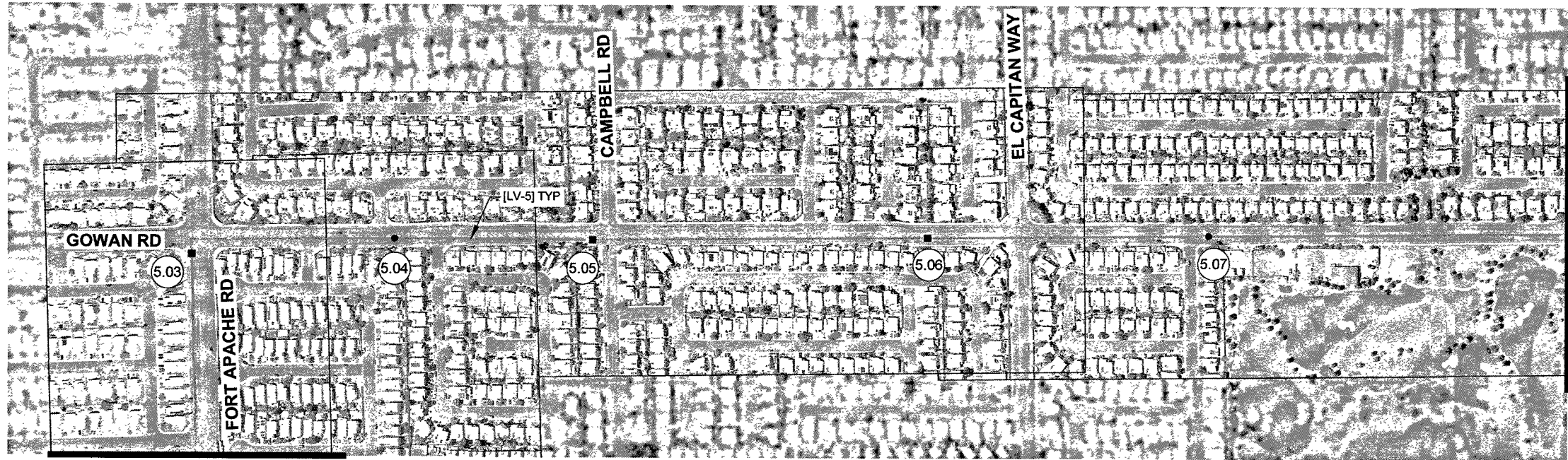
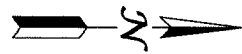




MATCHLINE "A" SEE ABOVE RIGHT

MATCHLINE "A" SEE BELOW LEFT



LEGEND

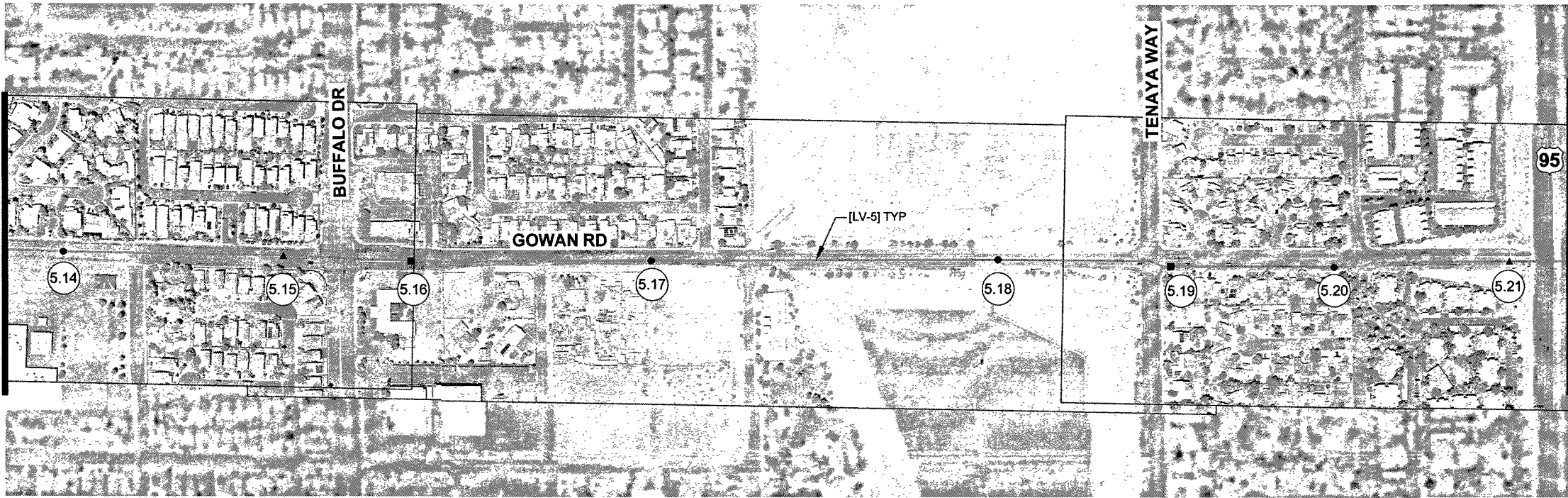
- CONDUIT
- PULL BOX
- ACCESS MANHOLE (SEE DETAIL 1 ON SHEET F07)
- VALVE VAULT (SEE DETAIL 2 ON SHEET F07)

NOTES:

- CONTRACTOR TO LABEL UNMARKED PULL BOXES AND VAULTS WITH "LVVWD FIBER OPTIC CABLE".

DRAWN BY: GRANT D. RUNION		DATE: 09/13/18	DISTRICT SERVICE AREA		LAS VEGAS VALLEY WATER DISTRICT	
CHECKED BY: DAVID J. TRESS		DATE: 09/13/18	FACILITY NAME: CARLTON SQUARE - GOWAN - FORT APACHE		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
RECOMMENDED BY: DAVID J. TRESS, P.E.		DATE: 9/13/18	PROJECT TITLE: FIBER INFRASTRUCTURE UPGRADE SERVICES		LAS VEGAS VALLEY WATER DISTRICT	
ACCEPTED BY: BRAD D. CALLIHAN, P.E.		DATE: 9/17/18	DISCIPLINE: MULTIPLE		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
SUB-DISCIPLINE: SITE PLANS			ROUTING PLAN 1			
SHEET TITLE: ROUTING PLAN 1						
CONTRACT NUMBER: G1011						
DRAWING NUMBER: MU1						
SHEET 2 OF 14						

MATCHLINE "C" SEE ABOVE RIGHT



MATCHLINE "D" SEE DRAWING "FO4"

MATCHLINE "B" SEE DRAWING "FO2"



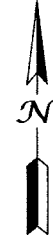
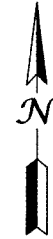
MATCHLINE "C" SEE BELOW LEFT

LEGEND

- CONDUIT
- PULL BOX
- ACCESS MANHOLE (SEE DETAIL 1 ON SHEET FO7)
- VALVE VAULT (SEE DETAIL 2 ON SHEET FO7)

NOTES:

