GRAND JUNCTION ODOR CONTROL IMPROVEMENTS Grand Junction



AREA MAP NO SCALE

CITY OF GRAND JUNCTION

PROJECT NO. 20W23045

BID SET



VICINITY MAP NO SCALE

GARVER PROJECT NO. 20W23045 **AUGUST 2021**



One Denver Technology Center 5251 DTC Parkway, Suite 420 Greenwood Village, CO 80111 Phone: 303-721-6932



	01 - GENERAL								
SHEET	DWG.								
NO.	NO.	DESCRIPTION							
001	01-G001	COVER							
002	01-G002	INDEX OF DRAWINGS							
003	01-G003	GENERAL CONVENTIONS AND ABBREVIATIONS							
004	01-G004	CIVIL NOTES AND LEGEND							
005	01-G005	STRUCTURAL NOTES, LEGENDS, AND ABBREVIATIONS							
006	01-G006	ELECTRICAL NOTES, LEGENDS, AND ABBREVIATIONS							

	10 - PERSIGO WASTEWATER TREATMENT PLANT							
SHEET	DWG.							
NO.	NO.	DESCRIPTION						
007	10-C101	PERSIGO WWTP EXISTING SITE PLAN						
008	10-C102	PERSIGO WWTP PROPOSED SITE AND GRADING PLAN						
009	10-C301	PERSIGO WWTP YARD PIPING PLAN						
010	10-S101	PERSIGO WWTP ODOR CONTROL STRUCTURAL OVERALL PLAN						
011	10-S102	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL PLAN I						
012	10-S103	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL PLAN II						
013	10-S301	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL SECTIONS I						
014	10-S302	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL SECTIONS II						
015	10-S401	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL DETAILS I						
016	10-S402	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL DETAILS II						
017	10-S403	PERSIGO WWTP ODOR CONTROL BTF STRUCTURAL DETAILS III						
018	10-M101	PERSIGO WWTP ODOR CONTROL SYSTEM SCHEMATIC						
019	10-M131	PERSIGO WWTP ODOR CONTROL BTF EQUIPMENT SITE PLAN						
020	10-M132	PERSIGO WWTP ODOR CONTROL BTF EQUIPMENT PLAN						
021	10-M133	PERSIGO WWTP MANHOLE PLAN AND SECTION						
022	10-M134	PERSIGO WWTP HEADWORKS PARSHALL FLUME PLAN AND SECTION						
023	10-M301	PERSIGO WWTP ODOR CONTROL SYSTEM SECTION AND ELEVATION I						
024	10-M302	PERSIGO WWTP ODOR CONTROL SYSTEM SECTION AND ELEVATION II						
025	10-E101	PERSIGO WWTP ODOR CONTROL ELECTRICAL SITE PLAN						
026	10-E131	PERSIGO WWTP ODOR CONTROL ELECTRICAL POWER AND GROUNDING PLAN						
027	10-E501	PERSIGO WWTP ODOR CONTROL ONELINE DIAGRAM						

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GENERAL CONVENTIONS

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SYMBOL IND DESIGNATIC AND SQUAR

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TITLE \bigoplus 1 A101 SCALE: 1/8" = 1'-0" PROJECT NORTH











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ROOM NAME 101 150 SF



_ 1ST FLOOR____ EL. 602.50 ____

BIM 360: 8/20/202

<u>Revit File:</u> Plot Date:

	ABBREVIA	TIONS	ABBREVIA	ATIONS
PTION	ABBREV	DESCRIPTION	<u>ABBREV</u>	DESCRIPTION
	ABV	ABOVE	PSIA	POUNDS PER SQUARE INCH
OTES A PLAN VIEW	AFF	ABOV FINISH FLOOR		ABSOLUTE
	ANSI	AMERICAN NATIONAL	PSIG	POUNDS PER SQUARE INCH GAUGE
MPLE IS PLAN VIEW No. 1 A101)	ASTM	AMERICAN SOCIETY OF TESTING	PVC	POLYVINYL CHLORIDE
		AND MATERIALS	RE:	REFERENCE, REFER
	AUX		REINF	REINFORCEMENT
OTES AN ELEVATION, OR DETAIL VIEW LAYOUT	ΑνννΑ	ASSOCIATION	RM	ROOM
MPLE IS DETAIL 1 ON SHEET	BKR	BREAKER	RTU	REMOTE TELEMETRY UNIT
A101)	BOP	BOTTOM OF PIPE	SEC	SECTION
,	CJ	CONSTRUCTION JOINT	SE	SQUAURE FEET
ENOTES A CUT SECTION EFERENCE	СКТ	CIRCUIT	SPEC	SPECIFICATIONS
IPLE OCCURS ON SHEET	CL		SQ	SQUARE
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,		GENERATION	SURF	SURFACE
ENOTES AN ELEVATION	COL	COLUMN	SUSP	SUSPEND, SUSPENDED
E IDI E OCCURS ON SHEET	DIA	DIAMETER	T&B	TOP AND BOTTOM
RENCING ELEVATION No. 1	EA	EXHAUST AIR, EXPANSION	TYP	TYPICAL
A201)		ANCHOR, EACH	U/F	UNDER FLOOR
	EL, ELEV ELEC	ELECTRICAL	U/G	UNDER GROUND
ENOTES AN ENLARGED	ENCL	ENCLOSURE	U/S	
	FA	FIRE ALARM	UL	INC.
IPLE OCCURS ON SHEET	FI FI	FINISHED FLOOR ELEVATION	UNO	UNLESS NOTED OTHERWISE
RENCING DETAIL No. 1 ON	FLR	FLOOR	V VA	VOLI, VALVE VOLT-AMPERE
')	FRP	FIBERGLASS REINFORCED	VERT	VERTICAL
ENOTES A STANDARD	FT	PLASTIC FEFT FOOT	W	WATT, WIRE, WIDTH, WINDOV
	GA	GAUGE, GAGE	\\\/	WATER
	GALV	GALVANIZED	W/O	WITHOUT
E	GFI, GFCI	GROUND FAULT CIRCUIT	WS	WATERSTOP
	GRND	GROUND		WATERTIGHT, WEIGHT
	H, HT	HEIGHT		IRANSFORMER
	HOA	HAND-OFF-AUTOMATIC		
	HP	HORSEPOWER, HEAT PUMP		
REA	HYD	HYDRANT		
	ID	INSIDE DIAMETER		
	kVA	KILOVOLT-AMPERES		
	kW	KILOWATTS		
DICATES A ROOM / AREA	LBS, #	POUNDS		
ON WITH ROOM NUMBER		LINEAR FEET MAXIMUM		
KE FOOTAGE	N/A	NOT AVAILABLE		
	NFPA	NATIONAL FIRE PROTECTION		
	NIC	NOT IN CONTRACT		
	NTS	NOT TO SCALE		
DICATES A AL GRIDLINE OR	OC	ON CENTER		
	OFCI	OWNER FURNISHED		
	OSHA	OCCUPATIONAL SAFETY &		
		HEALTH ADMINISTRATION		
	PD	PROCESS DRAIN		
ΠΙΩΑΤΕς Α ΠΑΤΙΙΜΙΝΙΑ	PNL	PANEL		
RELEVATION	PRV	PRESSURE RELIEVE VALVE		
	PSF	POUNDS PER SQUARE FOOT		
	PSI	FUUNDO FER OQUARE INCH		



