAPTER	MJ	MECHANICAL JOINT
ADPT	ADAPTER WITH DISABILITIES ACT	ML	MEAN SEA LEVEL
AGG	AGGREGATE	N	NORTH
ALUM	ALUMINUM	NA	NOT APPLICABLE
AP	ANGLE POINT	NIC	NOT IN CONTRACT
APN	ASSESSORS PARCEL NUMBER	PI	PIPE
APPROX	APPROXIMATE	PI-T	PIPE THREAD
ARV	AIR RELEASE VALVE	OC	ON CENTER
AVE	AVENUE	OD	OUTSIDE DIAMETER
BC	BEGIN HORIZONTAL CURVE	OE	OVERHEAD
BLDG	BUILDING	PA	PLASTER AREA
BLVD	BOULEVARD	PC	POINT OF CURVATURE
BO	BOND	PCC	POINT OF COMPOUND CURVATURE
BVC	BEGIN VERTICAL CURVE	PPC	PORTLAND CEMENT CONCRETE
BT	BOTTOM OF TAPER	PD	PLASTER DRAIN
BSW	BACK OF SIDEWALK	PE	PLAIN END
BT	BOTTOM OF TAPER	PG	PAD GRADE
BW	BOTTOM OF WALL	PIV	POST INDICATOR VALVE
BAR	BRELLIE & RACE	P	PROPERTY LINE
OW	COMBINATION AIR AND VACUUM RELEASE VALVE	PN	PAVING NOTCH
CB	CALIFORNIA BUILDING CODE	POC	POINT OF CONNECTION
CD	CONTROLLED DENSITY FILL	POC	POINT ON CURVE
CIP	CENTRILINE	POS	PRIVATE OPEN SPACE
CL	CENTRILINE	POT	POINT ON TANGENT
CL	CENTRILINE	PP	POWER POLE
CL	CLASS	PRV	POINT OF REVERSE CURVATURE
CLR	CLEAR	PSI	POUND PER SQUARE INCH
CMP	CORRUGATED METAL PIPE	PSV	PRESSURE SUSTAINING VALVE
CP	CORRUGATED METAL PIPE ARCH	PUE	POINT OF TANGENCY
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PWT	PAVEMENT
COND	CONDUIT	R	RADIUS
CP	CONTROL POINT	RAW	RAW WATER
CP	CONTROL POINT	RCB	REINFORCED CONCRETE BOX
CR	CURB RETURN	RCP	REINFORCED CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE	RD	ROAD
CV	CENTER TO CENTER	RD	ROAD
C&G	CURB AND GUTTER	RD	ROAD
DBL	DOUBLE CHECK DETECTOR CHECK	RD	ROAD
DDC	DOUBLE DETECTOR CHECK	RD	ROAD
DI	DROP INLET	RD	ROAD
DIA	DIAMETER	R/W	RIGHT OF WAY
DR	DRIVE	S	SLOPE
DS	DOWNSLOPE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
D/W	DRIVEWAY	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
E	EAST	SCH	SCHEDULE
ECC	ECCENTRIC	SD	STORM DRAIN
EFPL	EFFLUENT (SEWER)	SDCB	STORM DRAIN CATCH BASIN
EG	ELECTRIC GROUND	SDCO	STORM DRAIN CLEANOUT
EL	ELEVATION	SDI	STORM DRAIN INLET
ELC	ELECTRIC EASEMENT	SDE	STORM DRAIN EASEMENT
ELL	ELBOW	SDMH	STORM DRAIN MANHOLE
ESMT	EASEMENT	S.E.D.	SEE ELECTRICAL DRAWINGS
EVC	END VERTICAL CURVE	SG	SUBGRADE
EW	EACH WAY	S.I.D.	SEE LANDSCAPE DRAWINGS
EX	EXISTING	S.O.	SIDE OPENING (SD)
EXT	EXTENSION	S.P.D.	SEE PLUMBING DRAWINGS
FC	FACE OF CURB	SP	SPECIFICATION
FCA	FLANGED COUPLING ADAPTER	SS	STAINLESS STEEL
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FES	FLARED END SECTION	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	S.S.D.	SEE STRUCTURAL DRAWINGS
FI	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOWLINE	STA	STATION
FLSO	FLOWLINE OF SIDE OPENING	STD	STANDARD
FLEX	FLEXIBLE	STL	STEEL
FM	FORCE MAIN (PRESSURE)	SVC	SERVICE
FRP	FIBERGLASS REINFORCED PLASTIC	SWE	SIDEWALK EASEMENT
FT	FOOTING	S/W	SIDEWALK
FTG	FOOTINGS	TAN	TANGENT
GALV	GALVANIZED	TOP	TOP OF BOX
GB	GRADE BREAK	TC	TOP OF CURB
GPM	GALLONS PER MINUTE	TCE	TEMPORARY CONSTRUCTION EASEMENT
GSP	GALVANIZED STEEL PIPE	TD	TEMPORARY
GV	GATE VALVE	TE	TELEPHONE
HB	HEADER BOARD	TEMP	TEMPORARY
HDC	HOT DIPPED GALVANIZED	TOP	TOP OF FOUNDATION
HDPE	HIGH DENSITY POLYETHYLENE	TO	TOP OF GRADE
HP	HIGH POINT	THD	THREADED
HPC	HIGH PRESSURE GAS	TS	TOP OF SLAB
HWY	HIGHWAY	TT	TOP OF TAPER
ICV	IRRIGATION CONTROL VALVE	TY	TYPICAL
ID	INSIDE DIAMETER	UFFG	UNDER FLOOR FINISHED GRADE
INV	INVERT	UNO	UNLESS NOTED OTHERWISE
IPS	IRON PIPE SIZE	UNO	UNLESS NOTED OTHERWISE
IRR	IRRIGATION	W	WATER
ISA	INTERNATIONAL FIRE ASSOCIATION	WM	WATER METER
JP	JOINT POLE	WNF	WELD NECK FLANGE
JT	JOINT TRENCH	WS	WATER SERVICE
L	LENGTH	WT	WATER VALVE
LG	LIFT OF GARAGE	WV	WATER VALVE
LP	LOW POINT	WV	WATER VALVE
LX	LEFT	WV	WATER VALVE
MAX	MAXIMUM	WV	WATER VALVE
MGR	METAL BEAM GUARD RAIL	WV	WATER VALVE
MFR	MANUFACTURE	WV	WATER VALVE
MG	MILLION GALLONS	WV	WATER VALVE

LEGEND

LINES		
BOUNDARY	---	
PARCEL	----	
CENTER	
EASEMENT	-----	
UTILITY LINES		
STORM DRAIN	-----	EXISTING
WATER	-----	PROPOSED
SEWER	-----	
GAS	-----	
ELECTRICAL	-----	
TELEPHONE	-----	
TELEVISION	-----	
JOINT TRENCH	-----	
TOPOGRAPHY		
DROP INLET	□	□
DROP INLET WITH SIDE OPENINGS	□	□
WATER METER	□	□
WATER VALVE	□	□
BLOWOFF	□	□
FIRE HYDRANT	□	□
THRUST BLOCK	□	□
GAS METER	□	□
STORM DRAIN MANHOLE	□	□
STORM DRAIN CATCH BASIN	□	□
SEWER MANHOLE	□	□
SEWER CLEANOUT	□	□
JOINT POLE	□	□
LIGHT STANDARD	□	□
GUY/ANCHOR	□	□
CURB & GUTTER	□	□
AD DIKE	□	□
FENCE	□	□
CHAIN LINK FENCE	□	□
DITCH/SWALE	□	□
MONUMENT	□	□
TREE PROTECTION	□	□
TREE TO BE SAVED	□	□
TREE TO BE REMOVED	□	□

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS

2019	CA BUILDING STANDARDS ADMINISTRATIVE CODE	#1E 24 PART 1
2019	CA BUILDING CODE	#1E 24 PART 2 VOLUME #1 AND #2
2016	CA ELECTRICAL CODE	#1E 24 PART 3
2016	CA MECHANICAL CODE	#1E 24 PART 4
2016	CA PLUMBING CODE	#1E 24 PART 5
2016	CA ENERGY CODE	#1E 24 PART 6
2016	CA FIRE CODE	#1E 24 PART 9
2016	CA GREEN BUILDING STANDARDS CODE	#1E 24 PART 11
2016	CA REFERENCED STANDARDS	#1E 24 PART 12
*FOR A FULL LIST OF STANDARDS CURRENTLY ADOPTED BY THE STATE OF CALIFORNIA, SEE CBC CHAPTER 35 AND CFC CHAPTER 800. CURRENT REFERENCE STANDARDS APPLICABLE TO FIRE AND LIFE SAFETY, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:		
2016	NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)
2013	NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
2016	NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)
2016	NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2013	NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION
2016	NFPA 24	INSTALLATION OF PRIVATE FIRE SERVICE MAINS
2016	NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES
2016	NFPA 101	EMERGENCY AND STANDBY POWER SYSTEMS
2012	ICC 300-12	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS
2013	NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS
2013	NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS
2015	NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
2005	UL 300	CLASS I HOOD FIRE SUPPRESSION SYSTEMS
2016	UL 464	AUDIBLE SIGNAL APPLIANCE
1999	UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
2016	19 CCR	PUBLIC SAFETY STATE FIRE MARSHAL REGULATIONS

FEMA INFORMATION

THE APPLICABLE FIRMS FOR THIS SITE ARE PANEL NOS. 06041C0293E AND 06041C0456F, DATED MARCH 16, 2016. THIS SITE IS LOCATED IN ZONE X (NO HAZON), WHICH REPRESENTS AREA OUTSIDE THE 1% ANNUAL CHANCE FLOOD HAZARD AREA.

