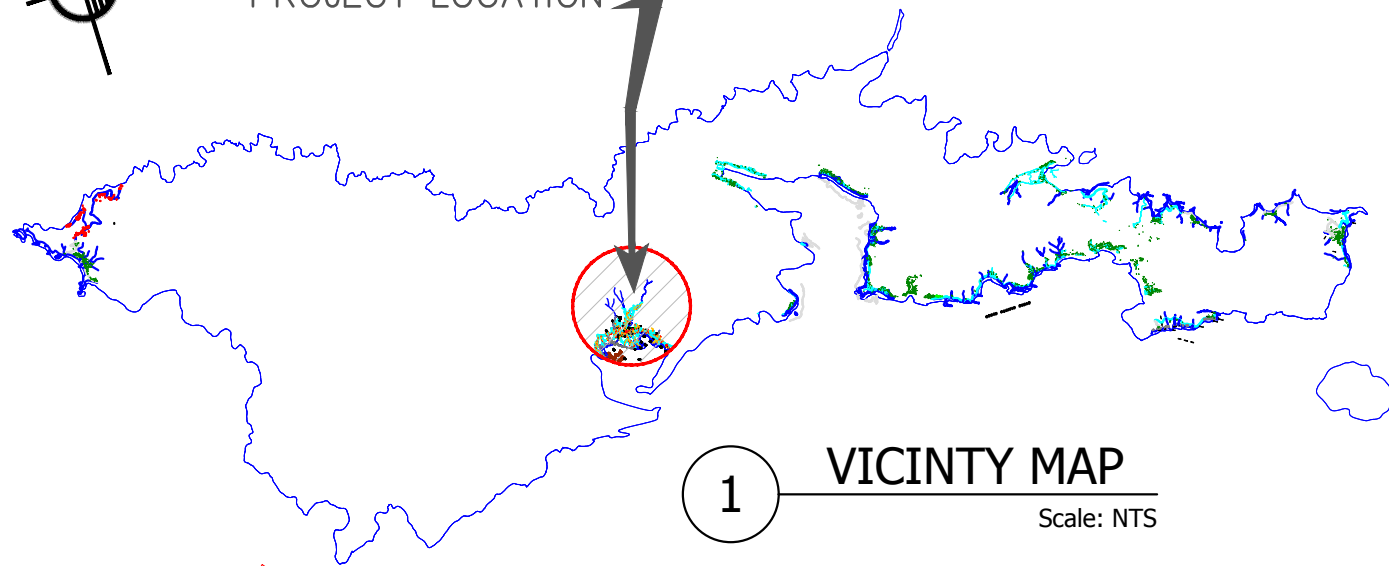


PROJECT LOCATION

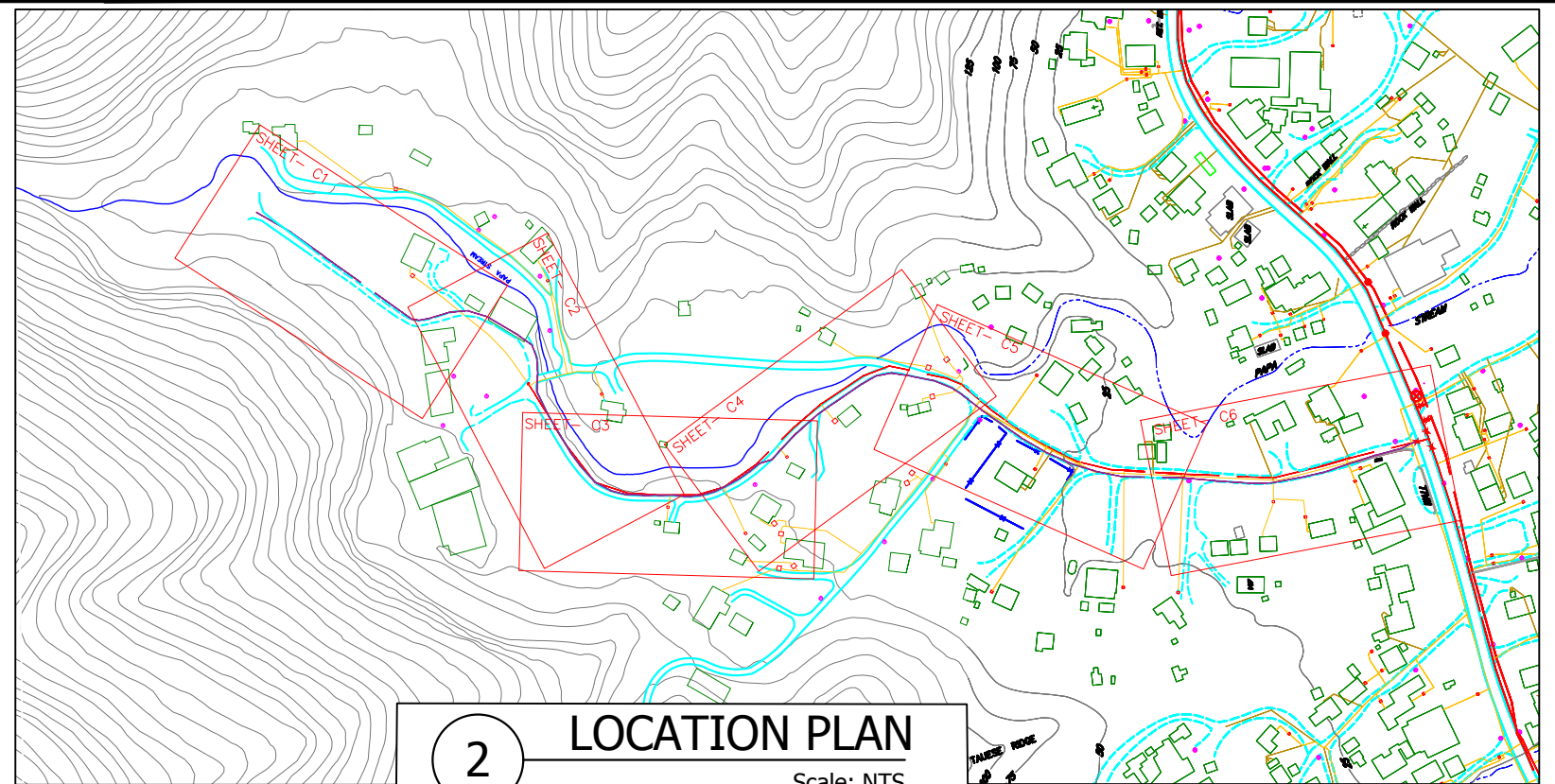
SOUTH PACIFIC OCEAN



1

VICINTY MAP

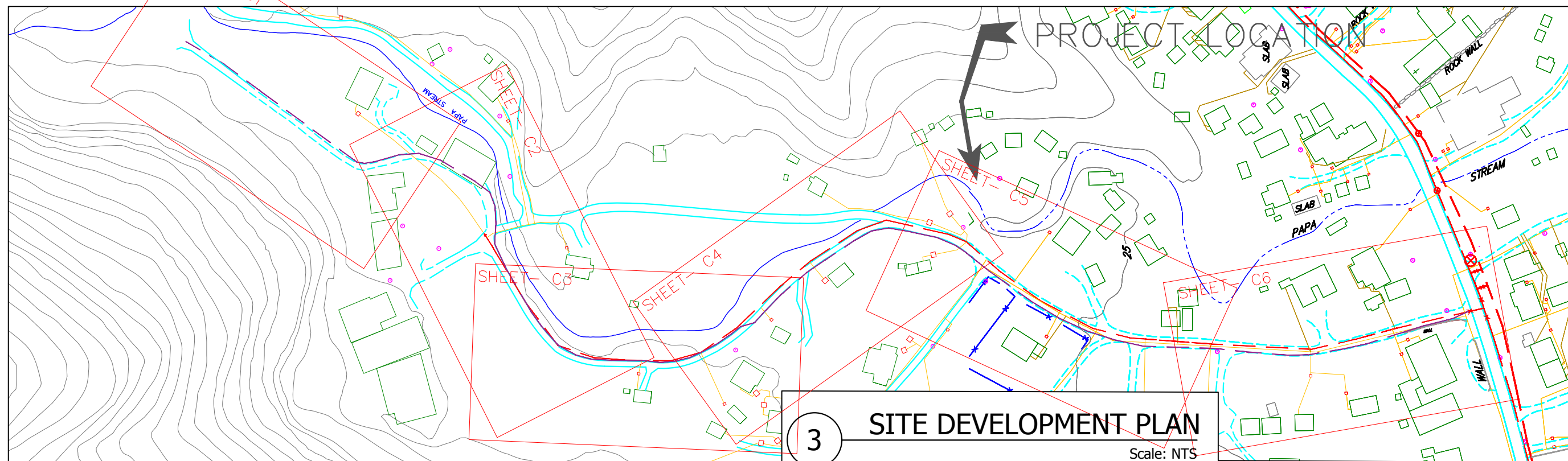
Scale: NTS



2

LOCATION PLAN

Scale: NTS



3

SITE DEVELOPMENT PLAN

Scale: NTS



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APPROVED BY:	ISSUE FOR: Construction
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AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: VICINTY MAP, LOCATION PLAN, AND SITE DEVELOPMENT PLAN		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. DATE: G1

WELL #24 CONNECTION PROJECT

TUTUILA ISLAND, AMERICAN SAMOA

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S10	FENCE SPECIFICATIONS & GENERAL NOTES		

ABBREVIATIONS:			
⊙	AT	PVC	POLYVINYL CHLORIDE PIPE
AFF	ABOVE FINISHED FLOOR	PE	POLYETHYLENE PIPE
AFG	ABOVE FINISHED GRADE	ACP	ASBESTOS CEMENT PIPE
AGG	AGGREGATE	GA	GAUGE
ARV	AIR/VAC RELEASE VALVE	GALV	GALVANIZED
BLDG	BUILDING	GR	GRADE
CB	CATCH BASIN	GV	GATEVALVE
CI	CAST IRON	HB	HOSE BIB
CL	CENTER LINE	HWY	HIGHWAY
CMP	CORRUGATED METAL PIPE	ID	INSIDE DIAMETER
CO	CLEAN OUT	INSUL	INSULATION
CONC	CONCRETE	INV	INVERT
CP	CONTROL POINT	IR	IRON ROD
DET	DETAIL	JT	JOINT
DIA	DIAMETER	LT	LEFT
DIM	DIMENSION	M	METER
DIP	DUCTILE IRON PIPE	MANUF	MANUFACTURED
DW	DRIVEWAY	MAX	MAXIMUM
E	EAST	MFR	MANUFACTURER
ELEV	ELEVATION	MH	MANHOLE
ELEC	ELECTRICAL	MIN	MINIMUM
EOL	END OF LINE	MISC	MISCELLANEOUS
EOP	EDGE OF PAYMENT	(N)	NEW
EQ	EQUAL	N	NORTH
FH	EXISTING	NIC	NOT IN CONTRACT
FIN	EXTERIOR	NO	NOT OPEN
FLR	FLOOR DRAIN	NC	NORMALLY CLOSED
FND	FIRE HYDRANT	NTS	NOT TO SCALE
FT	FINISHED	OC	ON CENTER
FTG	FLOOR	OD	OUTSIDE DIAMETER
PL	FOUND	OH	OVERHEAD
PROP	FEET	OSHA	OCCUPATIONAL SAFETY HEALTH ADMINISTRATION
	FOOTING	AS-EPA	AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY
	PROPERTY LINE		
	PROPOSED		



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CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
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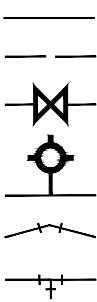


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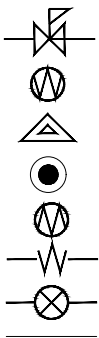
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TAFUNA, AMERICAN SAMOA
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: N.A.	PROJECT NO:
DRAWING TITLE: TABLE OF CONTENTS AND ABBREVIATIONS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. G2
		SIGNATURE: DATE:

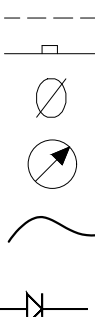
LEGEND:



WATER MAIN
EXISTING WATER MAIN
GATE VALVE
FIRE HYDRANT
ELBOW
TEE



ARV
EXISTING WELL
BENCH MARK
POWER POLE
WATER METER W/ BOX
WATER SERVICE LINE
GATE VALVE W/ BOX
PAVED ROAD



UNPAVED ROAD
SIGN POST
DIAMETER
PRESSURE GAUGE
CONTOUR LINE
PRV

UTILITY GENERAL NOTES:

1. EXISTING WATERLINE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE LOCATING EXISTING UTILITY WITH ASPA OR OWNERS OF UTILITY LINES PRIOR TO EXCAVATION WITH APPROPRIATE ADVANCE NOTIFICATION.

2. ABANDON EXISTING WATER MAIN AND SERVICES IN PLACE ONLY AFTER THE NEW WATER MAIN HAS BEEN DISINFECTED AND APPROVED BY THE AMERICAN SAMOA POWER AUTHORITY (ASPA) AND THE AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY.

3. ALL GATE VALVES ARE TO BE INSTALLED WITH VALVE BOXES PER DRAWINGS AND SPECIFICATIONS.

4. ALL FLUSH VALVES ARE TO BE INSTALLED IN VALVE BOXES PER DRAWINGS AND SPECIFICATIONS.

5. ALL STATION LOCATIONS ARE APPROXIMATE.

6. CONTRACTOR IS RESPONSIBLE FOR MEETING CONDITIONS OF THE PNRS LAND-USE PERMIT.

7. FOR CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, PNRS PERMIT REQUIREMENTS AND CONDITIONS SHALL APPLY, THEN SPECIFICATIONS, THEN DRAWINGS.

8. CONTRACTOR MUST CONFORM WITH ALL REQUIREMENTS OF THE OSHA STANDARD FOR EXCAVATION SAFETY (29 CFR 1926 SUBPART P). INCLUDED AMONG THE OSHA STANDARDS IS THE REQUIREMENT FOR PROTECTION OF WORKERS IN EXCAVATIONS 4 FEET OR GREATER IN DEPTH. PROTECTIVE SYSTEMS CAN BE SLOPING/BENCHING OF EXCAVATION WALLS, OR INSTALLATION OF SUPPORT/SHIELDING DEVICES. DESIGN OF PROTECTIVE SYSTEMS MUST BE BASED ON FIELD CLASSIFICATION OF THE SOIL BY A COMPETENT PERSON. PROTECTIVE SYSTEMS MUST BE IN ACCORDANCE WITH THE TABLES AND FIGURES SHOWN IN THE OSHA STANDARDS, OR MUST BE A MANUFACTURED PROTECTION SYSTEM USED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS, OR MUST BE A PROTECTION SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. THE CONTRACTOR SHOULD STUDY THE OSHA STANDARD FOR FURTHER DETAIL.

9. CONTRACTOR SHALL PROVIDE BOTH CONC. ANCHORS & CLAY DIKES AS REQUIRED BY THE ENGINEER AS FOLLOWS:

10%<SLOPE<15%: ONE EVERY 200 LINEAR FEET CLAY DIKES ONLY
15% OR GREATER SLOPES: EVERY 100 LINEAR FEET-CONC. ANCHORS & CLAY DIKES.

A.) CLAY DIKES SHALL EXTEND FOR THE FULL TRENCH WIDTH (USED FOR PIPE BEDDING AND COVER) AND HAVE A LENGTH OF 5 FEET. LOCATED IN THE MIDDLE OF PIPE LENGTH, AT LEAST 2 FEET FROM A PIPE JOINT. MATERIALS SHALL BE CLAY AS DESIGNATED "CL" AND DEFINED UNDER THE UNIFIED SOIL CLASSIFICATION SYSTEM.

B.) CONC. ANCHORS SHALL BE LOCATED AT THE DOWNSTREAM SIDE OF JOINTS, SHALL BE UN-REINFORCED AND SHALL BE MINIMUM OF TRENCH WIDTH, 3 FEET HIGH (REPLACING PIPE BEDDING AND COVER) AND 2 FEET THICK.

10. LEVEL SURVEY & TOPOGRAPHIC MAPS USED FOR PLAN SHEETS ARE DATED FEB. 2006, CONDUCTED BY ASG/SURVEY DEPT. BUILDINGS AND ROADWAYS WERE UPDATED BY AERIAL PHOTOGRAPHY DURING AUGUST/SEPTEMBER 1990. LOCATIONS, BUILDING LOCATIONS, AND OTHER FEATURES MAY HAVE CHANGED SINCE THE LAST MAP UPDATE.

11. UTILITIES KNOWN TO EXIST BY THE ENGINEER FROM RESEARCH OF THE AVAILABLE RECORDS ARE SHOWN ON THE DRAWINGS. NO RESPONSIBILITY IS CLAIMED FOR COMPLETENESS OR ACCURACY. PRIOR TO STARTING CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE FACILITIES INSTALLED UNDER THIS CONTRACT.

12. ELEVATIONS USED IN THE DRAWINGS ARE BASED ON 0.00 AT THE MEAN SEA LEVEL, HORIZONTAL COORDINATES ARE BASED ON THE AMERICAN SAMOA COORDINATE SYSTEM GRID.

13. PROVIDE, INSTALL, AND MAINTAIN SIGNS BARRICADES, MARKERS, CONES AND PROTECTIVE FACILITIES AND TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC DURING THE CONSTRUCTION OPERATIONS, CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF PUBLIC SAFETY AND THE DEPARTMENT OF PUBLIC WORKS IN REGARD TO TRAFFIC SAFETY WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. ALL TRAFFIC CONTROL PLANS MUST BE APPROVED BY DPS AND PUBLIC WORKS PRIOR TO START OF CONSTRUCTION.

14. MAINTAIN TWO-WAY TRAFFIC ON HIGHWAY AT ALL TIMES UNLESS PRIOR PERMISSION TO CLOSE ONE LANE IS OBTAINED FROM THE DEPARTMENT OF PUBLIC SAFETY. IF THE LANE CLOSURE IS REQUIRED, PROPER ADVANCE NOTICE TO PUBLIC VIA NORMAL PUBLICATION OR RADIO ANNOUNCEMENTS IS REQUIRED.

15. KEEP THE WORK SITE AND SURROUNDING AREAS FREE FROM DUST NUISANCE. DUST CONTROL, SEDIMENTATION CONTROL, AND ALL SUCH PLANS MUST BE APPROVED BY THE AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY PRIOR TO START OF CONSTRUCTION.

16. REMOVE ALL SILT AND DEBRIS RESULTING FROM THE WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS, AND OTHER AREAS WHEN NECESSARY. CONSTRUCT SILT FENCES AND OTHER EROSION CONTROL DEVICES AROUND THE WORK TO PREVENT DAMAGE TO STREAMS OR OTHER WATERWAYS.

17. BARRICADE OPEN EXCAVATIONS AND POST WITH WARNING LIGHTS. KEEP UNATTENDED EXCAVATIONS FREE OF WATER AND MAINTAIN SLOPING AND STABLE WALLS WHEN OVER 4 FEET DEEP. LEAVE A LADDER OR OTHER DEVICE TO ALLOW ESCAPE FROM EXCAVATION. WHEN PERSONNEL ARE IN THE EXCAVATION, AT LEAST 2 MEANS OF EGRESS ARE REQUIRED. LADDERS ARE REQUIRED TO ALLOW NOT MORE THAN 25 FEET OF LATERAL TRAVEL FOR TRENCH EGRESS.

18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY EQUIPMENT AND MATERIALS FOR TESTING WATERLINES.

19. ROADS AND PROPERTIES AFFECTED BY EXCAVATION MUST BE REFURBISHED TO ORIGINAL STATUS OR BETTER AT COMPLETION OF PROJECT.

20. CONTRACTOR TO PROVIDE ELECTRONIC AS-BUILT DRAWINGS IN AUTODESK LAND DEVELOPMENT 2006 OR A RECENT VERSION THEREOF, OF ALL APPURTENANCES AND SURVEY REFERENCE POINTS TO ACCEPTABLE LOCATIONS. MINIMAL REQUIREMENT OF 2 POINTS FOR MINOR AND 3 POINTS FOR MAJOR APPURTANCES.

21. MAINTAIN WATER AND SEWER LINE SEPARATION IN ACCORDANCE WITH REGULATIONS.

22. INSTALL DETECTABLE WARNING TAPE AND CONDUCTOR TAPE ON TOP OF ALL PIPE.

23. ALL REBARS SHOULD BE EPOXY COATED. UNLESS DIRECTED BY ENGINEER

24. CONSTRUCT SWALES AS SHOWN IN DETAILS WHENEVER SLOPE EXCEEDS 8%.

25. UTILITY/PIPE CROSSINGS: WATERLINE SHOULD ALWAYS BE 2FT ABOVE ANY POSSIBLE CONTAMINANT CROSSING, I.E. SEWER, STORM DRAIN, ETC...IN THE CASE OF CROSSING OTHER UTILITY LINES, WATERLINE SHOULD BE ON TOP AND IF THE 2FT MINIMUM VERTICAL SEPARATION IS NOT ATTAINED, THE WATERLINE NEEDS TO BE ENCASED IN CONCRETE TO AT LEAST 10FT MINIMUM LENGTH AND 2FT MINIMUM BEYOND THE EDGE OF THE CROSSING.



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REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA
P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:	
DRAWING TITLE: LEGEND UTILITY GENERAL NOTES			
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. G3	SIGNATURE: DATE:

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL COORDINATE HIS HAUL ROUTE STAGING AREA AND ALL ASSOCIATED REQUIREMENTS, SUCH AS, LAND USE PERMIT, WITH THE PNRS, CONTRACTING OFFICER, AND AFFECTED LANDOWNER.

2. A SEPARATE LAND USE PERMIT MUST BE OBTAINED BY THE CONTRACTOR IF THE CONTRACTOR'S STAGING AREA OR ANY WORK IS OUTSIDE THE LIMITS OF THE CONTRACT. THE EXISTING LAND USE PERMIT IS CONDITIONED ON A DIVISION OF MARINE AND WILDLIFE RESOURCES REVIEW PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND REMOVAL OF ALL SILT AND DEBRIS GENERATED BY HIS GRADING AND CONSTRUCTION WORK AND DEPOSITED AND ACCUMULATED ON ROADWAYS AND OTHER AREAS.

4. ALL EXISTING UTILITIES, CONCRETE WALKWAYS, STEPS AND WALLS, WHETHER OR NOT SHOWN ON THE DRAWINGS, EXCEPT THOSE DESIGNATED TO BE REMOVED, SHALL BE PROTECTED FROM DAMAGED AT ALL TIMES DURING CONSTRUCTION AND GRADING WORK. ANY DAMAGES TO THEM SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

5. THE CONTRACTOR SHALL VERIFY DIMENSIONS, LOCATIONS, ELEVATIONS, ETC. THAT ARE INDICATED FOR VERIFICATION AND INFORM THE CONTRACTING OFFICER IN WRITING OF ANY DIFFERENCES PRIOR TO INSTALLATION OF NEW FACILITIES.

6. THE CONTRACTOR SHALL TONE AND PROBE THE AREA PRIOR TO ALL EXCAVATION AND TRENCHING TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO CONTRACTORS CONSTRUCTION PRACTICES. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS, DEPTHS AND ASSURE THAT CONNECTIONS CAN BE MADE PRIOR TO EXCAVATION FOR THE NEW LINES AT NO COST TO THE OWNER. ANY NECESSARY ADJUSTMENTS FOR THE NEW LINES TO ENSURE PROPER CONNECTIONS TO THE EXISTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL ALSO CONTACT ASPA, BLUESKY AND ASTCA TO PROPERLY LOCATE THE UNDERGROUND UTILITIES AND CABLES THAT LIE IN
- AND ADJACENT TO THE WORK AREA.

7. WORK SHALL BE DONE BETWEEN 7:30AM AND 4:00PM SAMOA STANDARD TIME. NO WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, FEDERAL HOLIDAYS OR AFTER NORMAL WORK HOURS AT ANY TIME, WITHOUT SPECIAL ARRANGEMENT AND PRIOR APPROVAL BY THE CONTRACTING OFFICER. PROJECT WORK SHALL BE IN CONFORMANCE WITH APPLICABLE FEDERAL AND LOCAL LAWS AND REGULATIONS REGARDING COMMUNITY NOISE CONTROL.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATERLINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATERLINE TEES AND BENDS WHEREVER THERE IS POSSIBILITY OF WATERLINE MOVEMENT DUE TO REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURE TO PROTECT THE WATERLINE SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS AND/OR MODIFYING HIS CONSTRUCTION METHODS.

9. NO BLASTING WILL BE ALLOWED ON THIS PROJECT.

10. THE CONTRACTOR SHALL PROTECT EXISTING PUBLIC AND PRIVATE FACILITIES AND UTILITIES, AND PROVIDE SHORING DURING EXCAVATION. THE CONTRACTOR SHALL REPAIR, AT HIS COST, ALL DAMAGES DUE TO EXCAVATION.

11. THE CONTRACTOR SHALL COORDINATE WITH ASPA, ASC, BLUESKY COMMUNICATIONS AND ASTCA FOR ALL NEW POLE INSTALLATION, POWER, TELEVISION AND COMMUNICATIONS RELOCATIONS, AND REMOVAL OF EXISTING POLES. IF THE CONTRACTOR SHALL PROVIDE RELOCATIONS, REMOVAL OF EXISTING POLES. THE CONTRACTOR SHALL PROVIDE SUPPORTS FOR THE EXISTING POLES AFFECTED BY EXCAVATION. THE CONTRACTOR SHALL NOTIFY AFFECTED VILLAGES AND THE UTILITY COMPANIES SEVEN (7) DAYS PRIOR TO SERVICE INTERRUPTIONS. THESE NOTIFICATIONS SHALL BE AT THE CONVENIENCE OF ASPA, ASC, BLUESKY COMMUNICATION AND ASTCA.

12. THE CONTRACTOR SHALL PROVIDE ALL LAND SURVEY CONSTRUCTION STAKEOUT SERVICES, SOIL AGGREGATE, CONCRETE AND PAVEMENT MONITORING, AND SAMPLING AND TESTING SERVICES.
13. WASTE MATERIAL WILL BE DISPOSED OF AT AN APPROVED, PNRS-COMPLIANT, OFF-SITE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DISPOSAL AREA.

14. THE CONTRACTOR SHALL TAKE EXTREME CARE IN PERFORMING WORK NEAR EXISTING CONCRETE ELECTRICAL/COMMUNICATION DUCTS. APPROPRIATE PROTECTION SHALL BE IMPLEMENTED AS REQUIRED TO PREVENT DAMAGE TO THIS LINE.

15. THE CONTRACTOR SHALL VERIFY, BASED ON THE SITE CONDITIONS AND CONTRACT BASELINE DATA, WITH OVERVIEW AND APPROVAL BY AN AUTHORIZED REPRESENTATIVE OF AMERICAN SAMOA POWER AUTHORITY, THE LOCATION OF ALL EXISTING POLES WHICH IMPACT THE CONSTRUCTION AND ULTIMATE USE OF THE PROPOSED ROAD.

16. THE CONTRACTOR SHALL VERIFY, BASED ON OVERVIEW AND APPROVAL BY AUTHORIZED REPRESENTATIVE OF AMERICAN SAMOA GOVERNMENT OFFICE OF COMMUNICATIONS, THE LOCATIONS AND DEPTH OF EXISTING UNDERGROUND TELEPHONE CABLES. RELOCATE EXISTING DIRECT BURIED CABLES WHICH IMPACT THE CONSTRUCTION AND FINAL USE OF THE PROPOSED ROAD. EITHER INTO A NEW TRENCH AWAY FROM THE ROAD OR IN PVC SCHEDULE80 SLEEVES THROUGH THE ROAD AT A MINIMUM DEPTH OF 3' BELOW FINISHED GRADE IF THE CABLES CANNOT BE RELOCATED. TO EXPOSE THE CABLE, THE CONTRACTOR SHALL TONE FOR THE CABLE AND HAND EXCAVATE THE CABLE TAKING CARE NOT TO DAMAGE THE JACKET AND INSULATION. BASIS OF BID SHALL BE 100 LINEAR FEET OF DIRECT BURIED CABLE.

17. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT AND CROSSING ALONG THE NEW ROADWAY. ALL DEMOLITION AND REMOVAL OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO ROADWAY CONSTRUCTION.

18. ALL TRAFFIC SIGN AND PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.

19. AT THE END OF THE WORKDAY OR AS SOON AS WORK IS COMPLETED, THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE THAT PUBLIC TRAFFIC HAS SAFE PASSAGE AND THAT ALL OPEN HOLES ARE PROPERLY COVERED AND MAINTAINED DURING THE DURATION OF THE PROJECT.