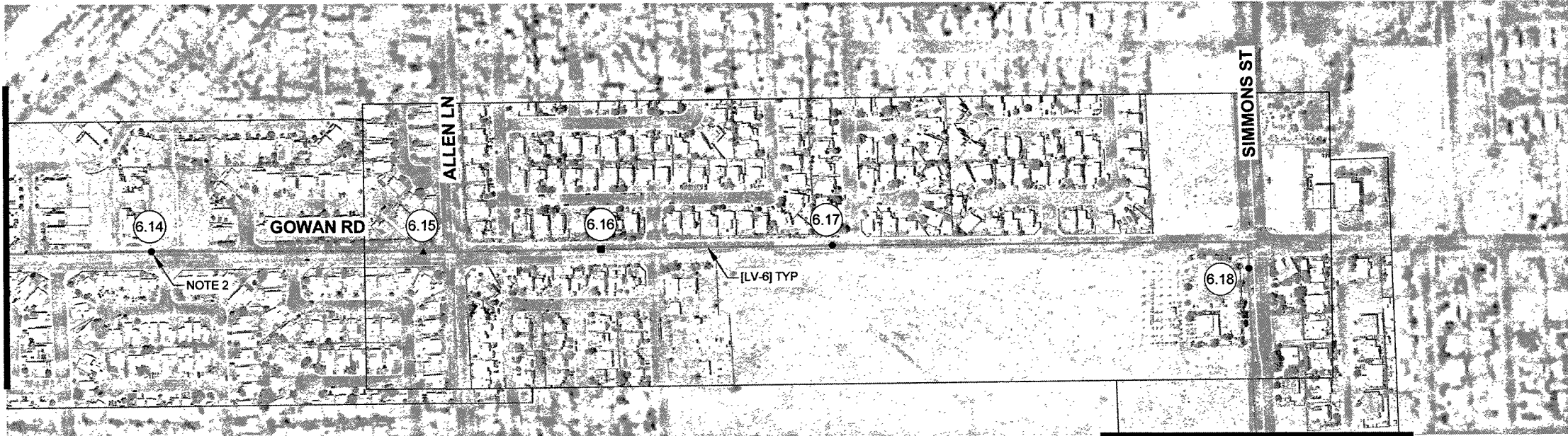
- CONTRACTOR TO LABEL UNMARKED PULL BOXES AND VAULTS WITH "LVVWD FIBER OPTIC CABLE".



DRAWN BY: GRANT D. RUMON	09/13/18	
CHECKED BY: DAVID J. TRESS	09/13/18	
RECOMMENDED BY: David J. Tress	9/13/18	
ACCEPTED BY: David J. Tress	9/13/18	
DATE: 9/13/18	DATE: 9/13/18	
CONTRACT NUMBER G1011		
DRAWING NUMBER MU1 SHEET 3 OF 14		

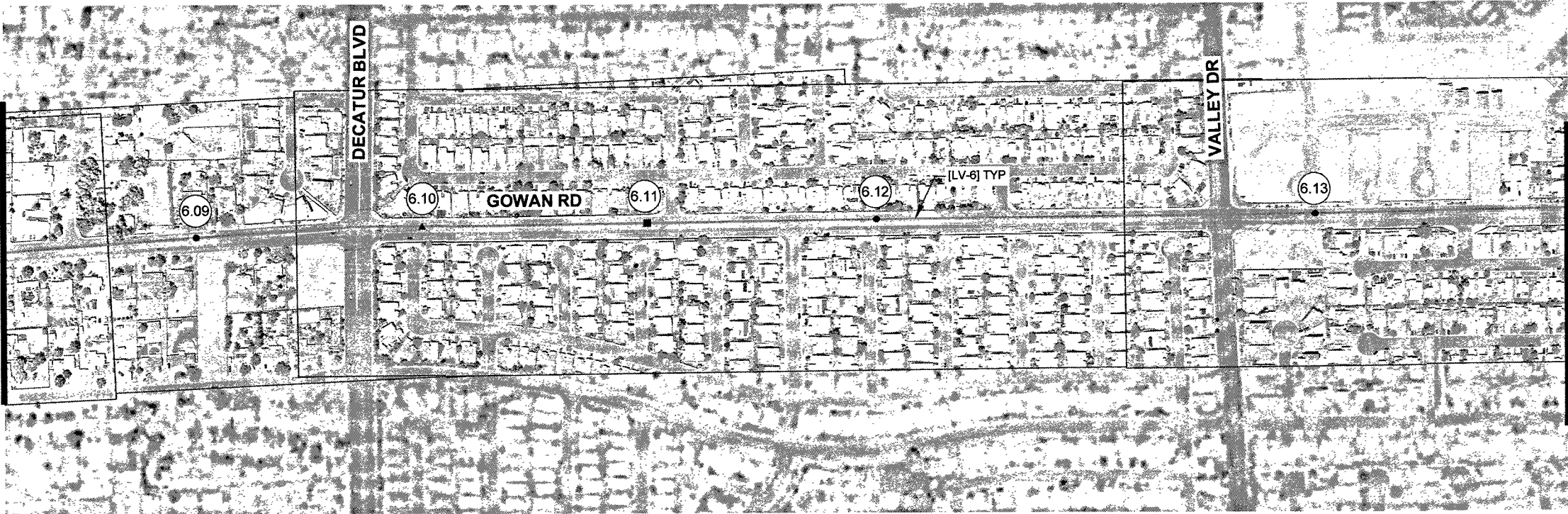
SITE NAME: DISTRICT SERVICE AREA	1
FACILITY NAME: CARLTON SQUARE - GOWAN - FORT APACHE	2
PROJECT TITLE: FIBER INFRASTRUCTURE UPGRADE SERVICES	3
DISCIPLINE: MULTIPLE	4
SUB-DISCIPLINE: SITE PLANS	5
SHEET TITLE: ROUTING PLAN 2	6
LAS VEGAS VALLEY WATER DISTRICT	
1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	

MATCHLINE "G" SEE ABOVE RIGHT

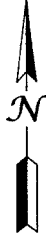


MATCHLINE "H" SEE DRAWING "FO6"

MATCHLINE "F" SEE DRAWING "FO4"