GENERAL NOTES

- ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY UPON DISCOVERY. S&D NOTIFICATION SHALL BE IN WRITING.
- ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS DATED JULY 2006 EXCEPT AS NOTED ON PLANS AND THE STANDARD SPECIFICATIONS OF CITY OF SAN RAFAEL.
- CONTRACTOR SHALL OBTAIN ALL AGENCIES' REQUIRED PERMITS AND PAY ALL FEES PRIOR TO COMMENCEMENT OF ANY WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ARCHITECT AND HIS CONSULTANTS, AND THE DISTRICT, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.
- ANY EXCESS MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, ODORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING ROADWAYS AND PROPERTIES.
- CONTRACTOR SHALL BE RESPONSIBLE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURER APPROVED MUFFLERS/BAFFLES.

GENERAL UNDERGROUND NOTES

- NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, MAY BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER, THE ENGINEERS AND THE ARCHITECT ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
- CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY AT LEAST 48 HOURS BEFORE STARTING WORK.
- UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
- CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES AT PROPOSED POINTS OF CONNECTION AND NOTIFY ENGINEER OF FINDINGS VIA THE RFI PROCESS PRIOR TO THE CONSTRUCTION OF ANY UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, SEWER LINES, STORM DRAINS, GAS MAINS AND LATERALS, ELECTRICAL DISTRIBUTION LINES AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED, ABANDONED IN PLACE BY FILLING WITH CONCRETE SLURRY OR BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW STORM DRAIN OR SEWER CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE ENGINEER.
- DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS AND YARD DRAINS AS MARKED ON THE PLANS.
- ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

GRADING NOTES

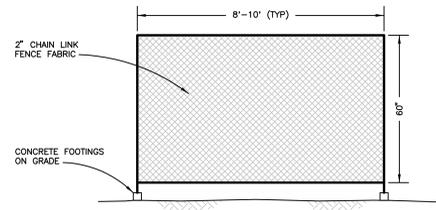
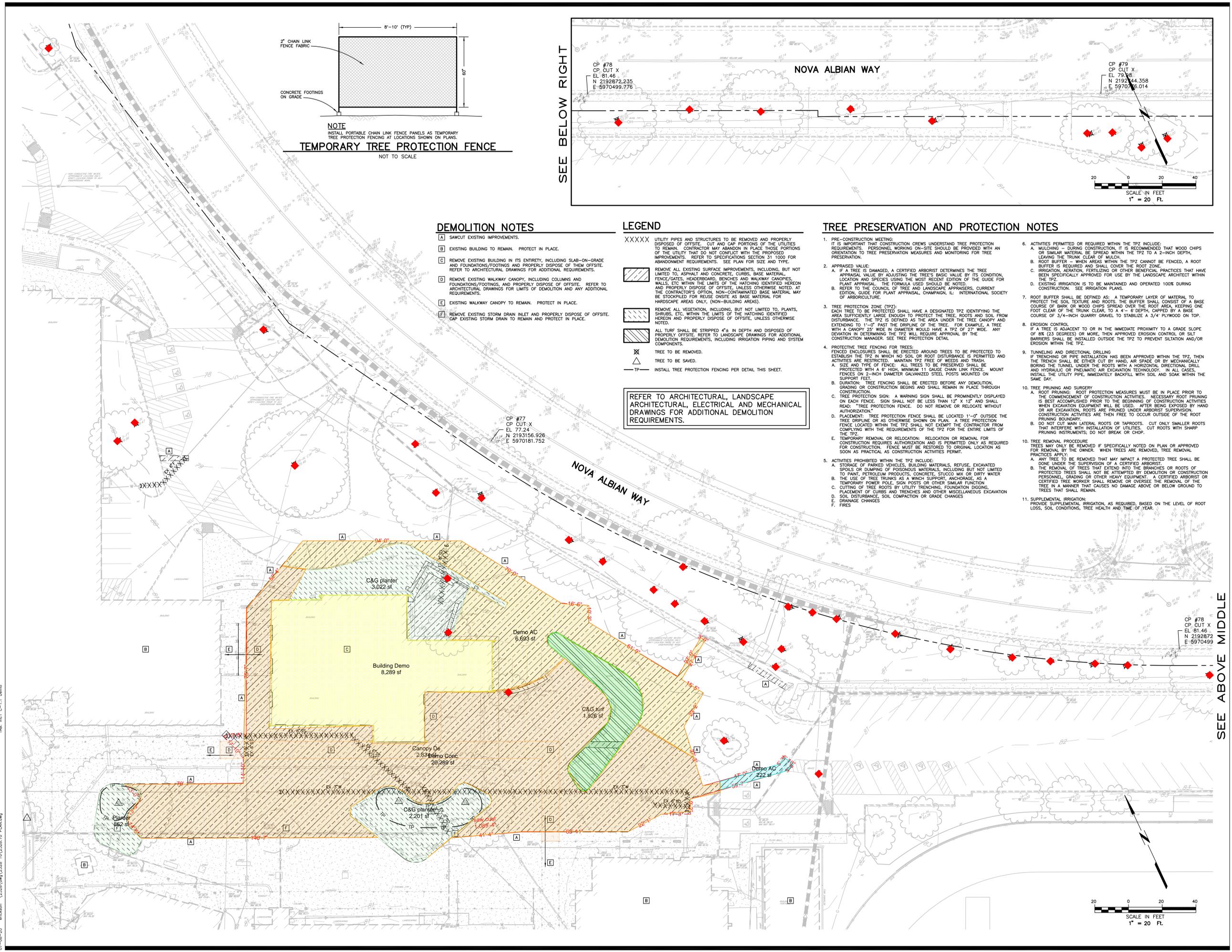
- ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS - NEW COMPMANUS PREPARED FOR THIS PROJECT BY AGCO, INC. DATED MARCH 29, 2020, INCLUDING THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED THIS IMPROVEMENTS DATED FEBRUARY 16, 2018.
- SEE SPECIFICATION SECTIONS 31 1000 AND 31 2000 FOR SPECIFIC REQUIREMENTS.

ROOF DRAIN NOTES

- SEE ARCHITECTURAL PLANS FOR INDIVIDUAL BUILDINGS FOR CONNECTION DETAILS, EXACT LOCATION, AND ELEVATION OF ROOF DRAIN STRUCTURES. THESE STRUCTURES SHALL BE CONNECTED TO THE ON-SITE STORM DRAIN SYSTEM AS SHOWN, WITH 1% MINIMUM SLOPE. THE INTENT OF THIS PLAN IS TO CONVEY ROOF DRAINAGE FROM CONNECTION POINTS PROVIDED IN ARCHITECTURAL PLANS TO THE ROOF DRAIN SYSTEM. WHEN THE ROOF DRAIN SYSTEM IS IN ADVANCE OF BUILDING STUBS BEING CONSTRUCTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY ADJUSTMENTS TO THE COLLECTION AND CONVEYANCE OF ROOF DRAINAGE TO THE CONSTRUCTED LOCATION OF ROOF DRAINS. THE ROOF DRAIN SYSTEM SHALL BE CONSTRUCTED SO AS TO AVOID FOOTINGS AND OTHER OBSTRUCTIONS.
- WHERE ROOF DRAINS (RD OR SD) ARE SHOWN CONNECTING TO THE MAIN STORM DRAIN, THE CONNECTION SHALL BE MADE USING A MANUFACTURED FITTING WHEREVER POSSIBLE. WHERE IT IS NOT POSSIBLE TO UTILIZE A MANUFACTURED FITTING, THE RD, OR SD SHALL BE BLIND CONNECTED TO THE MAIN STORM DRAIN AT OR ABOVE THE SPRINGLINE OF THE MAIN STORM DRAIN, AND SHALL NOT PROJECT MORE THAN 1/4" INTO THE INTERIOR OF THE MAIN STORM DRAIN. THE CONNECTION SHALL BE SECURED VIA A CONCRETE COLLAR AROUND THE RD, OR SD AT THE POINT OF CONNECTION TO THE MAIN STORM DRAIN.
- ALL ROOF DRAIN COLLECTION SYSTEM PIPING SHALL BE 1% MINIMUM SLOPE AND 6" MINIMUM COVER, WHERE POSSIBLE OR DEEPER AS NECESSARY TO PROTECT TO THE DRAINAGE SOURCE. BLIND CONNECTIONS SHALL BE MADE USING A MANUFACTURED FITTING WHEREVER POSSIBLE. WHERE IT IS NOT POSSIBLE TO UTILIZE A MANUFACTURED FITTING, THE RD, OR SD SHALL BE BLIND CONNECTED TO THE MAIN STORM DRAIN AT OR ABOVE THE SPRINGLINE OF THE MAIN STORM DRAIN, AND SHALL NOT PROJECT MORE THAN 1/4" INTO THE INTERIOR OF THE MAIN STORM DRAIN. THE CONNECTION SHALL BE SECURED VIA A CONCRETE COLLAR AROUND THE RD, OR SD AT THE POINT OF CONNECTION TO THE MAIN STORM DRAIN.
- ALL ROOF DRAINS (RD OR SD) ARE 4" UNLESS OTHERWISE SHOWN. ALL PIPE SHALL BE RIGID PIPE WITH SMOOTH INTERIOR WALL. ALL PIPE CONNECTIONS SHALL BE MADE WITH FITTINGS MANUFACTURED TO BE COMPATIBLE WITH THE PIPE AND SHALL BE SILT TIGHT.
- ANY RD OR SD LATERAL CONSTRUCTED IN ADVANCE OF THE DRAIN TO WHICH IT IS DESIGNED TO CONNECT SHALL BE TEMPORARILY PLUGGED AND MARKED WITH A WOOD END STAKE TO PREVENT THE ENTRY OF DEBRIS INTO THE SYSTEM, AND TO FACILITATE LOCATING THE LATERAL AT A LATER TIME.