20. IF THE CONTRACTOR UNCOVERS ANY CULTURAL REMAINS, DURING EXCAVATION WORK, THE CONTRACTOR SHALL STOP WORK IN THE AREA OF THE FINDINGS AND NOTIFY THE CONTRACTING OFFICER AND THE AMERICAN SAMOA GOVERNMENT (ASHPO AND ASPA)



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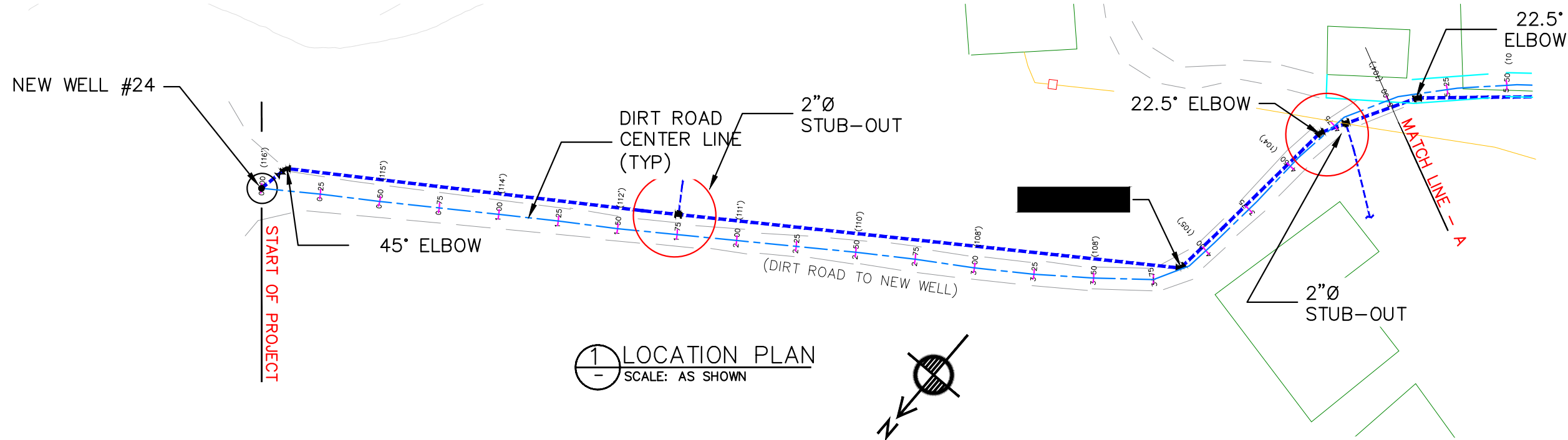


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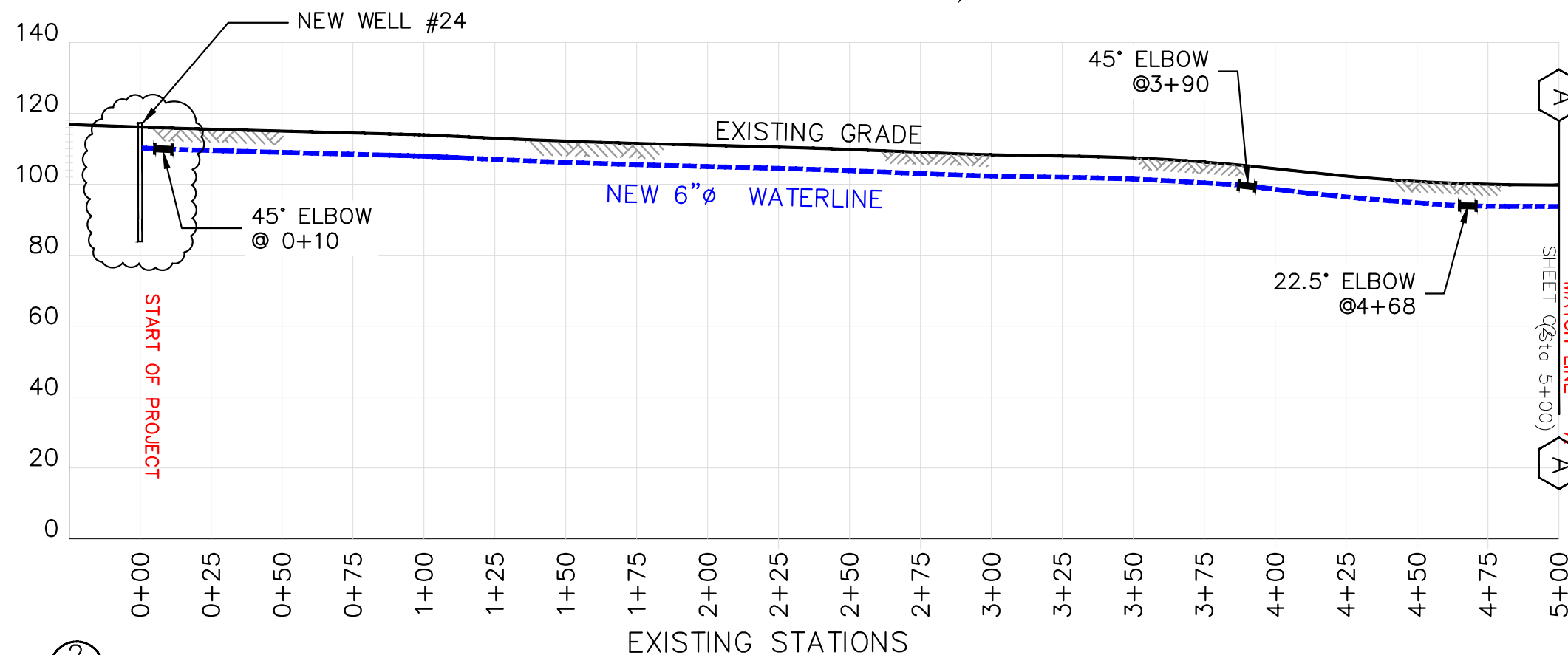
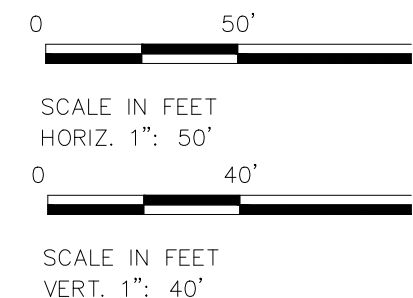
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:	
DRAWING TITLE: CONSTRUCTION NOTES			
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. G4	SIGNATURE: DATE:



LEGEND:	
EXISTING ACP WATER LINE:	—
NEW 6" PVC-O:	- - -
SEWER SERVICE LINE:	— · —
EXISTING MAIN SEWER LINE:	- · -
TELEPHONE CONDUIT:	— · — · —
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	⊕
POWER/TEL POLE:	⊙
TREES:	● ○ ✱
SERVICE METER:	⊕
GATE VALVE:	⊗
STUB-OUT:	— · —
AIR RELIEVE VALVE:	⊙
BAC-T SAMPLING STN:	⊗

NOTE:
ALL EXISTING INFRASTRUCTURE
MUST BE CONFIRMED BY A QU,
ENGINEER OR FIELD SUPERVISO
PERTAINING EXISTING FACILITIES



2
SCALE: AS SHOWN



REV. NO.:	PREPARED BY: FToala
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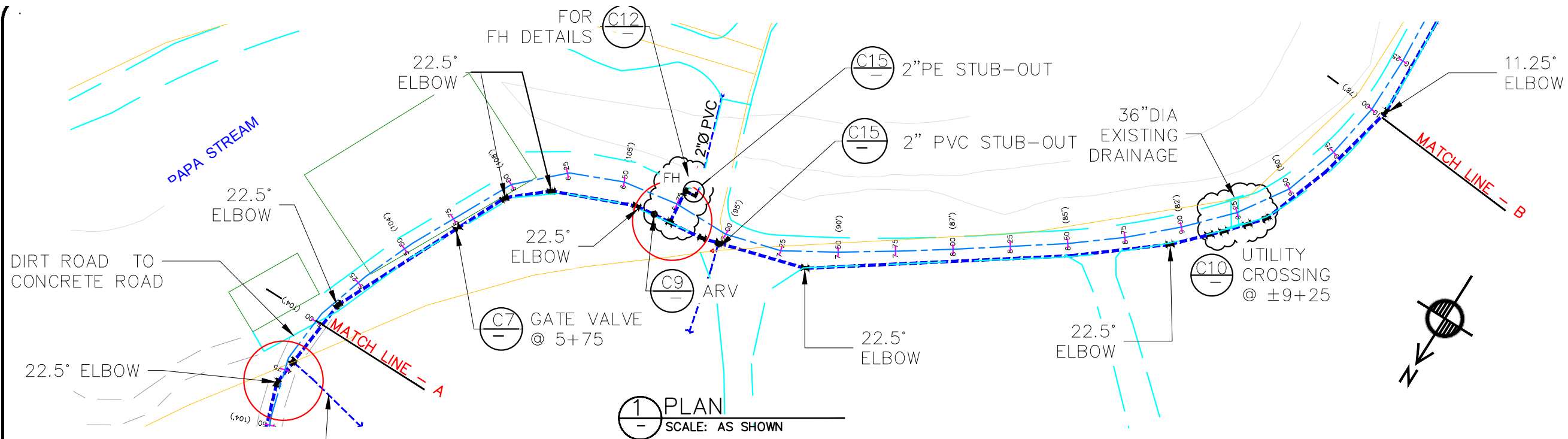


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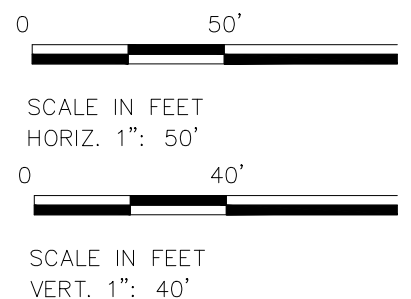
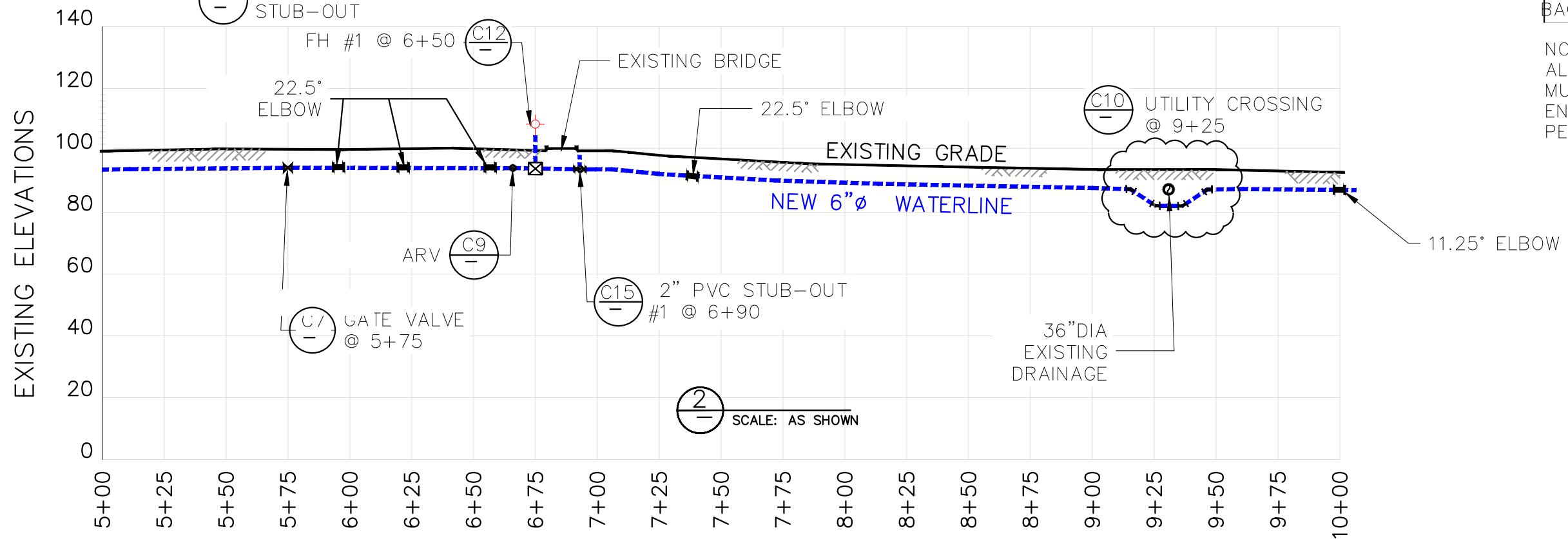
PROJECT NAME: WELL #24 CONNECTION PROJECT
DRAWING TITLE: PROFILE & PLAN (STA. 0+00 TO 5+00)
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA

SCALE: AS SHOWN	PROJECT NO:
DATE: DEC2019	SHEET NO. C1
	SIGNATURE: DATE:



LEGEND:	
EXISTING ACP WATER LINE:	—
NEW 6" PVC-O:	- - -
SEWER SERVICE LINE:	- · - · -
EXISTING MAIN SEWER LINE:	- · - · -
TELEPHONE CONDUIT:	- · - · -
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	⊙
POWER/TEL POLE:	⊙
TREES:	⊙
SERVICE METER:	⊙
GATE VALVE:	⊗
STUB-OUT:	—
AIR RELIEVE VALVE:	⊗
BAC-T SAMPLING STN:	⊗

NOTE:
ALL EXISTING INFRASTRUCTURE
MUST BE CONFIRMED BY A QU,
ENGINEER OR FIELD SUPERVISOR
PERTAINING EXISTING FACILITIES



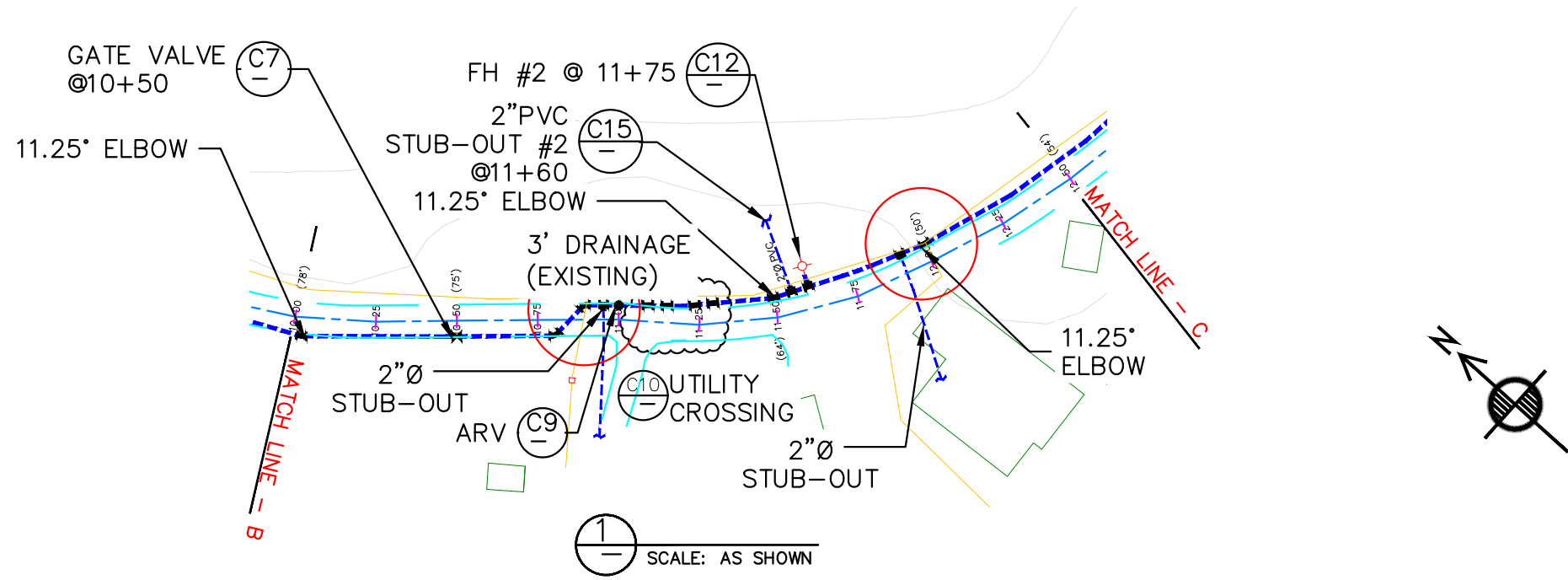
REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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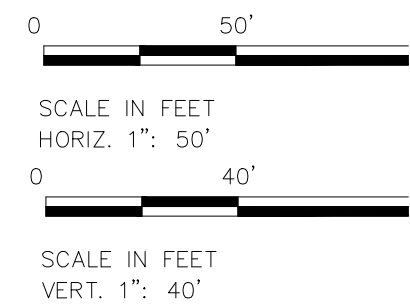
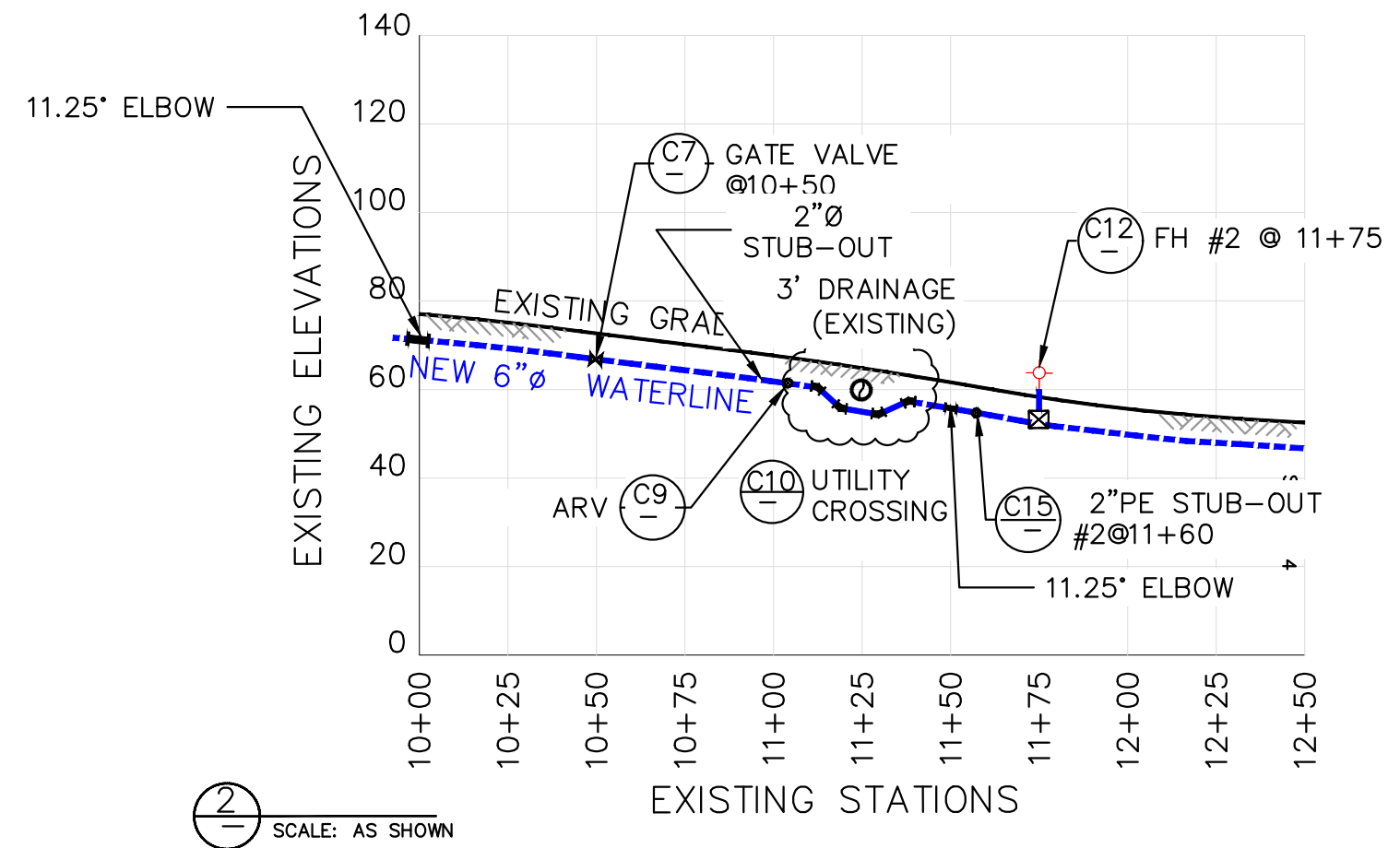
ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA
P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: PROFILE & PLAN (STA. 5+00 TO 10+00)		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C2
		SIGNATURE: DATE:



LEGEND:	
EXISTING ACP WATER LINE:	
NEW 6" PVC-O:	
SEWER SERVICE LINE:	
EXISTING MAIN SEWER LINE:	
TELEPHONE CONDUIT:	
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	
POWER/TEL POLE:	
TREES:	
SERVICE METER:	
GATE VALVE:	
STUB-OUT:	
AIR RELIEVE VALVE:	
BAC-T SAMPLING STN:	

NOTE:
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MUST BE CONFIRMED BY A QU,
ENGINEER OR FIELD SUPERVISOR
PERTAINING EXISTING FACILITIES



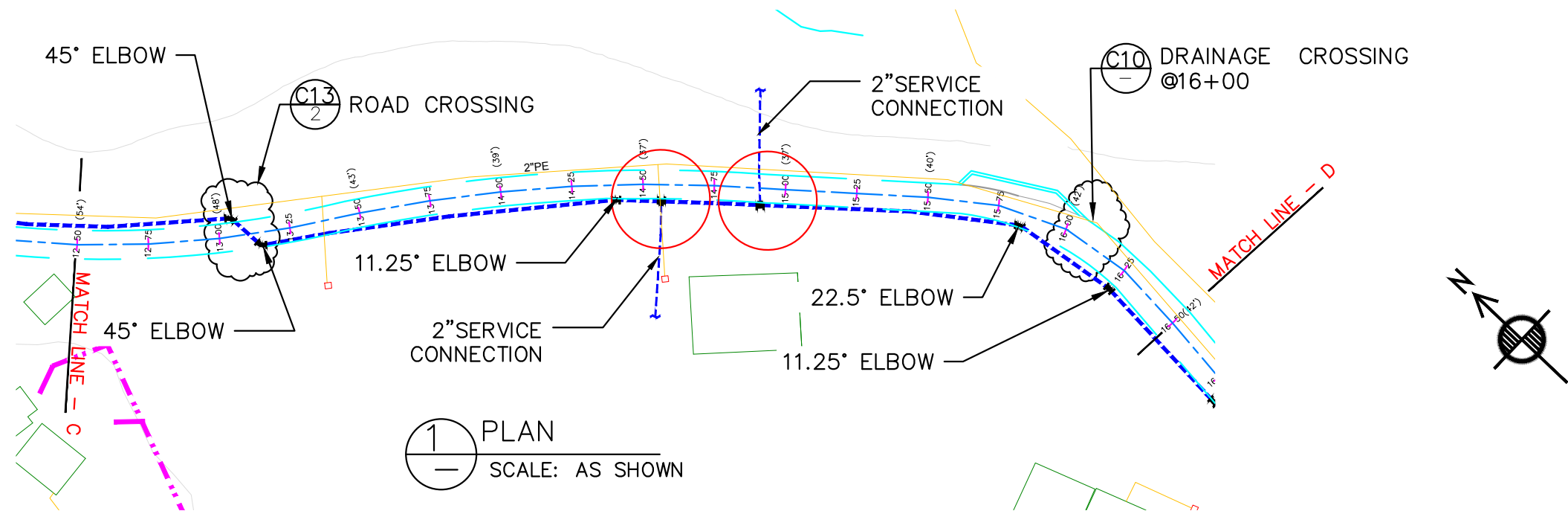
REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



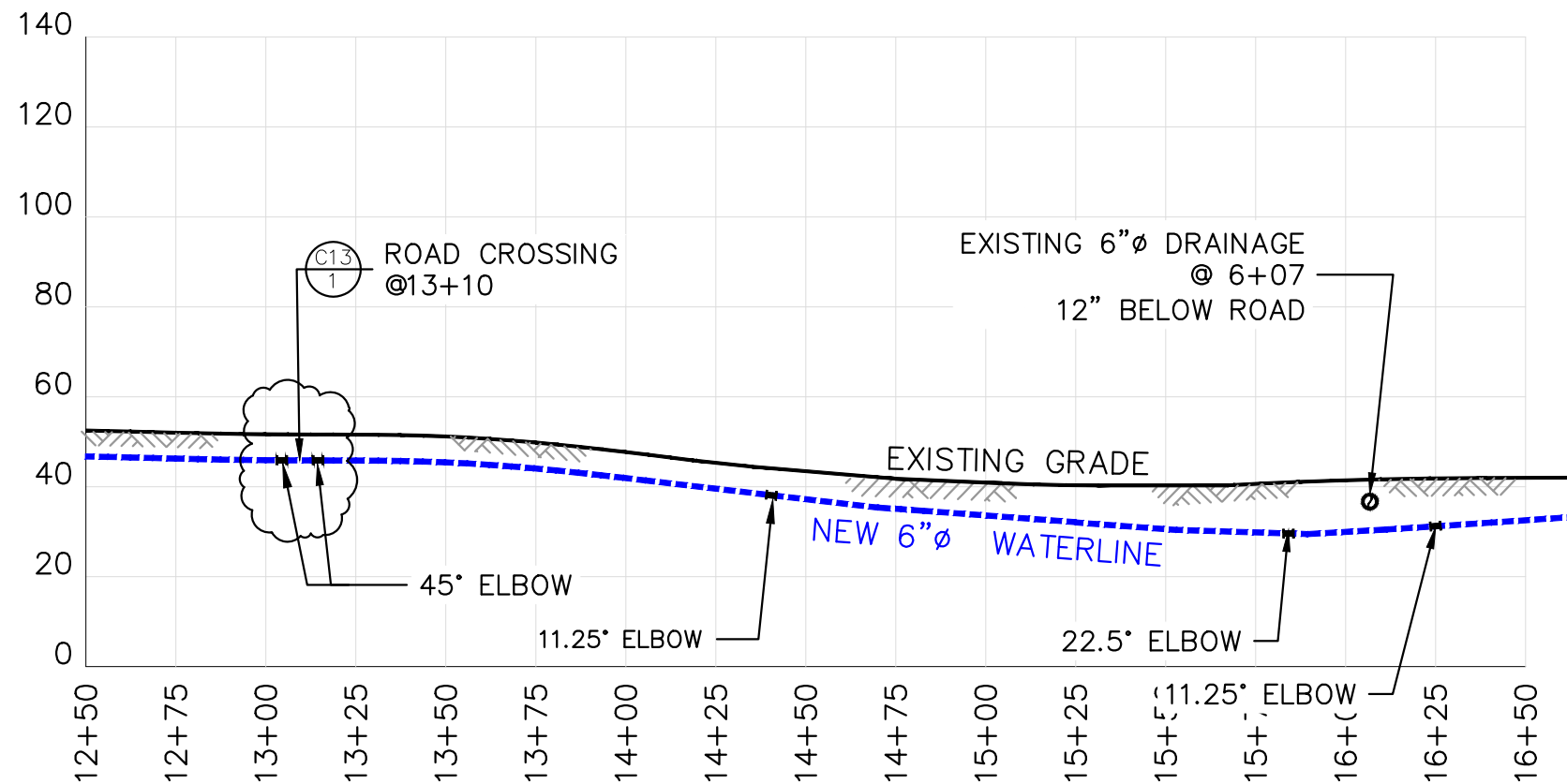
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: PROFILE & PLAN (STA. 10+00 TO 12+50)		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C3
		SIGNATURE: DATE:



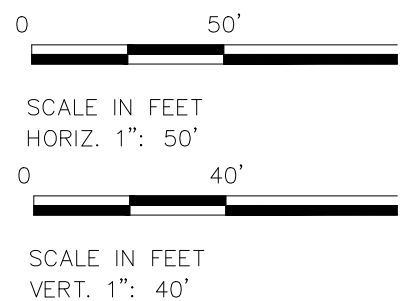
1 PLAN
SCALE: AS SHOWN



2 PROFILE
SCALE: AS SHOWN

LEGEND:	
EXISTING ACP WATER LINE:	—
NEW 6" PVC-O:	- - -
SEWER SERVICE LINE:	- · - · -
EXISTING MAIN SEWER LINE:	- · - · -
TELEPHONE CONDUIT:	- · - · -
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	⊕
POWER/TEL POLE:	⊙
TREES:	●
SERVICE METER:	⊕
GATE VALVE:	⊗
STUB-OUT:	—
AIR RELIEVE VALVE:	⊙
BAC-T SAMPLING STN:	⊗

NOTE:
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MUST BE CONFIRMED BY A QU,
ENGINEER OR FIELD SUPERVISOR
PERTAINING EXISTING FACILITIES



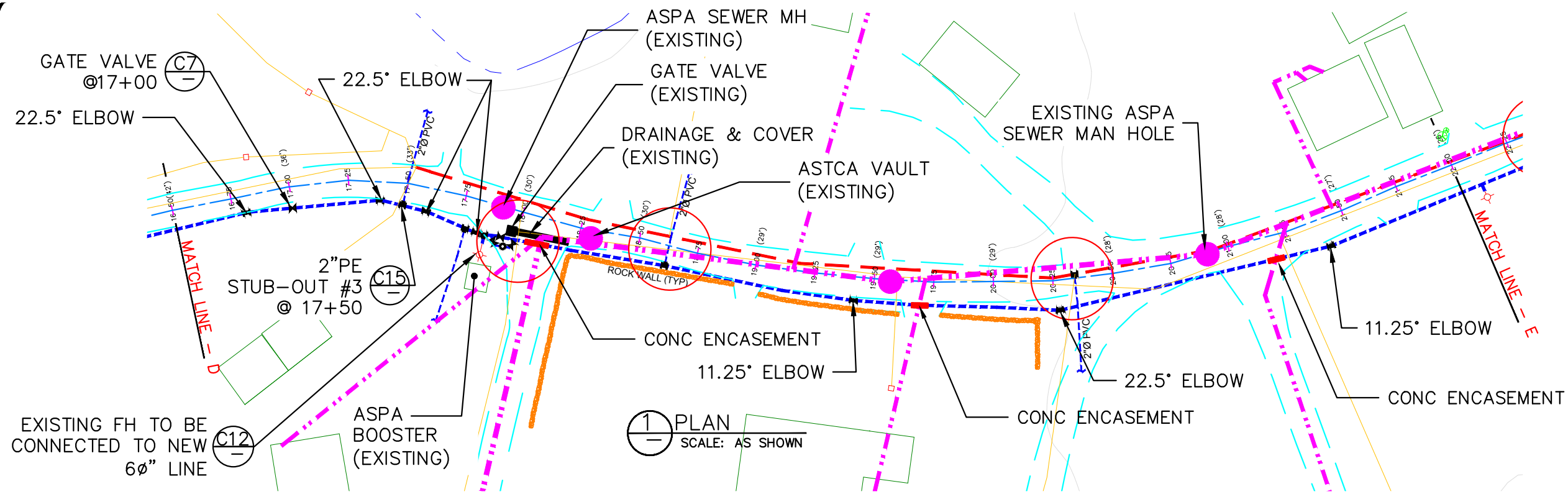
REV. NO.:	PREPARED BY: FToala
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CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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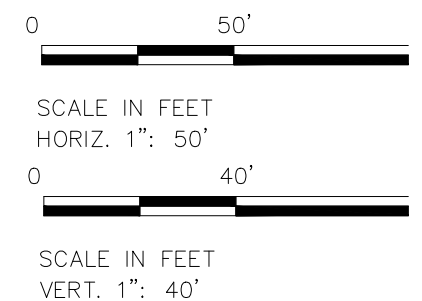
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TAFUNA, AMERICAN SAMOA
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: PROFILE & PLAN (STA. 22+50 TO 16+50)		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. DATE: C4

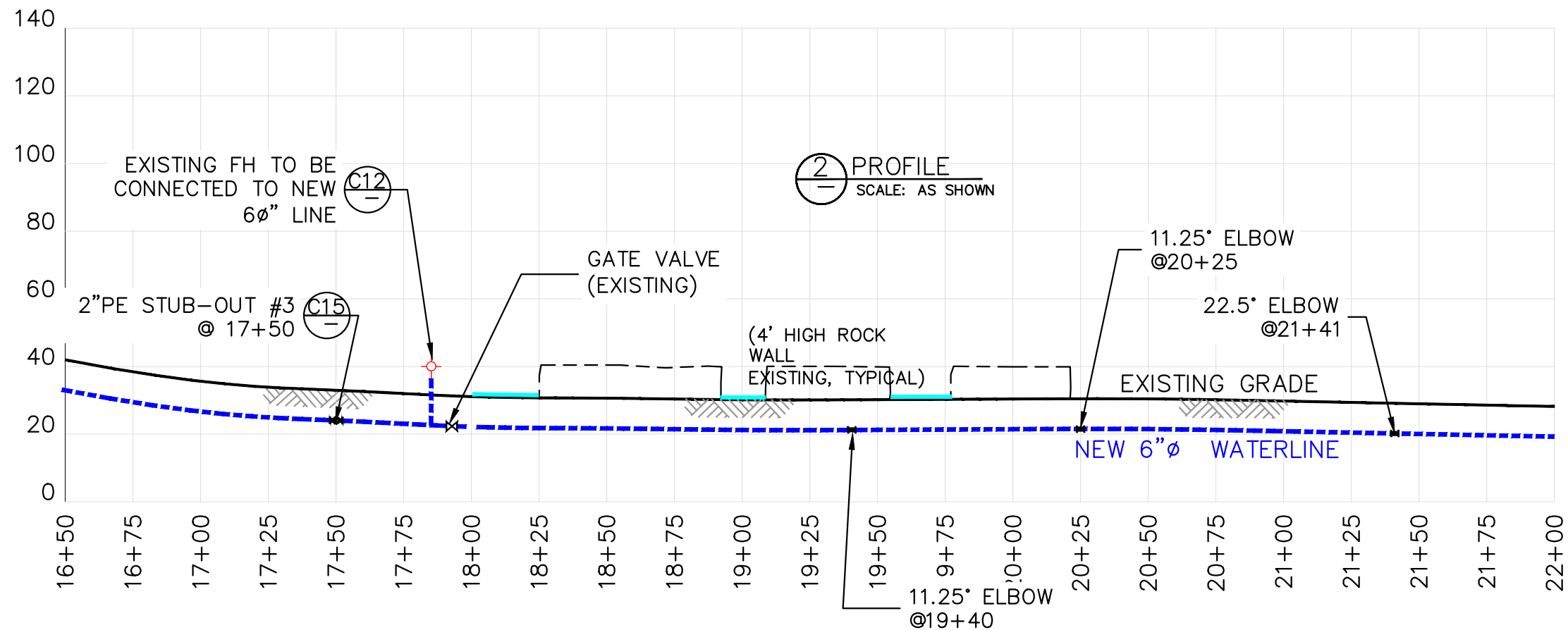


LEGEND:	
EXISTING ACP WATER LINE:	—
NEW 6" PVC-O:	- - -
SEWER SERVICE LINE:	- · - · -
EXISTING MAIN SEWER LINE:	- · - · -
TELEPHONE CONDUIT:	- · - · -
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	⚡
POWER/TEL POLE:	⦿
TREES:	● ○ ✱
SERVICE METER:	⊕
GATE VALVE:	⊗
STUB-OUT:	—
AIR RELIEVE VALVE:	⊙
BAC-T SAMPLING STN:	⊠