MATCHLINE "G" SEE BELOW LEFT



LEGEND

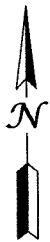
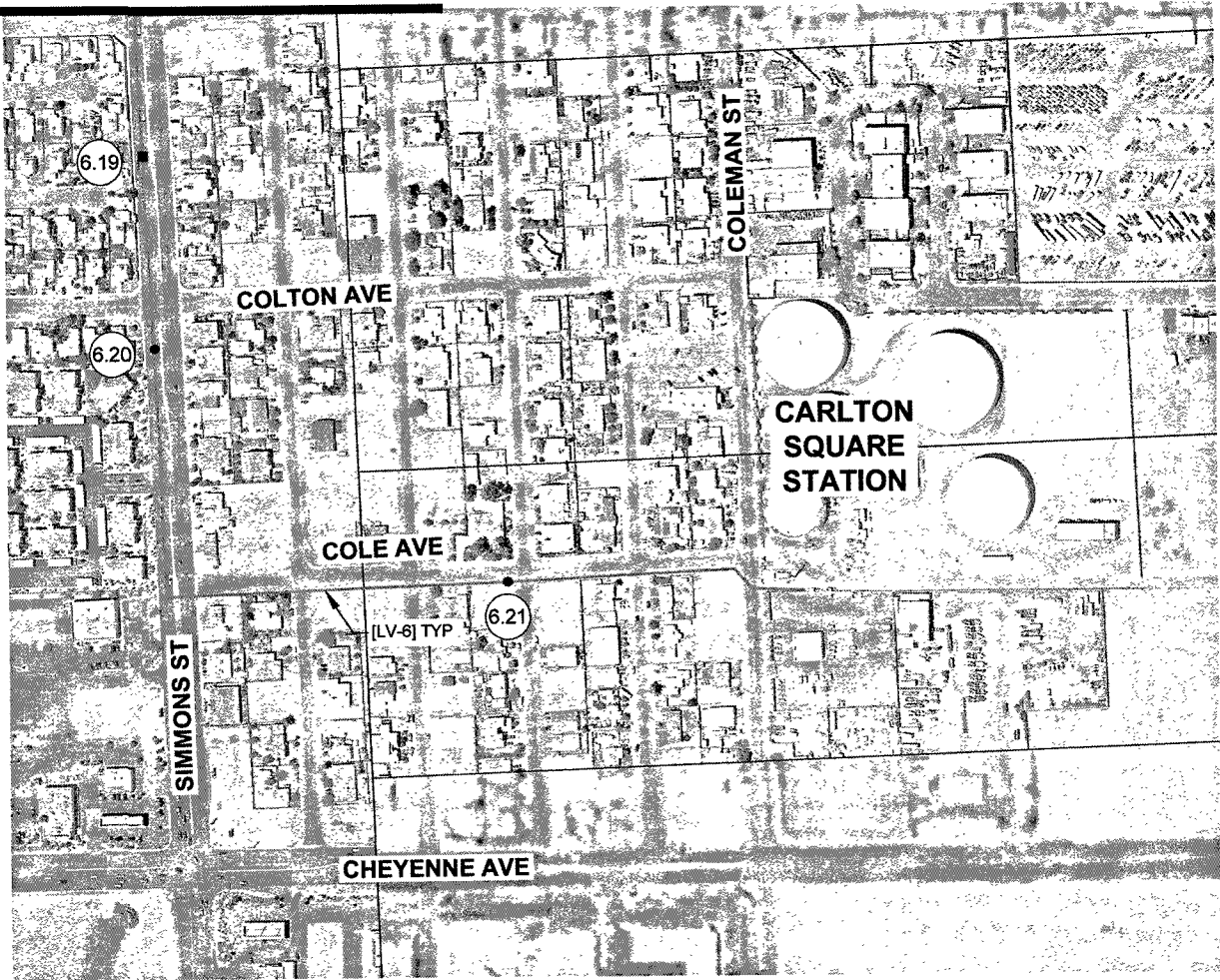
- CONDUIT
- PULL BOX
- ACCESS MANHOLE (SEE DETAIL 1 ON SHEET FO7)
- ▲ VALVE VAULT (SEE DETAIL 2 ON SHEET FO7)

NOTES:

- CONTRACTOR TO LABEL UNMARKED PULL BOXES AND VAULTS WITH "LVWVD FIBER OPTIC CABLE".
- LOCATION OF ACCESS MANHOLE FOUND DURING SITE VISIT DOES NOT MATCH THE RECORD DRAWINGS PROVIDED BY OWNER. CONTRACTOR TO VERIFY LOCATION.

DRAWN BY: GRANT D. RUNION		09/13/18	DISTRICT SERVICE AREA		LAS VEGAS VALLEY WATER DISTRICT	
CHECKED BY: DAVID J. TRESS		09/13/18	CARLTON SQUARE - GOWAN - FORT APACHE		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
RECOMMENDED BY:		09/13/18	FIBER INFRASTRUCTURE UPGRADE SERVICES			
ACCEPTED BY:		09/13/18	MULTIPLE SITE PLANS			
		09/17/18	ROUTING PLAN 4			
		DATE				
CONTRACT NUMBER						
G1011						
DRAWING NUMBER MU1						
SHEET 5 OF 14						

MATCHLINE "H" SEE DRAWING "FO5"



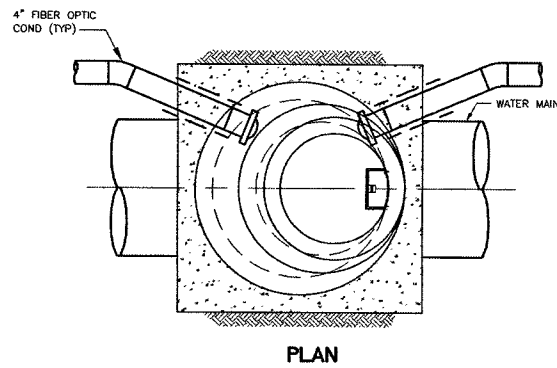
LEGEND

- CONDUIT
- PULL BOX
- ACCESS MANHOLE (SEE DETAIL 1 ON SHEET FO7)
- VALVE VAULT (SEE DETAIL 2 ON SHEET FO7)

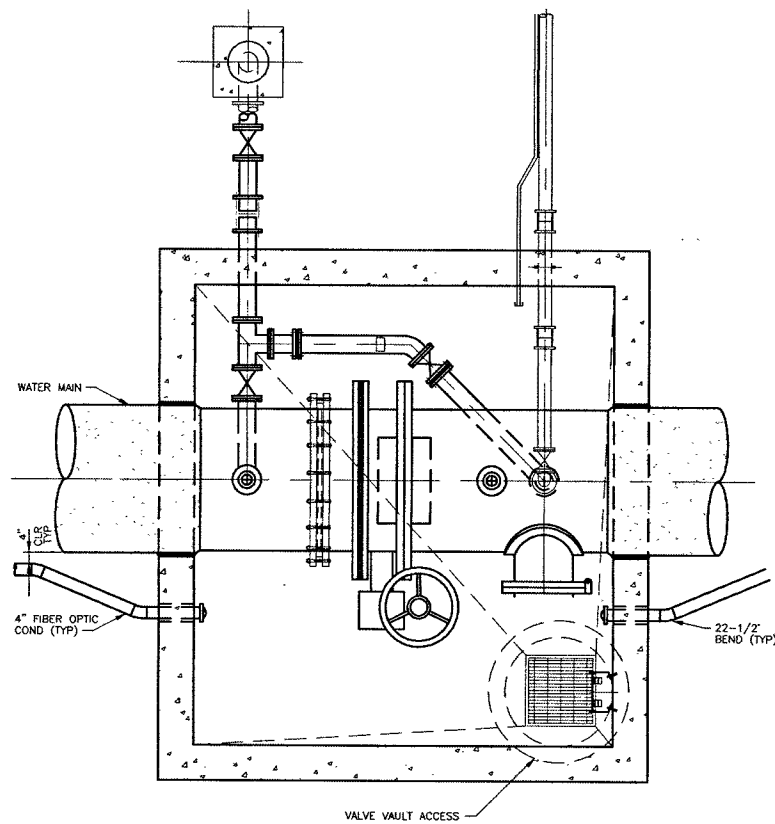
NOTES:

- CONTRACTOR TO LABEL UNMARKED PULL BOXES AND VAULTS WITH "LVVWD FIBER OPTIC CABLE".