S LABORATORIES,

DTH, WINDOW,

<u>GE</u>	NERAL CIVIL NOTES	<u>YA</u>	RD PIPING
1.	SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY, MEANS, OR METHODS OF THE CONTRACTOR.	1. 2.	MINIMUM
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AGENCIES BEFORE WORK COMMENCES TO VERIFY THE TYPE, LOCATION, PROTECTION REQUIREMENTS, DEPTH OF ALL EXISTING UTILITIES, DRAINAGE FACILITIES, AND OTHER OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING AND/OR	3.	GRADES SOME CA ELEVATIO REQUIRE ALL JOIN ⁻
3.	CAUTION: UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM EXISTING RECORDS AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR	4.	THRUST / AND AS F ENGINEE
	ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. WHERE CROSSING OF EXISTING UTILITIES OCCUR, PROVIDE 12" MINIMUM CLEARANCE EXCEPT WATER MAINS SHALL BE 24" CROSS LINDER ALL WATER MAINS WHERE NOT POSSIBLE TO	5. 6.	CONTRAC LINES, AN LOCATIOI CONSTRU CONTRAC
4.	PROVIDE 18" CLEARANCE. SEWER AND WATER SERVICE SHALL BE MAINTAINED DURING ENTIRE	7.	UNDERGI
5.	CONSTRUCTION PERIOD OR TEMPORARY FACILITIES PROVIDED. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING ACTIVITIES AND		ALL FITTI SPECIFIE
	ASSOCIATED PERMITS REQUIRED FOR ALL EXCAVATIONS REQUIRED TO COMPLETE THE PROJECT.	8. 9.	ALL BURI
6.	APPROXIMATE LOCATIONS OF OVERHEAD POWER LINES MAY OR MAY NOT BE SHOWN ON PLANS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL LOCATIONS IN THE FIELD AND PLAN WORK IN THESE AREAS ACCORDINGLY.		WRITTEN AND APP DEPENDI BE REQU THE CITY
7.	CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DRAINAGE AND COMPLIANCE WITH ALL GOVERNMENTAL STORM WATER REGULATIONS AND PERMITS (SWPPP) AS REQUIRED. CONTRACTOR SHALL OBTAIN NOI FROM APPROPRIATE STATE BODY PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PERMITS REQUIRED FOR WORK WITHIN STREAMS.	10.	ROCK SH SEPARAT CONSIDE ITEMS.
8.	IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE TRAFFIC CONTROL AND SIGNAGE FOR THE DURATION OF PROJECT AS REQUIRED BY THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - PART VI, AND/OR ALL OTHER APPLICABLE GUIDELINES OF CDOT, COUNTY, CITY OR ANY OTHER AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AREAS. ALL ROAD CLOSURE MUST BE APPROVED BY THE CITY OF GRAND JUNCTION TRAFFIC ENGINEER PRIOR TO ANY PUBLIC ROAD CLOSURES.	11.	ALL BYPA THE CON ROUND-T WORKER CONSTRU OR EXIST REQUIRE BE INCLU
9.	CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW TO RESIDENCES AND BUSINESS WITH MINIMUM DISRUPTION OF ACCESS.	10	APPROVE
10.	ALL STREETS AND DRIVEWAYS SHALL BE OPEN CUT UNLESS NOTED OTHERWISE.	12.	AND MAN
11.	ALL EXCAVATION BACKFILL OUTSIDE TRAFFIC WAYS SHALL BE COMPACTED TO MIN 95% STANDARD PROCTOR DENSITY TO PREVENT SETTLEMENT.		
12. PA	CONTRACTOR SHALL PROVIDE THEIR OWN SANITARY WASTE FACILITIES. /ING AND GRADING NOTES		SYMBOI
1.	ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AT THE CONTRACTORS EXPENSE.		C
2.	ANY DISTURBED AREAS NOT SPECIFICALLY DESIGNATED TO BE GRADED SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AND SHALL BE GRADED TO DRAIN AS APPROVED BY THE ENGINEER.		— CATV — — — — —
3.	FINAL PAVEMENT SURFACES SHALL NOT BE PLACED UNTIL ALL MAJOR CONSTRUCTION ACTIVES HAVE CONCLUDED.		—X —FP
4.	ANY CHANGES TO FINAL GRADE ELEVATIONS AS SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.		11
5.	ALL ASPHALT AND CONCRETE PAVING REMOVED AND REPLACED SHALL BE NEAT SAW CUT.		G
6.	ALL OPEN CUT TRAFFIC WAYS (ROADS, PARKING LOTS, DRIVES, ETC.) AND ALL AREAS LYING WITHIN PRISM OF TRAFFIC WAYS, SHALL HAVE CRUSHED		-OHE-
	STONE BACKFILL COMPACTED WITH VIBRATORY COMPACTOR MAXIMUM 6" LIFTS AND COMPACTED TO MINIMUM 100%-98% MODIFIED PROCTOR DENSITY TO PREVENT SETTLEMENT FOR ITS ENTIRE TRENCH HEIGHT AND WIDTH.		—PD — PL —
	COMPACTED "PUG-MIX" SHALL BE USED AND MAINTAINED IN TOP 12" OF TRENCH HEIGHT AS REQUIRED TO PREVENT AGGREGATE LOSS DUE TO TRAFFIC.		— R/W —
CIV	IL LEGEND NOTES		
1.	GRAY SCALED LINE TYPES AND SYMBOLS INDICATE EXISTING ITEMS. BOLD SCALED LINE TYPES AND SYMBOLS INDICATE PROPOSED ITEMS.		- 33L
2.	ADDITIONAL PROCESS LINES MAY BE DENOTED BY A LINE TYPE WITH THE FLOW STREAM IDENTIFIER.		SF
			—тов—