NOTE:
ALL EXISTING INFRASTRUCTURE
MUST BE CONFIRMED BY A QU/
ENGINEER OR FIELD SUPERVISOR
PERTAINING EXISTING FACILITIES



NOTE:
EXISTING 8" ACP PIPE
NOT SHOWN ON DRAWINGS



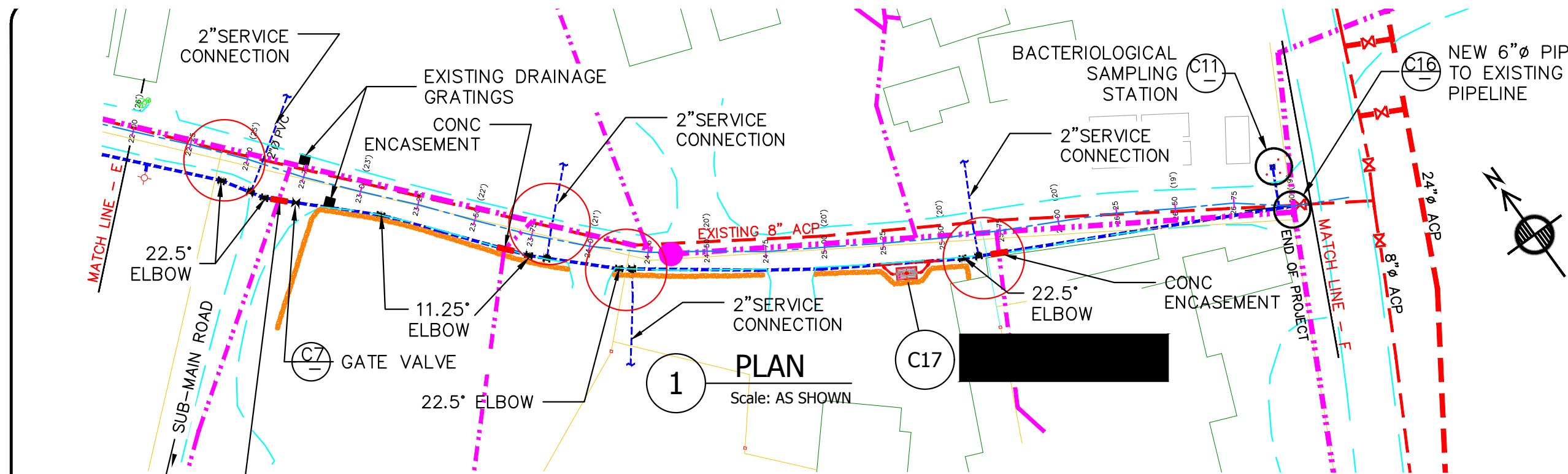
REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
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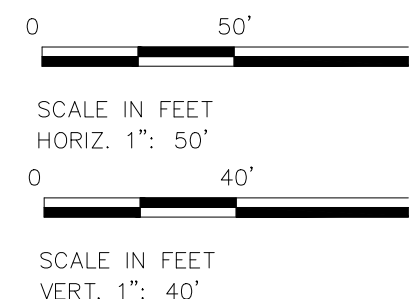
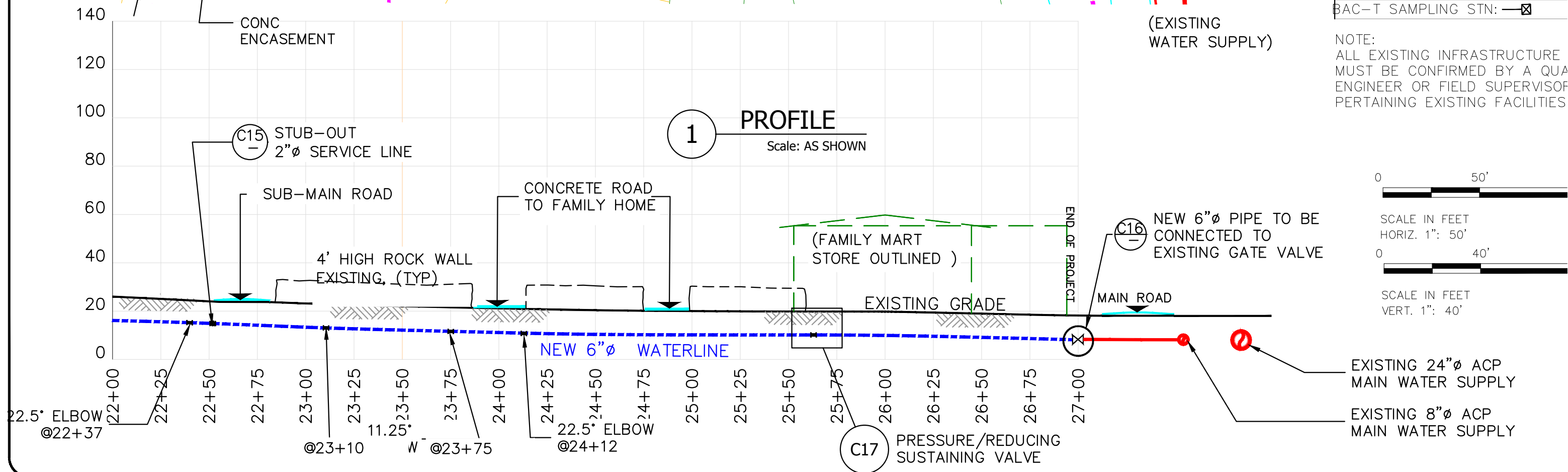
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: PROFILE & PLAN (STA. 16+50 TO 22+00)		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C5
		SIGNATURE: DATE:



LEGEND:	
EXISTING ACP WATER LINE:	
NEW 6" PVC-O:	
SEWER SERVICE LINE:	
EXISTING MAIN SEWER LINE:	
TELEPHONE CONDUIT:	
ELBOWS:	11.25° 22.5° 45°
FIRE HYDRANT:	
POWER/TEL POLE:	
TREES:	
SERVICE METER:	
GATE VALVE:	
STUB-OUT:	
AIR RELIEVE VALVE:	
BAC-T SAMPLING STN:	

NOTE:
ALL EXISTING INFRASTRUCTURE
MUST BE CONFIRMED BY A QUA
ENGINEER OR FIELD SUPERVISOR
PERTAINING EXISTING FACILITIES



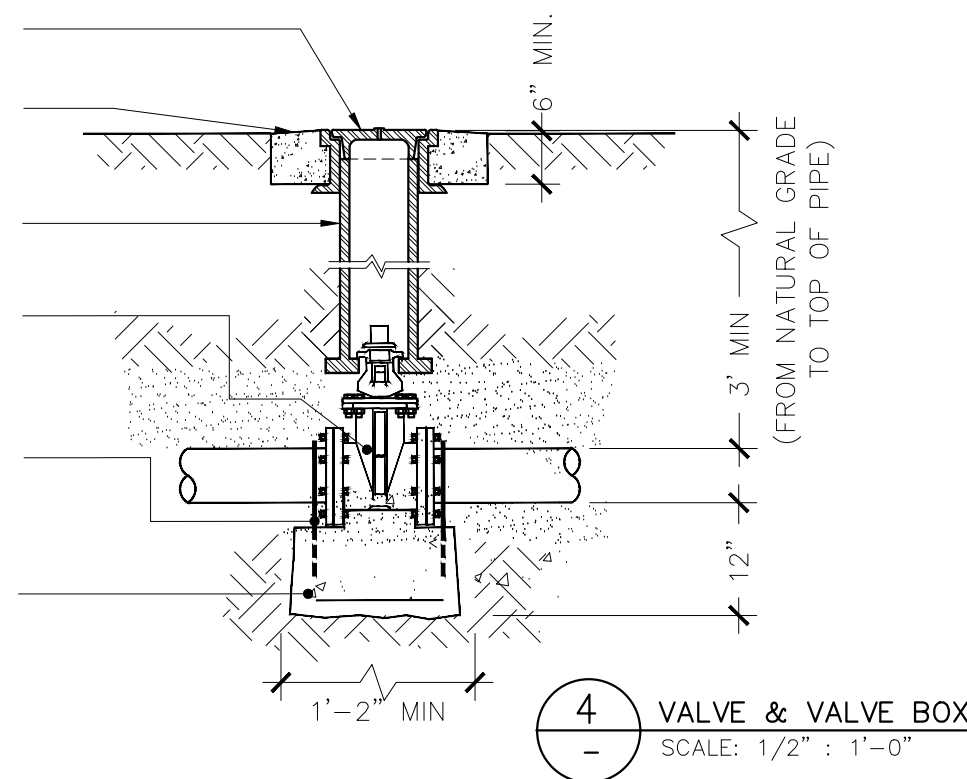
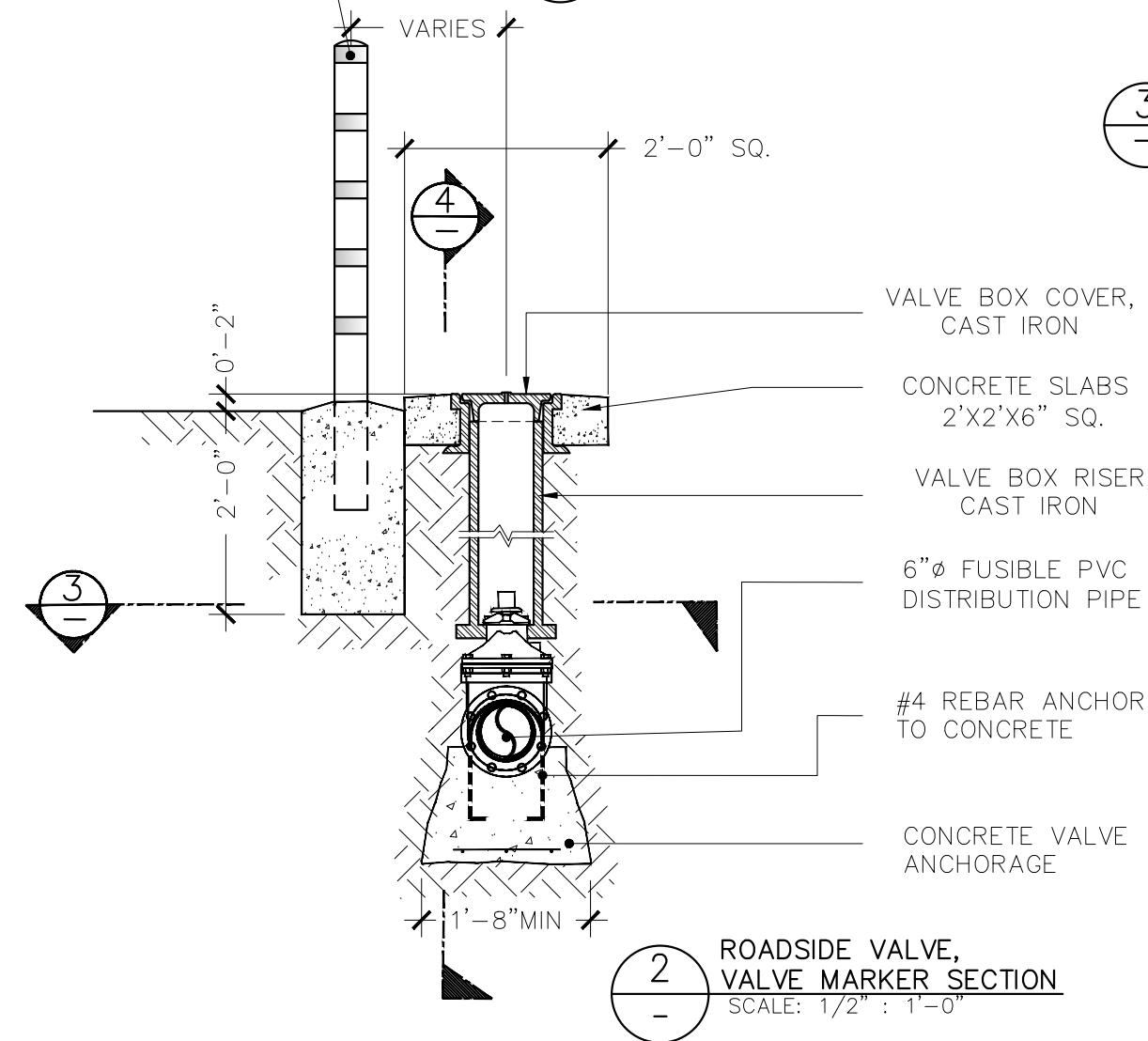
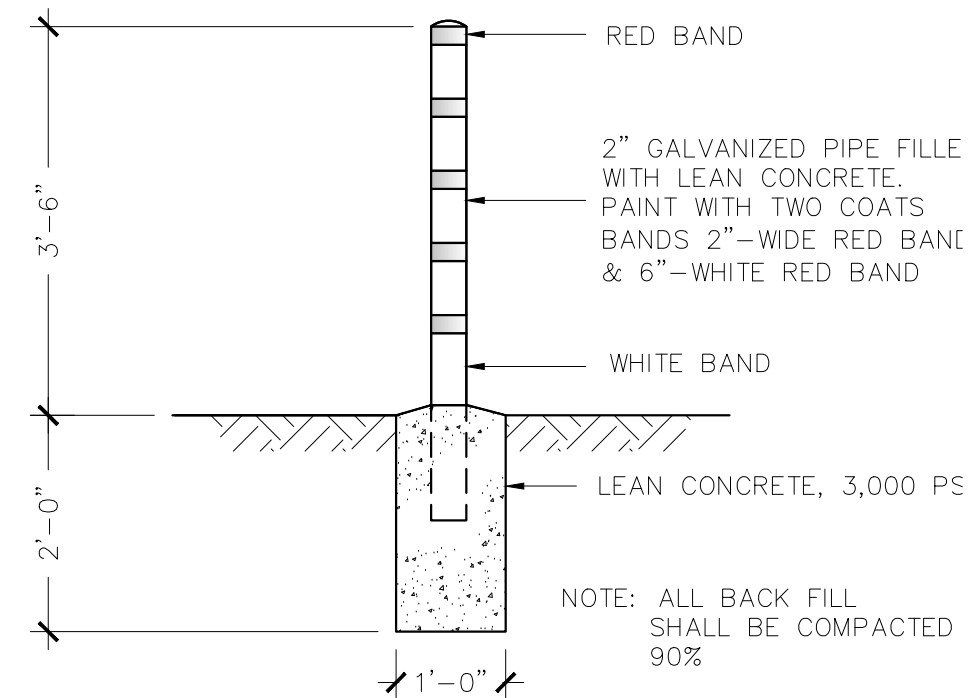
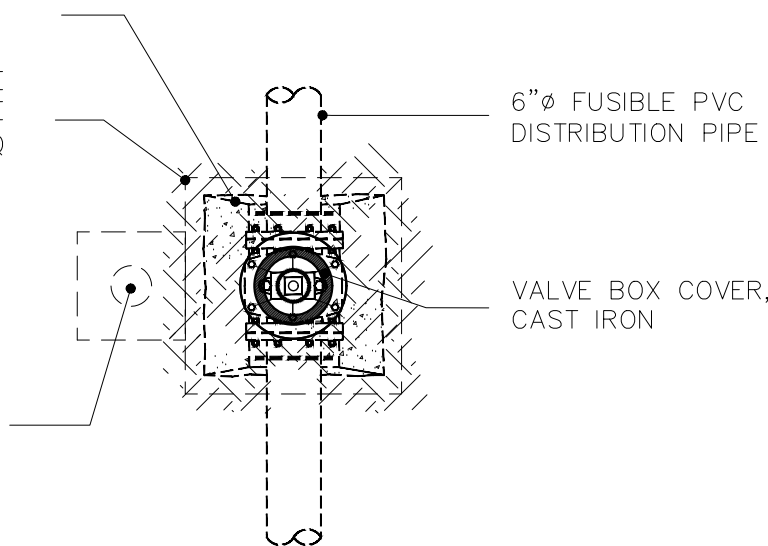
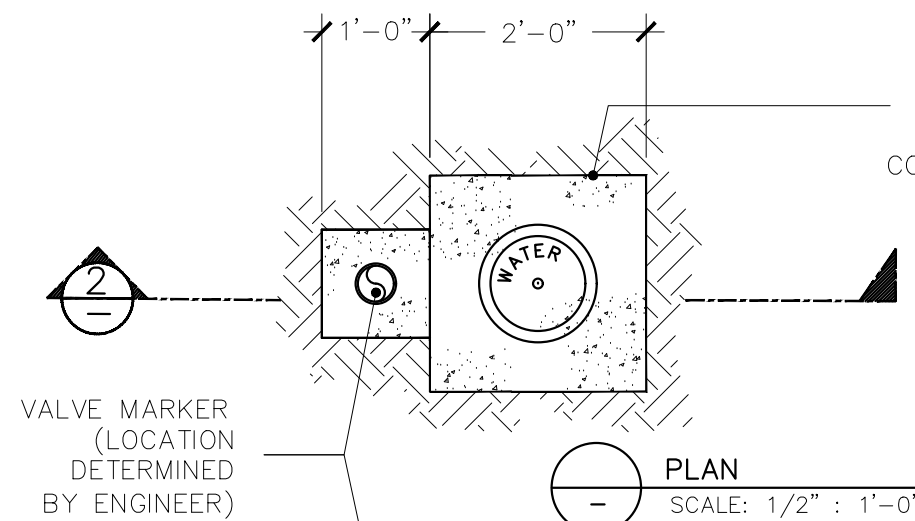
REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: PROFILE & PLAN (STA. 22+00 TO 27+00)		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C6
		SIGNATURE: DATE:



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REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



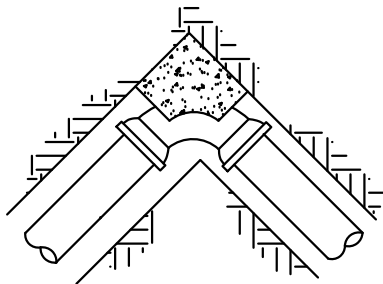
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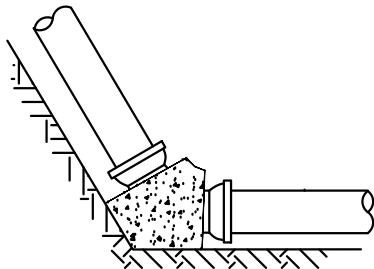
PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: GATE VALVE & VALVE MARKER DETAILS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C7
		SIGNATURE: DATE:

CONCRETE THRUST BLOCK UNDISTURBED SOIL BEARING SURFACE FOR WATER MAINS (UNITS IN SQUARE FEET)																
PIPE SIZE	PIPE & BEND				90° BEND				45° BEND				11 1/4" OR 22 1/2" BEND			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
4"	2.5	1.5	1.0	1.0	3.5	2.0	1.5	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6"	5.0	4.0	2.0	2.0	7.0	3.5	2.5	2.0	4.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0
8"	9.0	7.0	3.5	3.0	12.0	6.0	4.5	3.0	7.0	3.5	2.5	1.5	4.0	2.0	1.5	1.5
10"	14.0	10.5	5.5	5.0	20.0	10.0	7.5	5.0	11.0	5.5	4.0	3.0	6.0	3.0	2.0	1.5
12"	19.5	15.0	6.0	7.0	28.0	21.0	8.5	7.0	15.0	13.5	4.5	4.0	7.5	6.0	2.5	2.0

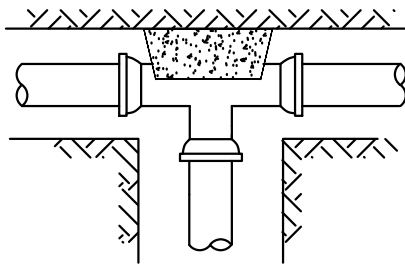
CONDITION OF SOIL										
ITEM	MATERIAL				SOIL BEARING CAPACITY					
A.	SAND				=	1500	LBS	PER	SQ.	FT
B.	SAND & GRAVEL				=	2000	LBS	PER	SQ.	FT
C.	SAND, GRAVEL & CLAY				=	5000	LBS	PER	SQ.	FT
D.	CORAL				=	6000	LBS	PER	SQ.	FT
NOTE: 1. ACTUAL SIZE OF THRUST BLOCK MAY BE DETERMINED BY ENGINEER DUE TO FIELD CONDITIONS 2. ASPA APPROVED PIPE JOINT RESTRAINT FITTINGS MAY BE USED IN LIEU OF CONCRETE THRUST BLOCK.										



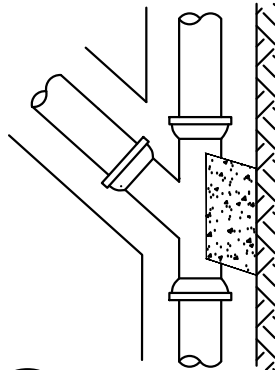
A 90°BEND



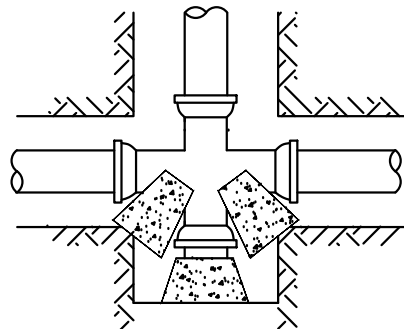
B 45°BEND



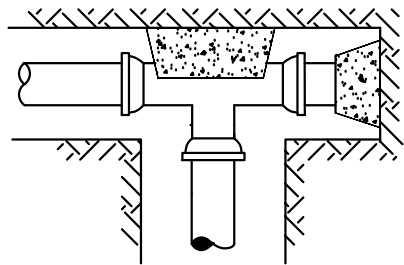
C TEE



D WYE



E CROSS



F BLIND-RUN TEE



REV. NO.:	PREPARED BY: FToala
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CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

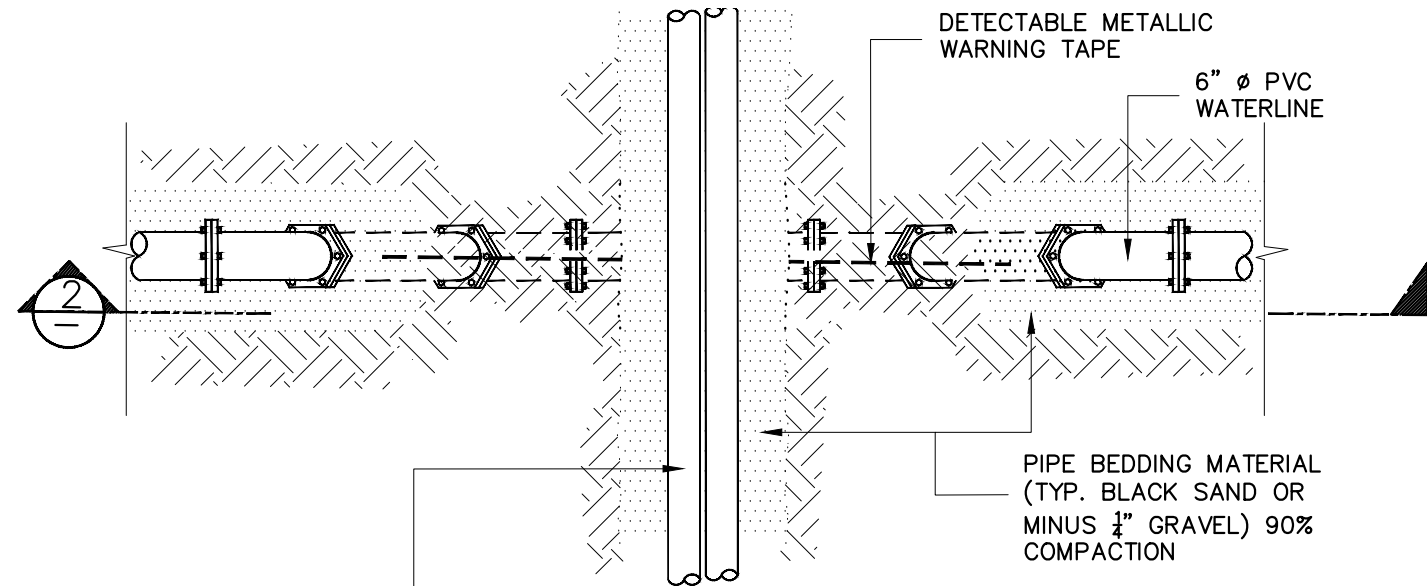


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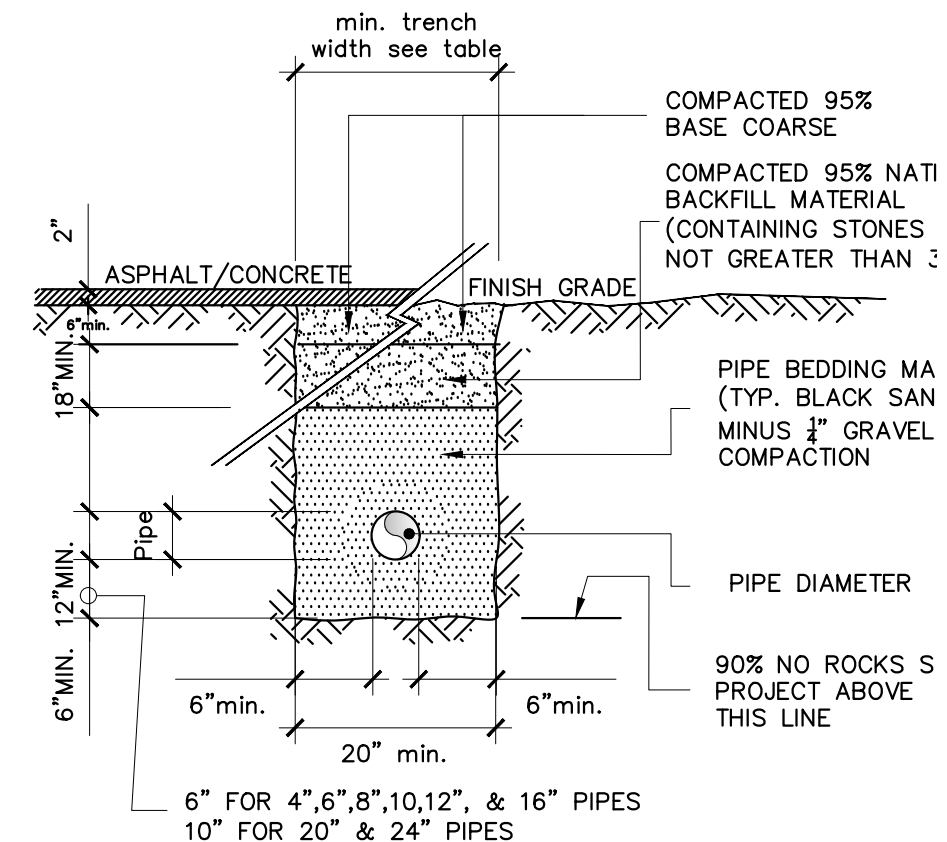
ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: THRUST BLOCKS DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C8
		SIGNATURE: DATE:



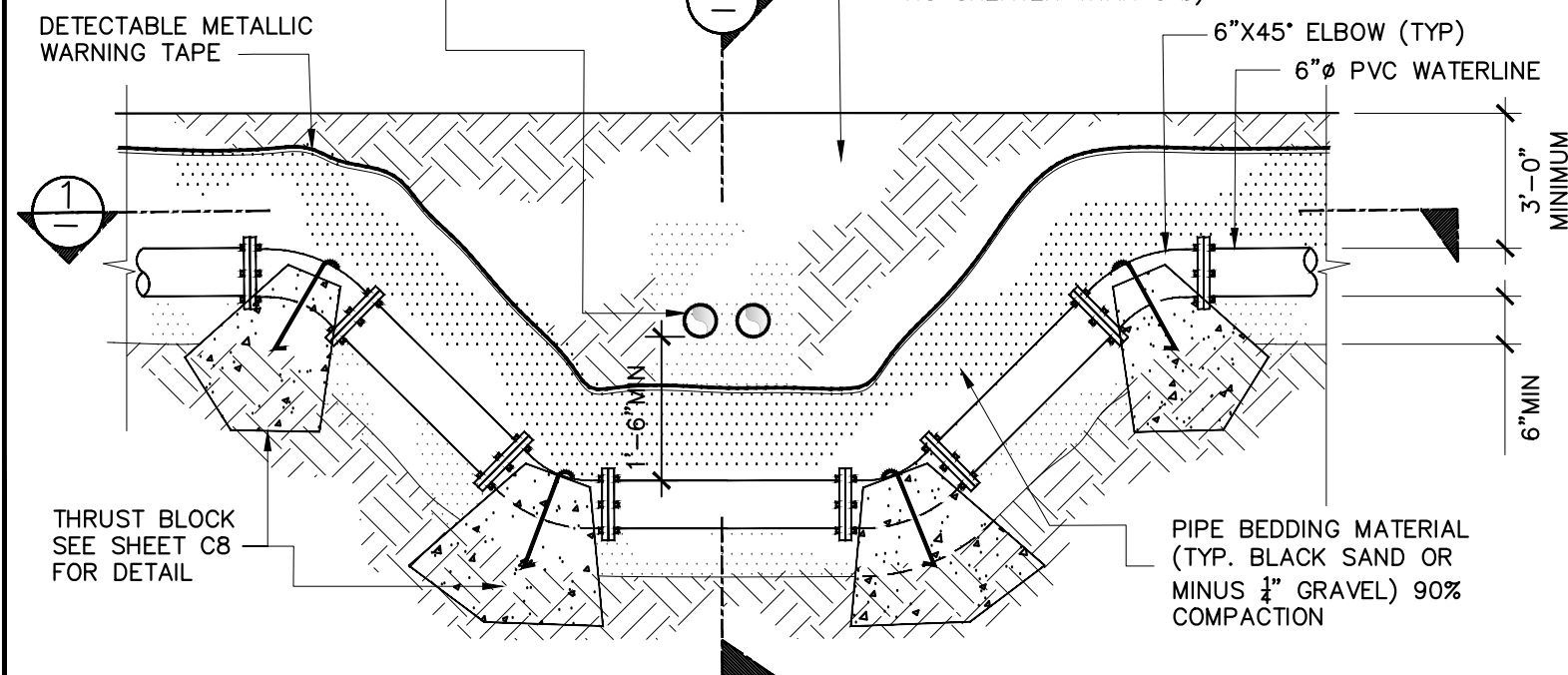
TRENCH TABLE	
PIPE SIZE	PAYMENT TRENCH
1"	16"
4", 6", 8" OR 10"	24"
12"	30"
16"	34"
20"	38"
24"	42"



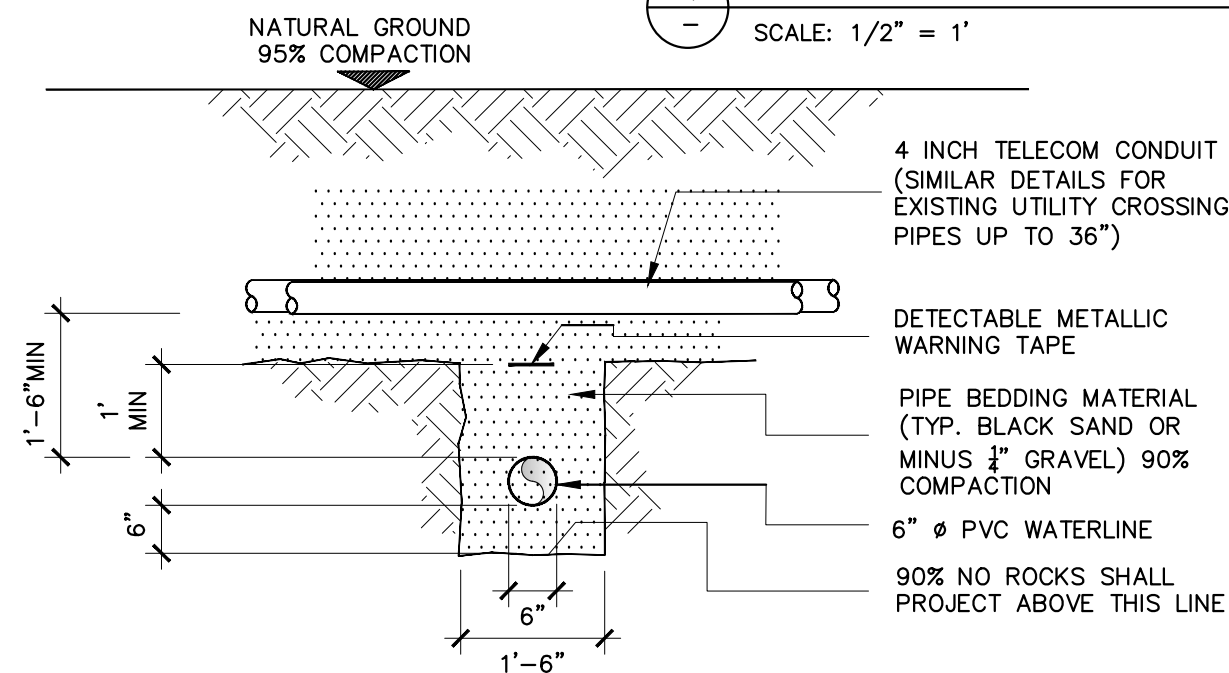
4 INCH TELECOM CONDUIT
SIMILAR DETAILS FOR EXISTING
UTILITY CROSSING PIPES
UP TO 36")

1 PIPE TRENCH PLAN (SECTION ELEVATION)
SCALE: 1/2" = 1'

NATIVE BACKFILL MATERIAL
COMPACTED 95%
(CONTAINING STONES
NO GREATER THAN 3"Ø)