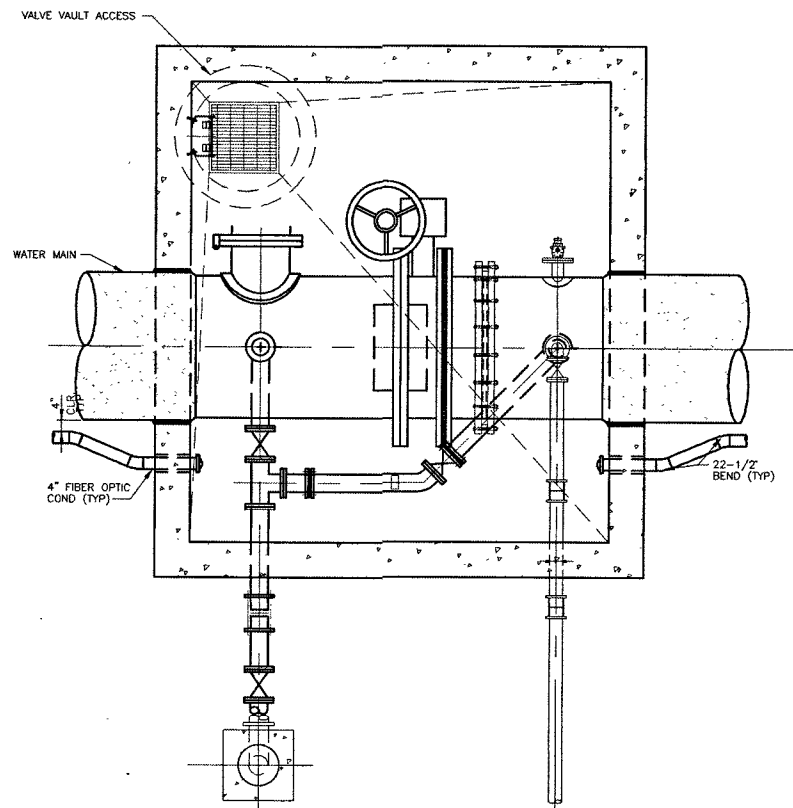
DRAWN BY: GRANT D. RUNION		09/13/18	DISTRICT SERVICE AREA		LAS VEGAS VALLEY WATER DISTRICT	
CHECKED BY: DAVID J. TRESS		09/13/18	CARLTON SQUARE - GOWAN - FORT APACHE		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
RECOMMENDED BY:		09/13/18	FIBER INFRASTRUCTURE UPGRADE SERVICES			
ACCEPTED BY:		09/13/18	MULTIPLE SITE PLANS			
BRAD D. CALLAHAN, P.E.		09/13/18	ROUTING PLAN 5			
CONTRACT NUMBER						
G1011						
DRAWING NUMBER MU1						
SHEET 6 OF 14						



ACCESS MANHOLE 1



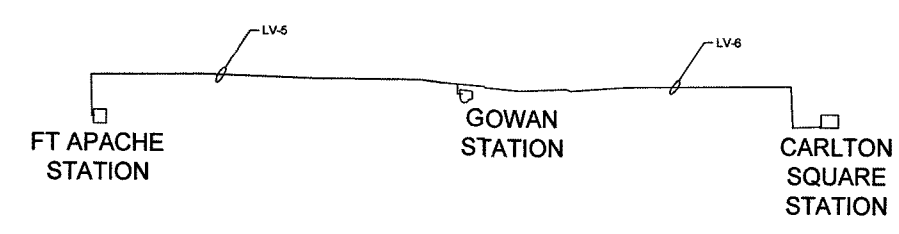
CASE A
NOTE: FIBER OPTIC CONDUITS FOUND ON SAME SIDE OF WATER MAIN AS VALVE VAULT ACCESS



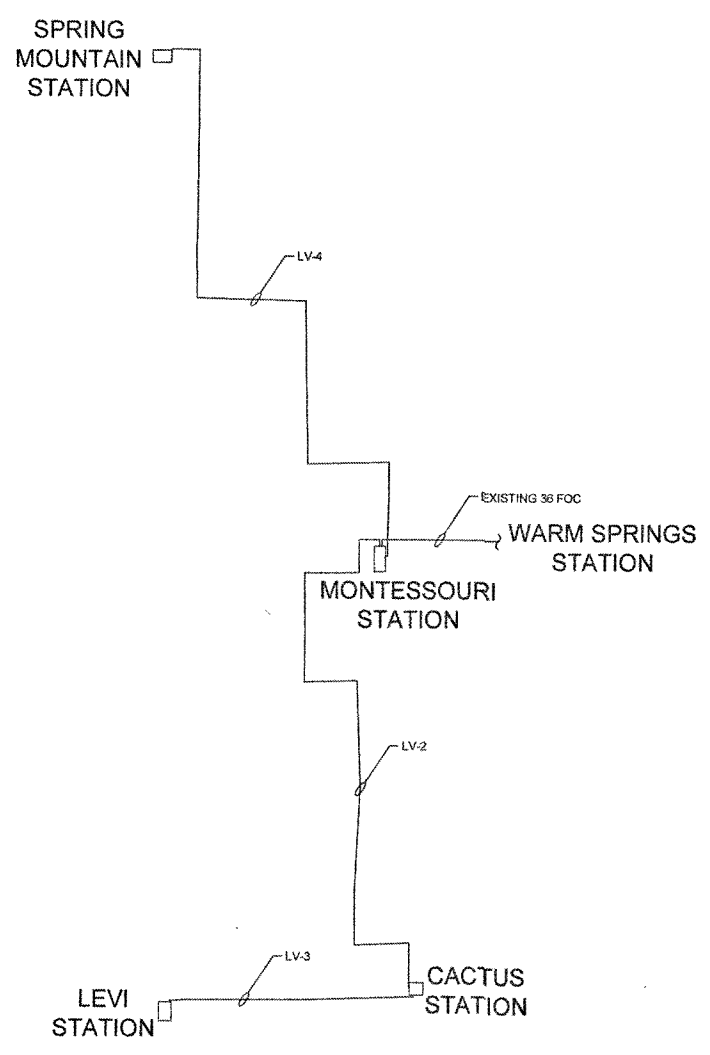
CASE B
NOTE: FIBER OPTIC CONDUITS FOUND ON OPPOSITE SIDE OF WATER MAIN AS VALVE VAULT ACCESS

VALVE VAULT 2

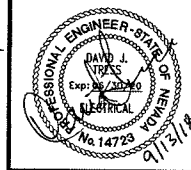
DRAWN BY: GRANT D. RUNION		DATE: 09/13/18	LAS VEGAS VALLEY WATER DISTRICT 1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011
CHECKED BY: DAVID J. PRESS		DATE: 09/13/18	
RECOMMENDED BY: <i>[Signature]</i>		DATE: 09/12/18	
ACCEPTED BY: <i>[Signature]</i>		DATE: 9/12/18	
BRAD D. CALLIHAN, P.E.			
CONTRACT NUMBER G1011 DRAWING NUMBER CD2 SHEET 7 OF 14		DISTRICT SERVICE AREA CARLTON SQUARE - GOWAN - FORT APACHE PROJECT TITLE: FIBER INFRASTRUCTURE UPGRADE SERVICES DISCIPLINE: CIVIL DETAILS SHEET TITLE: MISCELLANEOUS CIVIL DETAILS FIBER OPTIC DETAILS	