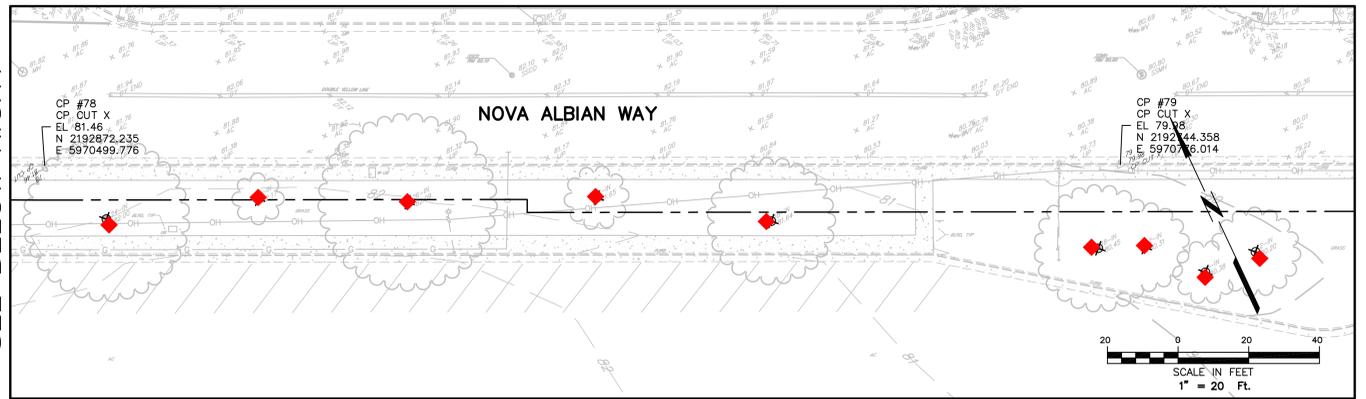
FIRE PROTECTION NOTES (NFPA 2016 EDITION)

- NFPA 24 SEC. 10.1 ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD-COATED AND WRAPPED ASSEMBLY, FOR BURIED PIPE, GALVANIZED, INTERNALLY OR EXTERNALLY, DOES NOT MEET THE REQUIREMENTS OF THIS SECTION.
- NFPA 24 SEC. 10.4.1.1 ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH CHRISTY'S HD 50 COAL TAR MASTIC (OR APPROVED EQUAL) CORROSION-RETARDING MATERIAL, AFTER INSTALLATION.
- NFPA 24 SEC. 10.6.2.5 AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH CHRISTY'S HD 50 COAL TAR MASTIC (OR APPROVED EQUAL) CORROSION-RETARDING MATERIAL, AFTER INSTALLATION.
- NFPA 24 SEC. 10.10.2.1.1 UNDERGROUND PIPING FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD-IN CONNECTIONS TO THE SYSTEM RISER, SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSLOPE FIRE PROTECTION SYSTEM PIPING TO REMOVE FOREIGN MATERIALS THAT MAY HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION AND RUN UNTIL WATER RUNS CLEAR. NOTIFIED BY THE INSPECTOR OF THE RECORD. (LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FLUSH AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.)
- NFPA 24 SEC. 10.10.2.2.1 ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI PRESSURE AND MAINTAINED FOR A MINIMUM OF TWO HOURS, WITNESSED BY THE INSPECTOR OF RECORD. (LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF HYDRO-TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.)
- NFPA 24 SEC. 10.6 PRIVATE FIRE SERVICE MAINS SHALL BE RESTRAINED AGAINST MOVEMENT CHANGES IN DIRECTION IN ACCORDANCE WITH 10.6.1.2.2. IF CLAMPS OR RESTRAINT STRAPS ARE USED, THE SIZE SHALL BE AS SPECIFIED IN TABLE 10.6.2.2.3 AND TABLE 10.6.2.2.3.
- NFPA 24 SEC. 10.6.1.2.1.1 UNDERGROUND PIPING FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD-IN CONNECTIONS TO THE SYSTEM RISER, SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSLOPE FIRE PROTECTION SYSTEM PIPING TO REMOVE FOREIGN MATERIALS THAT MAY HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION AND RUN UNTIL WATER RUNS CLEAR. NOTIFIED BY THE INSPECTOR OF THE RECORD. (LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FLUSH AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.)
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- NFPA 24 SEC. 10.6.1.2.1.1 UNDERGROUND PIPING FROM THE



NOTE
INSTALL PORTABLE CHAIN LINK FENCE PANELS AS TEMPORARY TREE PROTECTION FENCING AT LOCATIONS SHOWN ON PLANS.
TEMPORARY TREE PROTECTION FENCE
NOT TO SCALE

SEE BELOW RIGHT



DEMOLITION NOTES

- A SAWCUT EXISTING IMPROVEMENTS.
- B EXISTING BUILDING TO REMAIN. PROTECT IN PLACE.
- C REMOVE EXISTING BUILDING IN ITS ENTIRETY, INCLUDING SLAB-ON-GRADE AND FOUNDATIONS/FOOTINGS AND PROPERLY DISPOSE OF THEM OFFSITE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- D REMOVE EXISTING WALKWAY CANOPY, INCLUDING COLLUMNS AND FOUNDATIONS/FOOTINGS, AND PROPERLY DISPOSE OF OFFSITE. REFER TO ARCHITECTURAL DRAWINGS FOR LIMITS OF DEMOLITION AND ANY ADDITIONAL REQUIREMENTS.
- E EXISTING WALKWAY CANOPY TO REMAIN. PROTECT IN PLACE.
- F REMOVE EXISTING STORM DRAIN INLET AND PROPERLY DISPOSE OF OFFSITE. CAP EXISTING STORM DRAIN TO REMAIN AND PROTECT IN PLACE.

LEGEND

- XXXXXX UTILITY PIPES AND STRUCTURES TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. CUT AND CAP PORTIONS OF THE UTILITIES TO REMAIN. CONTRACTOR MAY ABANDON IN PLACE THOSE PORTIONS OF THE UTILITY THAT DO NOT CONFLICT WITH THE PROPOSED IMPROVEMENTS. REFER TO SPECIFICATIONS SECTION 31 1000 FOR ABANDONMENT REQUIREMENTS. SEE PLAN FOR SIZE AND TYPE.
- [Hatched Box] REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, ASPHALT AND CONCRETE, CURBS, BASE MATERIAL, FENCE/GATES, HEADBOARDS, BENCHES AND WALKWAY CANOPIES, WALLS, ETC WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED. AT THE CONTRACTOR'S OPTION, NON-CONTAMINATED BASE MATERIAL MAY BE STOCKPILED FOR REUSE ONSITE AS BASE MATERIAL FOR HARDSCAPE AREAS ONLY (NON-BUILDING AREAS).
- [Hatched Box] REMOVE ALL VEGETATION, INCLUDING, BUT NOT LIMITED TO, PLANTS, SHRUBS, ETC. WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED.
- [Hatched Box] ALL TURF SHALL BE STRIPPED 4" IN DEPTH AND DISPOSED OF PROPERLY OFFSITE. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS, INCLUDING IRRIGATION PIPING AND SYSTEM COMPONENTS.
- [X] TREE TO BE REMOVED.
- [Triangle] TREE TO BE SAVED.
- [Dashed Line] INSTALL TREE PROTECTION FENCING PER DETAIL THIS SHEET.