2 TYPICAL UTILITY CROSSING SECTION ELEVATION
SCALE: 1/2" = 1'



3 TYPICAL UTILITY CROSSING SECTION ELEVATION
SCALE: 1/2" = 1'



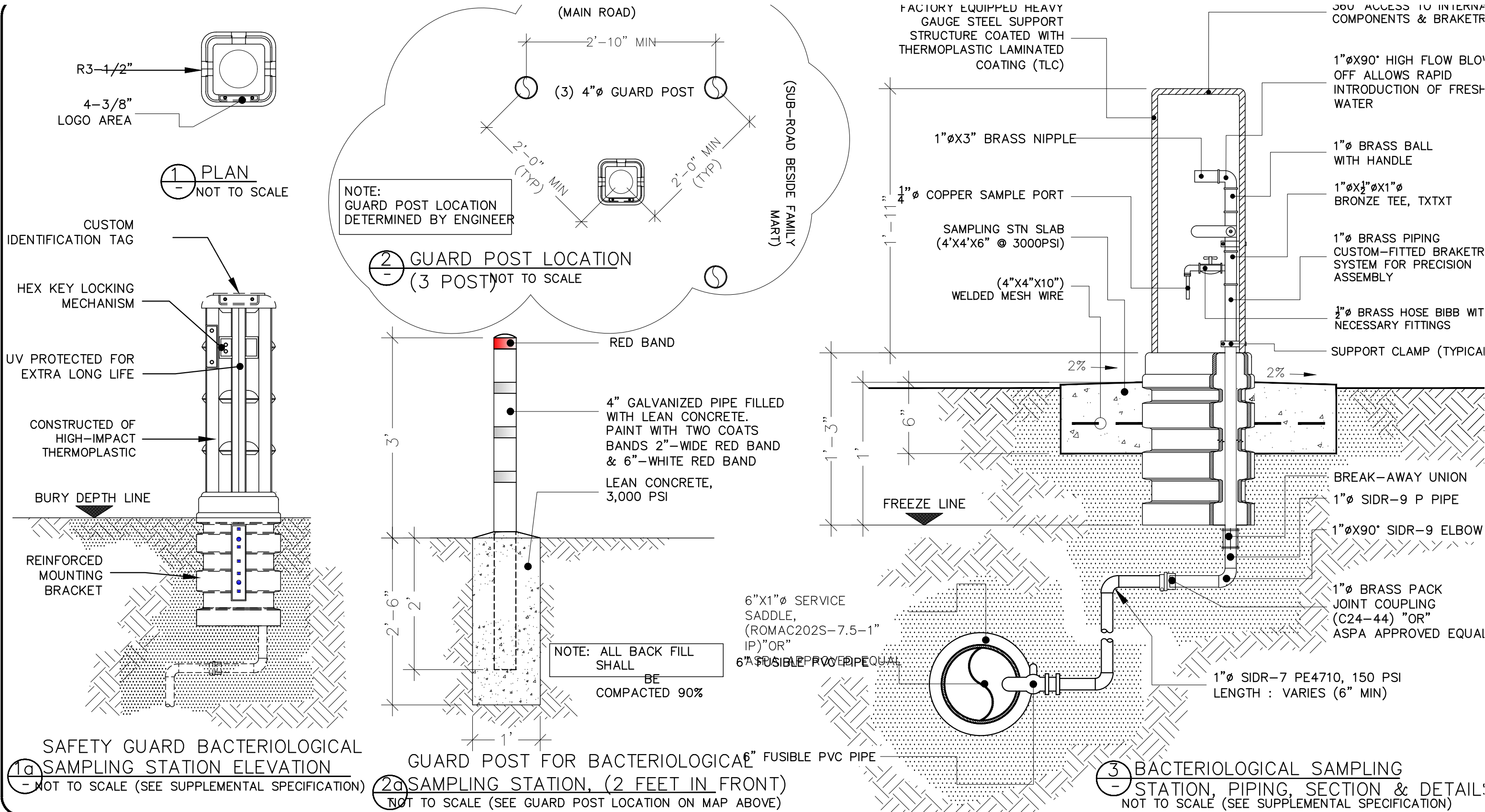
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CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: UTILITY CROSSING & TRENCH DETAILS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C10
		SIGNATURE: DATE:



1a SAFETY GUARD BACTERIOLOGICAL SAMPLING STATION ELEVATION
NOT TO SCALE (SEE SUPPLEMENTAL SPECIFICATION)

2a GUARD POST FOR BACTERIOLOGICAL SAMPLING STATION, (2 FEET IN FRONT)
NOT TO SCALE (SEE GUARD POST LOCATION ON MAP ABOVE)



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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: BACTERIOLOGICAL SAMPLING STATION & DETAILS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. SIGNATURE: DATE:

PIPE BEDDING MATERIAL
(TYP. BLACK SAND
90% COMPACTION)

DPW APPROVED
BASE COURSE
W/ 95% COMPACTION

MAIN ROAD

5'-0"

1.5%

1' MIN

1.5%

1 MAIN ROAD CROSSING
SCALE: 3/8"=0" = 1'-0"

BEDDING MATERIAL
(TYP. BLACK SAND
90% COMPACTION)

DPW APPROVED
BASE COURSE
W/ 95% COMPACTION

10'-0"

5'-0"

1.5%

1' MIN

1.5%

2 ROAD CROSSING FOR NEW FIRE HYDRANT
SCALE: 3/8"=0" = 1'-0"

3' MIN



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REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

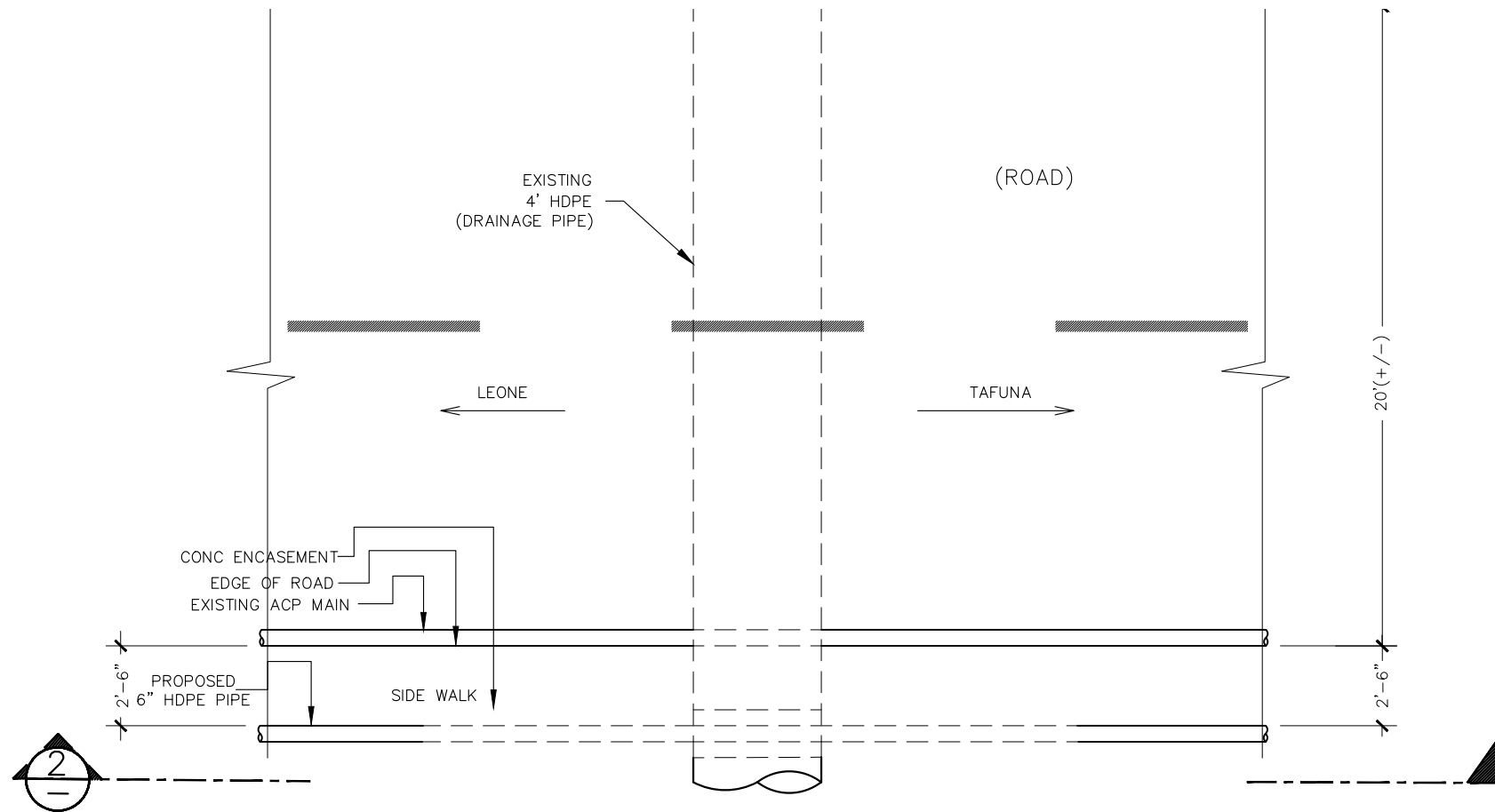


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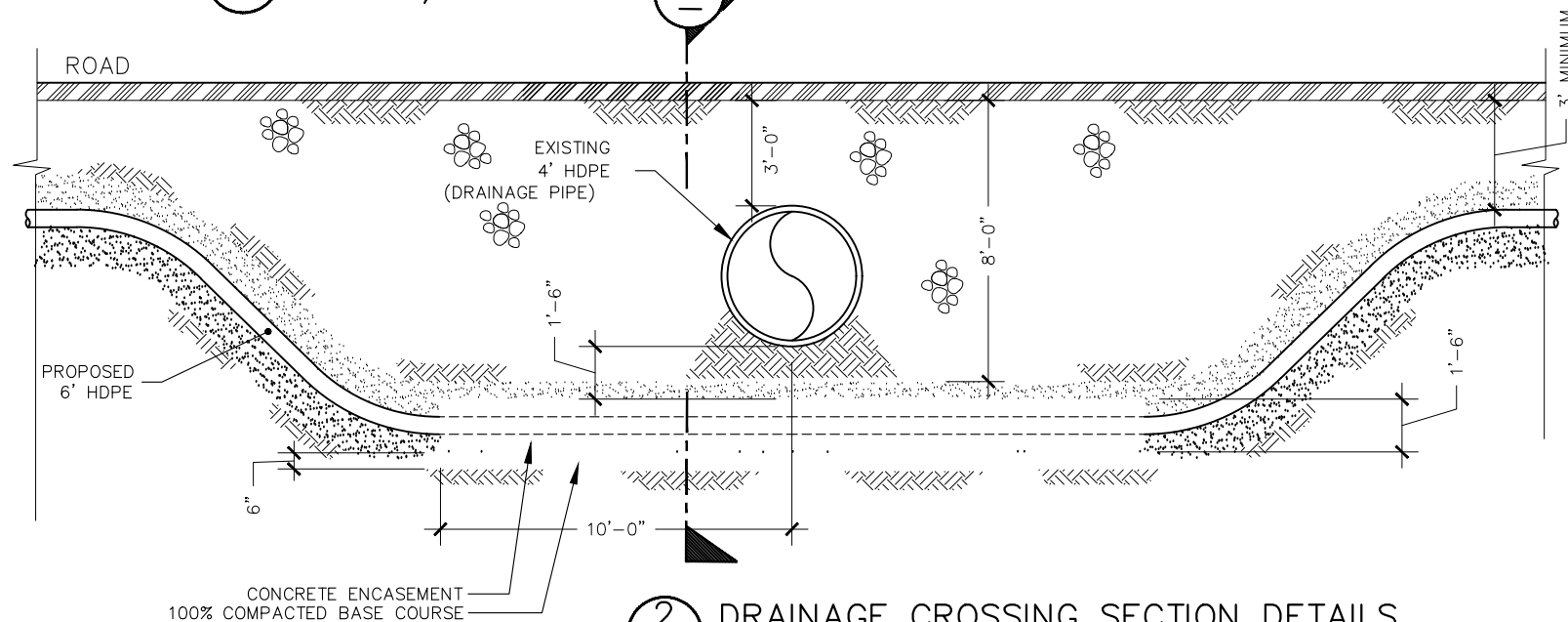
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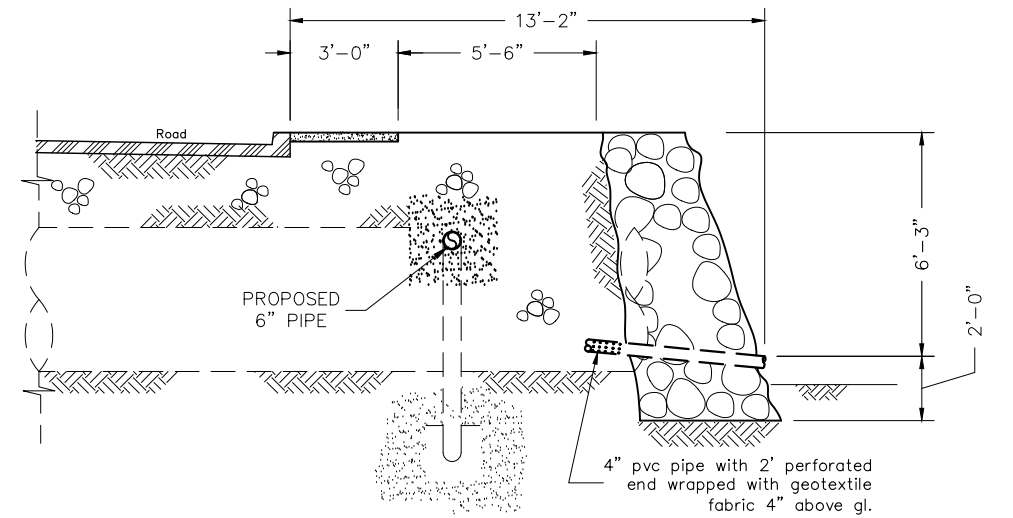
PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: TYPICAL MAIN ROAD CROSSING SECTION DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C13
		SIGNATURE: DATE:



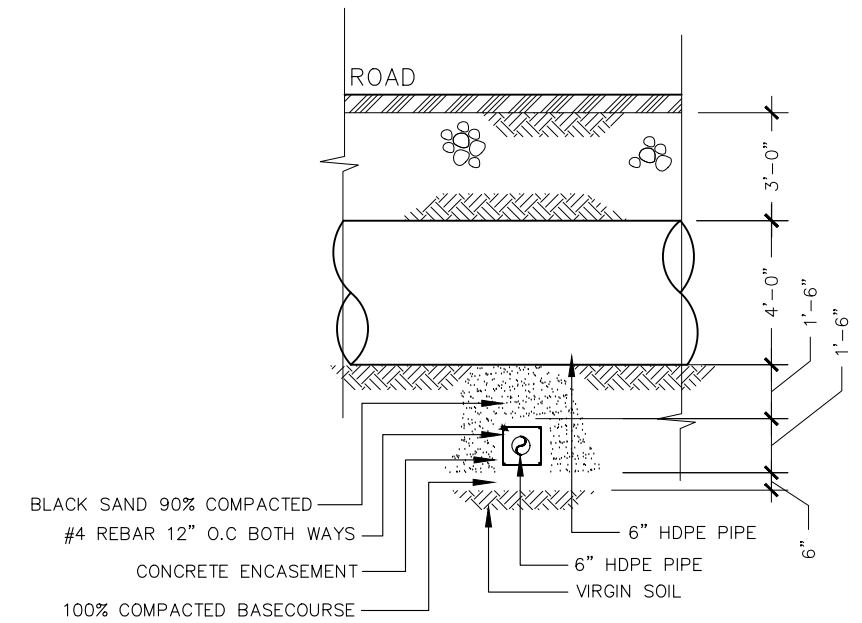
1 PLAN
SCALE: 3/16"=0" = 1'-0"



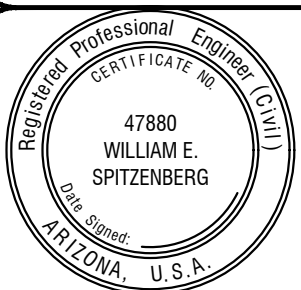
2 DRAINAGE CROSSING SECTION DETAILS
SCALE: 3/16"=0" = 1'-0"



1 ROAD CROSSING (TYPICAL)
SCALE: 3/8"=0" = 1'-0"



4 DRAINAGE LATITUDE SECTION DETAILS
SCALE: 3/16"=0" = 1'-0"



REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

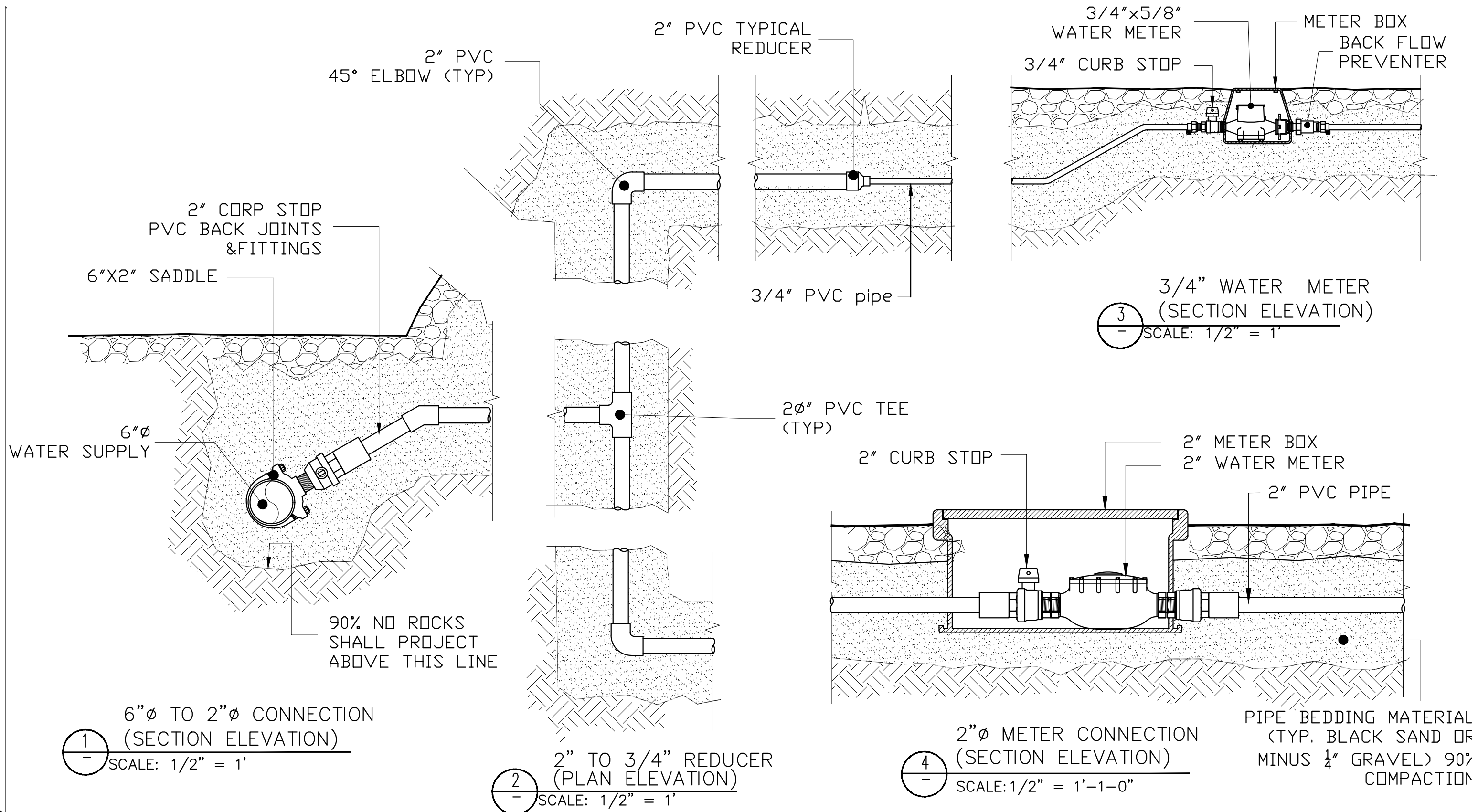


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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: TYPICAL MAIN ROAD CROSSING SECTION DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C14
		SIGNATURE: DATE:



REV. NO.:	PREPARED BY:
REVISION:	FToala
CHECKED BY:	FAguila
APPROVED BY:	WSpitzenberg, P.E.
DATE:	ISSUE FOR:
	Construction

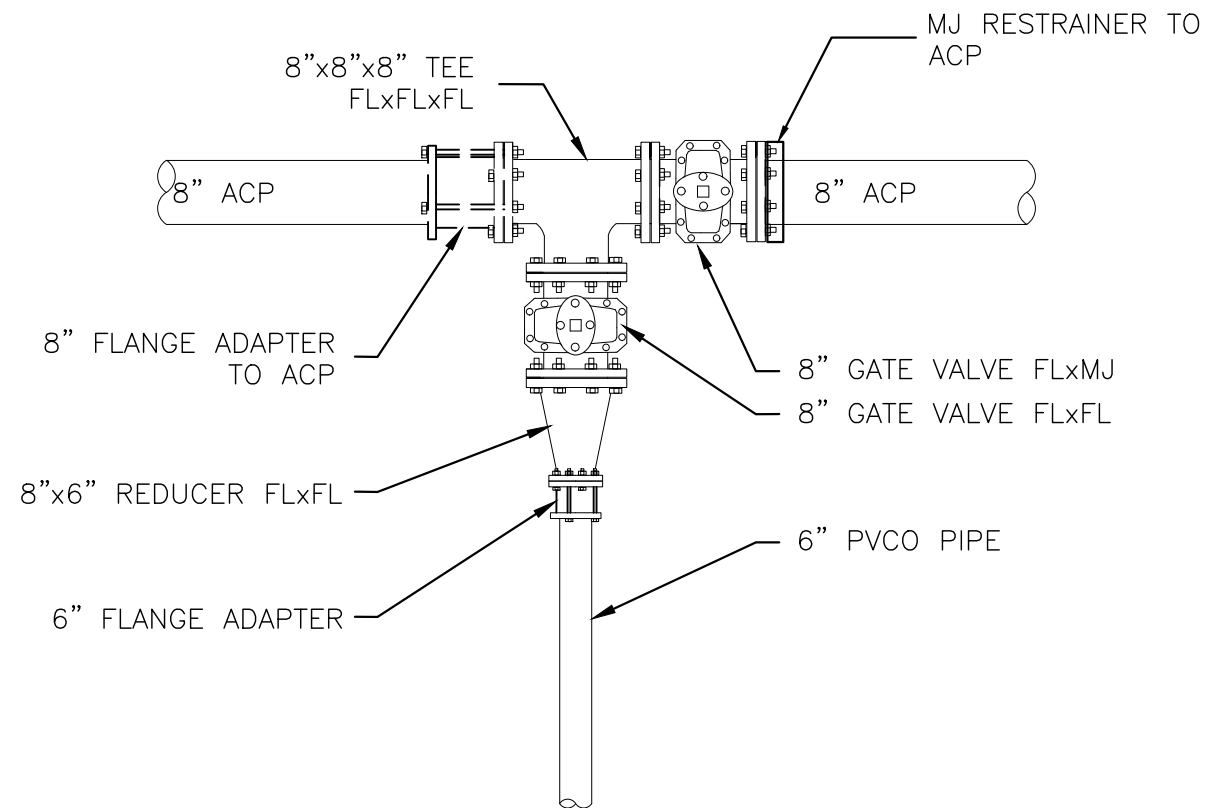


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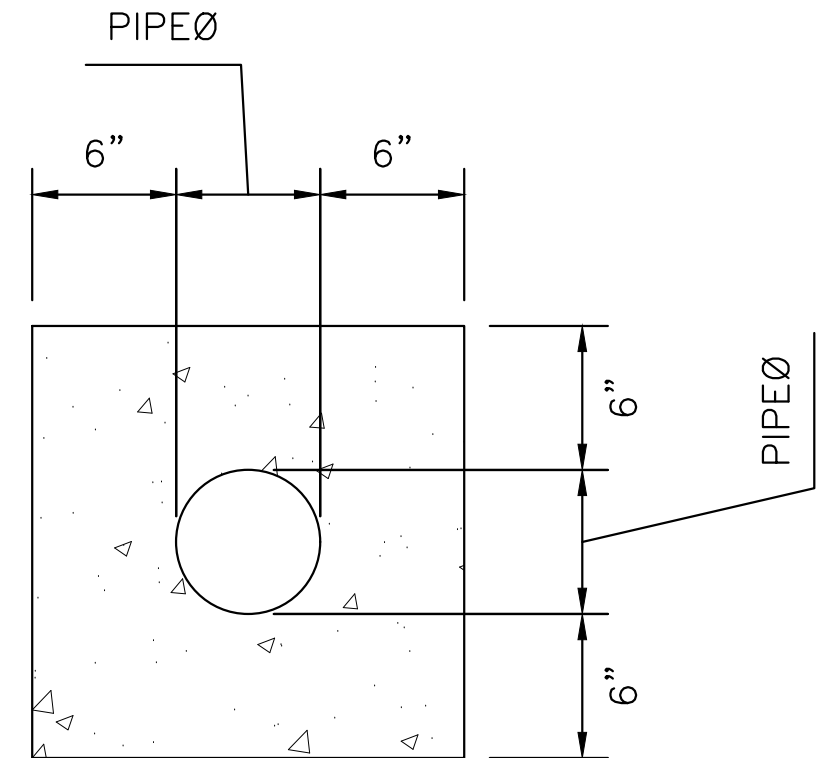
PROJECT NAME:	SCALE:	PROJECT NO.:
WELL #24 CONNECTION PROJECT	AS SHOWN	
DRAWING TITLE:		
TYPICAL PVC PIPE SERVICE LINE CONNECTION DETAILS		
PROJECT LOCATION:	DATE:	SHEET NO. SIGNATURE:
NU'UULI VILLAGE, AMERICAN SAMOA	DEC2019	C15
		DATE:



1 TIE-IN DETAIL
Scale: NTS

NOTE:

1. CONCRETE ENCASEMENT MUST HAVE 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS
2. CONCRETE ENCASEMENT 10' MUST HAVE A MINIMUM LENGTH
3. COST OF CONCRETE ENCASEMENT IS CONTRACTOR RESPONSIBILITIES



2 CONCRETE ENCASEMENT DETAIL
Scale: NTS



REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

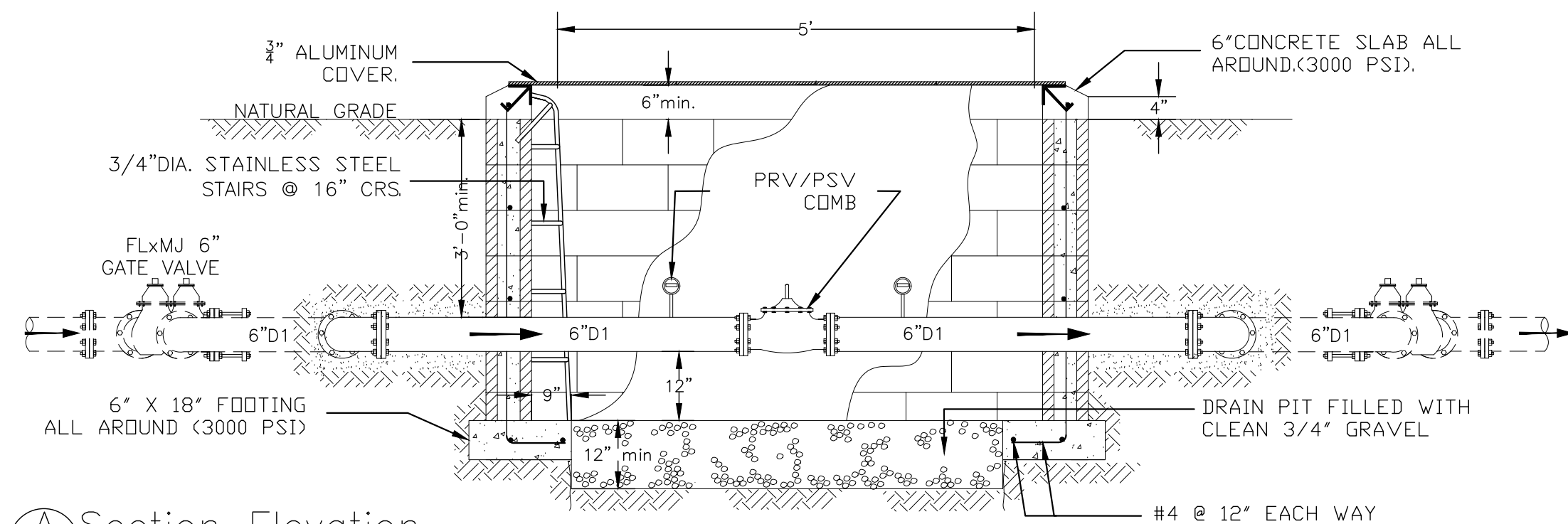
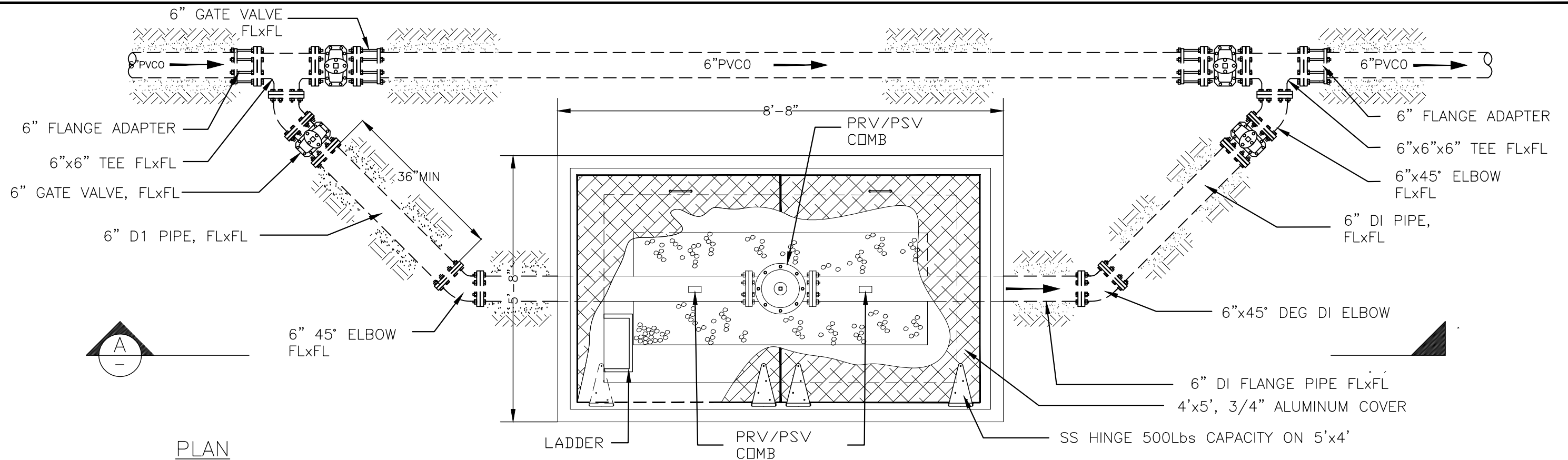


AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA

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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: TIE IN DETAILS CONCRETE ENCASEMENT DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. DATE: C16



REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

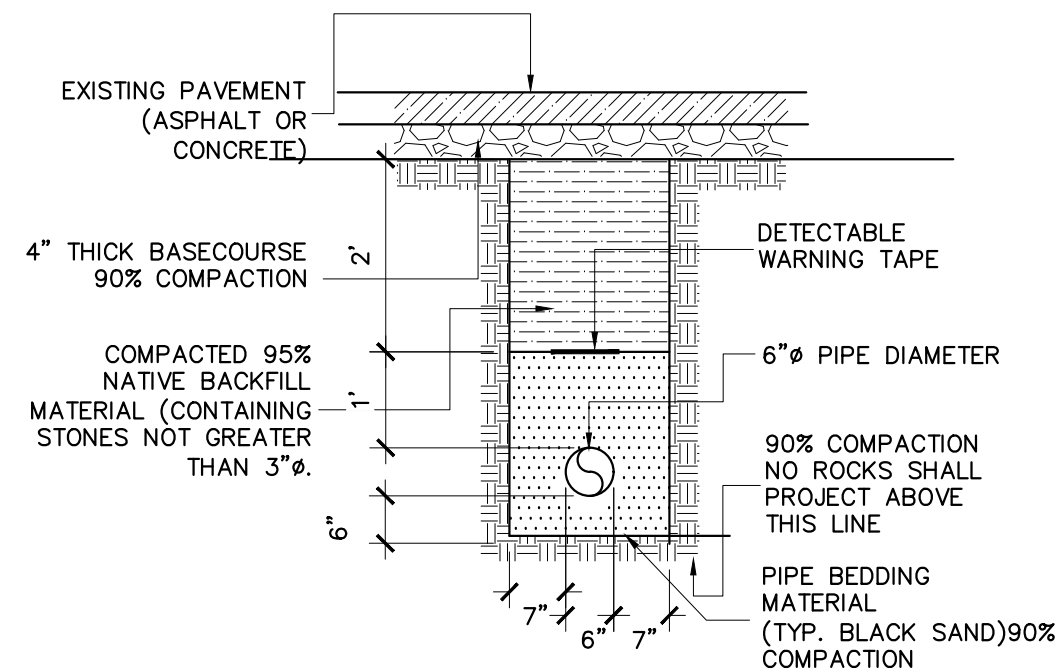


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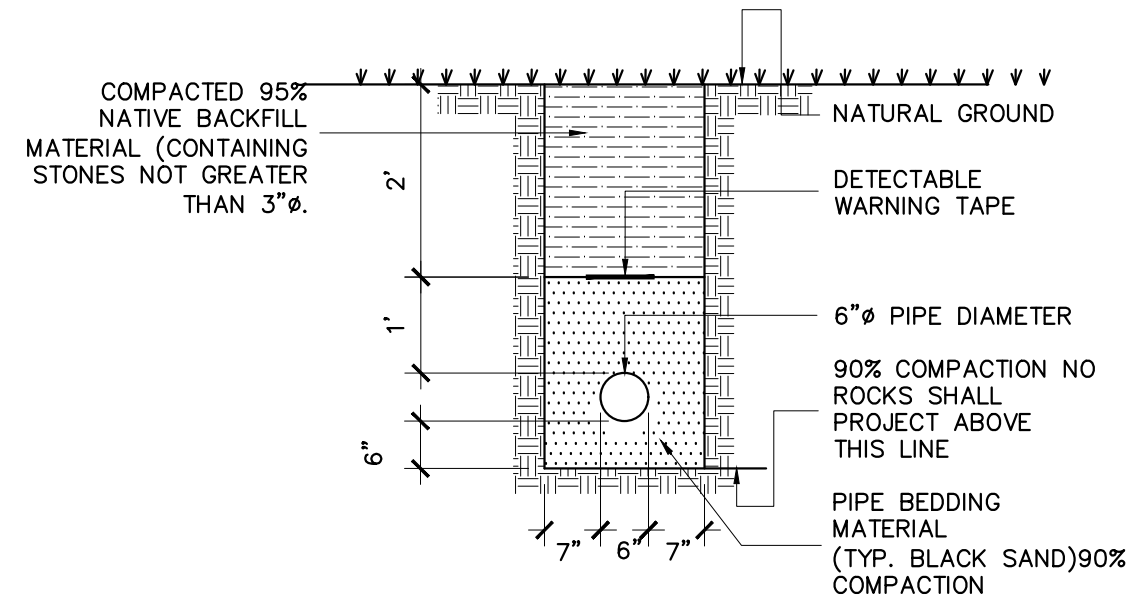
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TAFUNA, AMERICAN SAMOA