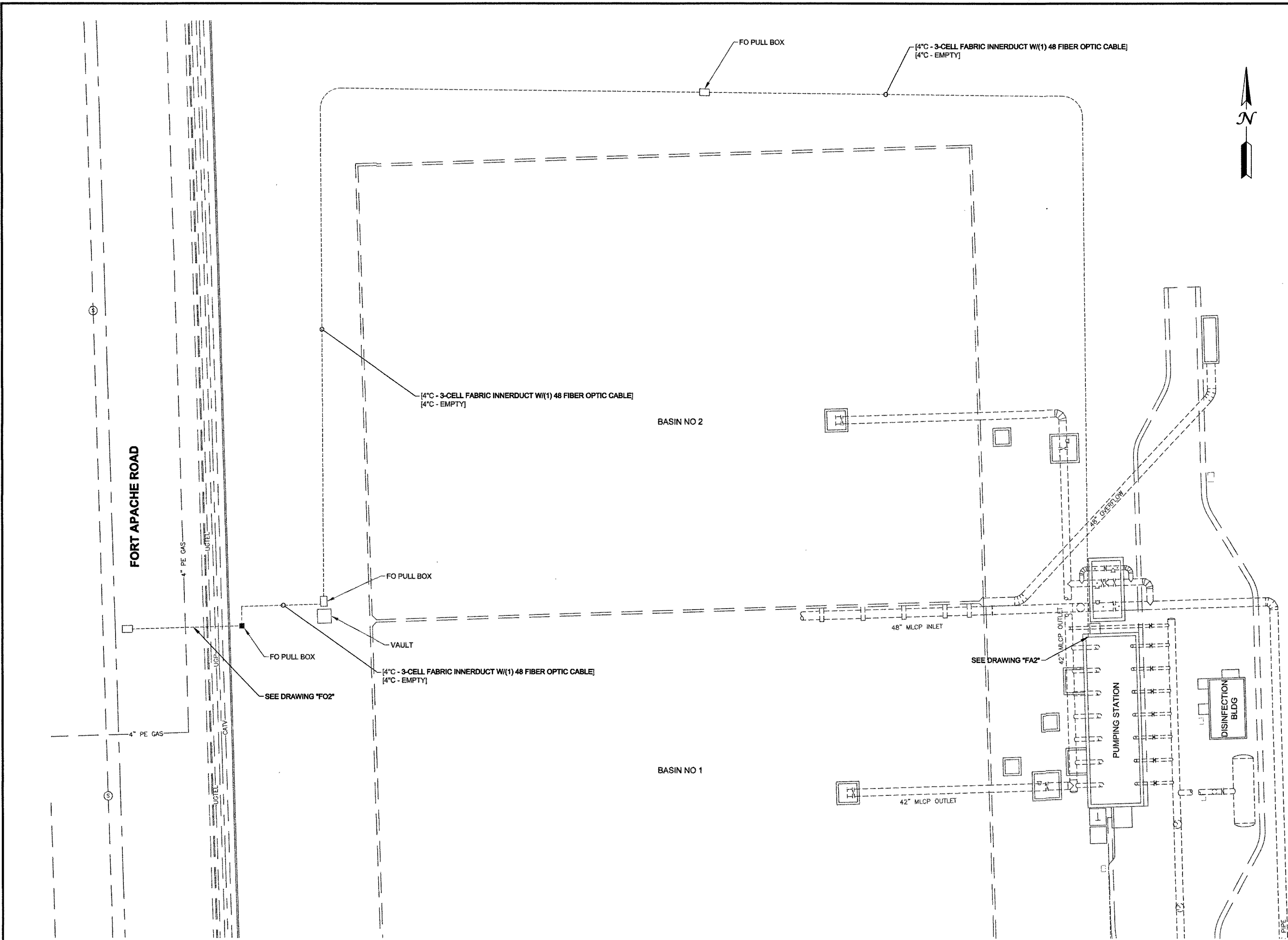


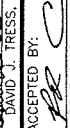
FIBER OPTIC CABLE DESIGNATION TABLE						
CABLE ID	CIRCUIT DESCRIPTION	FROM	TO	FIBER COUNT	DISTANCE	PULLING POINTS
LV-2	[4" C - 3 CELL FABRIC INNERDUCT WITH TRACER. 1 CELL - NEW 48 FOC, 2 CELLS SPARE]	MONTESOURI	CACTUS	48	31.2 KFT	41
LV-3	[4" C - 3 CELL FABRIC INNERDUCT WITH TRACER. 1 CELL - NEW 48 FOC, 2 CELLS SPARE]	CACTUS	LEVI	48	12.9 KFT	25
LV-4	[4" C - 3 CELL FABRIC INNERDUCT WITH TRACER. 1 CELL - NEW 48 FOC, 2 CELLS SPARE]	MONTESOURI	SPRING MOUNTAIN	48	35.9 KFT	49
LV-5	[4" C - 3 CELL FABRIC INNERDUCT WITH TRACER. 1 CELL - NEW 48 FOC, 2 CELLS SPARE]	FORT APACHE	MANHOLE 5.26 AT GOWAN	48	20.4 KFT	26
LV-6	[4" C - 3 CELL FABRIC INNERDUCT WITH TRACER. 1 CELL - NEW 48 FOC, 2 CELLS SPARE]	MANHOLE 5.26 AT GOWAN	CARLTON SQUARE	48	20.0 KFT	21

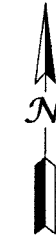
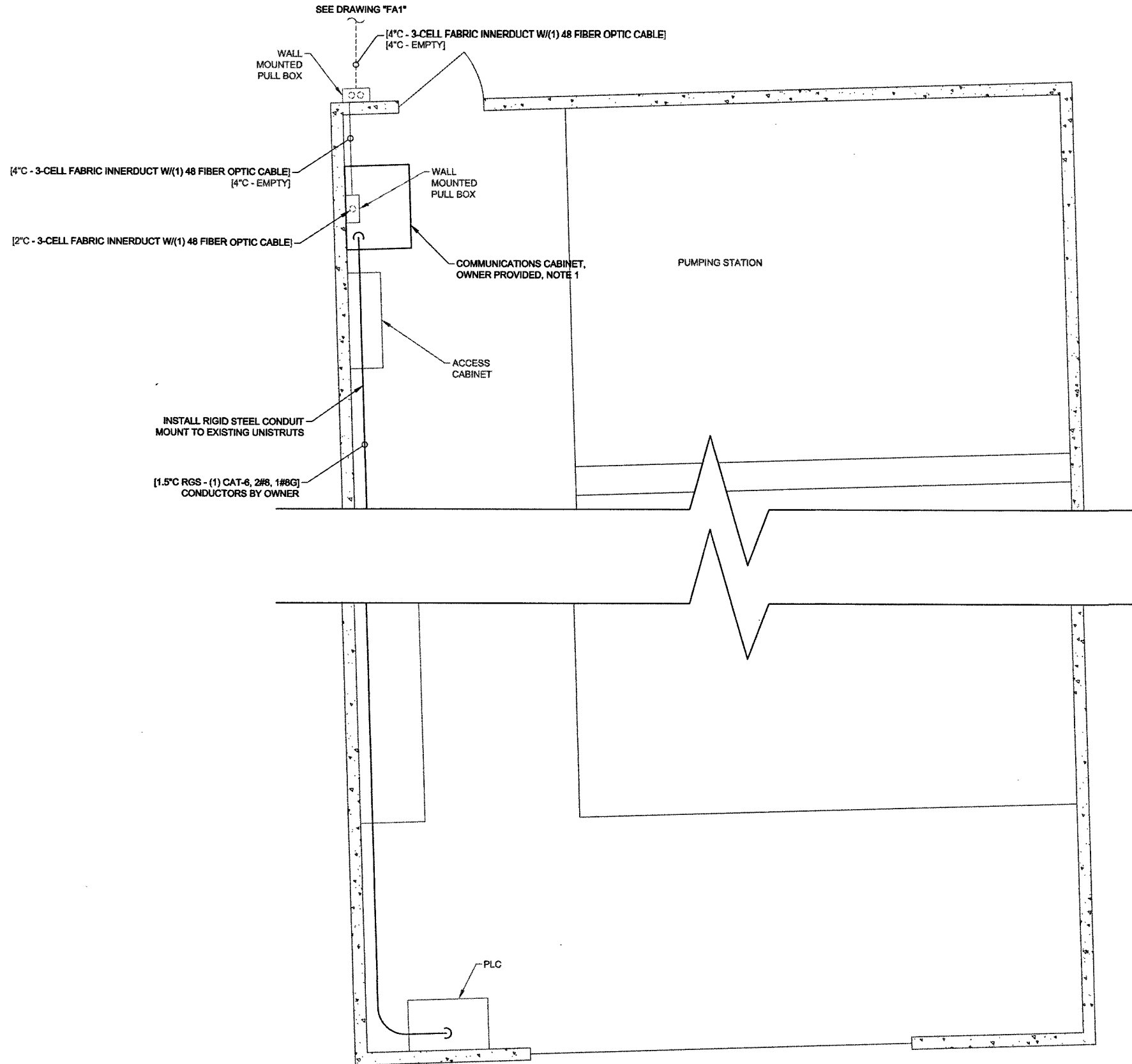