NOTES

MINIMUM CO	VER OVER PIPING SHALL BE	E 3'-0", MEASURED FF	ROM FINISHED GRADE.	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PROVIDE MIN	IIMUM PIPE COVER, AS SPE	CIFIED. IN GENERAL	LAY PIPE TO UNIFORM		BENCH MARK			<u></u>	
GRADES BET SOME CASES	WEEN THE ELEVATIONS SH 3, EXISTING CONDITIONS PF	IOWN, UNLESS OTHE ROHIBIT UNIFORM GR	RWISE APPROVED. IN		DENGITIMATIK		DEMOLISH		EXISTING CONCRETE
	SHOWN, AND FIELD ADJUS	TMENTS TO UNIFORM	M GRADES ARE		BOLLARD		EXISTING ASPHALT		PROPOSED CONCRETE
	SAFFROVED BT ENGINEER				CATCH BASIN/JUNCTION BOX		PROPOSED ASPHALT		GRAVEL ROAD OR DRIVE
ALL JOINTS S	SHALL BE WATERTIGHT.				CLEANOUT				
	TTTINGS SHALL BE RESISTE	ED BY RESTRAINED J	IOINTS AS SPECIFIED		CONCRETE HEADWALL				
ENGINEER. S	EE THRUST RESTRAINT DE	TAILS 5 .					ABANDON	<u>ABBREV</u> N	NORTH
CONTRACTO	R SHALL LOCATE AND UNC	99-C502 OVER ALL CONNECTI	IONS TO EXISTING	EB	ELECTRIC BOX	AFF	ABOVE FINISHED FLOOR	NE	NORTHEAST
LINES, AND A	NY POSSIBLE CONFLICTS V	VITH PROPOSED FAC	CILITIES AND VERIFY	EDM	ELECTRIC DUCT MARKER	ALUM	ALUMINUM SULFATE	NW	NORTHWEST
CONSTRUCT	IEVATION, PIPE MATERIAL, ION.	AND PIPE O.D. PRIOF	RIUANY	EMH	ELECTRIC MANHOLE			NIC NO #	
CONTRACTO	R SHALL MAINTAIN AND PRO			EM	ELECTRIC METER	ASER	ASEMBLY	NTS	NOT TO SCALE
UTILITIES. TH	E CONTRACTOR IS RESPON	NSIBLE FOR REPAIRI	NG ANY DAMAGED	FOC		BC	BACK OF CURB	NWSL	NORMAL WATER SURFACE LE
UNDERGROU	IND FACILITIES.					BLDG	BUILDING	00	
ALL SMALL D	IAMETER PIPING SHALL BE	INSTALLED AS SHOW	VN ON DRAWINGS WITH	FOC	FIBER OPTIC CABLE RISER/PEDESTAL	BLK BM	BLOCK BENCHMARK	OVF	OUTSIDE DIAMETER
SPECIFIED.	AND VALVES AS REQUIRE	D TO FROME A FOR	ICTIONAL FIFELINE AS	FOMH	FIBER OPTIC MANHOLE	BOT	BOTTOM	PC	POINT OF CURVE
ALL BURIED	/ALVES SHALL BE INSTALLE	ED WITH VALVE BOX	AS SPECIFIED.	- Ò	FIRE HYDRANT	CI	CAST IRON	PD	PROCESS DRAIN
					FLARED END SECTION (FES)	CIP	CAST IRON PIPE	PE	PLAIN END
WRITTEN WC	RK PLAN SHALL BE SUBMIT	TED NO LESS THAN	21 DAYS IN ADVANCE			CJ	CONSTRUCTION JOINT CENTERLINE, CLASS	PL, PLS	PUINT OF INTERSECTION PLATE, PLACES
	ED BY THE ENGINEER AND	CITY 5 DAYS PRIOR	TO ANY SHUTDOWNS.	GM	GAS METER	CMU	CONCRETE MASONRY UNIT	PO	PUSH ON
BE REQUIRED	D 24 HOURS PRIOR TO ANY	SHUTDOWN AT THE	SOLE DISCRETION OF	\otimes	GAS REGULATOR	CONC	CONCRETE	PP	POWER POLE
THE CITY.				(-	GUY WIRE ANCHOR	CONN	CONNECTION	PRC	POINT OF REVERSE CURVE
ROCK SHALL	BE UNDERCUT A MINIMUM	OF 4" AND PIPE BEDI	DED IN STONE. NO	ICV	IRRIGATION CONTROL VALVE	CONT	CONTROL POINT	PSI PT	POINDS PER SQUARE INCH POINT OF TANGENT
CONSIDERED	TO BE UN-CLASSIFIED EX(CAVATION AND SUBS	SIDIARY TO OTHER BID			DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
ITEMS.				\sim		DIA	DIAMETER	R, RAD	RADIUS
ALL BYPASS	PUMPING REQUIRED DURIN	NG THE PROJECT IS T	THE RESPONSIBILITY OF	(MH)	MANHOLE	DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPI
THE CONTRA ROUND-THE-	CTOR AND PUMPING SHALI	L BE HELD TO A MINII SHALL BE MANNED CO	MUM. ONTINUOUSLY WITH	MW	MONITORING WELL	EFF	EFFLUENT	REINF	REINFORCEMENT
WORKERS AT	THE CONTRACTOR'S EXPE	ENSE. AT END OF EA		PD	PROCESS DRAIN MANHOLE	EL, ELEV	ELEVATION	REQD	REQUIRED
OR EXISTING	PIPES WITH FITTINGS, PIPE	E, HOSE, OR OTHER A	APPURTENANCES AS			ELEC	ELECTRICAL	RJ	RESTRAINED JOINT
	HALL BE BACKFILLED TO EX	(ISTING GRADE, COS	T OF THIS WORK SHALL		PROPERTY PIN	EOP	EDGE OF PAVEMENT	ROW, R/W	RIGHT-OF-WAY
WRITTEN BY	PASS PLAN SHALL BE SUBM	11TTED 21 DAYS BEFC	DRE BYPASS AND		RIP RAP	EQ	EXISTING	RP RS	RESILIENT SEAT
APPROVED B	BY THE ENGINEER AND CITY	5 DAYS PRIOR TO A	NY BYPASS.	SS	SANITARY SEWER MANHOLE	EXP	EXPANSION	RT	RIGHT
CONTRACTO	R SHALL PREVENT STORM		FROM ENTERING PIPES		SIGN	FCJ	FLOOR CONSTRUCTION JOINT	S	SOUTH, SLUDGE
PLUGGED AT	THE END OF EACH DAY.	S AND MANHOLES SI	HALL BE SECURELY			FES	FLARED END SECTION	SCH	SCHEDULE STORM DRAIN
					SLOPE DIRECTION INDICATOR	FFE	FIRE HYDRANT	SD SDMH	STORM DRAIN
					SPRINKLER HEAD	FG, FIN GR	FINISH GRADE	SE	SOUTHEAST
	CIVIL LEGE	ND		SD	STORM DRAIN MANHOLE	FL	FLOWLINE	SECT	SECTION
		SVMPOL	DESCRIPTION	\sim	SURVEY CONTROL POINT	FLG		SF	
STMBOL	DESCRIPTION		DESCRIPTION			FT	FEET, FOOT	SPEC	SPECIFICATIONS
C	COMMUNICATION	——TOS——	TOE OF SLOPE		TELEPHONE JUNCTION BOX	FTG	FOOTING	SQ	SQUARE
—CATV ——	CABLE TV	$\bigcirc \bigcirc $	TREE LINE	(TELE MH	TELEPHONE MANHOLE	G	GUTTER	SS	SANITARY SEWER
	EASEMENT LINE		UNDERGROUND ELECTRIC		TELEPHONE PEDESTAL	GL	GAS LINE	STA STD	STATION
Y	FENCE				TELEVISION PEDESTAL	GV	GATE VALVE	STD	SIDEWALK, SOUTHWEST
		001	UNDERGROUND TELEFTION			HORIZ	HORIZONTAL	T&B	TOP AND BOTTOM
FP	FLOODPLAIN		WATER EDGE	Ŷ	UTILITY POLE	HWY	HIGHWAY	TBM	
— II ——	FLOODWAY	——	WATER LINE	\propto	VALVE	ID IN	INSIDE DIAMETER INCHES	TC TEMP	TEMPORARY, TEMPERED
	FLOWLINE	WSL	WATER SERVICE LINE	(WM)	WATER METER	INF	INFLUENT	THK	THICKNESS
G	GASTINE	W/1	ροταρί ε ωλτέρ	-	YARD HYDRANT/SPIGOT	INV	INVERT	тос	TOP OF CURB
						JT	JOINT	TS	TOP OF SIDEWALK
	OVERHEAD ELECTRIC	—— W2——	NON-POTABLE WATER				LENGTH LINEAR FEET	UNO	UNLESS NOTED OTHERWISE
— PD — —	PROCESS DRAIN	(A)	INDICATES ABANDONED LIN	NE 🗍		LG	LONG	V	VOLT, VALVE
—PL	PROPERTY LINE	<u> </u>	12" INDICATES SIZE OF LINE	Ξ		LIN	LINEAL, LINEAR	VERT	VERTICAL
— R/W ——	RIGHT-OF-WAY	••	EXISTING PIPE TO BE ABAN		SYMBOL INDICATES			VT	VENTILATOR WIDTH WATER
00						LI MANUF		vv W/	
	SANITARY SEWER	\sim				MAX	MAXIMUM	W/O	WITHOUT
— SSL ——	SEWER SERVICE LINE	$\{ \}$	SHRUB/BUSH			MGD	MILLION GALLONS PER DAY	WL	
SD	STORM DRAIN	. ~ Y 1 X r .	Ω	10' 20' 40'		MH			WATERSTOP
SF	SILT FENCE				GRAPHICAL BAR SCALE	MISC	MISCELLANEOUS	WWF	WELDED WIRE FABRIC
		PARE	IREE	(IN FEET)		MJ	MECHANICAL JOINT	X	BY
	I OP OF BANK	之之之							