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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: NTS	PROJECT NO.:
DRAWING TITLE: PRESSURE/REDUCING SUSTAINING VALVE DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C17
		SIGNATURE: DATE:



1 6" PIPE TRENCH (PAVED)
Scale: NTS



2 6" PIPE TRENCH (UNPAVED)
Scale: NTS

NOTE:

DAMAGED PAVEMENT
RESTORATION MUST BE IN
CONFORMANCE WITH DPWH
SPECIFICATIONS



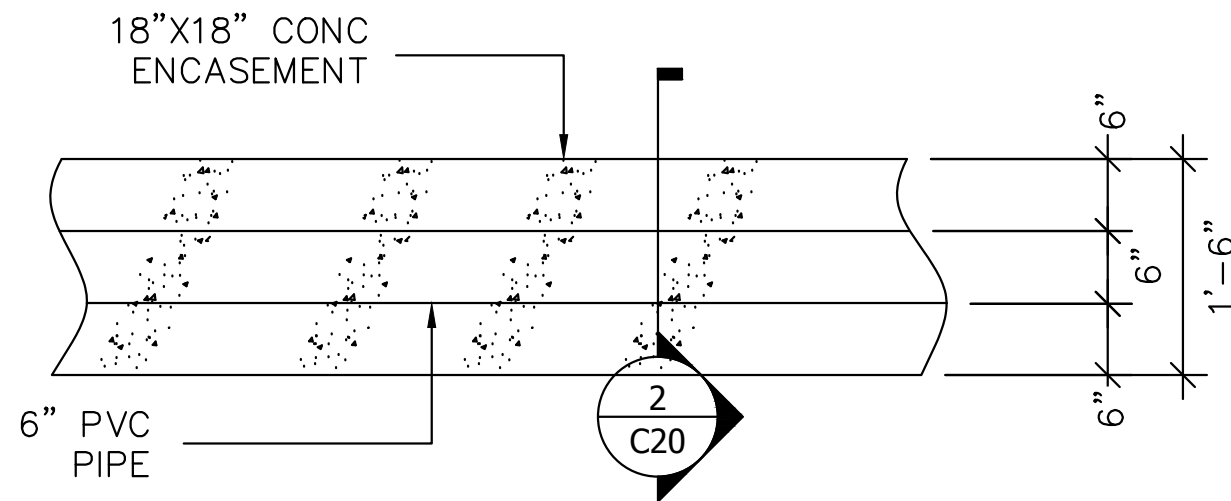
REV. NO.:	PREPARED BY: FAguila
REVISION:	CHECKED BY: —
CHECKED BY:	APPROVED BY: WSpitzenberg, PE
APPROVED BY:	ISSUE FOR: Construction
DATE:	



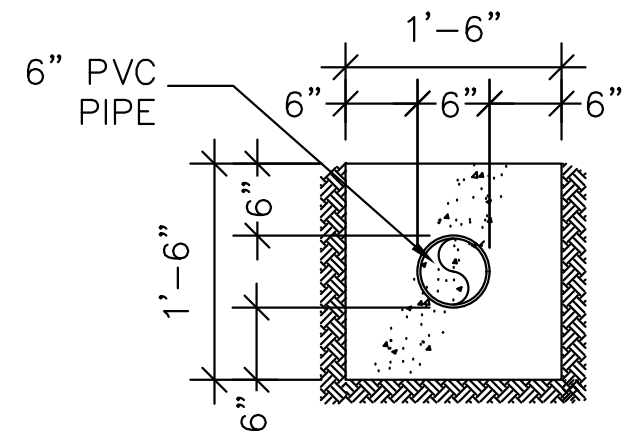
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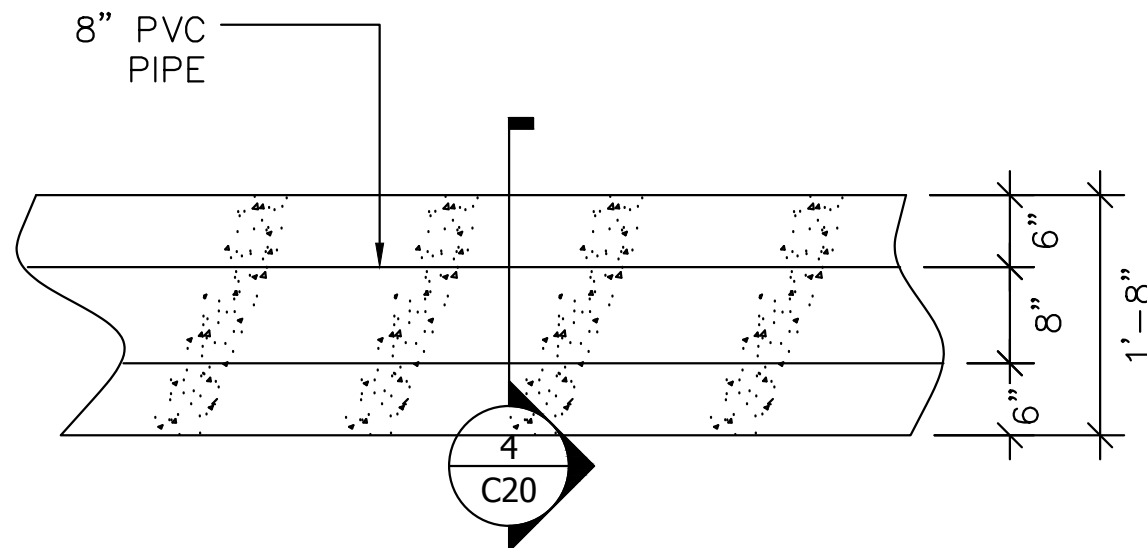
PROJECT NAME: WELL 24 CONNECTION PROJECT	SCALE: NTS	PROJECT NO.:
DRAWING TITLE: TYPICAL TRENCH DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. C19
		SIGNATURE: DATE:



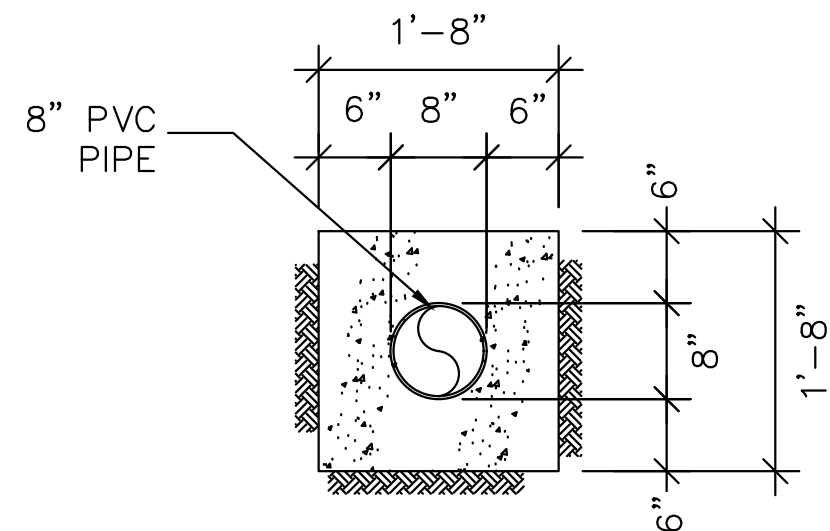
1 6" PIPE ENCASEMENT PLAN
Scale: NTS



2 6" PIPE ENCASEMENT SECTION
Scale: NTS



4 8" PIPE ENCASEMENT PLAN
Scale: NTS



4 8" PIPE ENCASEMENT SECTION
Scale: NTS



REV. NO.:	PREPARED BY:
REVISION:	FToala
CHECKED BY:	FAGuila
APPROVED BY:	WSpitzenberg, PE
DATE:	ISSUE FOR:
	Construction



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PROJECT NAME:	SCALE:	PROJECT NO.:
WELL 24 CONNECTION PROJECT	NTS	
DRAWING TITLE:		
PIPE ENCASEMENT DETAIL		
PROJECT LOCATION:	DATE:	SHEET NO. SIGNATURE:
NU'UULI VILLAGE, AMERICAN SAMOA	DEC2019	C20 DATE:

NOTES:

WATER AND SEWER MAINS SHALL BE SEPARATED IN ORDER TO PROTECT PUBLIC WATER SYSTEMS FROM POSSIBLE CONTAMINATION. ALL DISTANCES ARE MEASURED PERPENDICULARLY FROM THE OUTSIDE OF THE SEWER MAIN TO THE OUTSIDE OF THE WATER MAIN. SEPARATION REQUIREMENTS ARE AS FOLLOWS:

A WATER MAIN SHALL NOT BE PLACED:

1. WITHIN 6 FEET, HORIZONTAL DISTANCE, AND LESS THAN 2 FEET, VERTICAL DISTANCE, ABOVE THE TOP OF A SEWER MAIN UNLESS EXTRA PROTECTION IS PROVIDED. EXTRA PROTECTION SHALL CONSIST OF CONSTRUCTING THE SEWER MAIN WITH MECHANICAL JOINT DUCTILE IRON PIPE OR WITH SLIP-JOINT DUCTILE IRON PIPE IF JOINT RESTRAINT IS PROVIDED. ALTERNATE EXTRA PROTECTION SHALL CONSIST OF ENCASING BOTH THE WATER AND SEWER MAINS IN AT LEAST 6 INCHES OF CONCRETE FOR AT LEAST 10 FEET BEYOND THE AREA SPECIFIED BY THIS SUBSECTION

2. BENEATH A SEWER LINE.

(a) NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND MANHOLES SHALL BE 6 FEET, MEASURED FROM THE CENTER OF THE MANHOLE.

(b) THE SEPARATION BETWEEN FORCE MAINS OR PRESSURE SEWERS AND WATER MAINS SHALL BE NOT LESS THAN 2 FEET VERTICALLY AND NOT LESS THAN 6 FEET HORIZONTALLY UNDER ALL CONDITIONS. WHERE A SEWER FORCE MAIN CROSSES LESS THAN 6 FEET BELOW A WATER LINE, THE SEWER AND WATER MAINS SHALL BE ENCASED IN AT LEAST 6 INCHES OF CONCRETE OR CONSTRUCTED USING MECHANICAL JOINT DUCTILE IRON PIPE FOR NOT LESS THAN 10 FEET ON EITHER SIDE OF THE WATER MAIN. NO SEWER FORCE MAIN SHALL CROSS ABOVE A WATER MAIN.

(c) CONCRETE ENCASEMENT MUST BE 3000PSI IN 28DAYS PERIOD



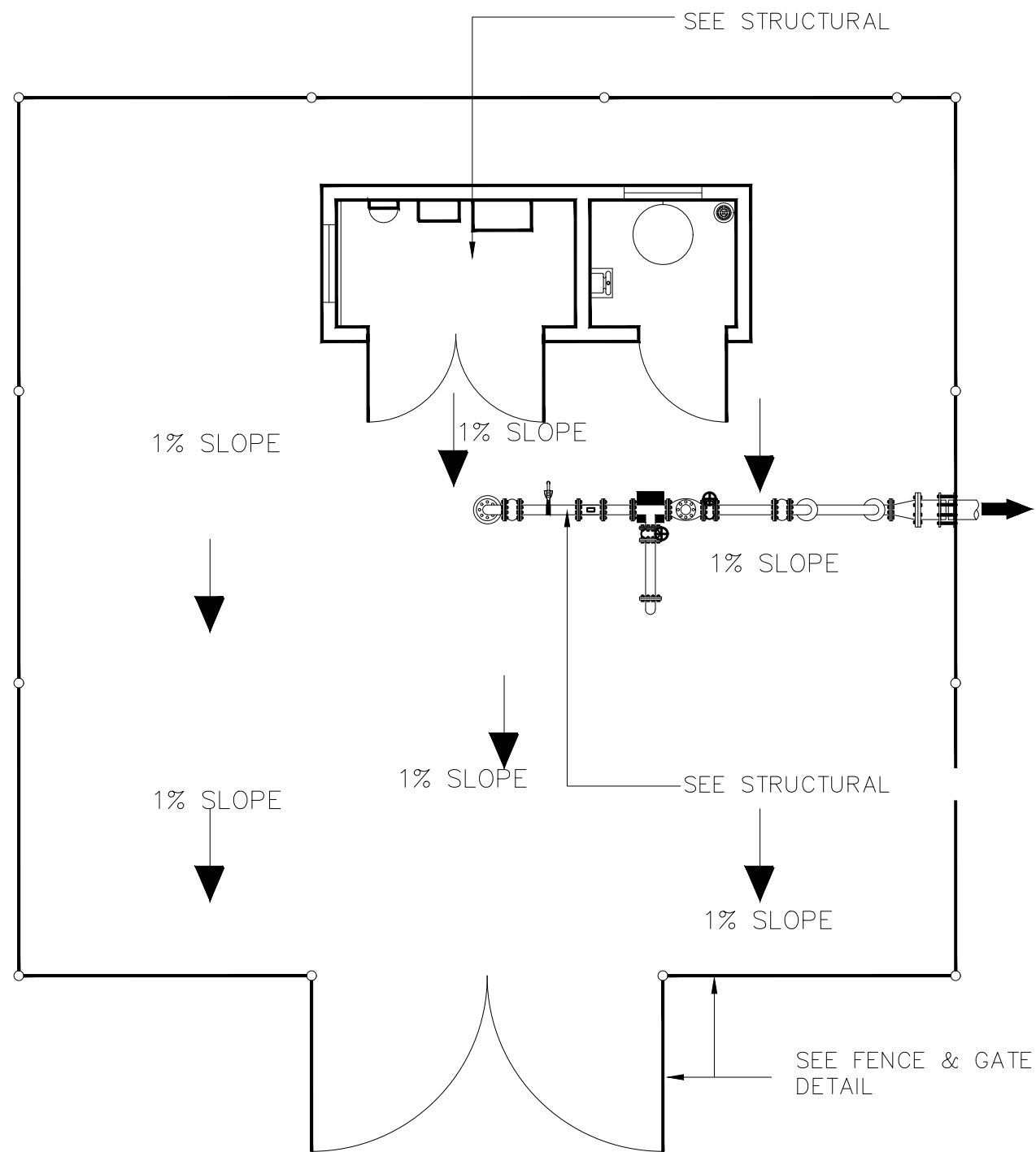
REV. NO.:	PREPARED BY: FToala
REVISION:	CHECKED BY: FAguila
CHECKED BY:	APPROVED BY: WSpitzenberg, PE
APPROVED BY:	ISSUE FOR: Construction
DATE:	



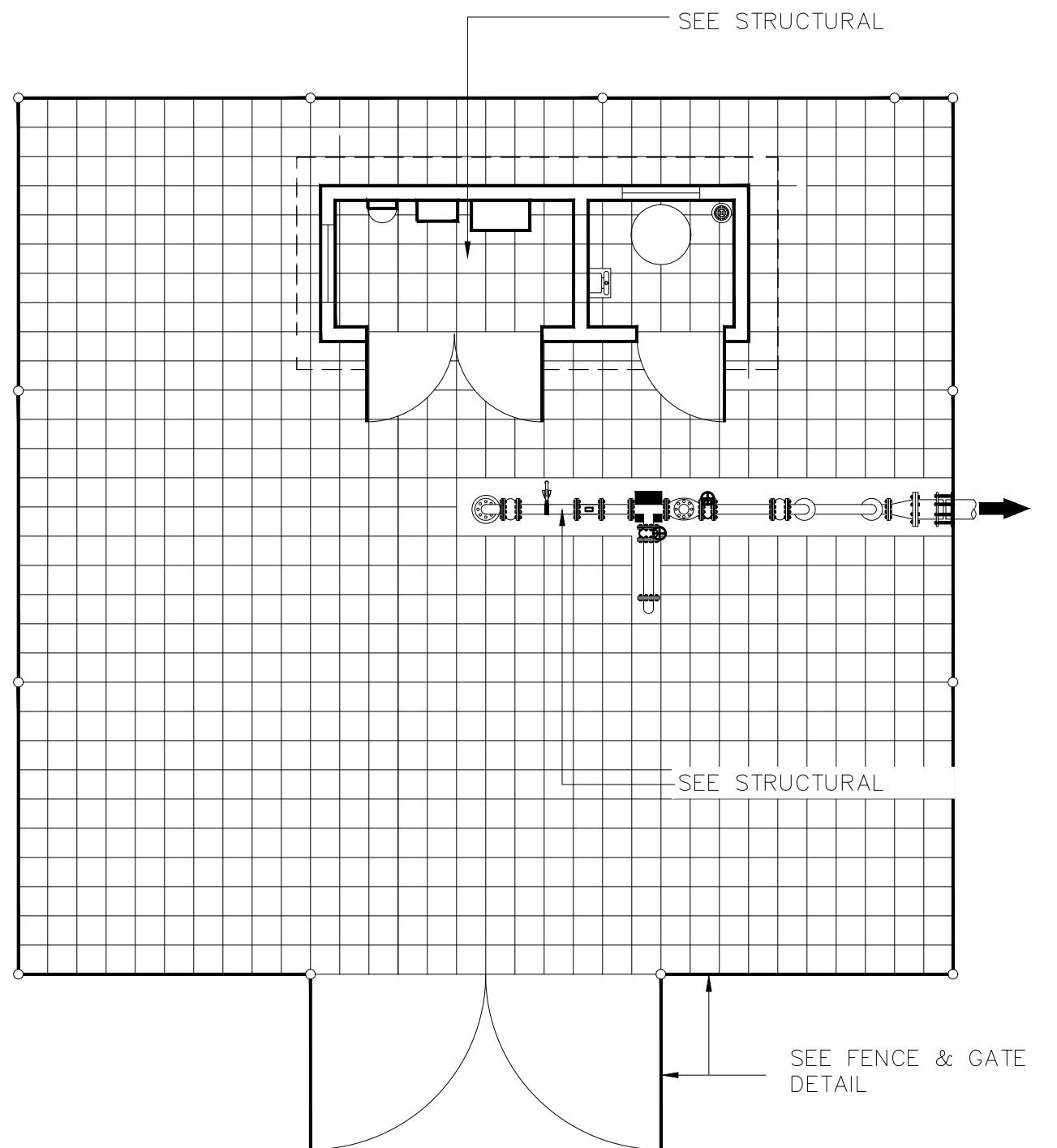
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PROJECT NAME:	SCALE:	PROJECT NO:
WELL 24 CONNECTION PROJECT	NTS	
DRAWING TITLE:		
PIPE ENCASEMENT NOTES		
PROJECT LOCATION:	DATE:	SHEET NO. SIGNATURE:
NU'UULI VILLAGE, AMERICAN SAMOA	DEC2019	C21



1 SLOPE SLAB PLAN
Scale: 3/16" :1'



2 FLOOR SLAB PLAN
Scale: 3/16" :1'



REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen
REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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TAFUNA, AMERICAN SAMOA

PROJECT NAME:
NU'UULI WELL # 24 CONNECTION
PROJECT

SCALE:
AS
SHOWN

PROJECT NO:

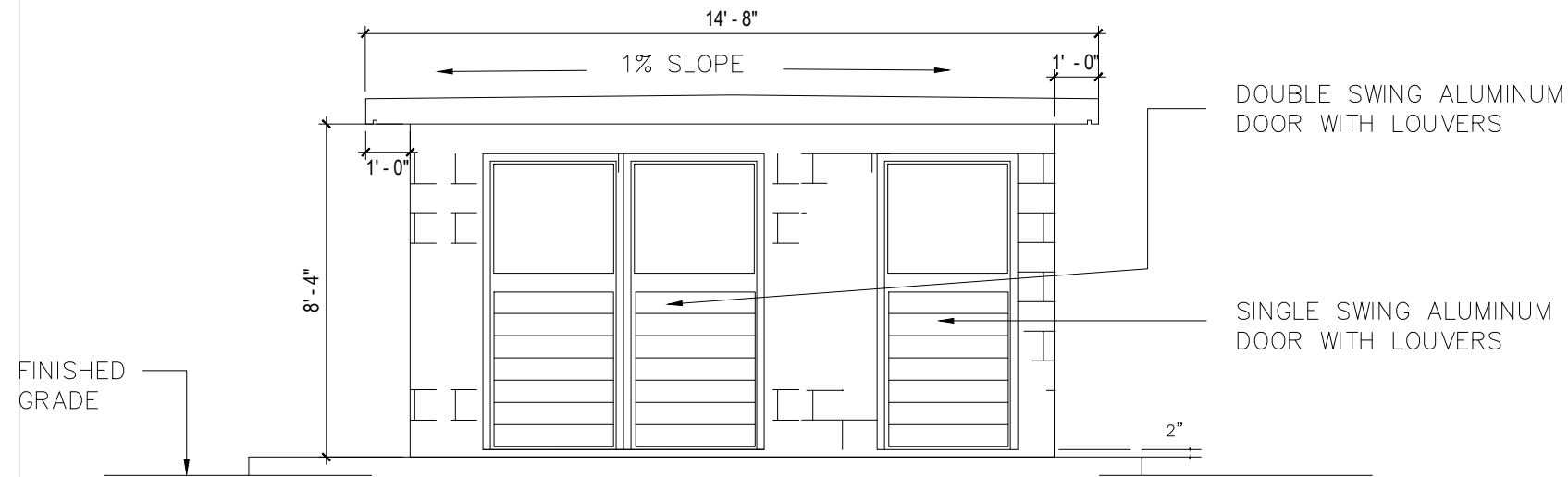
DRAWING TITLE:
DEEP WELL SLAB AND SLOPE PLAN

PROJECT LOCATION:
NU'UULI VILLAGE, AMERICAN SAMOA, 96799

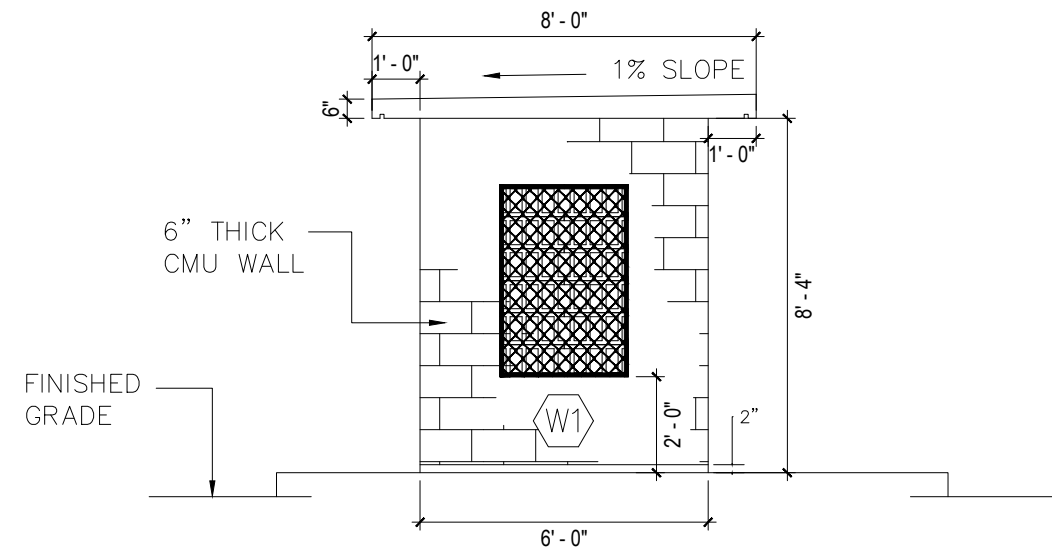
DATE:
DEC2019

SHEET NO.
S1

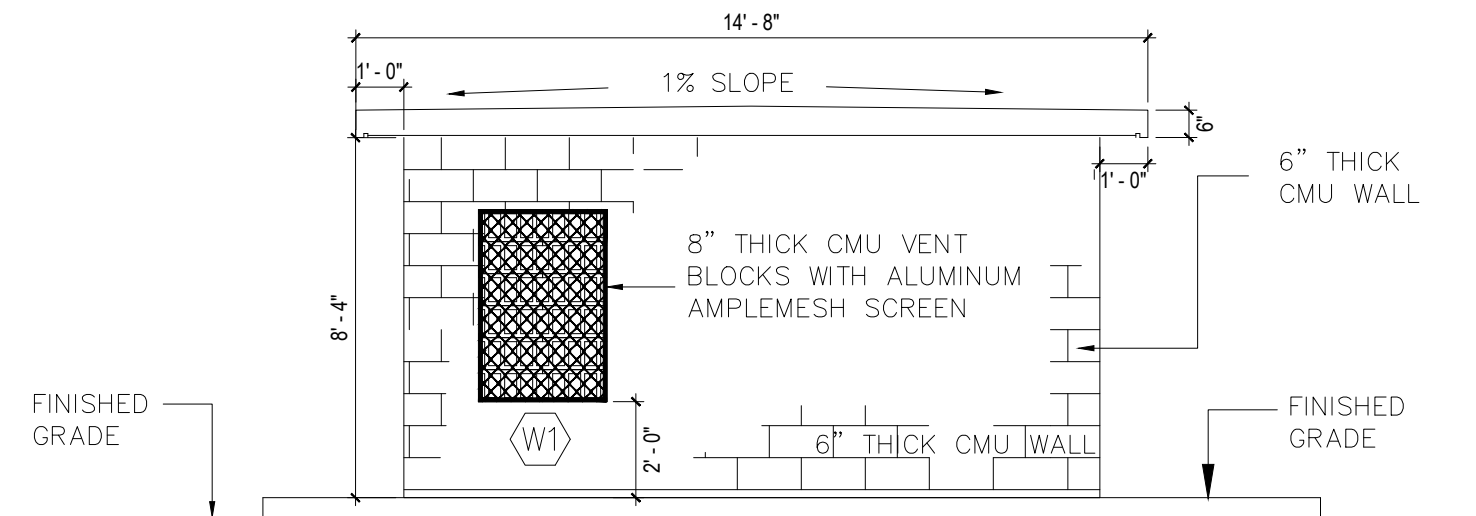
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DATE:



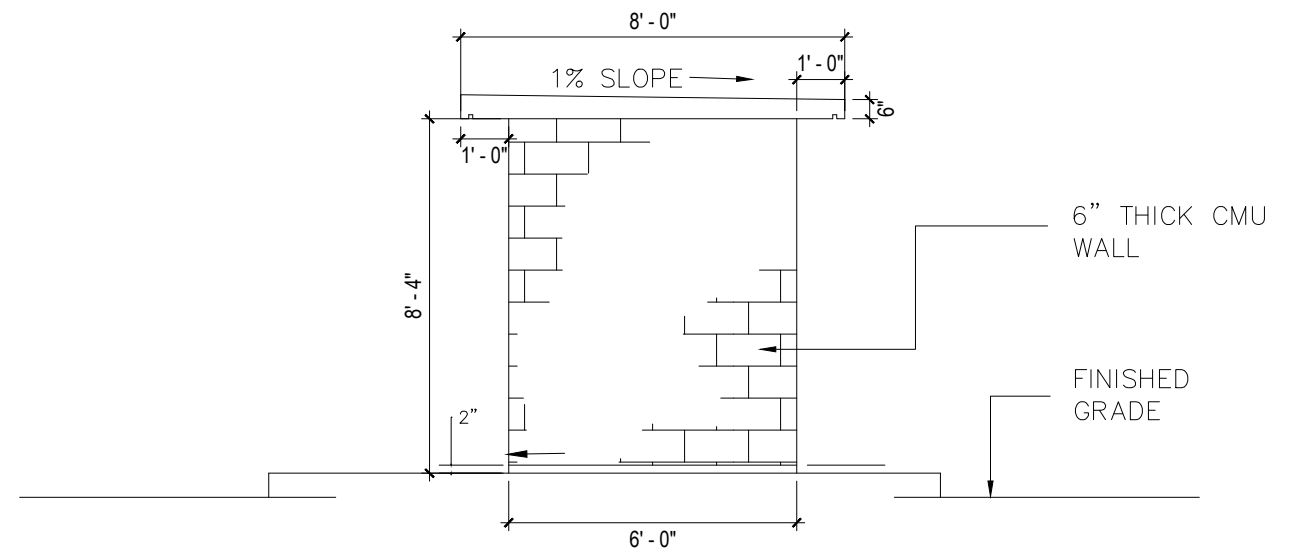
1 FRONT ELEVATION
Scale: 1/4: 1'



2 LEFT- SIDE ELEVATION
Scale: 1/4: 1'



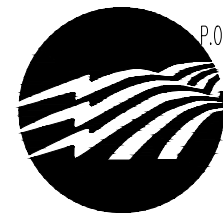
3 REAR ELEVATION
Scale: 1/4: 1'



4 RIGHT- SIDE ELEVATION
Scale: 1/4: 1'



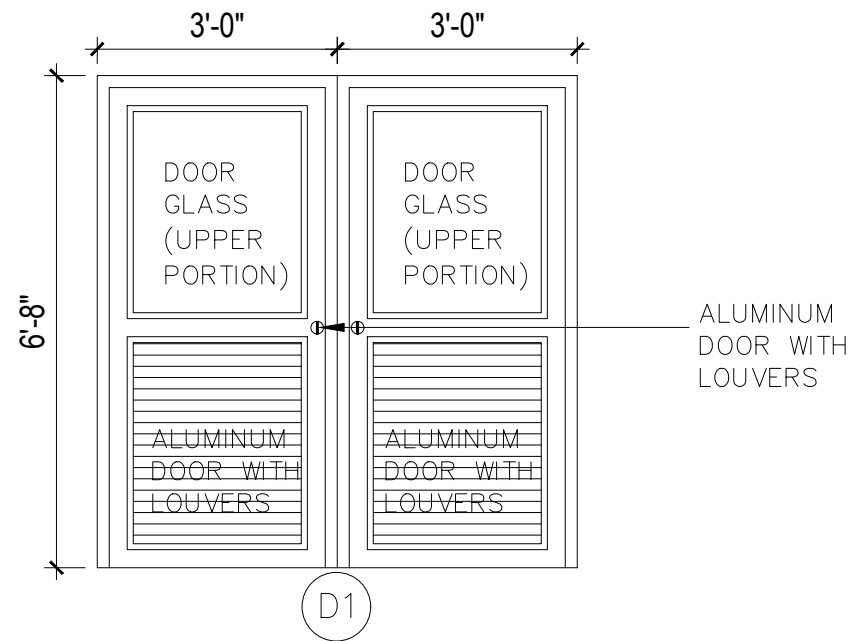
REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen
REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



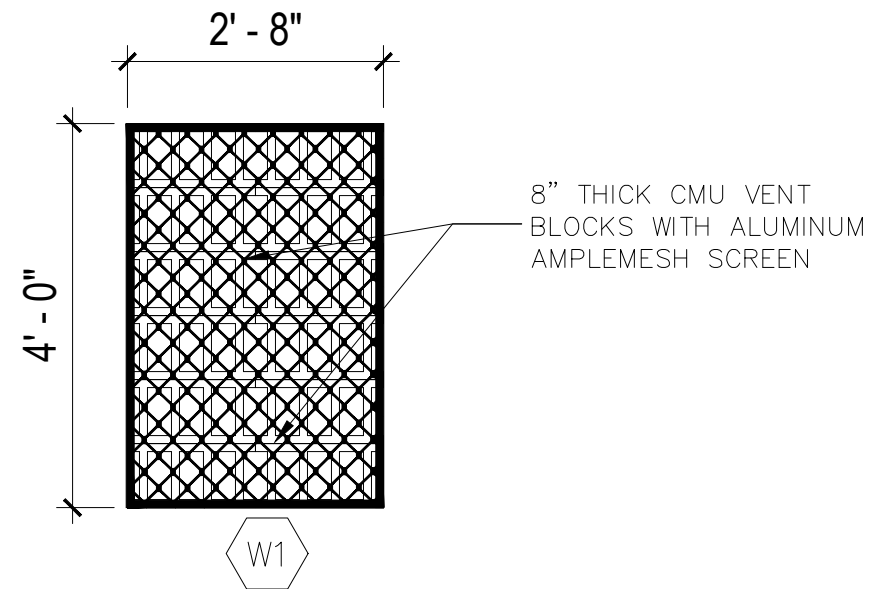
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TAFUNA, AMERICAN SAMOA