LAS VEGAS VALLEY WATER DISTRICT		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
DISTRICT SERVICE AREA		CARLTON SQUARE - GOWAN - FORT APACHE	
PROJECT TITLE:		FIBER INFRASTRUCTURE UPGRADE SERVICES	
DISCIPLINE:		MULTIPLE	
SUB-DISCIPLINE:		SITE PLANS	
SHEET TITLE:		FIBER OPTIC BLOCK DIAGRAM	
DRAWN BY:	09/13/18	DATE	09/13/18
CHECKED BY:	09/13/18	DATE	09/13/18
RECOMMENDED BY:	09/13/18	DATE	09/13/18
ACCEPTED BY:	09/13/18	DATE	09/13/18
CONTRACT NUMBER		G1011	
DRAWING NUMBER		MU1	
SHEET		8 OF 14	





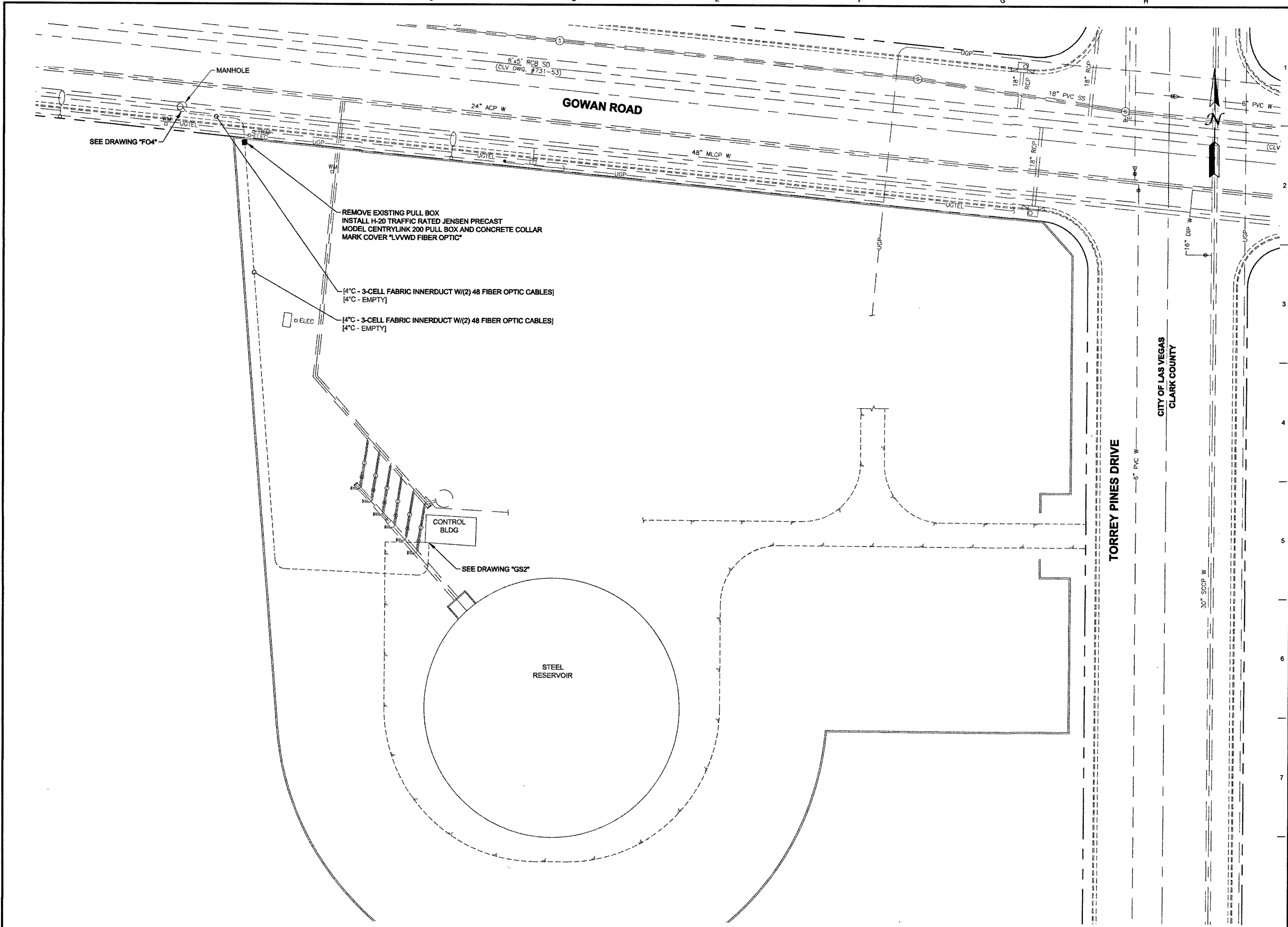
	DRAWN BY: GRANT D. RUNION		DATE: 09/13/18
	CHECKED BY: DAVID J. TRESS		DATE: 09/13/18
	RECOMMENDED BY: 		DATE: 9/13/18
	ACCEPTED BY: 		DATE: 9/13/18
CONTRACT NUMBER		G1011	
DRAWING NUMBER		E2	
SHEET		9 OF 14	
DISTRICT SERVICE AREA		LAS VEGAS VALLEY WATER DISTRICT	
FACILITY NAME:		CARLTON SQUARE - GOWAN - FORT APACHE	
PROJECT TITLE:		FIBER INFRASTRUCTURE UPGRADE SERVICES	
DISCIPLINE:		ELECTRICAL	
SUB-DISCIPLINE:		SITE PLANS	
SHEET TITLE:		SITE PLAN - FORT APACHE	
1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011			



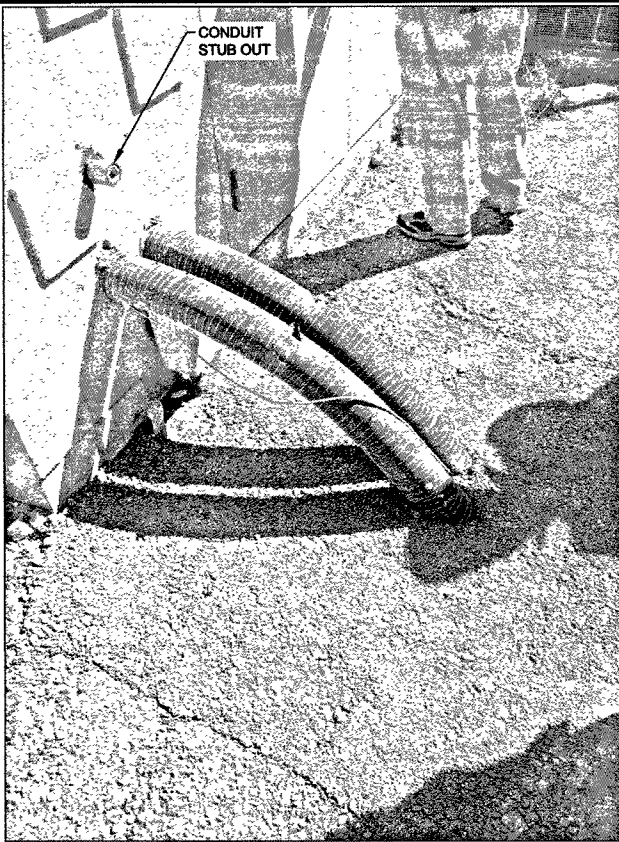
NOTE:

1. OWNER TO REMOVE EXISTING COMMUNICATIONS CABINET.

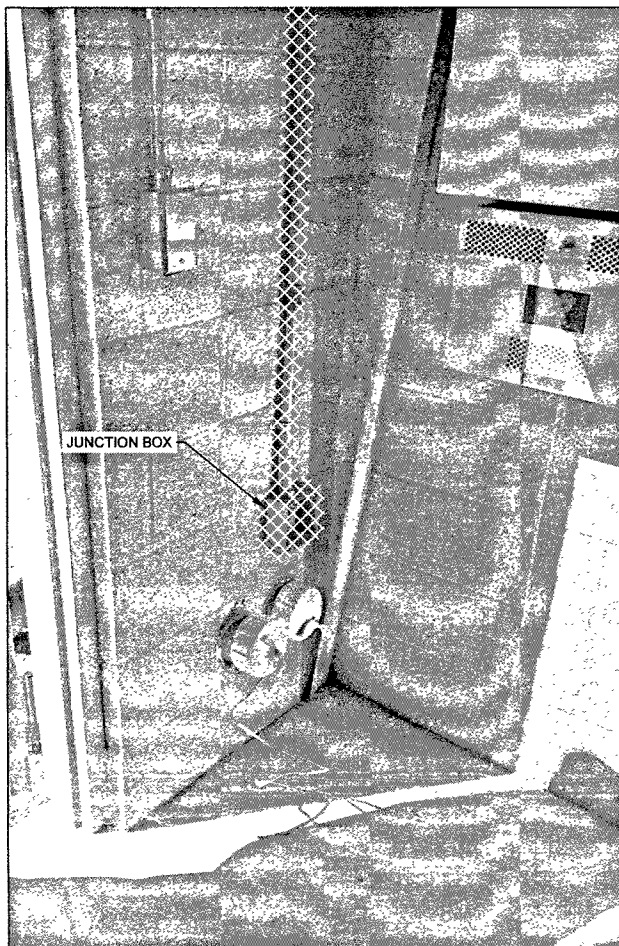
LAS VEGAS VALLEY WATER DISTRICT		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
DISTRICT SERVICE AREA		CARLTON SQUARE - GOWAN - FORT APACHE FIBER INFRASTRUCTURE UPGRADE SERVICES	
SITE NAME:		ELECTRICAL	
FACILITY NAME:		SITE PLANS	
PROJECT TITLE:		BUILDING PLAN - FORT APACHE	
DISCIPLINE:			
SUB-DISCIPLINE:			
SHEET TITLE:			
DRAWN BY: GRANT D. RUNION CHECKED BY: DAVID J. TRESS RECOMMENDED BY: <i>[Signature]</i> ACCEPTED BY: <i>[Signature]</i> DATE: 09/13/18	DATE: 09/13/18 DATE: 9/13/18 DATE: 9/17/18	PROFESSIONAL ENGINEER - STATE OF NEVADA DAVID J. TRESS No. 14723 9/13/18	
CONTRACT NUMBER		G1011	
DRAWING NUMBER		E2	
SHEET		10 OF 14	



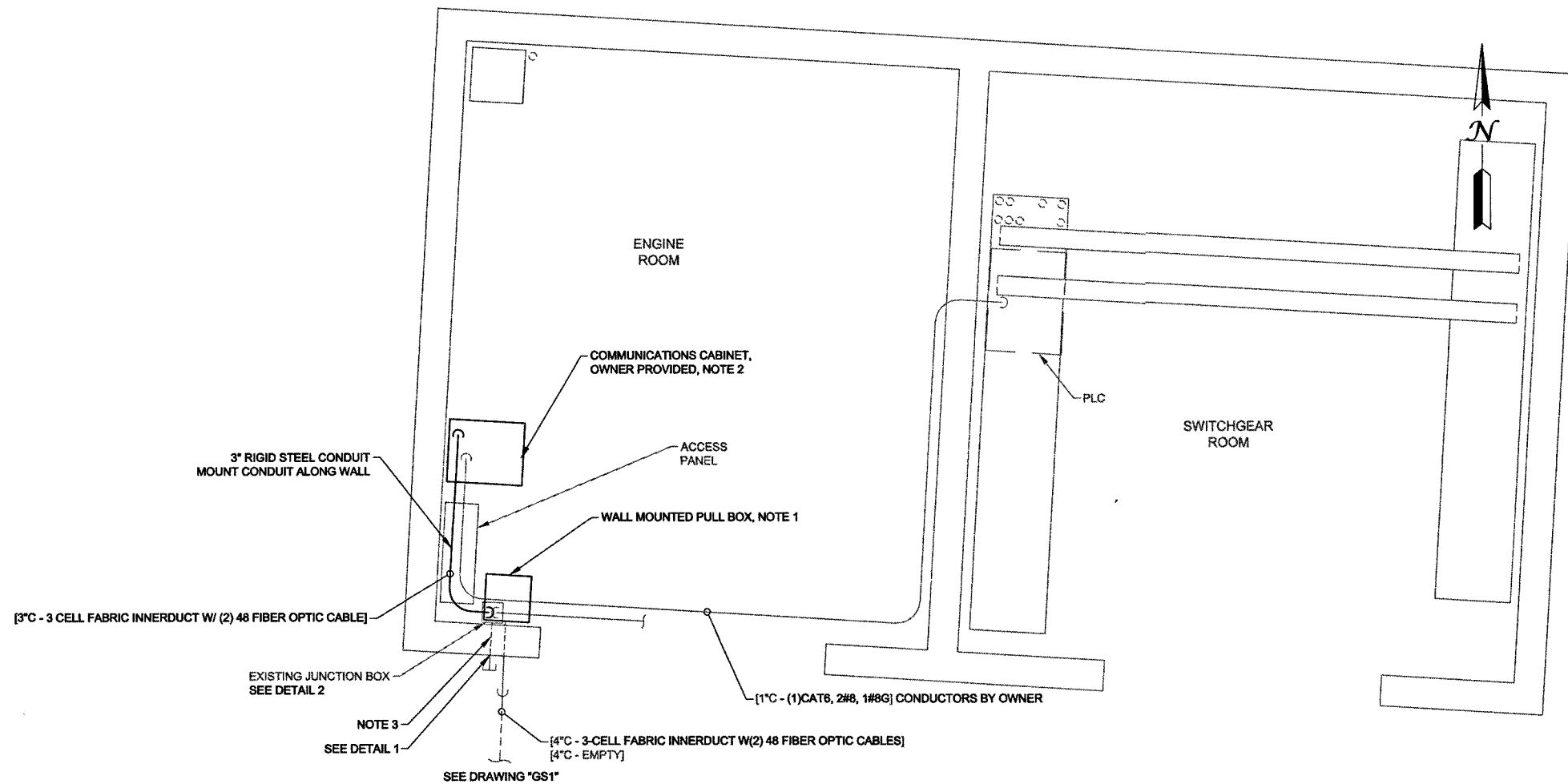
	DRAWN BY: GRANT D. RUNION		DATE: 09/13/18
	CHECKED BY: DAVID J. TRESS		DATE: 09/13/18
	RECOMMENDED BY: [Signature]		DATE: 9/13/18
	ACCEPTED BY: [Signature]		DATE: 9/13/18
CONTRACT NUMBER G1011		DRAWING NUMBER E2 SHEET 11 OF 14	
DISTRICT SERVICE AREA CARLTON SQUARE - GOWAN - FORT APACHE		PROJECT TITLE: FIBER INFRASTRUCTURE UPGRADE SERVICES	
LAS VEGAS VALLEY WATER DISTRICT		DISCIPLINE: ELECTRICAL	
1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011		SUB-DISCIPLINE: SITE PLANS	
		SHEET TITLE: SITE PLAN - GOWAN	