REFER TO ARCHITECTURAL, LANDSCAPE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

TREE PRESERVATION AND PROTECTION NOTES

1. PRE-CONSTRUCTION MEETING: IT IS IMPORTANT THAT CONSTRUCTION CREWS UNDERSTAND TREE PROTECTION REQUIREMENTS. PERSONNEL WORKING ON-SITE SHOULD BE PROVIDED WITH AN ORIENTATION TO TREE PRESERVATION MEASURES AND MONITORING FOR TREE PRESERVATION.
2. APPRAISED VALUE:
 - A. IF A TREE IS DAMAGED, A CERTIFIED ARBORIST DETERMINES THE TREE APPRAISAL VALUE BY ADJUSTING THE TREE'S BASIC VALUE BY ITS CONDITION, LOCATION AND SPECIES USING THE MOST RECENT EDITION OF THE GUIDE FOR PLANT APPRAISAL. THE FORMULA USED SHOULD BE NOTED.
 - B. REFER TO THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS, CURRENT EDITION, GUIDE FOR PLANT APPRAISAL, CHAMPAIGN, IL: INTERNATIONAL SOCIETY OF ARBORICULTURE.
3. TREE PROTECTION ZONE (TPZ): EACH TREE TO BE PROTECTED SHALL HAVE A DESIGNATED TPZ IDENTIFYING THE AREA SUFFICIENTLY LARGE ENOUGH TO PROTECT THE TREE, ROOTS AND SOIL FROM DISTURBANCE. THE TPZ IS DEFINED AS THE AREA UNDER THE TREE CANOPY AND EXTENDING TO 1'-0" PAST THE DRIPLINE OF THE TREE. FOR EXAMPLE, A TREE WITH A CANOPY 25' WIDE IN DIAMETER WOULD HAVE A TPZ OF 27' WIDE. ANY DEVIATION IN DETERMINING THE TPZ WILL REQUIRE APPROVAL BY THE CONSTRUCTION MANAGER. SEE TREE PROTECTION DETAIL.
4. PROTECTIVE TREE FENCING FOR TREES: FENCED ENCLOSURES SHALL BE ERRECTED AROUND TREES TO BE PROTECTED TO ESTABLISH THE TPZ IN WHICH NO SOIL OR ROOT DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED. MAINTAIN TPZ FREE OF WEEDS AND TRASH.
 - A. SIZE AND TYPE OF FENCE: ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH A 6" HIGH, MINIMUM 11 GAUGE CHAIN LINK FENCE. MOUNT FENCES ON 2-INCH DIAMETER GALVANIZED STEEL POSTS MOUNTED ON SUPPORT FEET.
 - B. DURATION: TREE FENCING SHALL BE ERRECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND SHALL REMAIN IN PLACE THROUGH CONSTRUCTION.
 - C. TREE PROTECTION SIGN: A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH FENCE. SIGN SHALL NOT BE LESS THAN 12" X 12" AND SHALL READ: "TREE PROTECTION FENCE. DO NOT REMOVE OR RELOCATE WITHOUT AUTHORIZATION."
 - D. PLACEMENT: TREE PROTECTION FENCE SHALL BE LOCATED 1'-0" OUTSIDE THE TREE DRIPLINE OR AS OTHERWISE SHOWN ON PLAN. A TREE PROTECTION FENCE LOCATED WITHIN THE TPZ SHALL NOT EXEMPT THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE TPZ FOR THE ENTIRE LIMITS OF THE TPZ.
 - E. TEMPORARY REMOVAL OR RELOCATION: RELOCATION OR REMOVAL FOR CONSTRUCTION REQUIRES AUTHORIZATION AND IS PERMITTED ONLY AS REQUIRED FOR CONSTRUCTION. FENCE MUST BE RESTORED TO ORIGINAL LOCATION AS SOON AS PRACTICAL AS CONSTRUCTION ACTIVITIES PERMIT.
5. ACTIVITIES PROHIBITED WITHIN THE TPZ INCLUDE:
 - A. STORAGE OF PARKED VEHICLES, BUILDING MATERIALS, REFUSE, EXCAVATED SPILLS OR DUMPING OF PESTICIDES, INCLUDING BUT NOT LIMITED TO PAINTS, PETROLEUM PRODUCTS, CONCRETE, STUCCO MIX OR DIRTY WATER.
 - B. THE USE OF TREE TRUNKS AS A WINCH SUPPORT, ANCHORAGE, AS A TEMPORARY POWER POLE, SIGN POSTS OR OTHER SIMILAR FUNCTION.
 - C. CUTTING OF TREE ROOTS BY UTILITY TRENCHING, FOUNDATION DIGGING, PLACEMENT OF CURBS AND TRENCHES AND OTHER MISCELLANEOUS EXCAVATION.
 - D. SOIL DISTURBANCE, SOIL COMPACTION OR GRADE CHANGES.
 - E. DRAINAGE CHANGES.
 - F. FIRES.
6. ACTIVITIES PERMITTED OR REQUIRED WITHIN THE TPZ INCLUDE:
 - A. MULCHING - DURING CONSTRUCTION, IT IS RECOMMENDED THAT WOOD CHIPS OR SIMILAR MATERIAL BE SPREAD WITHIN THE TPZ TO A 2-INCH DEPTH, LEAVING THE TRUNK CLEAR OF MULCH.
 - B. ROOT BUFFER - WHEN AREAS WITHIN THE TPZ CANNOT BE FENCED, A ROOT BUFFER IS REQUIRED AND SHALL COVER THE ROOT ZONE.
 - C. IRRIGATION, AERATION, FERTILIZING OR OTHER BENEFICIAL PRACTICES THAT HAVE BEEN SPECIFICALLY APPROVED FOR USE BY THE LANDSCAPE ARCHITECT WITHIN THE TPZ.
 - D. EXISTING IRRIGATION IS TO BE MAINTAINED AND OPERATED 100% DURING CONSTRUCTION. SEE IRRIGATION PLANS.
7. ROOT BUFFER SHALL BE DEFINED AS: A TEMPORARY LAYER OF MATERIAL TO PROTECT THE SOIL TEXTURE AND ROOTS. THE BUFFER SHALL CONSIST OF A BASE COURSE OF BARK OR WOOD CHIPS SPREAD OVER THE ROOT AREA, KEEPING ONE FOOT CLEAR OF THE TRUNK, CLEAR, TO A 4" DEPTH, CAPPED BY A BASE COURSE OF 3/4-INCH QUARRY GRAVEL TO STABILIZE A 3/4" PLYWOOD ON TOP.
8. EROSION CONTROL: IF A TREE IS ADJACENT TO OR IN THE IMMEDIATE PROXIMITY TO A GRADE SLOPE OF 8% (23 DEGREES) OR MORE, THEN APPROVED EROSION CONTROL OR SILT BARRIERS SHALL BE INSTALLED OUTSIDE THE TPZ TO PREVENT SILTATION AND/OR EROSION WITHIN THE TPZ.
9. TUNNELING AND DIRECTIONAL DRILLING: IF TRENCHING OR PIPE INSTALLATION HAS BEEN APPROVED WITHIN THE TPZ, THEN THE TRENCH SHALL BE EITHER CUT BY HAND, AIR SPADE OR BY MECHANICALLY BORING THE TUNNEL UNDER THE ROOTS WITH A HORIZONTAL DIRECTIONAL DRILL AND HYDRAULIC OR PNEUMATIC AIR EXCAVATION TECHNOLOGY. IN ALL CASES, INSTALL THE UTILITY PIPE, IMMEDIATELY BACKFILL WITH SOIL AND SOAK WITHIN THE SAME DAY.
10. TREE PRUNING AND SURGERY:
 - A. ROOT PRUNING: ROOT PROTECTION MEASURES MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. NECESSARY ROOT PRUNING IS BEST ACCOMPLISHED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES WHEN EXCAVATION EQUIPMENT WILL BE USED. AFTER BEING EXPOSED BY HAND OR AIR EXCAVATION, ROOTS ARE PRUNED UNDER ARBORIST SUPERVISION. CONSTRUCTION ACTIVITIES ARE THEN FREE TO OCCUR OUTSIDE OF THE ROOT PRUNING BOUNDARY.
 - B. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS. CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF UTILITIES. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
10. TREE REMOVAL PROCEDURE: TREES MAY ONLY BE REMOVED IF SPECIFICALLY NOTED ON PLAN OR APPROVED FOR REMOVAL BY THE OWNER. WHEN TREES ARE REMOVED, TREE REMOVAL PRACTICES APPLY:
 - A. ANY TREE TO BE REMOVED THAT MAY IMPACT A PROTECTED TREE SHALL BE DONE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.
 - B. THE REMOVAL OF TREES THAT EXTEND INTO THE BRANCHES OR ROOTS OF PROTECTED TREES SHALL NOT BE ATTEMPTED BY DEMOLITION OR CONSTRUCTION PERSONNEL, GRADING OR OTHER HEAVY EQUIPMENT. A CERTIFIED ARBORIST OR CERTIFIED TREE WORKER SHALL REMOVE OR OVERSEE THE REMOVAL OF THE TREE IN A MANNER THAT CAUSES NO DAMAGE ABOVE OR BELOW GROUND TO TREES THAT SHALL REMAIN.
11. SUPPLEMENTAL IRRIGATION: PROVIDE SUPPLEMENTAL IRRIGATION, AS REQUIRED, BASED ON THE LEVEL OF ROOT LOSS, SOIL CONDITIONS, TREE HEALTH AND TIME OF YEAR.