SHALL BE 3'-0", MEASURED FROM FINISHED GRADE.
, AS SPECIFIED. IN GENERAL LAY PIPE TO UNIFORM FIONS SHOWN, UNLESS OTHERWISE APPROVED. IN FIONS PROHIBIT UNIFORM GRADES BETWEEN THE D ADJUSTMENTS TO UNIFORM GRADES ARE NGINEER.
GHT.
RESISTED BY RESTRAINED JOINTS AS SPECIFIED THRUST, UNLESS OTHERWISE APPROVED BY AINT DETAILS 5 99-C502
ND UNCOVER ALL CONNECTIONS TO EXISTING FLICTS WITH PROPOSED FACILITIES AND VERIFY ATERIAL, AND PIPE O.D. PRIOR TO ANY
AND PROTECT ALL EXISTING BURIED PIPING AND



<u>یدہ</u> 1.	GENERAL NOTES AND STANDARD DETAILS SHALL NOT REPLACE OR OVER RULE ANY		STRU
	STRUCTURE SPECIFIC NOTE, DETAIL, OR SPECIFICATION. STRUCTURE SPECIFIC NOTES AND DETAILS SHALL GOVERN OVER GENERAL NOTES AND STANDARD DETAILS		STRE
2. 3.	RISK CATEGORY	2.	CONC COMP
-	ROOF WITHOUT REDUCTION 20 PSF FLOORS:	3.	HOLD
	CORRIDORS	4.	ALL E
	BALCONIES	5.	NON-F
	OFFICES	6.	REINF
	MOVABLE FILE ROOMS 150 PSF INDUSTRIAL AREAS 250 PSF	7.	CONC
	EQUIPMENT ROOMS250 PSF AREAS WITH UNRESTRICTED VEHICULAR ACCESS AASHTO HS20		DETA
4.	WIND LOAD PARAMETERS - ASCE 7-16 BASIC WIND SPEED 109 MPH	8.	REINF
	EXPOSURE CATEGORY C GCPI +/- 0.18 (ENCLOSED BUILDINGS)	9.	NO RE SPEC
5.	SEISMIC DESIGN PÀRAMETERS - 2018 IBC É IMPORTANCE FACTOR, I 1.25	10.	PROV
	SITE CLASS D SEISMIC SPECTRAL ACCELERATIONS		AND S
	S _S PERSIGO WWTP SITE0.235g, DOS RIOS SITE0.237g S1PERSIGO WWTP SITE0.065g, DOS RIOS SITE0.065g	11.	MECH WITH
	SEISMIC DESIGN CATEGORY B DESIGN SPECTRAL ACCELERATIONS	12.	TREM
	S _{DS} PERSIGO WWTP SITE0.251g, DOS RIOS SITE0.253g S _{D1} PERSIGO WWTP SITE0.105g, DOS RIOS SITE0.105g	13.	PROV
	RESPONSE MODIFICATION FACTOR, R SEE INDIVIDUAL PLANS BASIC SEISMIC FORCE RESISTING SYSTEM SEE INDIVIDUAL PLANS		EXCE
	SEISMIC RESPONSE COEFFICIENT, Cs SEE INDIVIDUAL PLANS ANALYSIS PROCEDURE	14.	CONT OF CC
6.	SNOW LOADS PARAMETERS - ASCE 7-16		PLACE
	GROUND SNOW LOAD, P _G	15.	WALK SO TH
	EXPOSURE FACTOR, C _e 1.00 THERMAL FACTOR, C _T 1.00	16	ALL C
7	THE STRUCTURE SHOULD NOT BE CONSIDERED TO BE STABLE DURING		INCOF
	CONSTRUCTION UNTIL ALL ELEMENTS ARE IN PLACE AND CONNECTED. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL TEMPORARY CONSTRUCTION BRACING, AS REQUIRED.		UNLES CONS ON TH
8.	CONSTRUCTION METHODS, PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S	17.	SUBS
	RESPONSIBILITY. THE CONTRACTOR SHALL TAKE THE ALL NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION, NEW		EMBE APPR
`	AND EXISTING, AT ALL STAGES.	18.	
).	PRIOR TO ANY PERTINENT WORK. ALL EXISTING CONDITIONS AND CONDITIONS SHALL BE NOTED ON THE SHOP DRAWINGS.		CONS
10.	COORDINATE WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS, AND VERIFY THE LOCATIONS AND SIZES OF THE CHASES, OPENING, INSERTS, SLEEVES, FINISHES, CONDUITS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.		
11.	THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE DRAWINGS AND EXISTING CONDITIONS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN WALLS AND SLABS.		
12.	STANDARD DETAILS APPLY UNLESS INDICATED OTHERWISE ON SPECIFIC STRUCTURE		
<u>STR</u>	JCTURAL STEEL NOTES:	FOU	NDATIO
	UNLESS OTHERWISE SPECIFIED, HOT-ROLLED STEEL BUILDING MEMBERS USING W-SHAPES SHALL BE ASTM A992; M-, S-, AND C- SHAPES ASTM A36; SQUARE,	1.	DESIC
1.		2.	_
1.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36.		FLOO SUBM
1. 2.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD	3.	FLOO SUBM FLOO
1. 2.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR AISC BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO SUPPORT THE END REACTION EQUAL TO ONE - HALF THE TOTAL UNIFORM CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES OF THE AISC ALLOWABLE STRESS DESIGN MANUAL - 14TH EDITION.	3. 4.	FLOO SUBM FLOO CONC SHOW SHALL
1. 2. 3.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR AISC BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO SUPPORT THE END REACTION EQUAL TO ONE - HALF THE TOTAL UNIFORM CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES OF THE AISC ALLOWABLE STRESS DESIGN MANUAL - 14TH EDITION. WELDING SHALL CONFORM WITH AWS D1.1 STRUCTURAL WELDING CODE.	3. 4.	FLOO SUBM FLOO CONC SHOW SHALL PROV
1. 2. 3. 4.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR AISC BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO SUPPORT THE END REACTION EQUAL TO ONE - HALF THE TOTAL UNIFORM CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES OF THE AISC ALLOWABLE STRESS DESIGN MANUAL - 14TH EDITION. WELDING SHALL CONFORM WITH AWS D1.1 STRUCTURAL WELDING CODE. ALL BOLTS FOR BEAM CONNECTIONS SHALL BE ASTM F593, TYPE 316 STAINLESS STEEL	3. 4. 5.	FLOOI SUBM FLOOI CONC SHOW SHALI PROV ALL C
1. 2. 3. 4.	RECTANGULAR & ROUND HSS SHAPES ASTM A 500 GRADE B; ANGLES AND MISCELLANEOUS STIFFENER PLATES ASTM A 36. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR AISC BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO SUPPORT THE END REACTION EQUAL TO ONE - HALF THE TOTAL UNIFORM CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES OF THE AISC ALLOWABLE STRESS DESIGN MANUAL - 14TH EDITION. WELDING SHALL CONFORM WITH AWS D1.1 STRUCTURAL WELDING CODE. ALL BOLTS FOR BEAM CONNECTIONS SHALL BE ASTM F593,TYPE 316 STAINLESS STEEL WITH A MINIMUM DIAMETER OF 1/2" UNO. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED AS SLIP CRITICAL. WASHERS SHALL BE INSTALLED UNDER NUTS OF FASTENERS WHEN REQUIRED BY THE SPECIFICATION FOR STRUCTURAL JOINTS.	3. 4. 5. 6. 7.	FLOOI SUBM FLOOI CONC SHOW SHALL PROV ALL COMP ALL PI