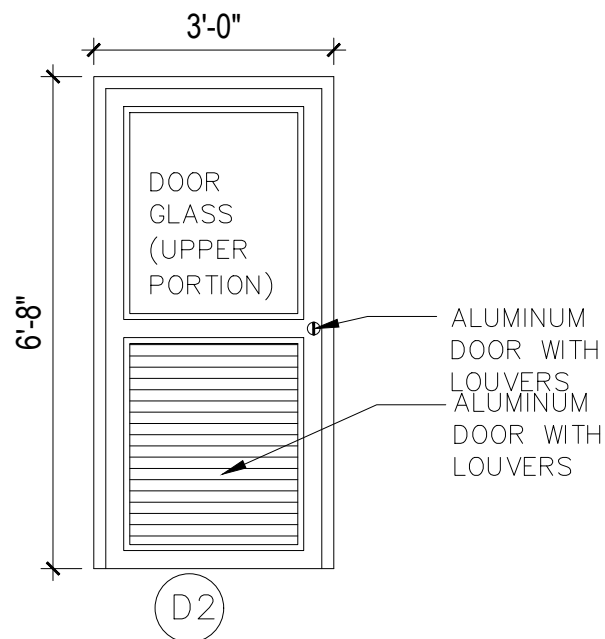
PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: FRONT, REAR, SIDE ELEVATIONS AND WINDOW DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. S2
		SIGNATURE: DATE:



DOUBLE SWING DOOR DETAILS
SCALE: 3/8" : 1'-0"



WINDOW DETAILS
SCALE: 3/8" : 1' - 0"



SINGLE DOOR DETAIL
SCALE: 3/8" : 1'-0"



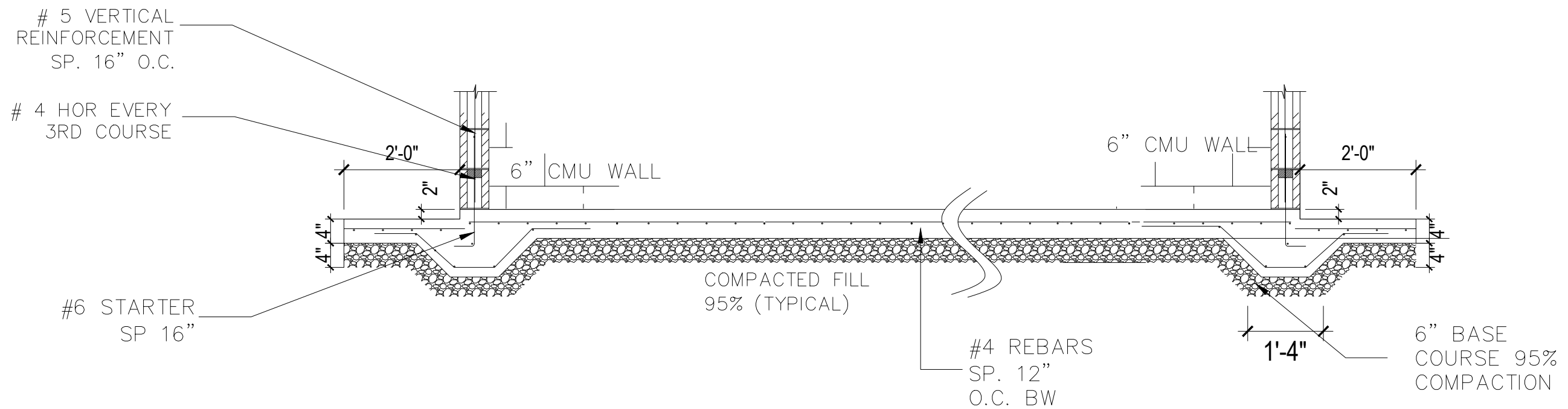
REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen CHECKED BY: Faguila APPROVED BY: WSpitzenberg, P.E. ISSUE FOR: Construction
REVISION:	
CHECKED BY:	
APPROVED BY:	
DATE:	



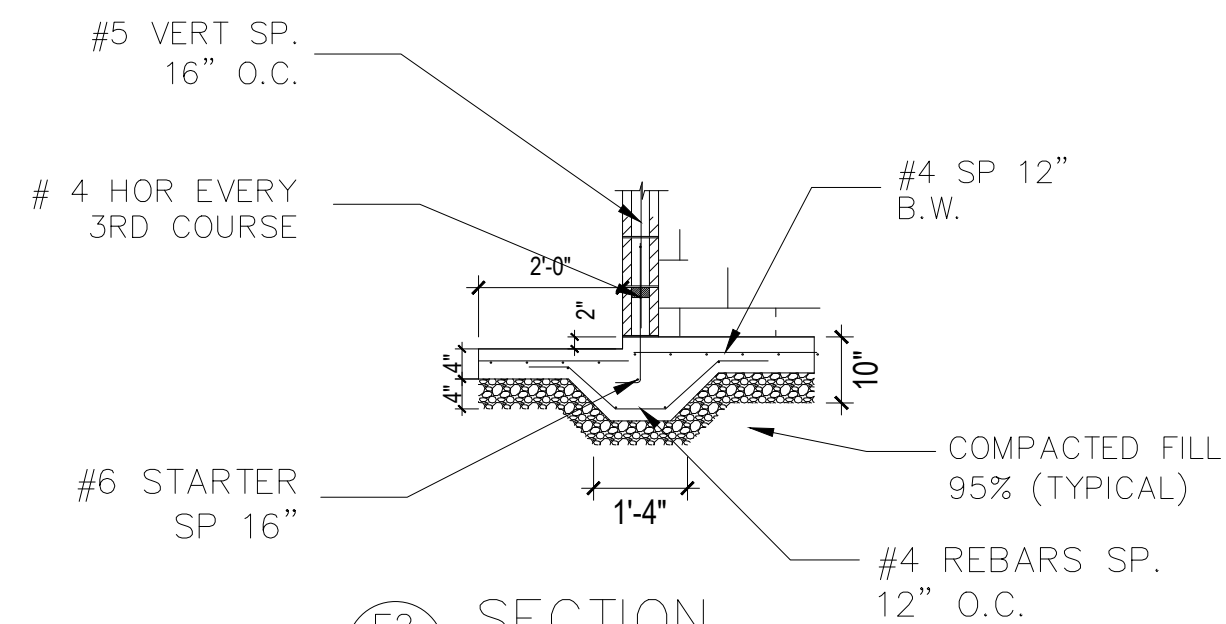
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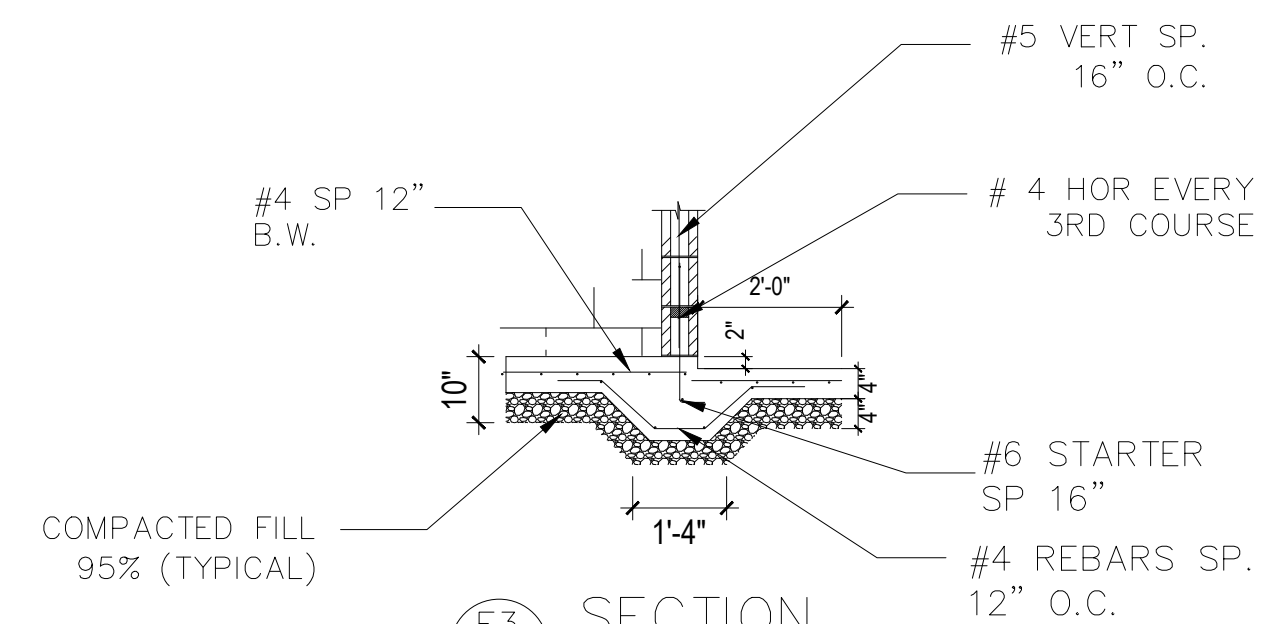
PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:	
DRAWING TITLE: DOOR & WINDOW SCHEDULE			
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. S3	SIGNATURE: DATE:



F1
SECTION
SCALE: 3/8" : 1'-0"



F2
SECTION
SCALE: 3/8" : 1'-0"



F3
SECTION
SCALE: 3/8" : 1'-0"



REV. NO.:	DESIGNED & PREPARED BY: GPacunayen
REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	

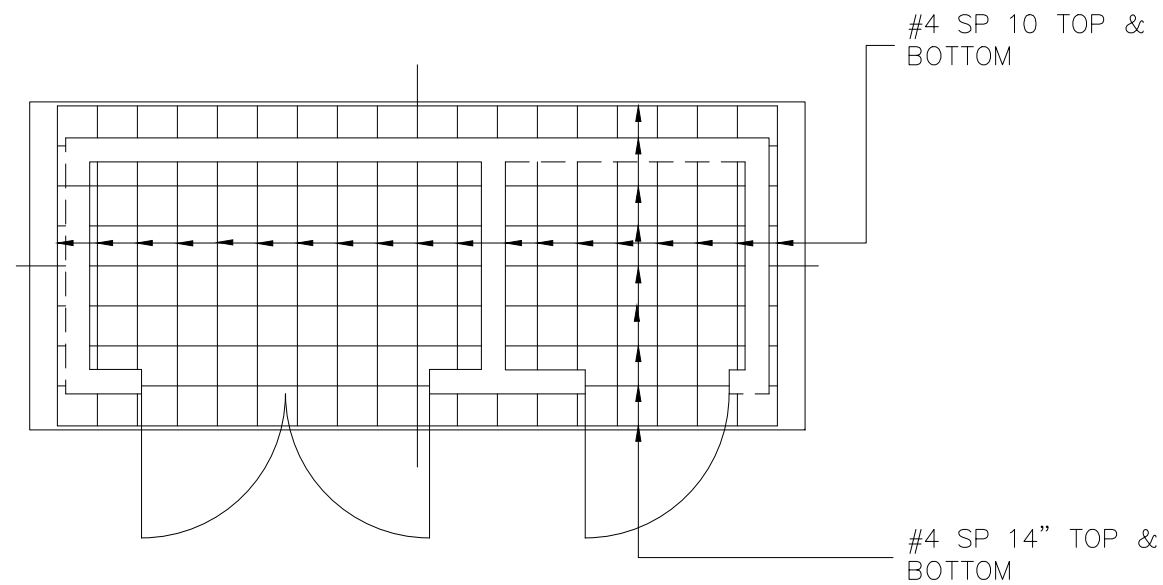
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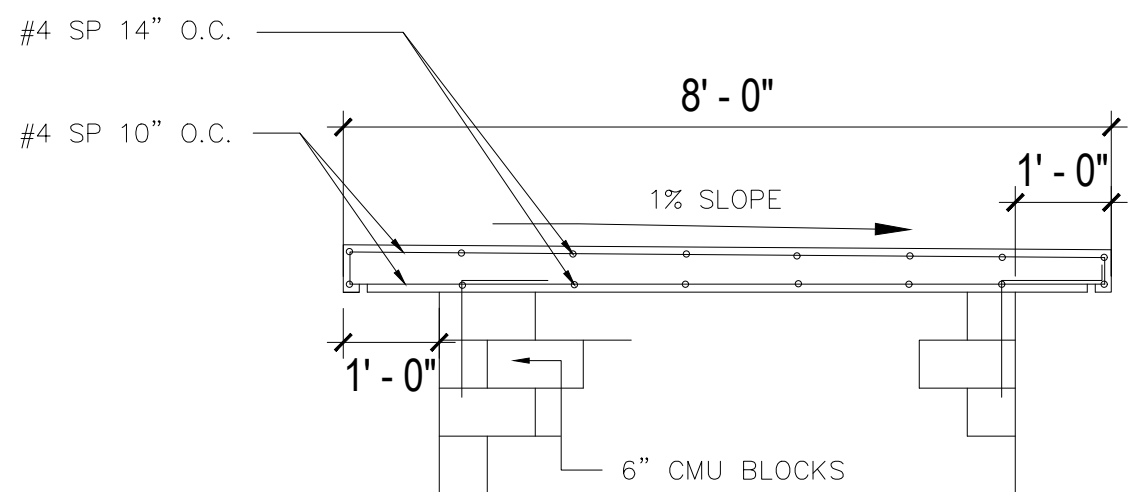
TAFUNA, AMERICAN SAMOA

AMERICAN SAMOA POWER AUTHORITY

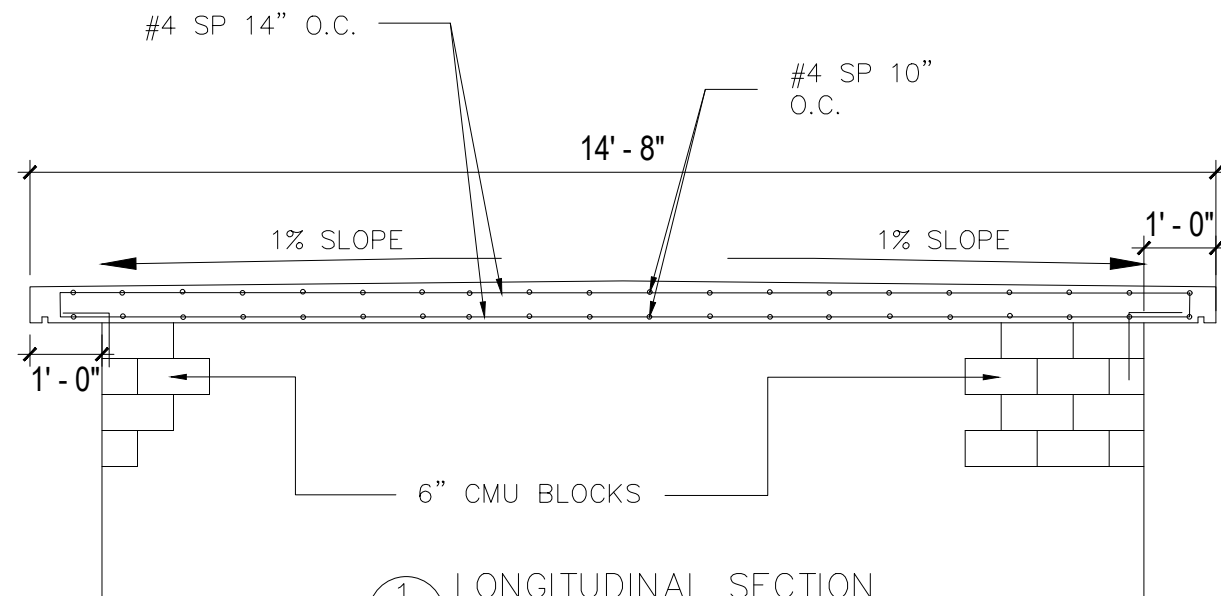
PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: FOUNDATION PLAN AND SECTIONS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. S4
		SIGNATURE: DATE:



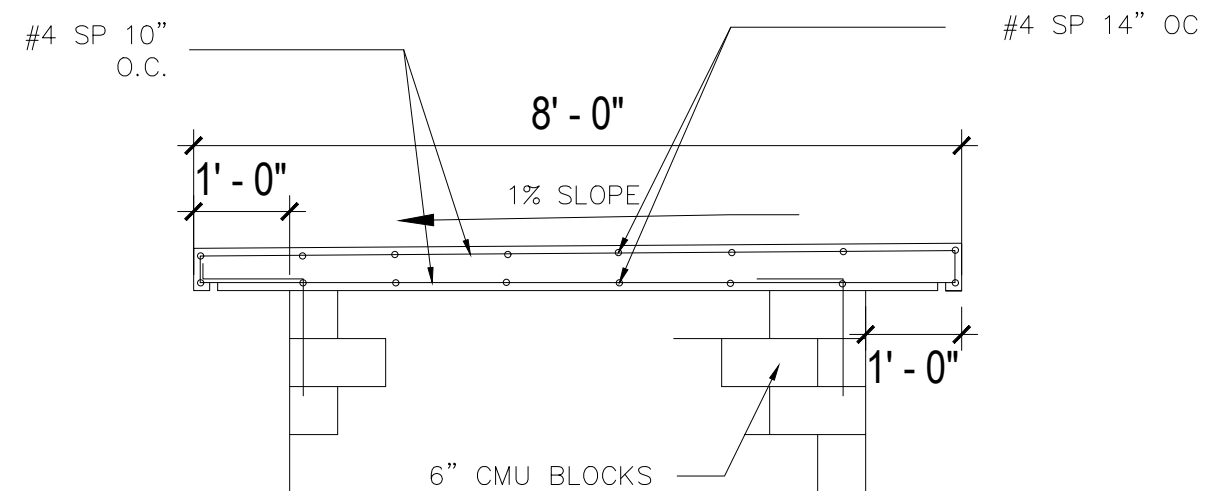
ROOF SLAB PLAN
SCALE: 1/4" : 1'-0"



2 CROSS SECTION
SCALE 1/2" : 1'-0"



1 LONGITUDINAL SECTION
SCALE: 3/8" : 1'-0"



2 CROSS SECTION
SCALE: 1/2" : 1'-0"



REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen
REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



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TAFUNA, AMERICAN SAMOA

PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: ROOF SLAB, LONGITUDINAL AND CROSS SECTION DETAIL		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. S5
		SIGNATURE: DATE:

CONCRETE:

1. THE ENGINEER SHALL BE GIVEN 24 HRS NOTICE FOR REINFORCEMENT INSPECTION. CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED FOR THE REINFORCEMENT.
2. ALL CONCRETE SHALL HAVE THE WORKABILITY AND CONSISTENCY TO BE DEPOSITED INTO FORMS AND WORKED AROUND REINFORCEMENT WITHOUT AGGREGATION AND EXCESSIVE BLEEDING. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTING SHALL BE COMPACTED WITH MECHANICAL VIBRATION.
3. A MINIMUM OF THREE SAMPLES SHALL BE TAKEN FROM EACH DAY OF POUR FOR TESTING. TESTING SHALL BE CARRIED OUT AT 7 DAYS AND 28 DAYS. SLUMP NOT TO EXCEED 4".
4. INTERNAL FLOOR SHALL RECEIVE A STEEL TROWELED FINISH. EXTERNAL FOOTPATH SHALL HAVE BROOM FINISH TRANSVERSAL.
5. THE FINISH TOLERANCE OF CONCRETE FLOOR SLAB SHALL BE 1/4" IN 10 FT.
6. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACE CONTINUOUSLY WET FOR A PERIOD OF SEVEN (7) DAYS. APPROVED CURING COMPOUND MAY BE USED WHERE NO FLOOR FINISH IS REQUIRED. POLYETHYLENE SHEETING MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.

FORMWORKS CONSTRUCTIONS:

1. FORMS SHALL CONFORM TO LINES AND DIMENSION OF THE MEMBER AS REQUIRED BY DESIGN DRAWING AND SPECIFICATION.
2. FORMS SHALL BE CONSTRUCTED BY THE FOLLOWING MATERIALS:
HIDDEN SURFACE ROUGH SAWN OR BETTER TIMBER
EXPOSED SURFACES PLYWOOD, DRESSED T & G, OR STEEL.

DETAIL OF REINFORCEMENT:

1. ALL REINFORCEMENT SHALL BE BENT COLD. BENDING SHALL BE AS IN DESIGN.
2. ALL SPLICES SHALL BE MADE ONLY IN POSITION SHOWN ON THE DESIGN. MIN LAP LENGTH SHALL BE AS FOLLOWS:

#3	2 FEET
#4	2 FEET
#5	2'-1"
#6	2'-8"
#7	2'-11"
#8	3'-4"
MESH	6"

3. WELDING OF REINFORCEMENT IS NOT PERMITTED.

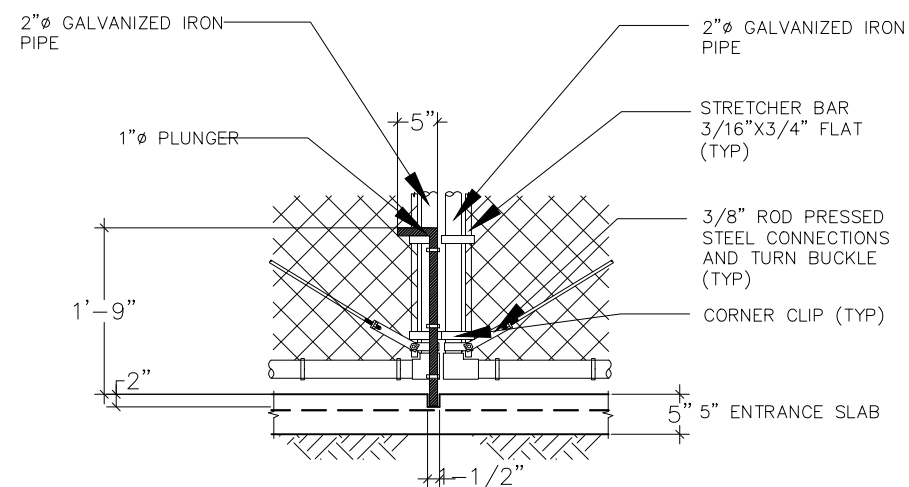
MASONRY:

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF INTERNATIONAL BUILDING CODE (IBC) AND ACI 117-06.
2. MATERIALS:
MASONRY UNIT SHALL HAVE A MIN COMPRESSIVE STRENGTH AT 28 DAYS OF 1500 PSI. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 1500 PSI. GROUT IN MASONRY CELL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI IN 28 DAYS. COLUMNS SHALL BE FILLED WITH STRUCTURAL CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. REINFORCING STEEL BAR SHALL CONFORM TO ASTM 615 GRADE 60.
3. HANDLING:
MASONRY MATERIALS SHALL BE STORED SO THAT AT TIME OF USE, THEY ARE CLEAN AND STRUCTURALLY SUITABLE FOR THE INTENDED USE.
ALL METAL REINFORCEMENT SHALL BE FREE FROM RUST AND OTHER COATING THAT WOULD AFFECT REINFORCING BOND. MORTAR AND GROUT MIXED AT THE JOBSITE SHALL BE MIXED FOR NOT LESS THAN 3 MINUTES AND NOT MORE THAN 10 MINUTES IN CONCRETE MIXER.

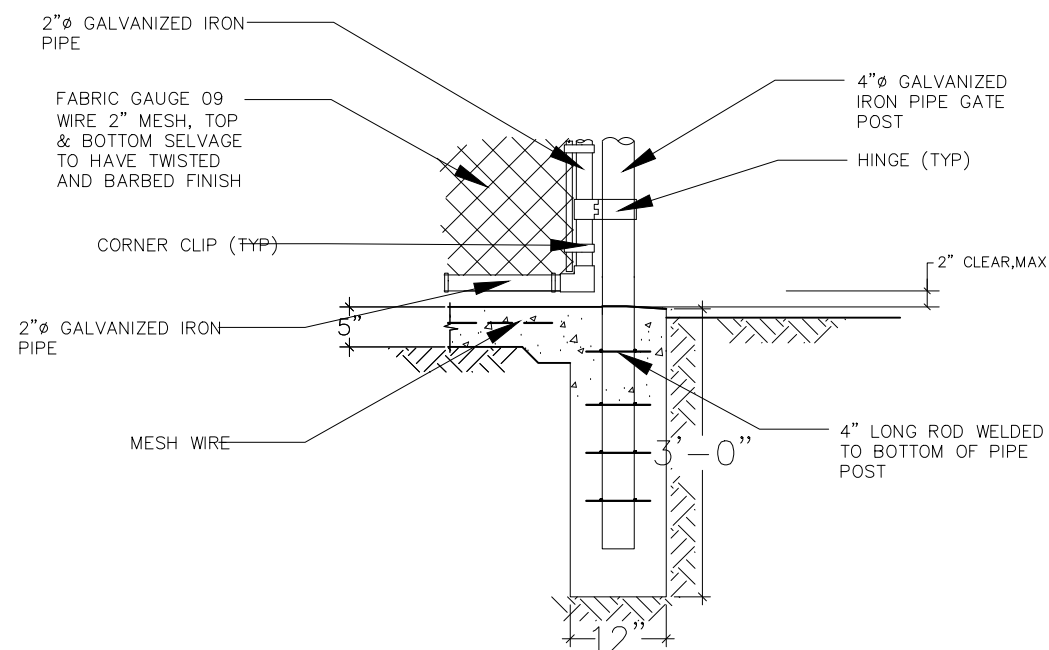
BOLTS AND LAG SCREW:

1. HOLES AND BOLTS SHALL BE BORED WITH A BIT THE SAME DIAMETER AS THE BOLTS. HOLES FOR LAG SCREW SHALL BE BORED WITH A BIT NOT LARGER THAN THE BODY OF THE SCREW AT THE BASE OF THE THREAD.
2. WASHERS OF THE SIZE AND TYPE SPECIFIED SHALL BE USED UNDER ALL BOLTS HEADS AND NUTS.

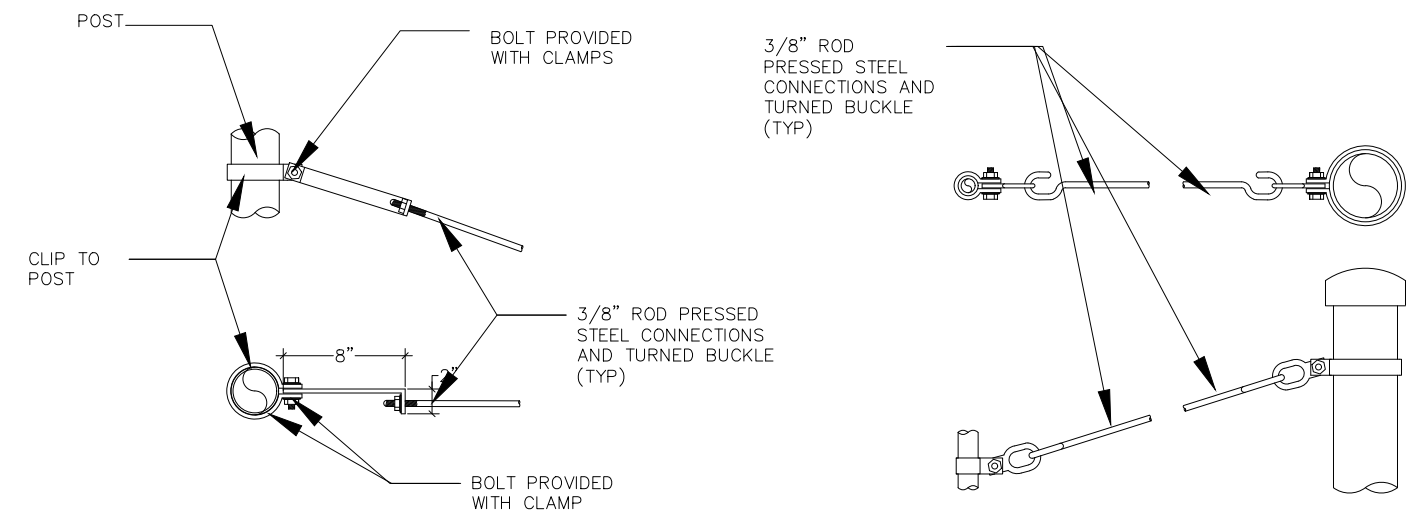
	REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen	 ENGINEERING SERVICES DIVISION P.O. BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675 TAFUNA, AMERICAN SAMOA AMERICAN SAMOA POWER AUTHORITY	PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT		SCALE: AS SHOWN	PROJECT NO:		
	REVISION:	CHECKED BY: FAguila		DRAWING TITLE: PUMP HOUSE CONSTRUCTION GENERAL NOTES					
	CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.							
	APPROVED BY:	ISSUE FOR: Construction							
	DATE:								



1 PLUNGER DETAIL
SCALE: 2" : 1' - 0"

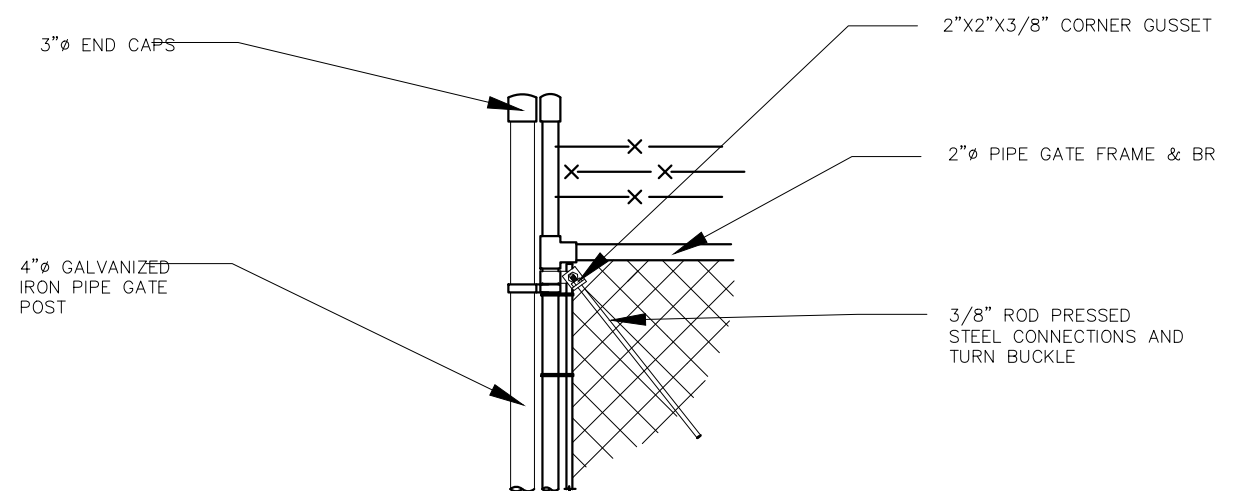


2 GATE POST FOOTING
SCALE: 1/2" : 1' - 0"



3 3/8" ROD CONNECTION (TYP.)
SCALE: 1" : 1' - 0"

4 3/8" ROD CONNECTION TO GATE POST (TYP.)
SCALE: 1" : 1' - 0"