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PRELIMINARY
NOT FOR CONSTRUCTION
DATE 07-08-20

Terra Linda High School
Increment 1

New Gym & Frontage Improvements

320 Nova Alban Way
San Rafael, CA 94903

San Rafael City Schools

ARCH PROJECT NO: 1854.002528.10
DRAWN BY: PIT
DRAWING SCALE: AS SHOWN
PTN: #00000-00

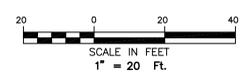
90% DD
JULY 10, 2020
SHEET TITLE

DEMOLITION PLAN

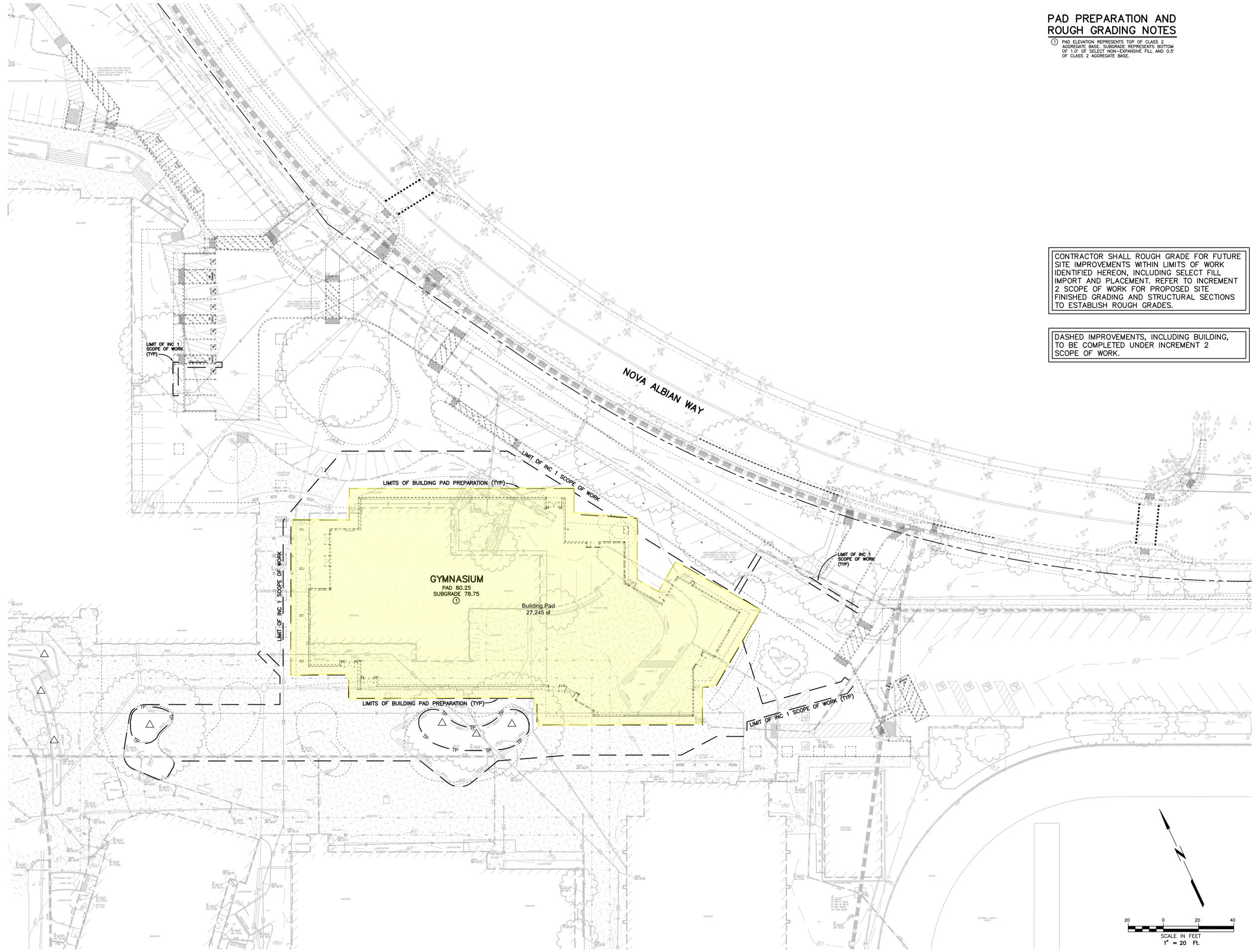
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C-1.1

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SEE ABOVE MIDDLE



**PAD PREPARATION AND
ROUGH GRADING NOTES**

① PAD ELEVATION REPRESENTS TOP OF CLASS 2 AGGREGATE BASE. SUBGRADE REPRESENTS BOTTOM OF 1.0' OF SELECT NON-EXPANSIVE FILL AND 0.5' OF CLASS 2 AGGREGATE BASE.

CONTRACTOR SHALL ROUGH GRADE FOR FUTURE SITE IMPROVEMENTS WITHIN LIMITS OF WORK IDENTIFIED HEREON, INCLUDING SELECT FILL IMPORT AND PLACEMENT. REFER TO INCREMENT 2 SCOPE OF WORK FOR PROPOSED SITE FINISHED GRADING AND STRUCTURAL SECTIONS TO ESTABLISH ROUGH GRADES.

DASHED IMPROVEMENTS, INCLUDING BUILDING, TO BE COMPLETED UNDER INCREMENT 2 SCOPE OF WORK.



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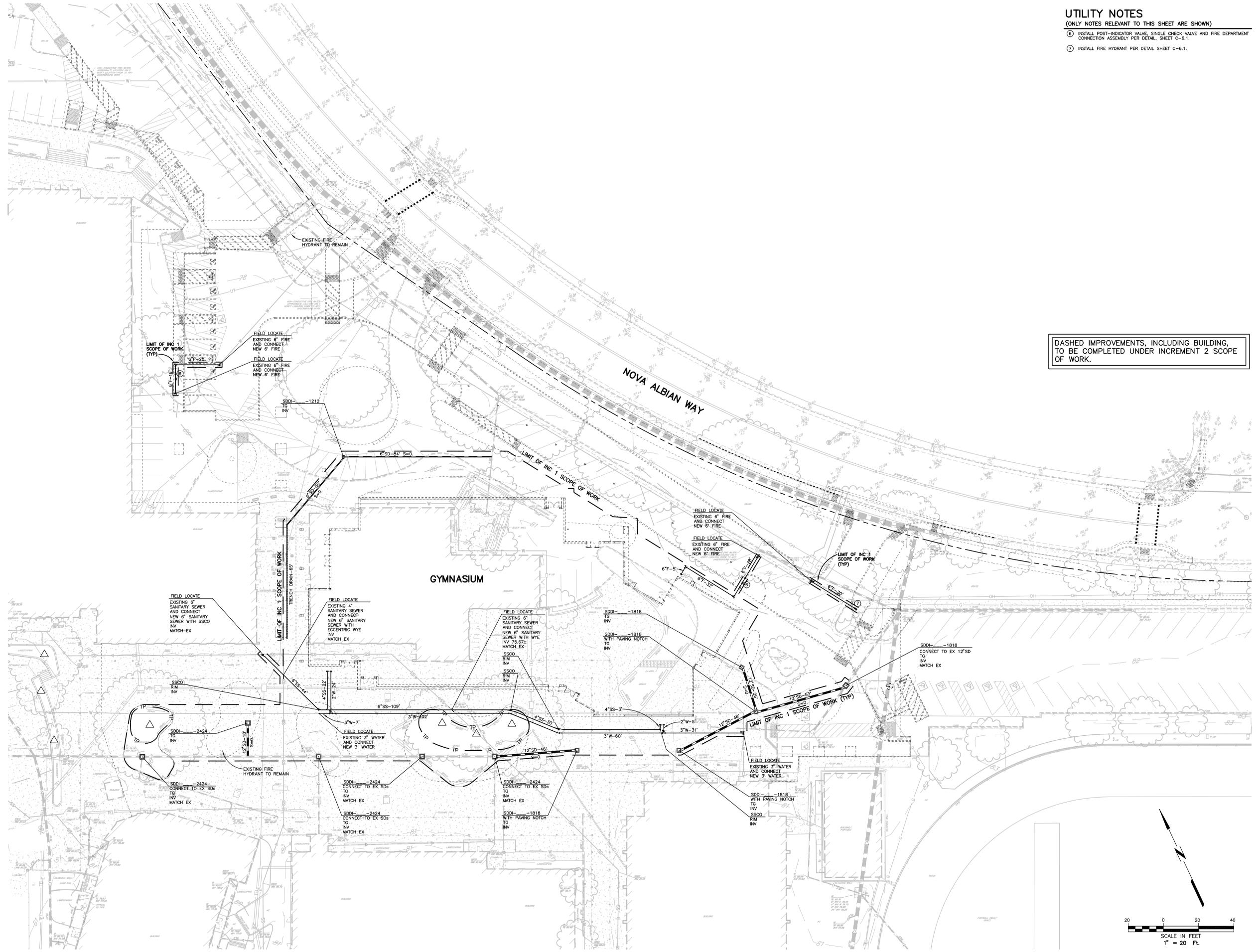
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**PAD
PREPARATION &
ROUGH GRADING
PLAN**

SHEET NUMBER

C-2.1

07-08-20 erickson \s2528.dwg 10/25/20 10 P:\A\A.dwg



UTILITY NOTES
 (ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)
 ⑥ INSTALL POST-INDICATOR VALVE, SINGLE CHECK VALVE AND FIRE DEPARTMENT CONNECTION ASSEMBLY PER DETAIL SHEET C-6.1.
 ⑦ INSTALL FIRE HYDRANT PER DETAIL SHEET C-6.1.

DASHED IMPROVEMENTS, INCLUDING BUILDING, TO BE COMPLETED UNDER INCREMENT 2 SCOPE OF WORK.