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NCRETE NOTES: TURAL CONCRETE FOR BUILDING MEMBERS SHALL HAVE A SPECIFIED COMPRESSIVE			
GTH OF 4,000 PSI UNO.			
RESSIVE STRENGTH OF 4,000 PSI.			
SLUMP TO 3 TO 4 INCHES IN ALL FLOOR SLABS.			
POSED CONCRETE EDGES SHALL BE CHAMFERED 3/4".			
RESTRESSED CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM A 615 GRADE 60.			
DRCEMENT LAP SPLICES SHALL CONFORM TO DETAIL 1/99-S501.			
RETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIRED BY . 2/99-S501, UNO.			
DRCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315.			
NFORCING BAR SHALL BE WELDED OR FIELD BENT IN ANY MANNER, UNLESS FICALLY SHOWN OR NOTED ON THE DRAWINGS.			
DE FULL EMBEDMENT FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, DOWEL SIZE PACING SHALL BE THE SAME AS MAIN REINFORCING.			
NICAL EQUIPMENT PADS ON FLOOR SLABS SHALL BE 6" THICK AND REINFORCED 4 @ 12" EW, UNO.			
ES REQUIRED ON ALL POURS DEEPER THAN 5 FEET.			
DE A MINIMUM OF SEVEN (7) DAYS BETWEEN ADJACENT POURS. CONCRETE SHALL MEET OR D DESIGN COMPRESSIVE STRENGTH PRIOR TO PLACING ADJACENT POURS.			
ACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL A SCHEDULE AND SEQUENCE NCRETE PLACEMENT. SEQUENCE SHALL INCLUDE PERMITTING CURE TIME BETWEEN MENTS AT ADJACENT PROPOSED PLACEMENTS.			
VAYS AND SIDEWALKS SHALL BE POURED WITH SLIGHT SLOPE AND NO LOW SPOTS EY WILL DRAIN FREE. ALL SLOPES SHALL COMPLY WITH ADA REQUIREMENTS.			
NSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE PORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE RUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW. S INDICATED OTHERWISE, ALL CONSTRUCTION JOINTS TO BE KEYED. HORIZONTAL RUCTION JOINTS SHALL NOT BE PERMITTED IN WALLS AND BEAMS, UNLESS SHOWN E STRUCTURAL DRAWINGS.			
ITUTION OF EXPANSION OR DRILLED AND GROUTED-IN ANCHORS FOR DED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED UNLESS WED BY ENGINEER.			
ANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT PRAGE AND DETAILS. VERIFY EQUIPMENT SIZE AND WEIGHTS WITH ENGINEER PRIOR TO RUCTION OF ANY AND ALL EQUIPMENT PADS.	<u>ABBREVIA</u> <u>ABBREV</u>	TIONS DESCRIPTION	
NOTES: N FOUNDATION BEARING PRESSURE PER GEOTECHNICAL REPORT. SLAB CONSTRUCTION JOINTS (C.J.) SHALL BE PLACED AS SHOWN ON FOUNDATION PLANS AND ITED TO ENGINEER FOR APPROVAL PRIOR TO CONCRETE PLACEMENT. SLAB ISOLATION JOINTS SHALL BE 30# FELT UNO. RETE FLOOR AND SLAB ON GRADE MAY BE PLACED IN LANES. SPACING OF JOINTS SHALL BE AS N ON THE FOUNDATION PLAN. WHEN LANE PLACED IN LANES. SPACING OF JOINTS SHALL BE AS N ON THE FOUNDATION PLAN. WHEN LANE PLACEMENT IS USED, CONSTRUCTION JOINTS BE USED FOR THE JOINTS BETWEEN LANES. SAW CUT CRACK CONTROL JOINTS SHALL BE DED ACROSS EACH LANE AT SPACING SHOWN ON PLANS.	AL ARCH BG CCJ CJP EF EJ ES EW EXST EXT FD FND FS IJ INT KIP KLF KSF LLH LLV LSL MECH NS OH OVS	ALUMINUM ARCHITECT, ARCHITECTU BACK GOUGE CRACK CONTROL JOINT COMPLETE JOINT PENET EACH FACE EXPANSION JOINT EVENLY SPACED, EACH S EACH WAY EXISTING EXTERIOR FLOOR DRAIN FOUNDATION FOOTING STEP, FAR SIDE ISOLATION JOINT INTERIOR 1,000 POUNDS KIPS PER LINEAR FOOT KIPS PER SQUARE FOOT LONG LEG HORIZONTAL LONG LEG VERTICAL LONG LEG VERTICAL LONG SLOT MECHANICAL NEAR SIDE OPPOSITE HAND OVERSIZED	JRAL RATION
NCRETE CORNERS SHALL BE CHAMFERED 3/4" ON THE EXTERIOR EXPOSED CORNER.	LEGEND	<u>.</u>	
ACTED GRANULAR FILL OR BASE COURSE ROCK AS INDICATED AND SPECIFIED.	C	CENTERLINE	%
	L		
ESSURE PIPING BENEATH SLABS SHALL BE CONCRETE ENCASED.	L 0	DEGREES	ዊ
ESSURE PIPING BENEATH SLABS SHALL BE CONCRETE ENCASED.	د • ال	DEGREES FLANGE	ዊ ±