5 TOP OF GATE POST
SCALE: 1/2" : 1' - 0"



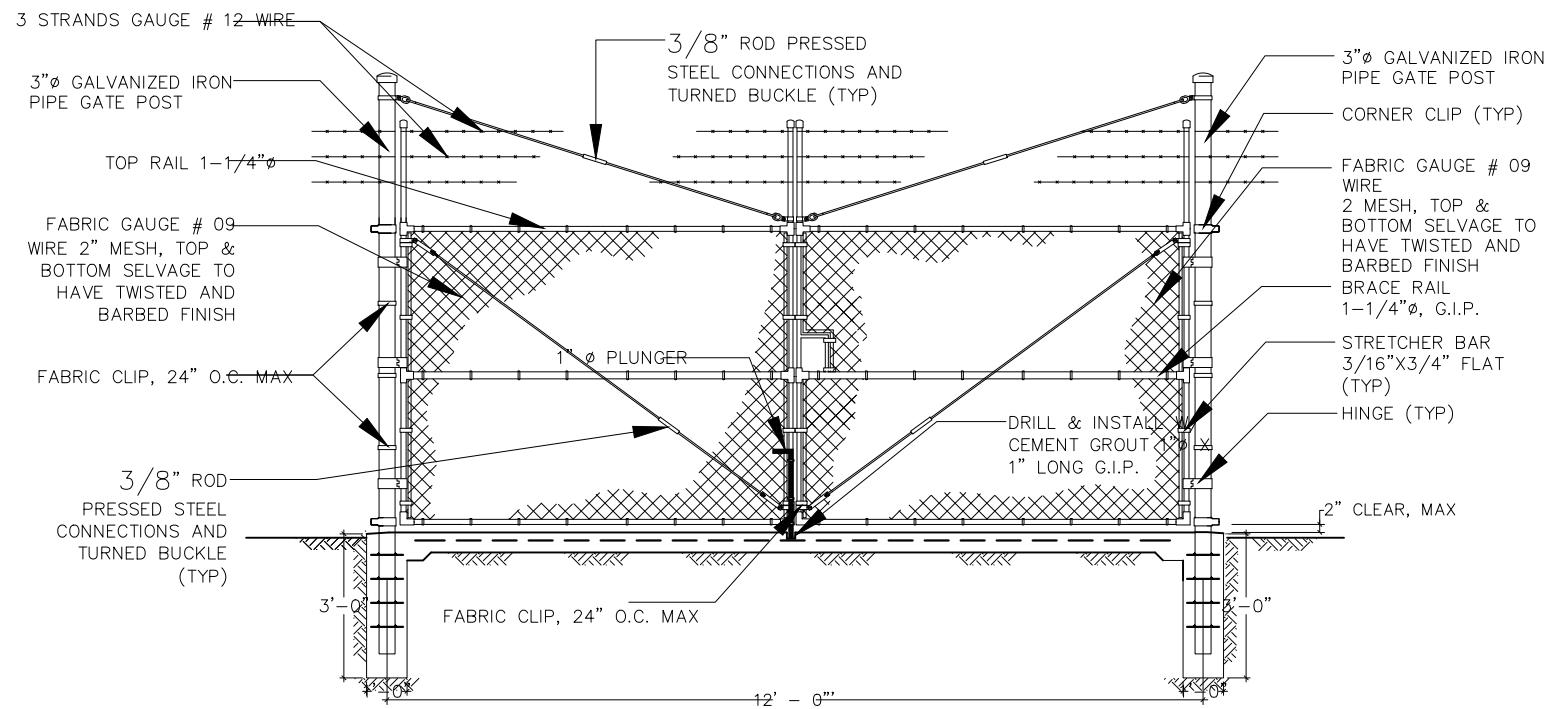
REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen
REVISION:	CHECKED BY: F Aguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



AMERICAN SAMOA POWER AUTHORITY

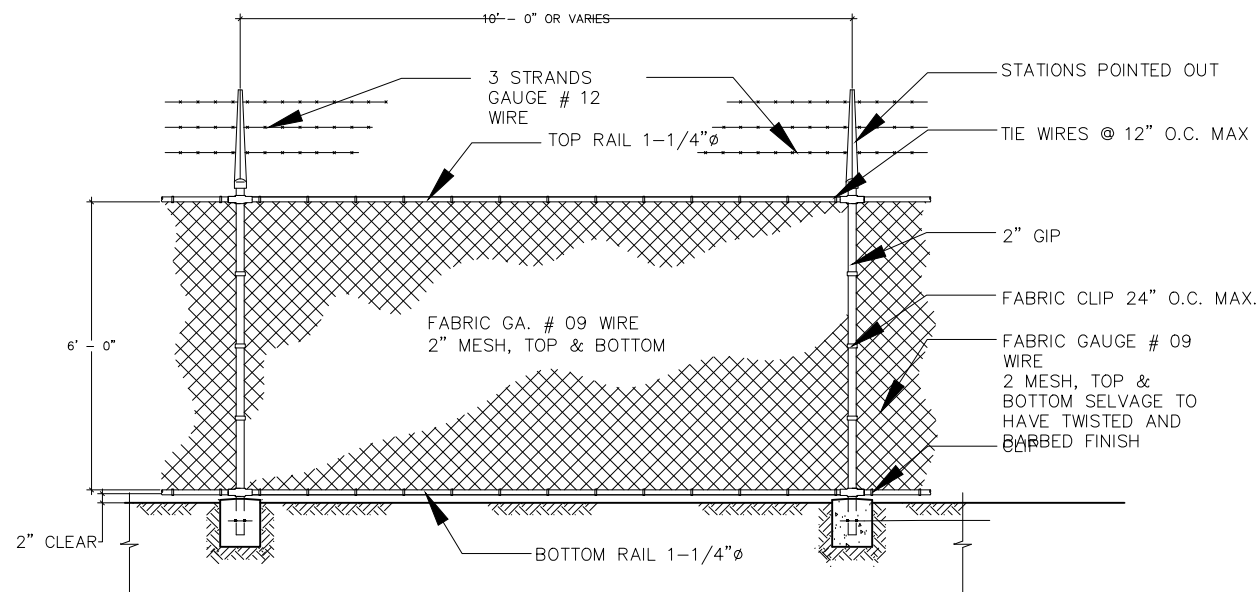
ENGINEERING SERVICES DIVISION
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TAFUNA, AMERICAN SAMOA

PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: GATE, TOP POST, PLUNGER AND DETAILS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. S8
		SIGNATURE: DATE:



DOUBLE SWING GATE

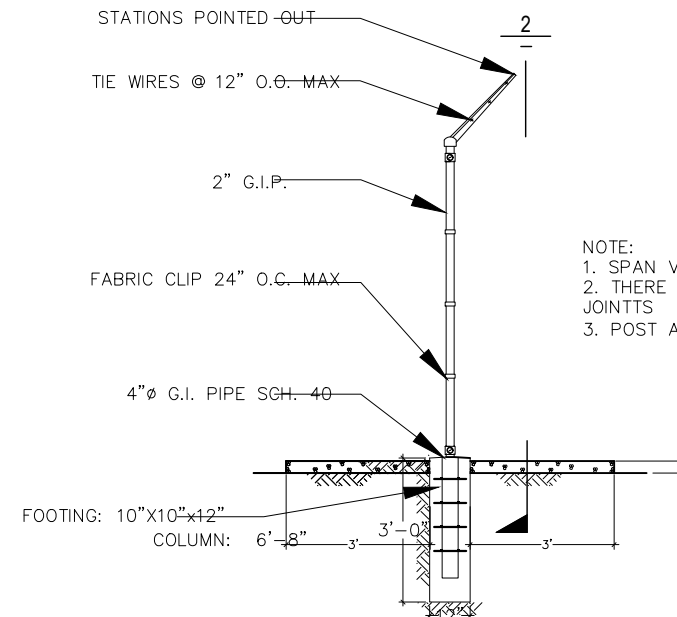
SCALE: 1/4" : 1'-0"



TYPICAL SPAN

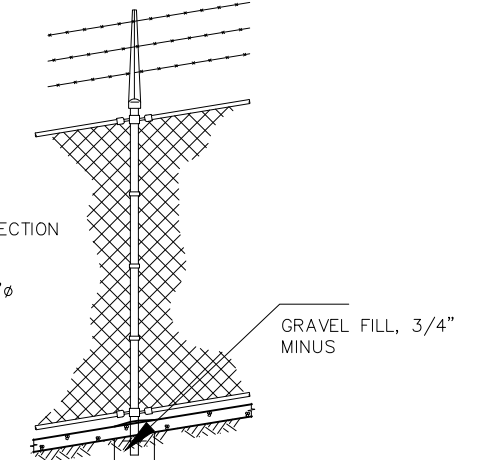
SCALE: 1/4" : 1'-0"

NOTE:
SPAN @ 10 FT. MAXIMUM
HEIGHT OF CHAIN LINK = 6 FT.
PROVIDE DIAGONAL BRACE @ CORNERS =
1-1/2"
FOR SPAN & GATE, REFER TO STANDARDS

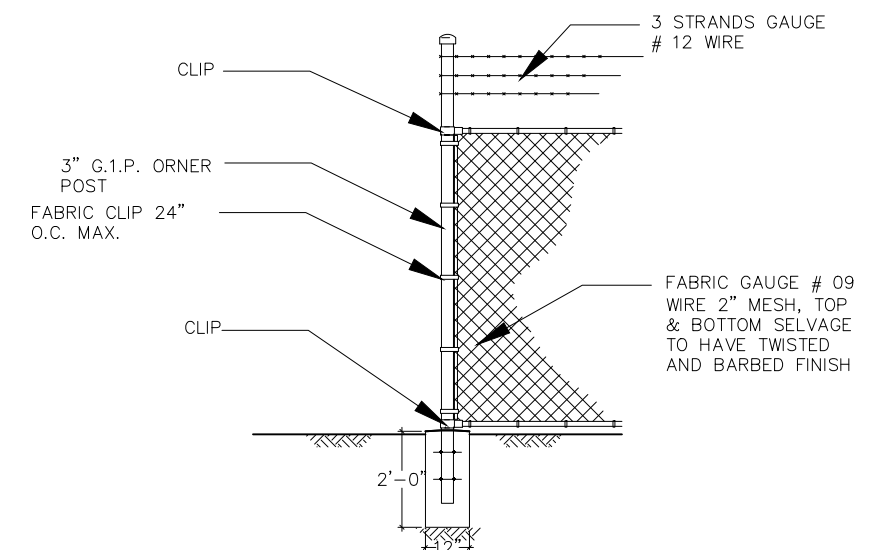


INTERMEDIATE POST

SCALE: 1/4" : 1'-0"



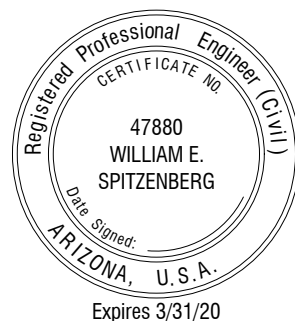
SECTION 2
SCALE: 1/4" : 1'-0"



CORNER POST

SCALE: 1/4" : 1'-0"

FOOTING: 12"x12"x24"
COLUMN: 6'-8"



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REVISION:	CHECKED BY: Faguila
CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



AMERICAN SAMOA POWER AUTHORITY

ENGINEERING SERVICES DIVISION

PO BOX PPB, PAGO PAGO AM SAMOA 96799. TEL (684) 699-7198, FAX (684) 699-9675

TAFUNA, AMERICAN SAMOA

PROJECT NAME:
NU'UULI WELL # 24 CONNECTION
PROJECT

DRAWING TITLE:
GATE, TOP POST, PLUNGER AND DETAILS

PROJECT LOCATION:
NU'UULI VILLAGE, AMERICAN SAMOA, 96799

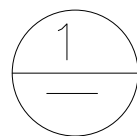
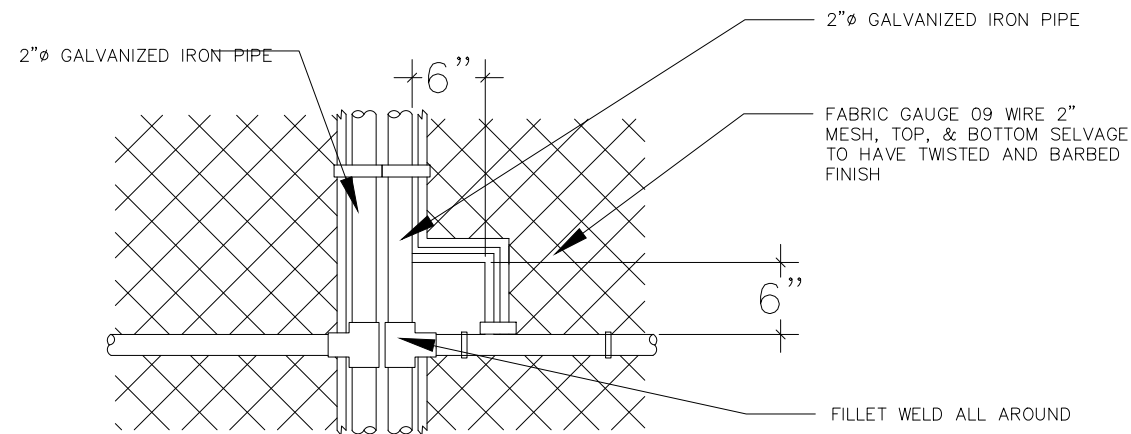
SCALE:
AS SHOWN

PROJECT NO:

DATE:
DEC2019

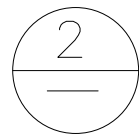
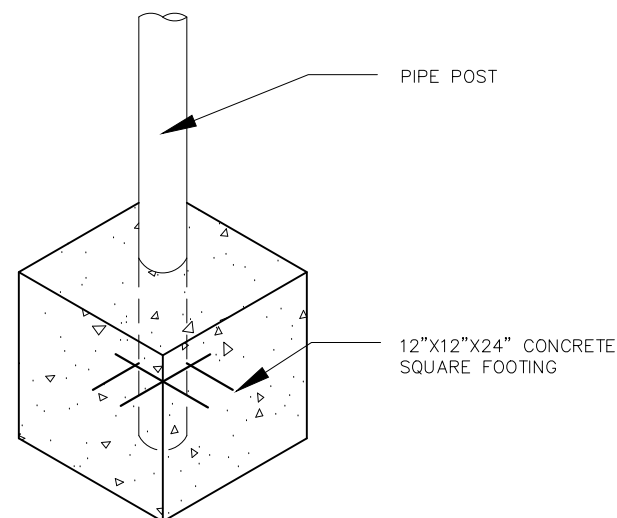
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S8

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DATE:



CHAIN CUT — OUT

SCALE: 3/4" : 1' - 0"



TYPICAL FOOTING FOR PIPE POST

SCALE:

3/4" : 1' - 0"

APPLY FOOTING FOUNDATION FOR THE FOLLOWING POST TYPE

3"Ø POST AT CORNER

4"Ø POST AT GATE

2"Ø INTERMEDIATE POST (TYPICAL)



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TAFUNA, AMERICAN SAMOA

PROJECT NAME:
NU'UULI WELL # 24 CONNECTION
PROJECT

SCALE:
AS SHOWN

PROJECT NO:

DRAWING TITLE:
FENCE, GATE, SECTION & DETAILS

PROJECT LOCATION:
NU'UULI VILLAGE, AMERICAN SAMOA, 96799

DATE:
DEC2019

SHEET NO.
S9

SIGNATURE:
DATE:

SPECIFICATIONS

1. CHAIN LINK FENCING:

(A) GENERAL.

UNLESS STATED OTHERWISE, ALL MATERIALS FOR CHAIN LINK FENCING AND GATES, ABOVE AND BELOW GROUND, SHALL BE PVC COATED GALVANIZED AS SPECIFIED IN THE CURRENT ASTM F 668.

(B) POSTS

ALL POSTS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A 36-INCH MINIMUM SETTING IN CONCRETE FOOTINGS, AT A DEPTH AND SPACING SPECIFIED ON THE PLANS. POSTS SHALL BE SET AT A MINIMUM SPACING OF 10’ O.C. POSTS SHALL BE IN PROPER ALIGNMENT SO THAT THERE IS A MINIMUM OF 4” ON ALL SIDES OF THE POST. NO MATERIAL SHALL BE INSTALLED ON THE POST NOR SHALL THE POST BE DISTURBED IN ANY MANNER WITHIN 7 DAYS AFTER THE INDIVIDUAL POST FOOTING IS COMPLETED. SHOULD ROCK BE ENCOUNTERED AT A DEPTH LESS THAN THE PLANNED FOOTING DEPTH A HOLE 2” LARGER THAN GREATEST DIMENSION OF THE POST SHALL BE DRILLED TO A DEPTH OF 12”. NO EXTRA COMPENSATION SHALL BE MADE FOR ROCK EXCAVATION.

(1) ALL POSTS SHALL BE PVC COATED GALVANIZED STEEL, 35 PERCENT MINIMUM CARBON CONTENT, 60,000 POUNDS PER SQUARE INCH MINIMUM TENSILE STRENGTH (SCHEDULE 40).

(2) LINE POSTS SHALL BE 2–3/8 INCH O.D. PIPE WEIGHING 3.65 POUNDS PER LINEAR FOOT OR 2 INCH X 2–1/4 INCH H SECTION WEIGHING 4.10 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(3) END, CORNER AND PULL POSTS SHALL BE 2–7/8 INCH O.D. PIPE WEIGHING 5.79 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(4) GATE POSTS. FOR SINGLE GATE OR ONE LEAF OF DOUBLE GATES:

(AA) UP TO 6 FEET WIDE. 3 INCH O.D. PIPE WEIGHT 5.79 POUNDS PER LINEAR FOOT UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(AB) 6 FEET TO 15 FEET WIDE. 4 O.D. PIPE WEIGHING 9.11 POUND PER LINEAR FOOT.

(5) POST TOPS. TUBULAR POST TOPS DESIGNED TO PREVENT MOISTURE FROM ENTERING POSTS AND TO SUPPORT TOP RAIL.

(C) TOP RAILS.

(1) 1–1/2 INCH I.D. PVC COATED GALVANIZED STEEL PIPE WEIGHING 2.27 POUNDS PER LINEAR FOOT.

(2) PROVIDED WITH PVC GALVANIZED GALVANIZED, OUTSIDE SLEEVE, SELF–CENTERING 7–INCH LONG COUPLINGS APPROXIMATELY EVERY 20 FEET.

(D) HORIZONTAL BRACES.

(1) BRACES SHALL BE 1–1/2 INCH I.D. PVC COATED GALVANIZED STEEL PIPE WEIGHING 2.27 POUNDS PER LINEAR FOOT WITH PLAIN ENDS.

(E) DIAGONAL BRACES.

(1) DIAGONAL BRACES SHALL BE 3/8 O.D. INCH DIAMETER GALVANIZED STEEL RODS OR AS SPECIFIED ON DRAWING.

(2) DIAGONAL BRACES SHALL BE PROVIDED WITH HEAVY GALVANIZED IRON TURNBUCKLES TO ADJUST THE TENSION.

(F) FENCE FABRIC.

(1) WIRE. 9 GAUGE GALVANIZED STEEL WIRE, OF MEDIUM HIGH CARBON QUALITY, MINIMUM TENSILE STRENGTH OF 70,000 POUNDS PER SQUARE INCH, INTERWOVEN INTO 2 INCH DIAMOND MESH.

(2) FABRIC. 72 INCHES WIDE, SELVAGE SHALL BE KNUCKLED AT BOTTOM AND TWISTED AND BARBED AT TOP.

(G) BARBED WIRE

PVC COATED BARBED WIRE SHALL BE 10 GAUGE WITH 10 GAUGE BARBS. ALL BARBS SHALL BE 4 POINTS AND SPACING OF BARBS SHALL BE 4 TO 6 INCHES.

(H) FABRIC CONNECTIONS AND INSTALLATION.

(1) TERMINAL POST SHALL BE FASTENED BY 3/16 INCH X 3/4 INCH STAINLESS STEEL STRECHER BARS WITH 11 GAUGE STAINLESS STEEL OR ALUMINUM BANDS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(2) ALL LINE POSTS SHALL BE FASTENED WITH 9 STAINLESS STEEL OR ALUMINUM WIRE CLIPS WIRE CLIPS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(3) ALL TOP RAILS SHALL BE FASTENED WITH 9 GAGE STAINLESS STEEL OR ALUMINUM TIE WIRES

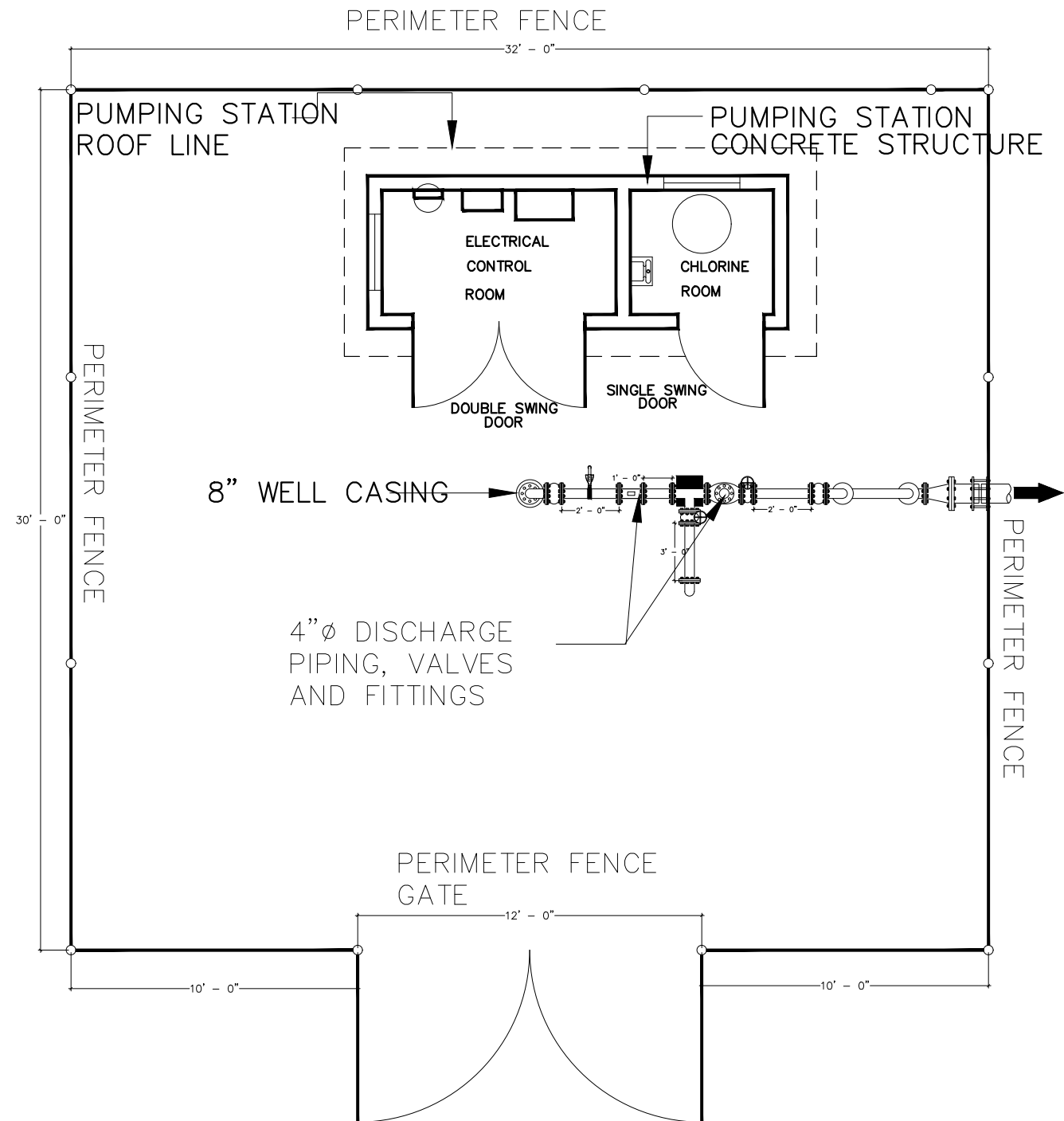
(4) THE BOTTOM EDGE OF THE FABRIC SHALL BE FASTENED BY 1/8 INCH PVC GALVANIZED TENSION BARS WITH 11 GAGE STAINLESS STEEL OR ALUMINUM BANDS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

(5) THE FENCE SHALL GENERALLY FOLLOW THE CONTOUR OF THE GROUND, WITH THE BOTTOM OF THE FENCE NO MORE THAN 2” FROM GROUND SURFACE. AT LOCATIONS OF SMALL NATURAL SWALES AND WHERE IT IS NOT PRACTICAL TO HAVE THE FENCE CONFORM TO THE GENERAL CONTOUR OF GROUND SURFACE, LONGER POST MAY BE USED AND MULTIPLE STRANDS OF BARBED WIRE STRETCHED THEREON TO SPAN THE OPENING BELOW FENCE. VERTICAL CLEARANCE BETWEEN STRANDS OF BARBED WIRE SHALL BE 4” OR LESS.

(I) CONCRETE.

CONCRETE SHALL BE OF A COMMERCIAL GRADE WITH A MIN 28–DAY COMPRESSION STRENGTH OF 2500PSI. ALL CONCRETE SHALL BE PLACED AGAINST SOLID, UNDISTURBED OR RE–COMPACTED 95% FILL MATERIALS. ALL AGGREGATES SHALL COMPLY WITH LATEST ACI REQUIREMENTS. CEMENT SHALL BE TYPE II PORTLAND. CONCRETE MIX DESIGN (PROPORTION) SHALL BE SUBMITTED TO ASPA FOR APPROVAL PRIOR TO ANY CONCRETE PLACEMENT.

	REV. NO.:	DESIGNED & PREPARED BY: Geronimo Pacunayen		 ENGINEERING SERVICES DIVISION P.O. BOX PPB, PAGO PAGO AM SAMOA 96799. TEL (684) 699-7198, FAX (684) 699-9675 TAFUNA, AMERICAN SAMOA AMERICAN SAMOA POWER AUTHORITY	PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT		SCALE: AS SHOWN	PROJECT NO:	
	REVISION:	CHECKED BY: FAguila			DRAWING TITLE: FENCE SPECIFICATIONS & GENERAL NOTES				
	CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.							
	APPROVED BY:	ISSUE FOR: Construction							
	DATE:				PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799		DATE: DEC2019	SHEET NO. S10	SIGNATURE: DATE:



1

MECHANICAL PLAN LAY OUT

Scale: NTS



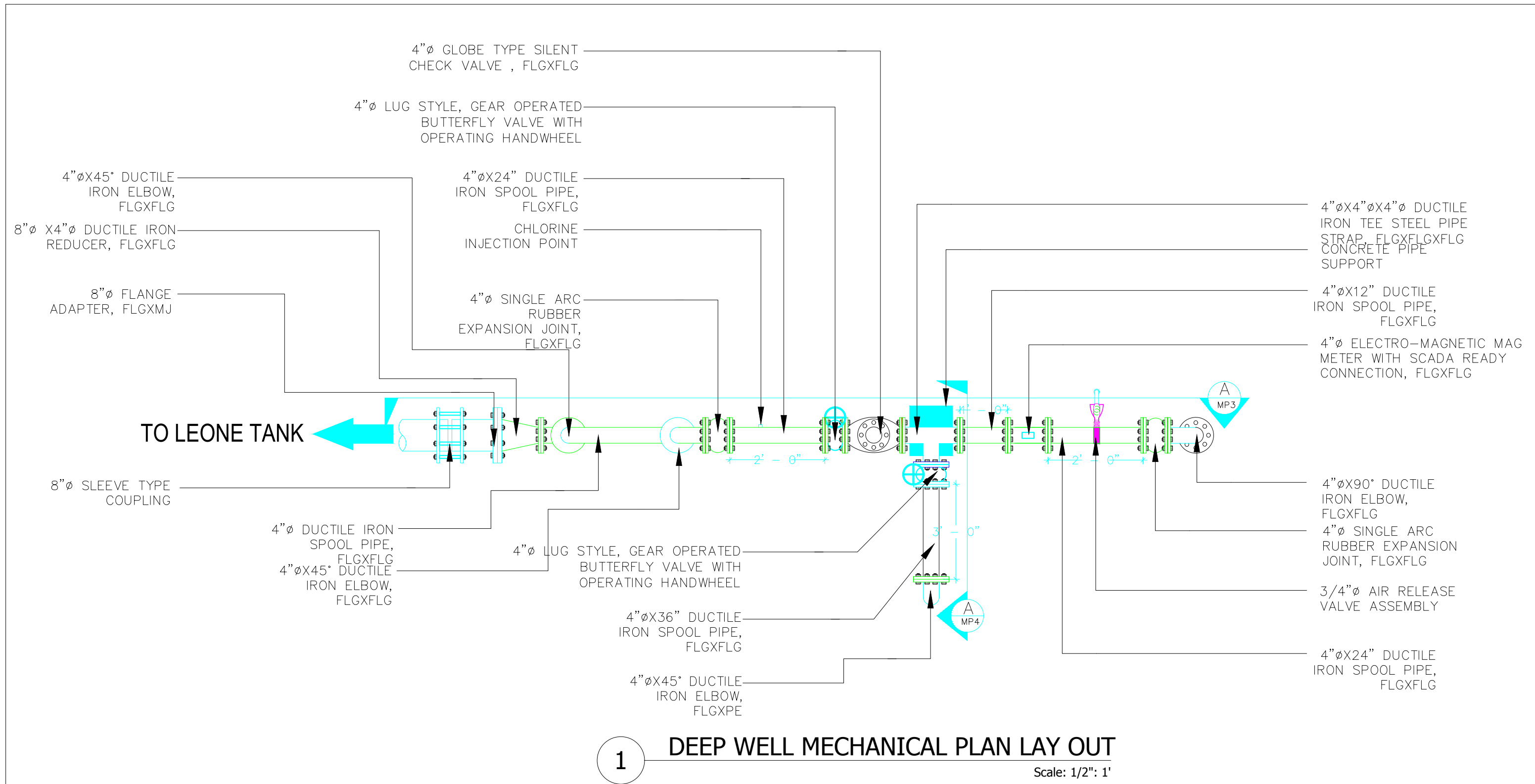
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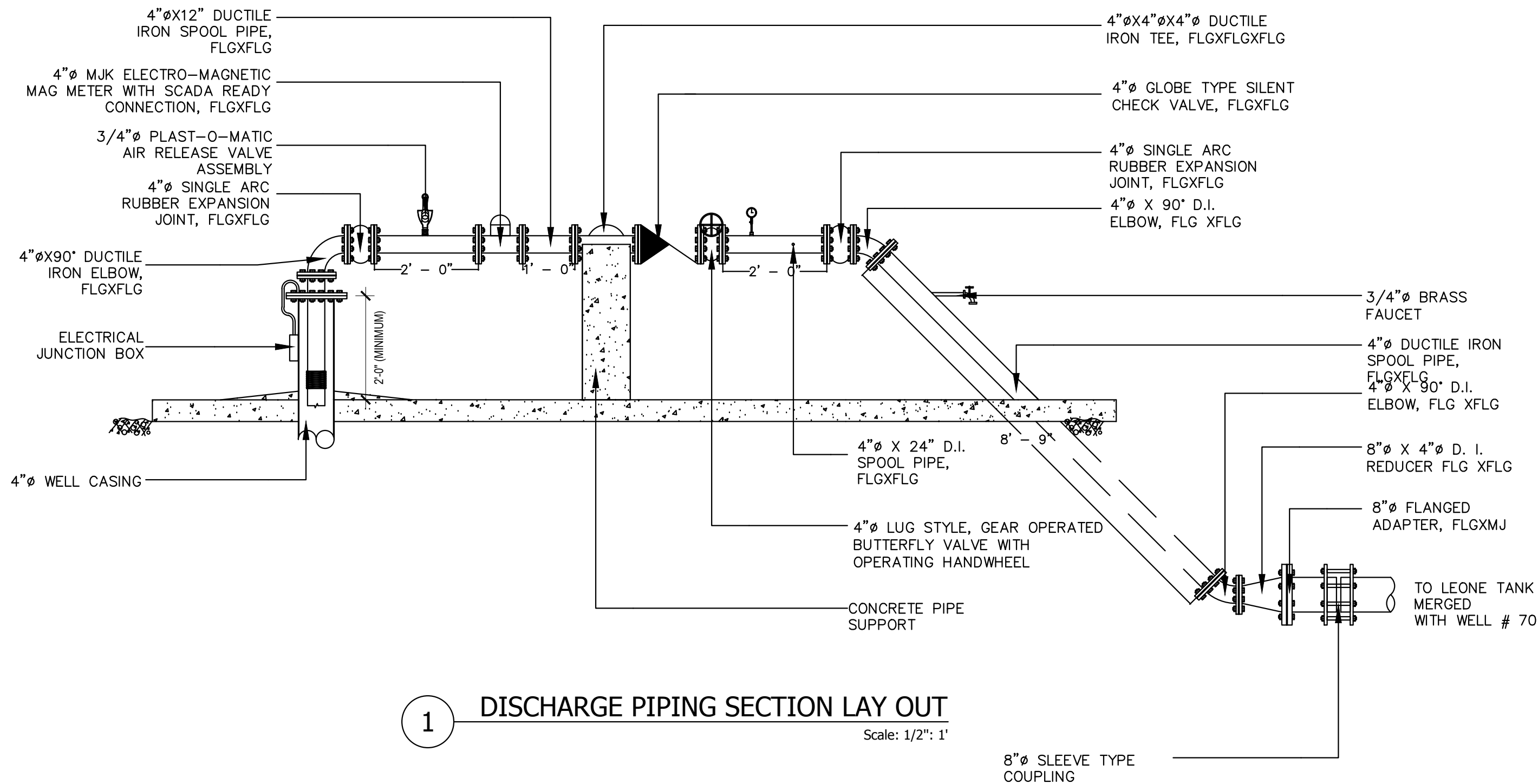
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TAFUNA, AMERICAN SAMOA
P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE:	PROJECT NO:
DRAWING TITLE: MECHANICAL PLAN LAY OUT		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. MP1
		SIGNATURE: DATE:



1 DEEP WELL MECHANICAL PLAN LAY OUT
Scale: 1/2" = 1'

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	REVISION:	CHECKED BY: FAguila		DRAWING TITLE: MECHANICAL PLAN LAY OUT			
	CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.					
	APPROVED BY:	ISSUE FOR: Construction		PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. MP2	SIGNATURE: DATE:
	DATE:						



1 DISCHARGE PIPING SECTION LAY OUT

Scale: 1/2" = 1'



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CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.
APPROVED BY:	ISSUE FOR: Construction
DATE:	