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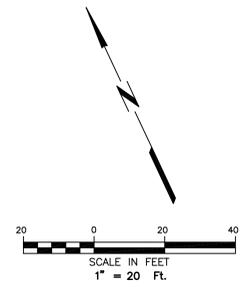
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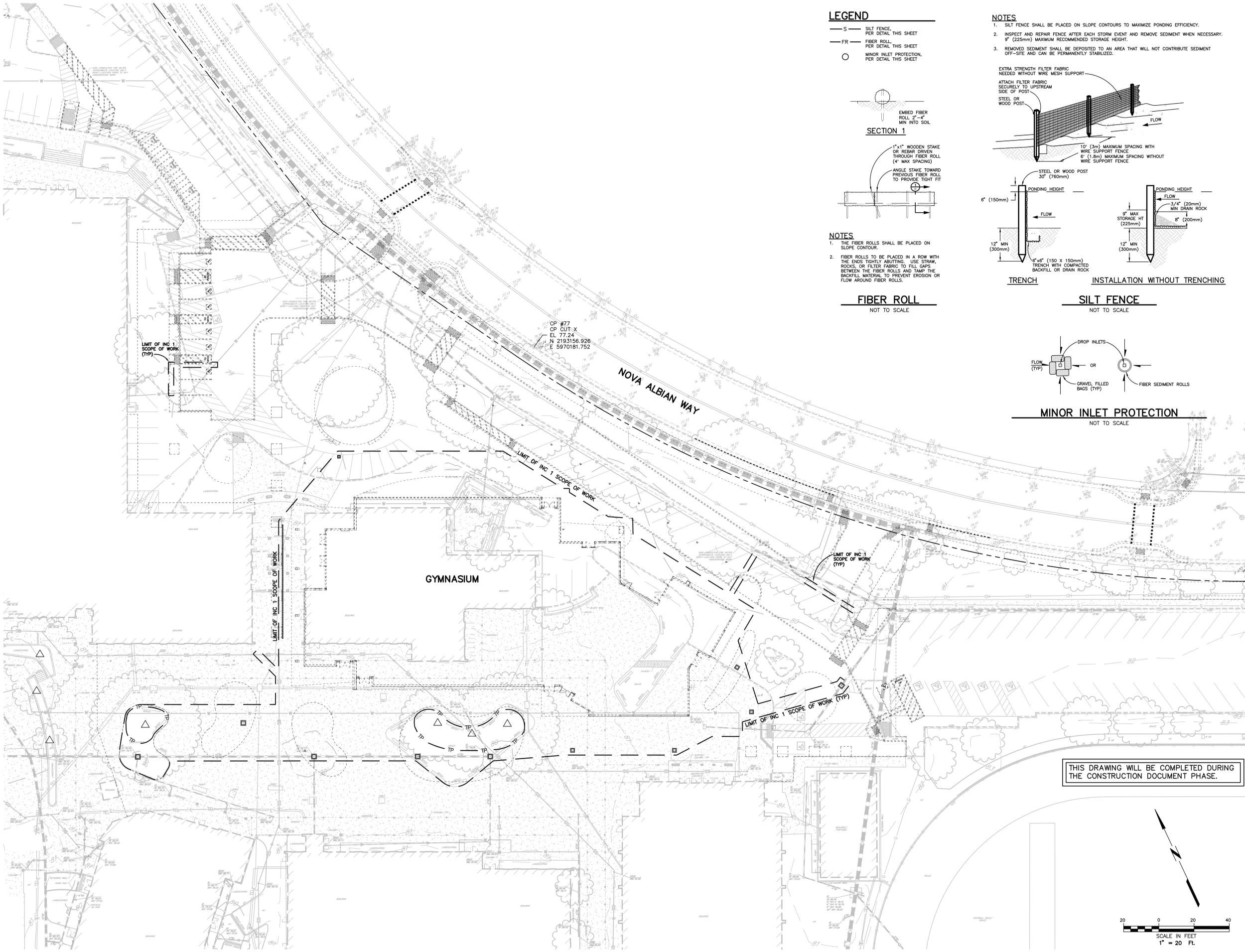
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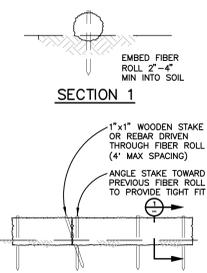
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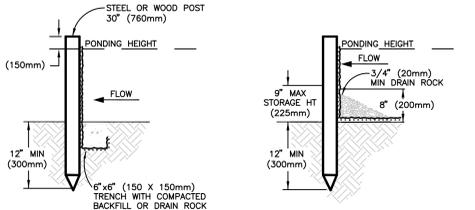
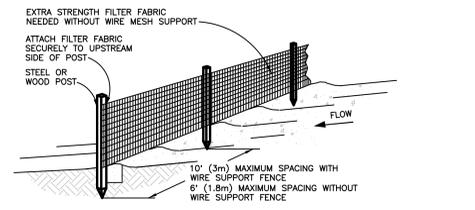
- LEGEND**
- S — SILT FENCE, PER DETAIL THIS SHEET
 - FR — FIBER ROLL, PER DETAIL THIS SHEET
 - MINOR INLET PROTECTION, PER DETAIL THIS SHEET



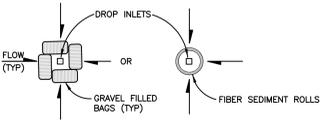
- NOTES**
1. THE FIBER ROLLS SHALL BE PLACED ON SLOPE CONTOUR.
 2. FIBER ROLLS TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ADJUTING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL GAPS BETWEEN THE FIBER ROLLS AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND FIBER ROLLS.

FIBER ROLL
NOT TO SCALE

- NOTES**
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 2" (25mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

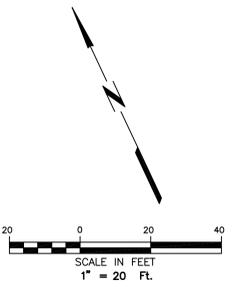


TRENCH
INSTALLATION WITHOUT TRENCHING
SILT FENCE
NOT TO SCALE



MINOR INLET PROTECTION
NOT TO SCALE

THIS DRAWING WILL BE COMPLETED DURING THE CONSTRUCTION DOCUMENT PHASE.



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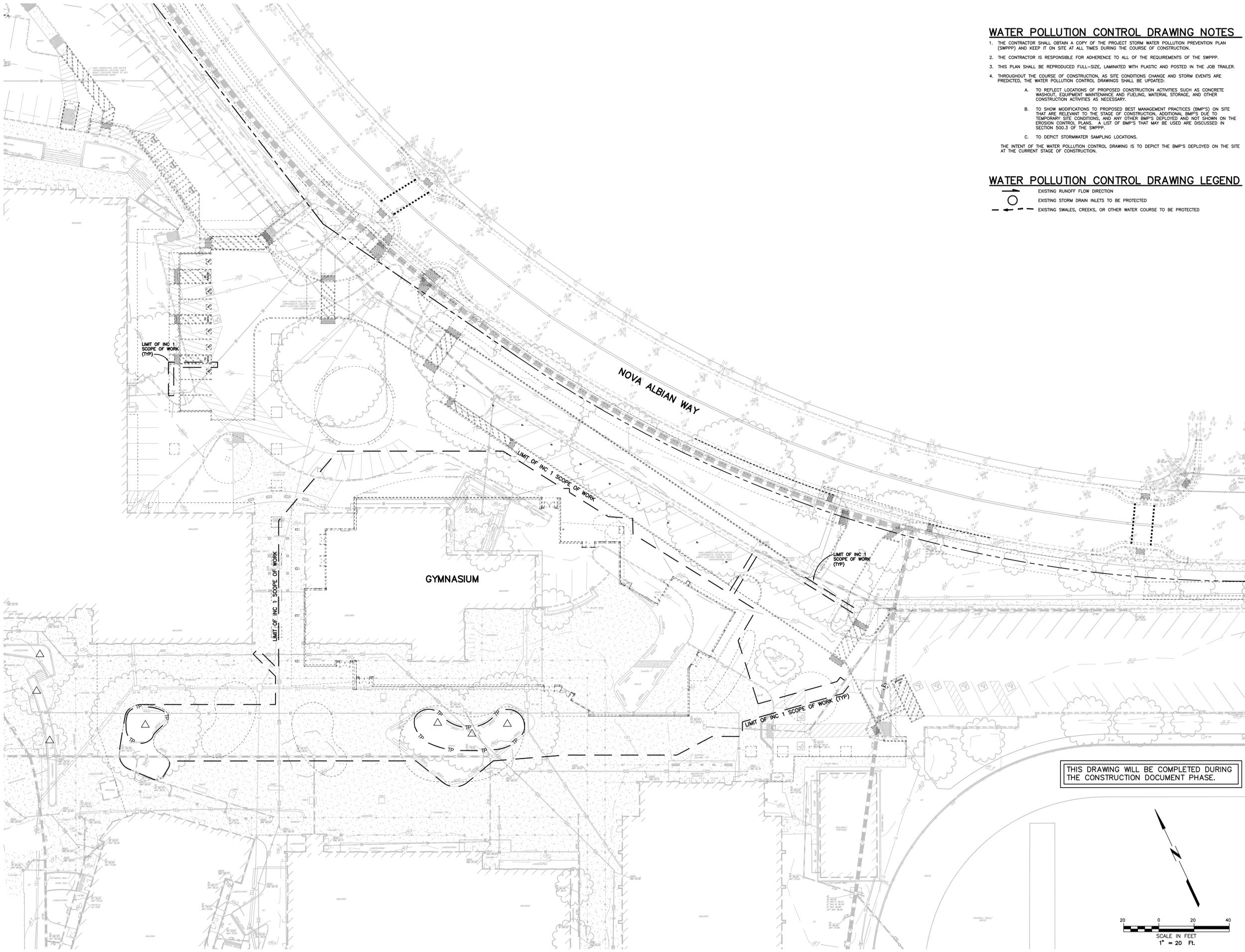
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ARCH PROJECT NO: 1854.002528.10
DRAWN BY: PIT
DRAWING SCALE: AS SHOWN
PTN: #00000-00
90% DD
JULY 10, 2020
SHEET TITLE