DETAIL 1



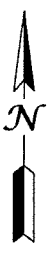
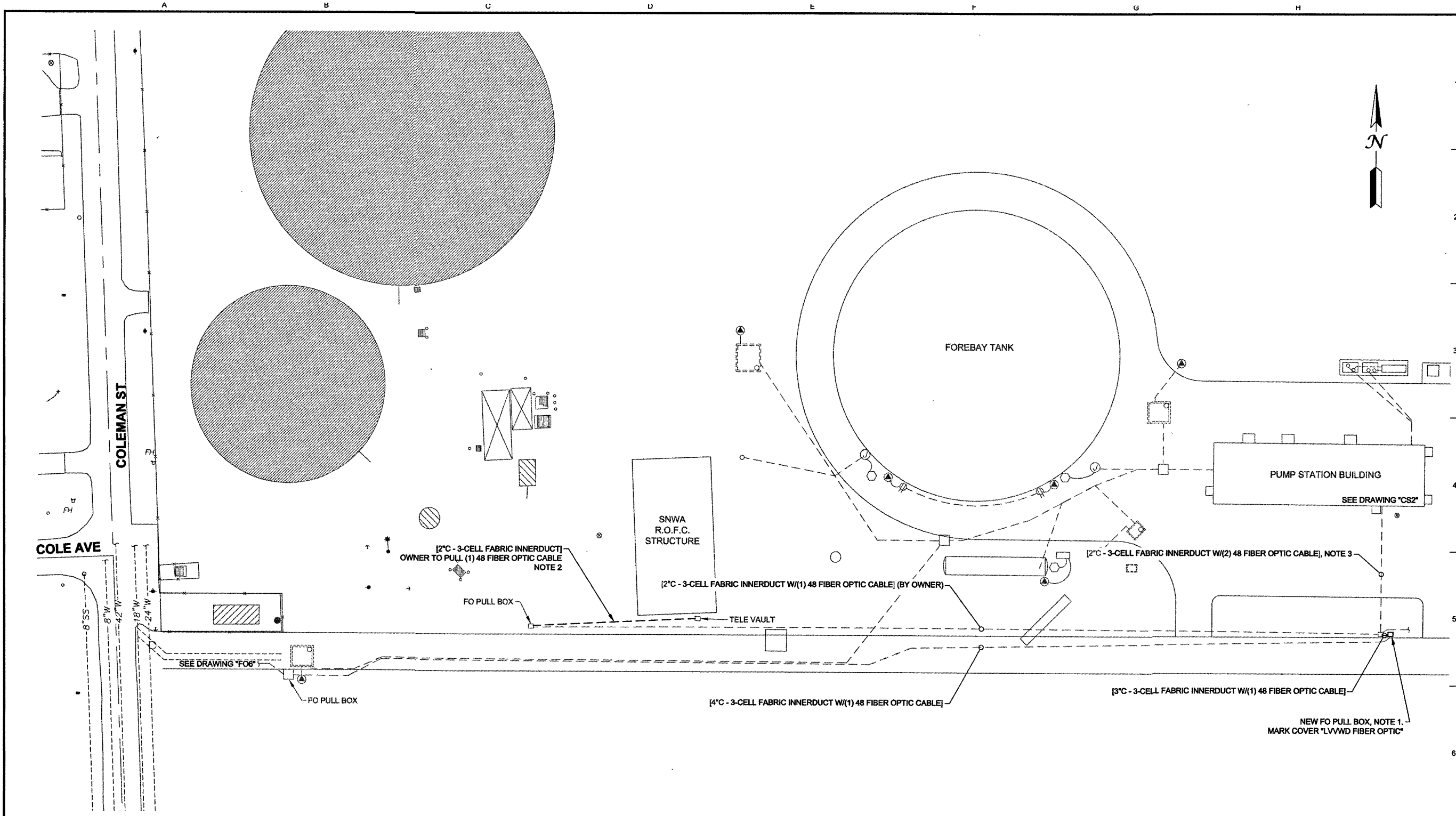
DETAIL 2



NOTES:

1. SIZE PULL BOX TO ALLOW PROPER BENDING OF FIBER OPTIC CABLE WITHOUT EXCEEDING MANUFACTURER'S MINIMUM BENDING RADIUS.
2. OWNER TO REMOVE EXISTING COMMUNICATIONS CABINET
3. DEMOLISH SPARE CONDUIT STUB OUT TO EXTERIOR, JUNCTION BOX (INSIDE) AND INTERIOR CONDUIT CONNECTED TO JUNCTION BOX. PATCH WALL PENETRATION WITH NON-SHRINK GROUT. MATCH GROUT TO EXISTING FINISH OF BUILDING.

LAS VEGAS VALLEY WATER DISTRICT		1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011	
DISTRICT SERVICE AREA		CARLTON SQUARE - GOWAN - FORT APACHE	
PROJECT TITLE:		FIBER INFRASTRUCTURE UPGRADE SERVICES	
DISCIPLINE:		ELECTRICAL	
SUB-DISCIPLINE:		SITE PLANS	
SHEET TITLE:		BUILDING PLAN - GOWAN	
DRAWN BY:	09/13/18	CHECKED BY:	09/13/18
GRANT D. RUNION		DAVID J. TRESS	
RECOMMENDED BY:	09/13/18	DATE:	09/13/18
DAVID J. TRESS, P.E.		ACCEPTED BY:	09/13/18
BRAD D. CALOIAN, P.E.			
CONTRACT NUMBER		G1011	
DRAWING NUMBER		E2	
SHEET		12 OF 14	



NOTES:

1. DEMOLISH EXISTING EAST TELEPHONE PULL BOX. INSTALL JENSEN PRECAST MODEL 3048 DIB (INTERCEPT PULL BOX WITH SPRING ACTUATED LID).
2. INSTALL FABRIC INNERDUCT IN EMPTY CONDUIT.
3. CONTRACTOR TO PULL (1)48 FIBER OPTIC CABLE AND OWNER TO PULL (1)48 FIBER OPTIC CABLE.

	DRAWN BY: DAVID D. RUNION		DATE: 09/13/18
	CHECKED BY: DAVID J. TRESS		DATE: 09/13/18
	RECOMMENDED BY: DAVID J. TRESS, P.E.		DATE: 9/13/18
	ACCEPTED BY: BRAD D. CALIHAN, P.E.		DATE: 9/13/18
CONTRACT NUMBER G1011		DRAWING NUMBER E2 SHEET 13 OF 14	
DISTRICT SERVICE AREA CARLTON SQUARE - GOWAN - FORT APACHE		PROJECT TITLE: FIBER INFRASTRUCTURE UPGRADE SERVICES	
LAS VEGAS VALLEY WATER DISTRICT		DISCIPLINE: ELECTRICAL	
1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011		SUB-DISCIPLINE: SITE PLANS	
		SHEET TITLE: SITE PLAN - CARLTON SQUARE	