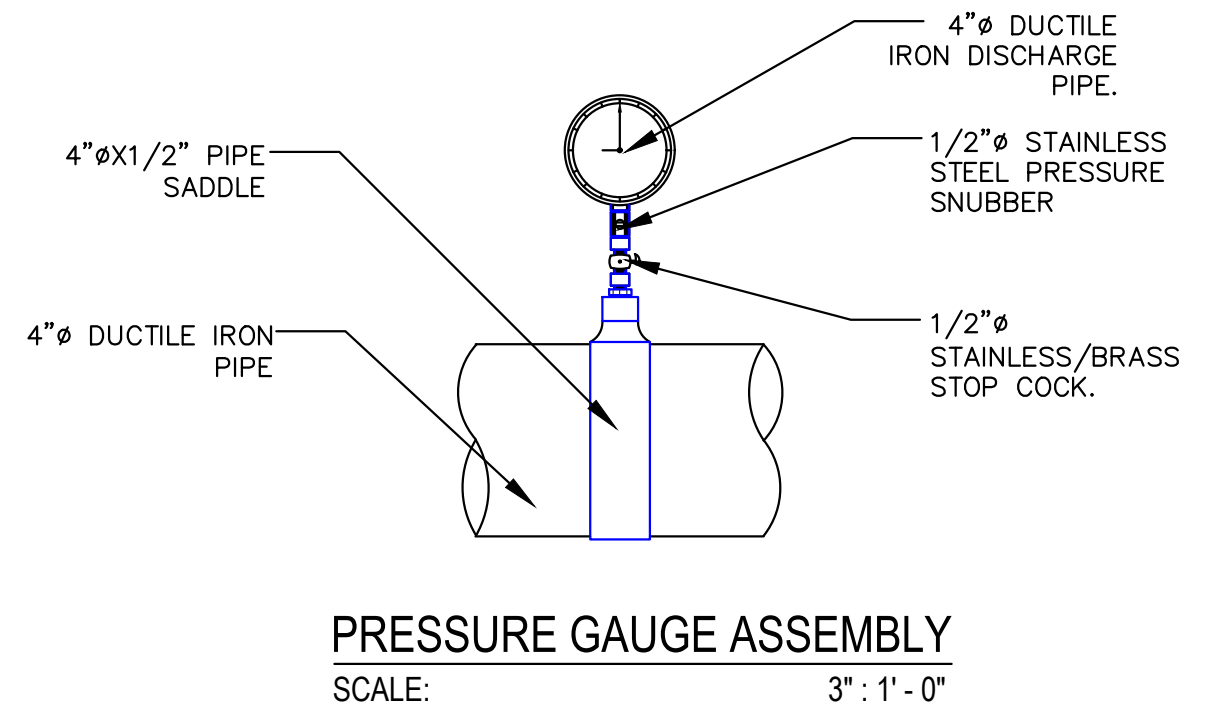
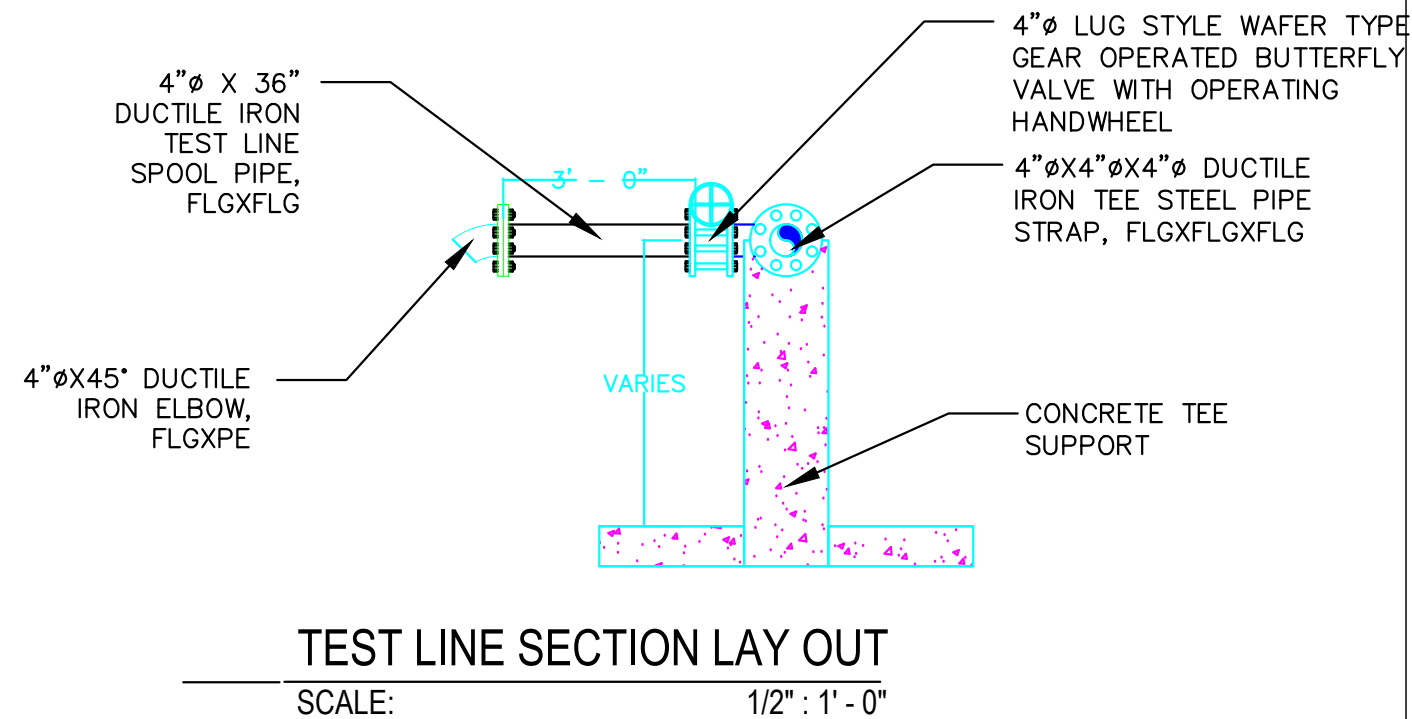
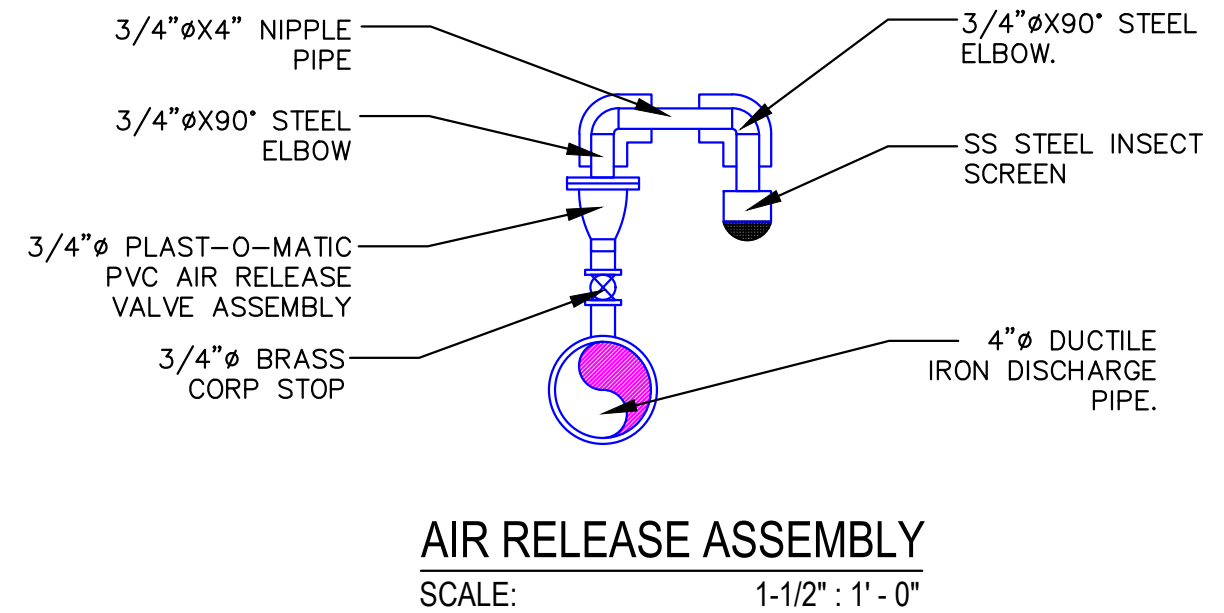
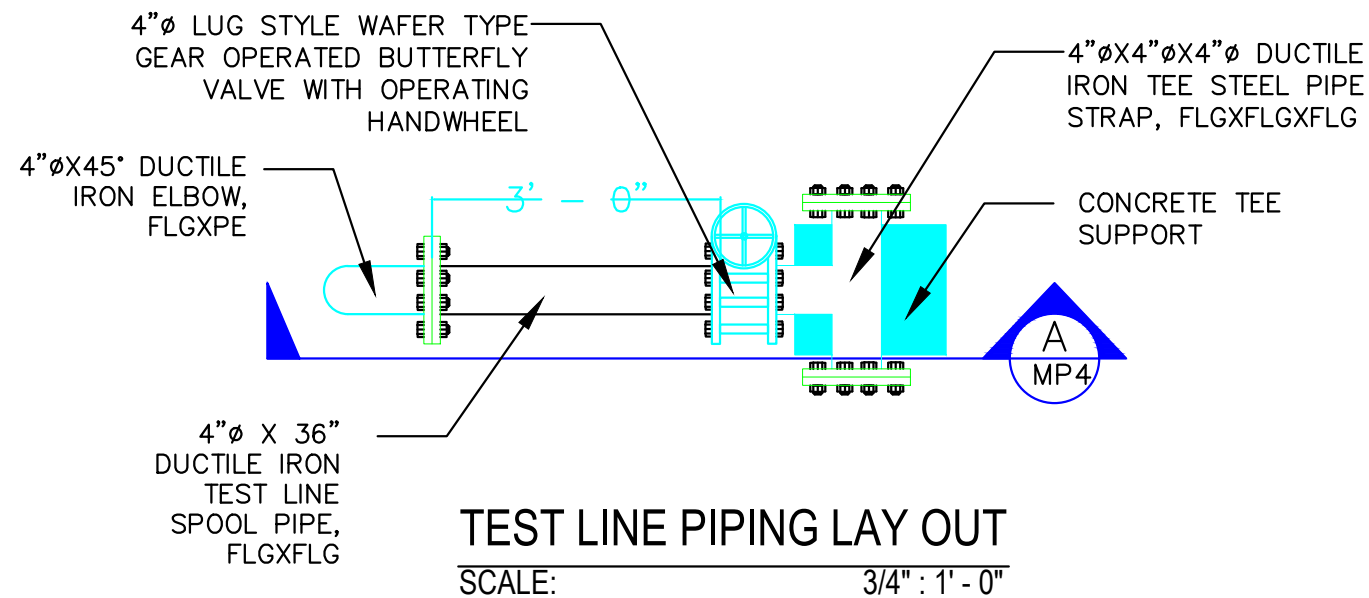
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TAFUNA, AMERICAN SAMOA

PROJECT NAME: NU'UULI WELL # 24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: DISCHARGE PIPING SECTION LAY OUT		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA, 96799	DATE: DEC2019	SHEET NO. MP3
		SIGNATURE: DATE:



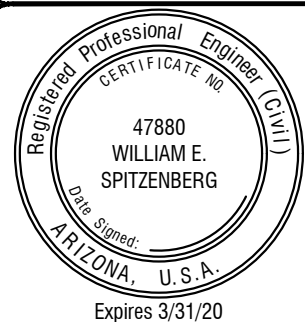
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APPROVED BY:	ISSUE FOR: Construction
DATE:	



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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: FLUSH LINE, SECTION & DETAILS		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. DATE: MP4

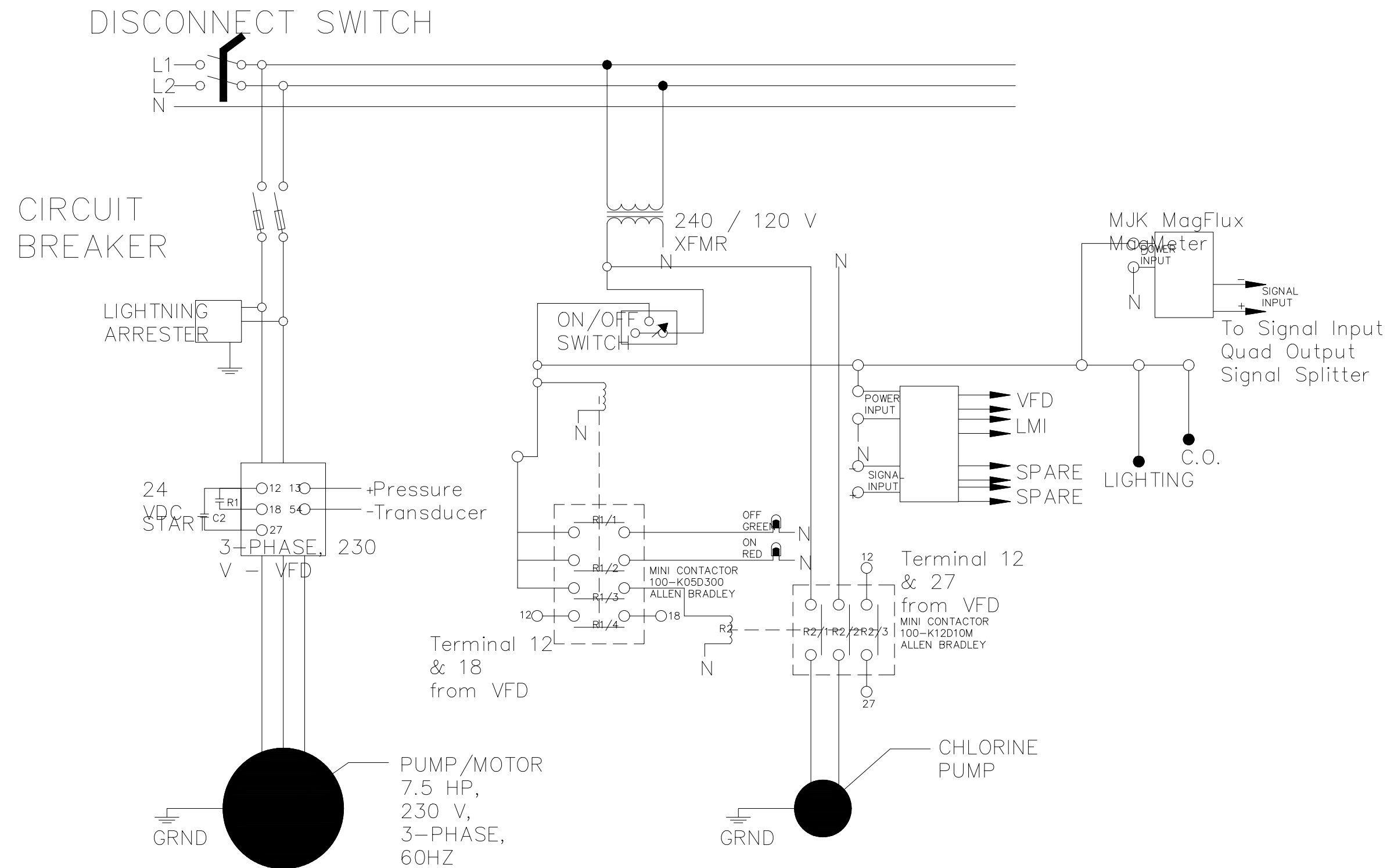


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APPROVED BY:	ISSUE FOR: Construction
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: As Shown	PROJECT NO:	
DRAWING TITLE: SANITARY WELL SEAL STANDARD DRAWING			
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. MP5	SIGNATURE: DATE:



1 VFD CONTROL CIRCUIT DIAGRAM
Scale: NTS



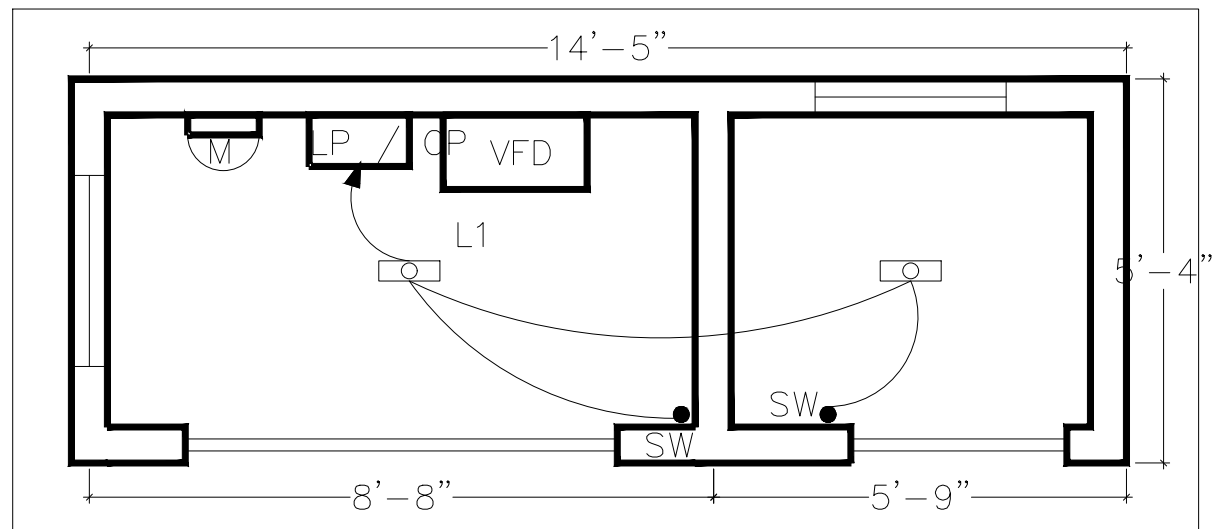
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APPROVED BY:	ISSUE FOR: Construction
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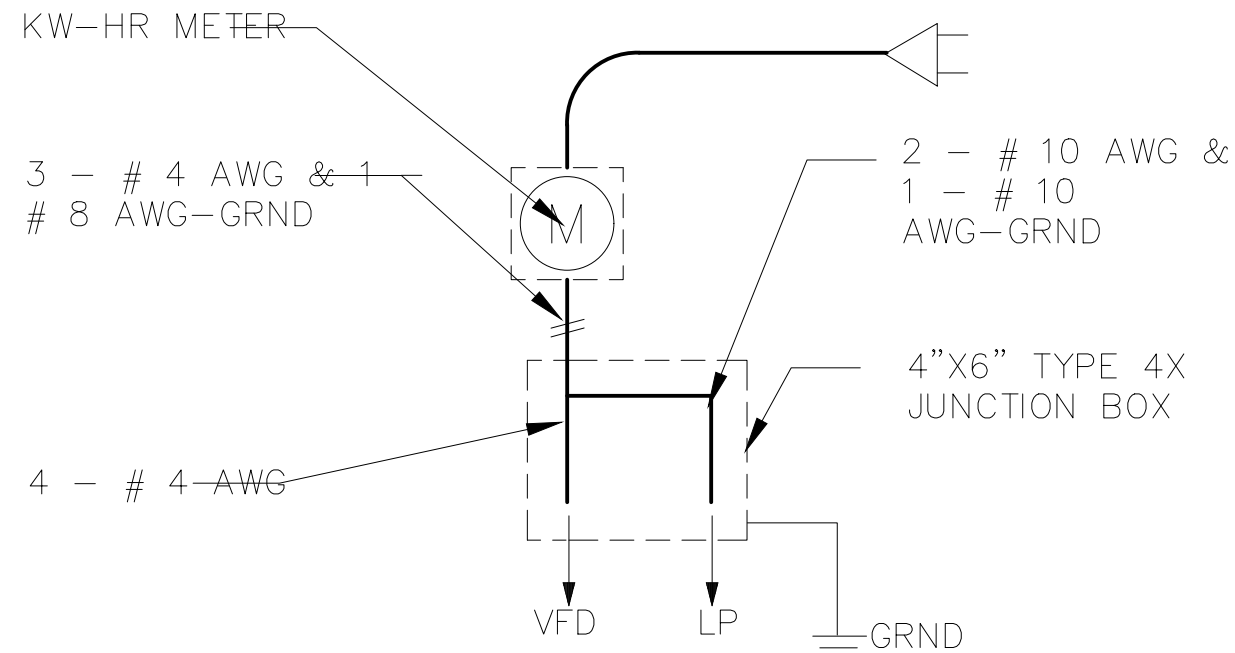
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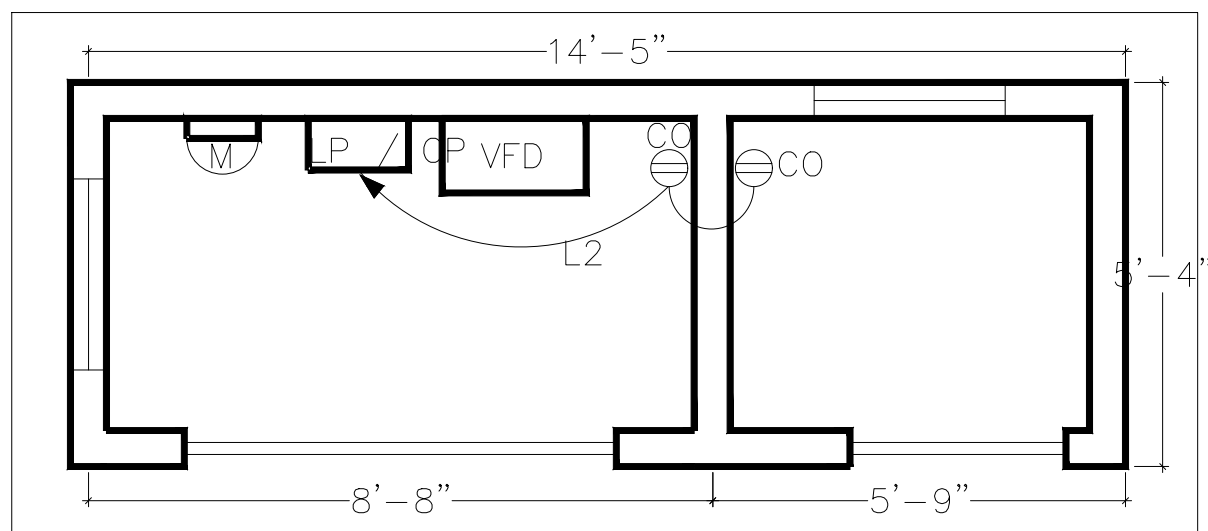
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PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. EP1
		SIGNATURE: DATE:



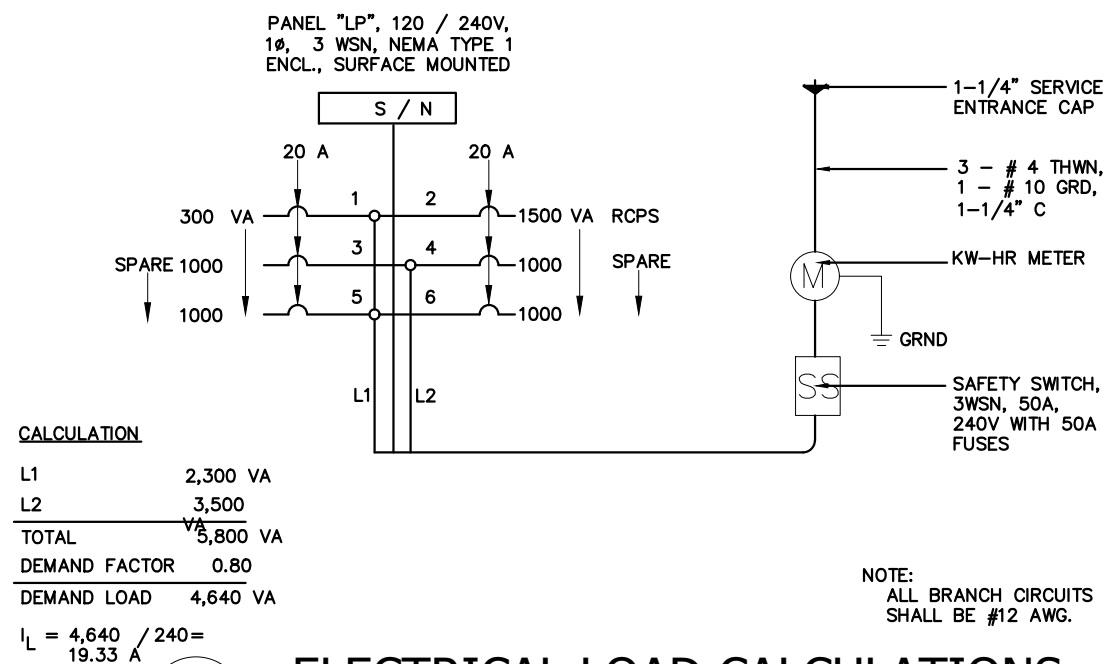
1 LIGHTING LAY OUT
Scale: 3/8:1



2 NU'UULI WELL # 24 SINGLE LINE DIAGRAM
Scale: NTS



3 C.O. LAY OUT
Scale: 3/8:1



4 ELECTRICAL LOAD CALCULATIONS
Scale: NTS



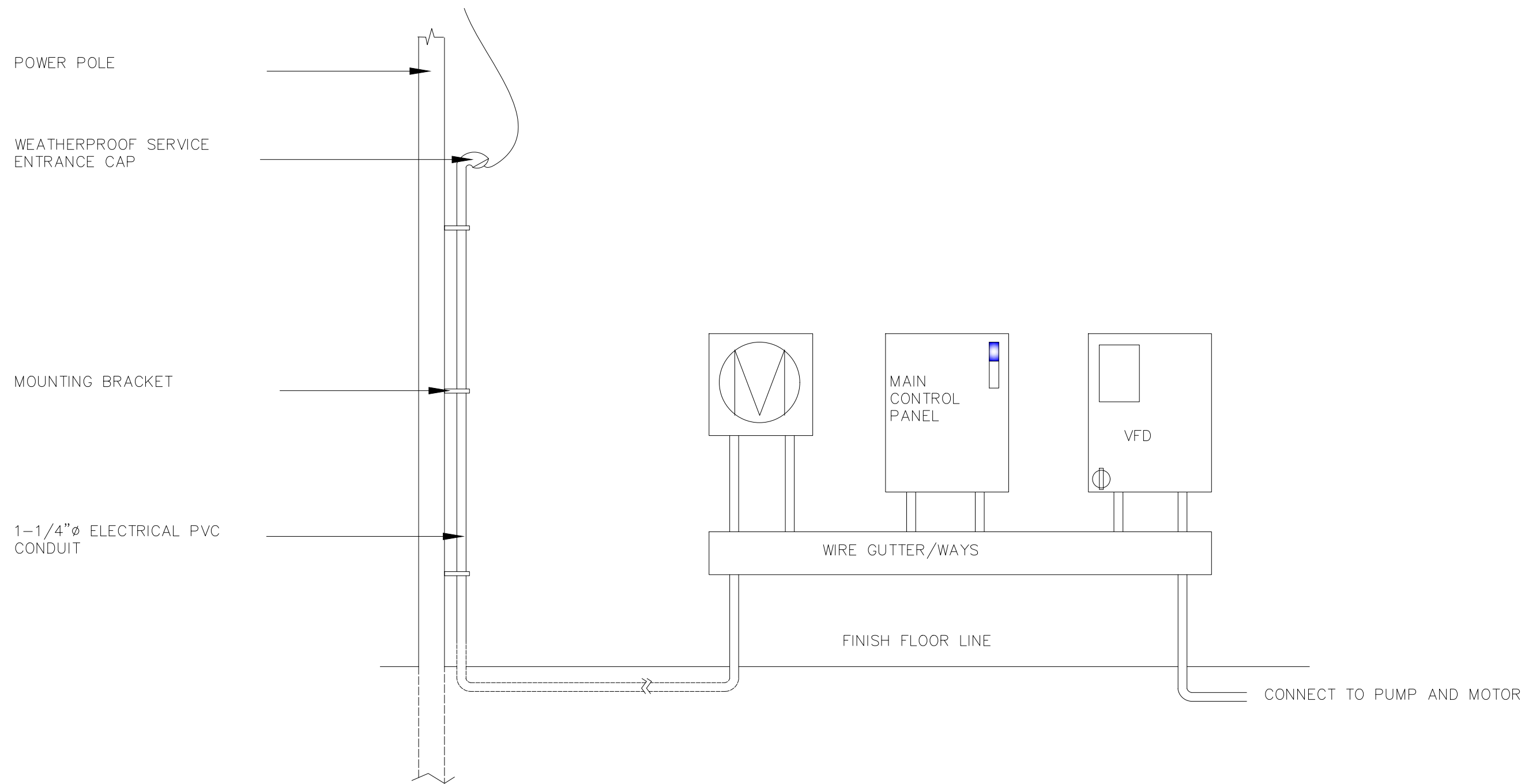
REV. NO.:	PREPARED BY: GPacunayen
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PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO.:
DRAWING TITLE: SINGLE LINE DIAGRAM, C.O., LIGHTING & LOAD SCHEDULE		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. EP2
		SIGNATURE: DATE:



1 POWER SUPPLY, SERVICE ENTRANCE AND PANEL CONTROLS

Scale: NTS



REV. NO.:	PREPARED BY: GPacunayen
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ENGINEERING SERVICES DIVISION
TAFUNA, AMERICAN SAMOA
P.O.BOX PPB, PAGO PAGO AM SAMOA 96799. TEL(684) 699-7198, FAX (684) 699-9675

PROJECT NAME: WELL #24 CONNECTION PROJECT	SCALE: AS SHOWN	PROJECT NO:
DRAWING TITLE: POWER SUPPLY SERVICE ENTRANCE DIAGRAM		
PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA	DATE: DEC2019	SHEET NO. EP3
		SIGNATURE: DATE:

LIGHTING FIXTURES SCHEDULE:
TYPE A – 2X32 WATTS T8 LAMP, ELECTRONIC BALLAST POLYCARBONATE LENS, SHATTER RESISTANT, ROUND, WHITE HOUSING, TYPE CF, 9PL, 120 VOLTS, SURFACE MOUNTED, LITHONIA XLW232MV OR EQUAL

NOTES:

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER.

2. ALL WIRES SHALL BE COPPER, TYPE THHN/THWN, 600 VOLTS RATING # 12 AWG MINIMUM SIZE IN CONDUITS.

3. ALL CONDUIT SHALL BE PVC TYPE, SCHEDULE 40, 3/4" MINIMUM SIZE, WITH CODE, SIZE GREEN COLORED, GROUND WIRE, FLEXIBLE CONDUIT MAYBE USED WHERE ALLOWEDBY THE NEC. NON METALLIC SHEATHED CABLE TYPE "NM" ROMEX OR "UF" MAY ALSO BE USED WHERE ALLOWED BY NEC.

4. ELECTRICAL PLAN(S) ARE DIAGRAMATIC ONLY. ACTUAL LOCATION OF OUTLETS AND EQUIPMENT SHALL BE DETERMINED IN THE FIELD.

5. TYPE OF LIGHTING FIXTURES SHALL BE AS SHOWN IN LIGHTING FIXTURES SCHEDULE.

LEGEND:

1^A LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE, CAPITAL LETTER DENOTES LIGHTING FIXTURE NO. NUMERAL DENOTES CIRCUIT NO.

a^S SMALL LETTER DENOTES SWITCH CONTROLLING IT.SWITCH, TOGGLE, I-POLE, 20A,125V, IVORY PHENOLIC BODY. SMALL LETTER DENOTES LIGHTING FIXTURE BEING CONTROLLED. M.H. 48"

2[⊕] RECEPTACLE, DUPLEX, 15A, 125V, 3 WIRE GROUNDING TYPE, WEATHER PROOF PLATE PHENOLIC BODY, NEMA NO. 5-15, NUMERAL DENOTES CIRCUIT NO. M.H. 12"OR 6" ABOVE COUNTER

— — — PANEL BOARD, LIGHTING FLUSH MOUNTED, M.H. 6'-0" TO TOP.

⤵^{L-3,5} BRANCH CIRCUIT, CONCEALED IN CIELING OR WALL.HOMERUN TO PANEL BOARD, ARROWHEAD DENOTE NUMBER OF CIRCUITS, AND NUMERALS DENOTES CIRCUITS IN 3/4" CONDUIT

G — GROUNDWIRE, COPPER, SIZE AS SHOWN.

M.H. GROUND ROD, 3/4"x10' LONG STEEL, COPPER ENCASED. DENOTES "MOUNTING HEIGHT" FROM FINISHED FLOOR LINE TO CENTER, UNLESS OTHERWISE SHOWN

□ ○ FLUORESCENT LIGHT FIXTURE

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	REVISION:	CHECKED BY: FAguila		DRAWING TITLE: LIGHTING FIXTURE SCH. AND LEGEND				
	CHECKED BY:	APPROVED BY: WSpitzenberg, P.E.		PROJECT LOCATION: NU'UULI VILLAGE, AMERICAN SAMOA		DATE: DEC2019	SHEET NO. EP4	SIGNATURE:
	APPROVED BY:	ISSUE FOR: Construction						DATE:
	DATE:							