EROSION CONTROL & LAYOUT PLAN

SHEET NUMBER
C-4.1

07-08-20 erickson \s2528.dwg 10/25/20 10:10:10 P:\A\A.dwg



WATER POLLUTION CONTROL DRAWING NOTES

1. THE CONTRACTOR SHALL OBTAIN A COPY OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND KEEP IT ON SITE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.
 2. THE CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL OF THE REQUIREMENTS OF THE SWPPP.
 3. THIS PLAN SHALL BE REPRODUCED FULL-SIZE, LAMINATED WITH PLASTIC AND POSTED IN THE JOB TRAILER.
 4. THROUGHOUT THE COURSE OF CONSTRUCTION, AS SITE CONDITIONS CHANGE AND STORM EVENTS ARE PREDICTED, THE WATER POLLUTION CONTROL DRAWINGS SHALL BE UPDATED:
 - A. TO REFLECT LOCATIONS OF PROPOSED CONSTRUCTION ACTIVITIES SUCH AS CONCRETE WASHOUT, EQUIPMENT MAINTENANCE AND FUELING, MATERIAL STORAGE, AND OTHER CONSTRUCTION ACTIVITIES AS NECESSARY.
 - B. TO SHOW MODIFICATIONS TO PROPOSED BEST MANAGEMENT PRACTICES (BMP'S) ON SITE THAT ARE RELEVANT TO THE STAGE OF CONSTRUCTION, ADDITIONAL BMP'S DUE TO TEMPORARY SITE CONDITIONS, AND ANY OTHER BMP'S DEPLOYED AND NOT SHOWN ON THE EROSION CONTROL PLANS. A LIST OF BMP'S THAT MAY BE USED ARE DISCUSSED IN SECTION 500.3 OF THE SWPPP.
 - C. TO DEPICT STORMWATER SAMPLING LOCATIONS.
- THE INTENT OF THE WATER POLLUTION CONTROL DRAWING IS TO DEPICT THE BMP'S DEPLOYED ON THE SITE AT THE CURRENT STAGE OF CONSTRUCTION.

WATER POLLUTION CONTROL DRAWING LEGEND

- EXISTING RUNOFF FLOW DIRECTION
- EXISTING STORM DRAIN INLETS TO BE PROTECTED
- EXISTING SWALES, CREEKS, OR OTHER WATER COURSE TO BE PROTECTED



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PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE 07-08-20

Terra Linda High School
Increment 1

New Gym & Frontage Improvements

320 Nova Alban Way
 San Rafael, CA 94903

San Rafael City Schools

THIS DRAWING WILL BE COMPLETED DURING THE CONSTRUCTION DOCUMENT PHASE.

ARCH PROJECT NO: 1854.002/2528.10
 DRAWN BY: PIT
 DRAWING SCALE: AS SHOWN
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WATER POLLUTION CONTROL DRAWING

SHEET NUMBER

C-5.1



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PRELIMINARY
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 Increment 1

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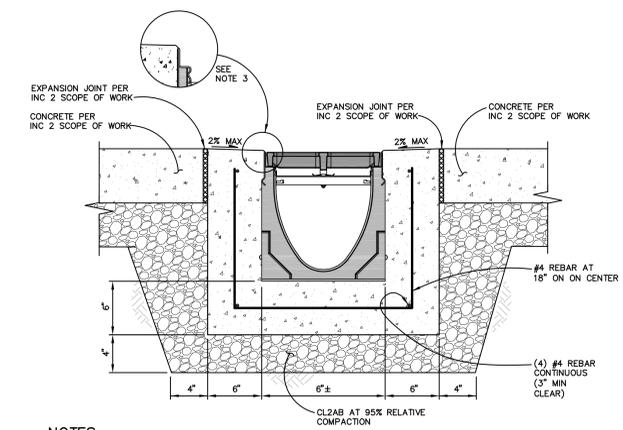
San Rafael City Schools

ARCH PROJECT NO: 1854.002/2528.10
 DRAWN BY: PIT
 DRAWING SCALE: AS SHOWN
 P/TN: *****
 90% DD
 JULY 10, 2020
 SHEET TITLE

DETAILS

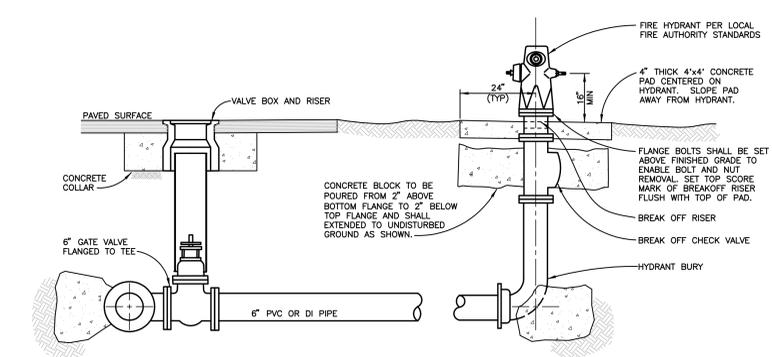
SHEET NUMBER

C-6.1



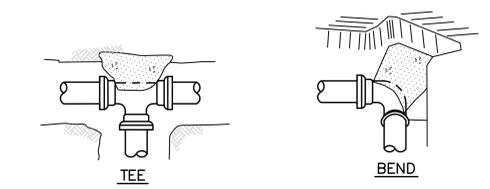
- NOTES**
- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS ARE ACHIEVED.
 - MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
 - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROXIMATE 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
 - REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

TRENCH DRAIN (K100-KLASSIKDRAIN)
 NOT TO SCALE

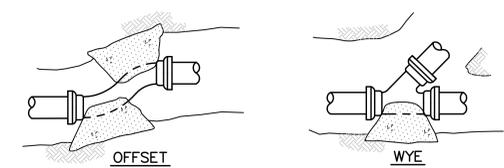


- NOTES**
- HYDRANT PAD SHALL BE SLOPED AWAY FROM HINGE POINT IN CUT SLOPE AREAS.
 - RESTRAINED JOINTS ARE REQUIRED FROM GATE VALVE TO HYDRANT BURY.
 - BLUE REFLECTIVE PAVEMENT MARKERS SHOULD BE PLACED 6 INCHES FROM THE CENTER LINE STRIPE, OR APPROXIMATE CENTER OF THE PAVEMENT WHERE THERE IS NO CENTER LINE STRIPE, ON THE SIDE NEAREST THE FIRE HYDRANT.
 - FINISHED GRADING TO DRAIN AWAY FROM HYDRANT.
 - TRACER WIRE SHALL BE INSTALLED FROM VALVE TO HYDRANT.

FIRE HYDRANT
 NOT TO SCALE



TYPICAL CONC. BLOCKING SHOWN IN PERSPECTIVE



OFFSET

WYE

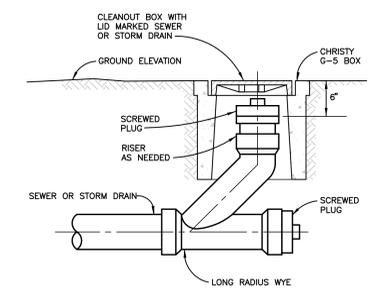
NOTES

- SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.
- CONCRETE BLOCKING, CAST-IN-PLACE, TO EXTEND FROM BELLS OF FITTINGS TO UNDISTURBED SOIL AND ENTIRE BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
- IN USING THE THRUST BLOCKING TABLE, ASSUME 1000 P.S.F. BEARING CAPACITY UNLESS OTHERWISE SHOWN ON THE PLANS. THE DESIGN ENGINEER SHALL SPECIFY THRUST BLOCKING REQUIREMENTS FOR ALL OTHER SOIL BEARING CONDITIONS.
- FOR PLUGGED LEG(S) OF TEE OR CROSS, USE HARNESS TYPE BLOCKING AND CONCRETE BLOCKING INDICATED IN TABLE.

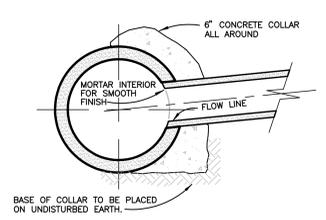
MIN REQUIRED BEARING AREA IN SF FOR 200 PSI TEST PRESSURE						
PIPE SIZE	SOIL BEARING CAPACITY	HARNESS BLOCKS	TEES & DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS
6"	1000	8	8	12	6	4
8"	1000	14	14	20	10	6
12"	1000	32	32	44	24	12
14"	1000	44	44	60	32	36
18"	1000	56	56	84	42	28

* BEARING AREA BELOW BOTTOM OF TRENCH AGAINST UNDISTURBED GROUND.

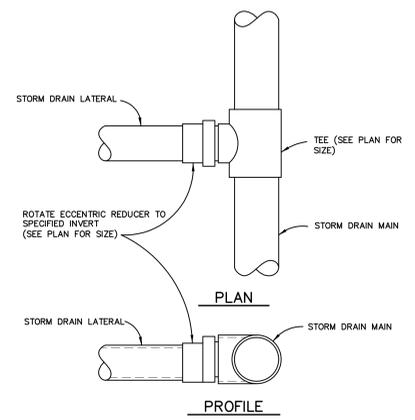
CONCRETE THRUST BLOCKING
 NOT TO SCALE



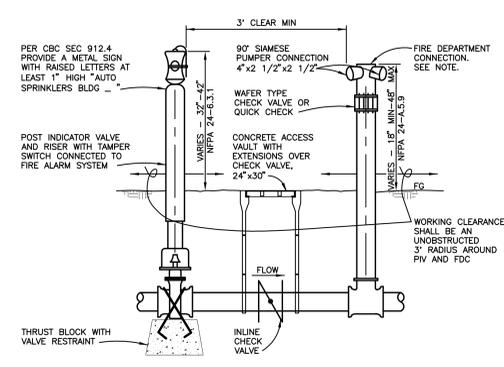
SSCO/SDCO
 NOT TO SCALE



BLIND CONNECT (NEW SD TO OLD SD)
 NOT TO SCALE

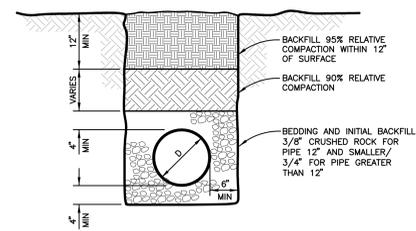


BLIND CONNECTION (NEW SD TO NEW SD)
 NOT TO SCALE

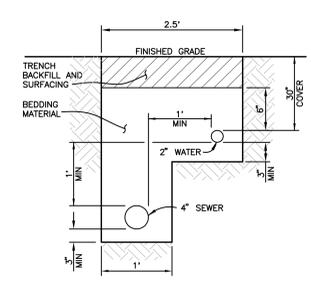


NOTE
 ABOVE GRADE PIPE SHALL BE GALVANIZED AND BELOW GRADE PIPE SHALL BE DUCTILE IRON.

PIV/CV/FDC
 NOT TO SCALE



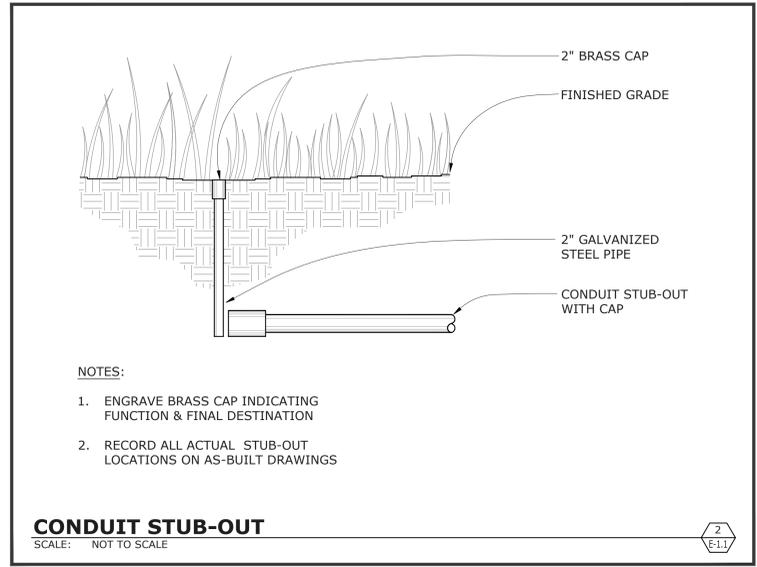
STANDARD TRENCH
 NOT TO SCALE



NOTE
 1. TRENCH SHALL BE "STEPPED" AS SHOWN.

SHARED TRENCH
 NOT TO SCALE

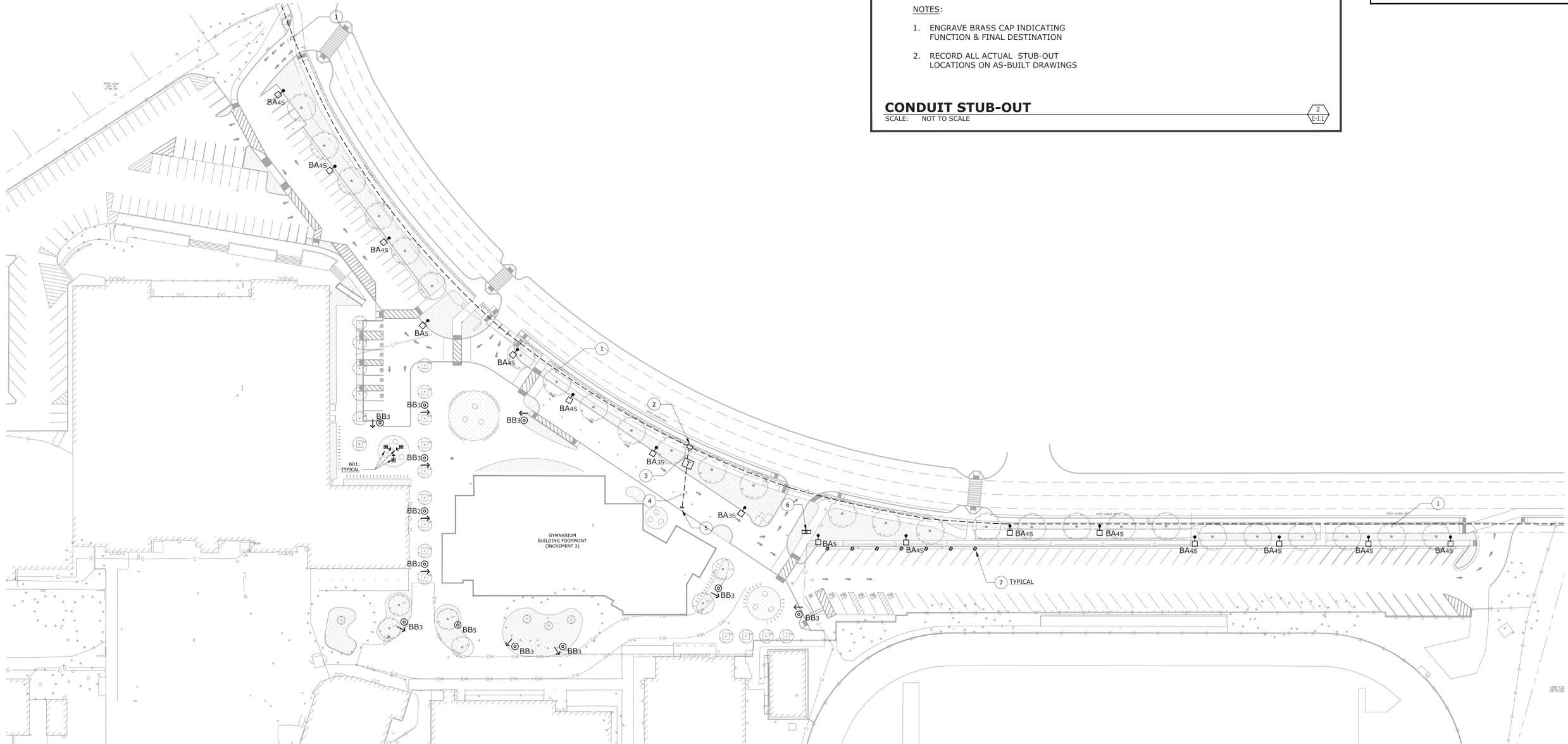
07-08-20 erickson \\s26a\dwg\2528 10\2528.10 DETAIL.dwg TAB: Inc1 C-6.1 DETAIL



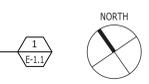
- NOTES:
1. ENGRAVE BRASS CAP INDICATING FUNCTION & FINAL DESTINATION
 2. RECORD ALL ACTUAL STUB-OUT LOCATIONS ON AS-BUILT DRAWINGS

CONDUIT STUB-OUT
SCALE: NOT TO SCALE

- NUMBERED SHEET NOTES**
- 1 APPROXIMATE ROUTE OF NEW UNDERGROUND PUBLIC UTILITY LINES, INSTALLED UNDER FRONTAGE PORTION OF WORK.
 - 2 (N) PG&E UNDERGROUND PRIMARY 3-WAY JUNCTION VAULT FOR (N) SERVICE EXTENSION.
 - 3 PROVIDE AND INSTALL (1) 4" SCHEDULE 40 PVC UNDERGROUND PRIMARY SERVICE CONDUIT BETWEEN PG&E VAULT AND PG&E TRANSFORMER PAD PRIMARY WINDOW.
 - 4 PROVIDE AND INSTALL (1) 5" SCHEDULE 40 PVC UNDERGROUND SECONDARY SERVICE CONDUIT BETWEEN PG&E TRANSFORMER PAD SECONDARY WINDOW AND STUB-OUT LOCATION SHOWN. SEE NOTE 5.
 - 5 STUB-OUT, CAP AND MARK FOR EXTENSION TO NEW GYM BUILDING ELECTRIC SERVICE UNDER INCREMENT 2 WORK. SEE 2.E-1.1.
 - 6 (E) PAD MOUNTED EV CHARGING STATION EQUIPMENT, TO REMAIN. PROTECT IN PLACE.
 - 7 (E) EV CHARGERS, TO REMAIN. PROTECT IN PLACE.



SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"



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Terra Linda High School

New Gym & Frontage Improvements
SITE WORK
INCREMENT 1 OF 2

320 Nova Albion Way
San Rafael, CA 94903

San Rafael City Schools

REVISIONS

NO.	DESCRIPTION

ARCH PROJECT NO: 1854.00
DRAWN BY: LNTV/JJW
DRAWING SCALE: AS NOTED
PTN: #####-##
DESIGN DEVELOPMENT
JUNE 15, 2020
SHEET TITLE

SITE PLAN - ELECTRICAL

SHEET NUMBER
E-1.1