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		© 200 S DOCUM EAS AND EREIN, S TRUMEN RVICE A GARVER HIS DO IDEAS A EREIN, IS GARVER AUTHOF GARVER SGREEM	21 GAP MENT, J D DESIG HALL ENTS OF ND AR ER, LLC DOCUME S PROF RIZED IN TION, C DIN TH SSION/ ENT FO	RVER, ALONG GNS C E CON E PROF C. ANY NT, AL SIGN IBITEI N WRITO N WRITO N WRITO N WRITO N WRITO N WRITO N WRITO		TH THE EYED ERED SIONAL TY OF E, SUTION WITH TAINED LESS BY TLY VING ES DRK.
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	BΥ					
	DESCRIPTION					
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	CITY OF GRAND JUNCTION	GRAND ILINCTION COLORADO		COLORADO COLORADO		ODOR CONTROL IMPROVEMENTS
	S LE Al	EGEN BBRE	DS, VIAT	al I Ane Ton	NU) IS	IES,
	JC DA DE	DB NC ATE: / ESIGN).: 2 AUG NED	0W2 UST BY:	230 20 	45)21 (AM
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PCF	POUNDS PER CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PLF	POUNDS PER LINEAR FOOT
SIM	SIMILAR
SSL	SHORT SLOT
STL	STEEL
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
VCJ	VERTICAL CONSTRUCTION JOINT

PERCENT PLATE PLUS / MINUS

WATERSTOP DIRECTION OF DECK SPAN

ABBREVIATIONS

ABBREV DESCRIPTION

<u>GENEF</u>	RAL NOTES:							
1. T A	THESE NOTA APPLY TO SC	TIONS ARE INTENDED TO BE OME OR ALL OF THE PLAN SH	GENERAL IN	NATURE. THEY MAY OF PECIFICATIONS.	R MAY NOT	16.	IN AREAS	WHERE TH R SIMILAR II
2. A A A	ALL RACEWA ACCORDANC APPLICABLE	YS AND EQUIPMENT SHALL IN E WITH THE LATEST EDITION LOCAL CODES.	BE INSTALLE NOF THE NAT	D AND GROUNDED IN FIONAL ELECTRICAL COI	DE AND	17.	CONTRAC AND FUN	TOR SHALL
3. C C F V	CONDUIT RU ONLY. THE C RUNS AND S WITH THE EN	NS INDICATED ON THE PLAN ONTRACTOR SHALL BE RESF HALL COORDINATE ANY DEV IGINEER. ALL CONDUIT SHAL	SHEETS ARE PONSIBLE FO IATION FROM L BE INSTALI	E INTENDED TO BE SCHE R FIELD ROUTING ALL C I ROUTING AS INDICATE LED IN SUCH A MANNER	EMATIC CONDUIT D HEREIN AS TO		MECHANI CONTROL OTHER SI PROVIDE	CAL SYSTEM SYSTEM. T ECTIONS OF CONDUIT, V
F	PREVENT CC PARALLEL OI	NFLICTS WITH EQUIPMENT. R PERPENDICULAR TO BEAM	EXPOSED CC S OR STRUC	ONDUIT SHALL BE INSTA TURAL CONDITIONS.	LLED	18.	CONTRAC FIREWALI	TOR SHALL
4. T II F	THE CONTRANDICATED C	CTOR SHALL BE RESPONSIB IN THE PLAN SHEETS. THIS IN ES AND OTHER MISCELLANE(LE FOR FIEL NCLUDES CIR DUS EQUIPM	D ROUTING ALL CONDUI RCUITS FOR LIGHTING, ENT CIRCUITS.	TS NOT		ACCOMPL FIREWALI MAY BE R	LISHED IN SU L THROUGH REQUIRED.
5. A C V S	 ALL CONDUITS SHALL BE ROUTED AND SUPPORTED IN SUCH A MANNER AS TO NOT COMPROMISE THE STRUCTURAL INTEGRITY OF WALLS, FLOORS, CEILINGS, AND ROC WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE ADDITIONAL STRUCTURAL SUPPORTING MEMBERS FOR THE INSTALLATION AND SHALL COORDINATE SUCH MEMBERS WITH ENGINEER 						CONTRAC FOR ITEM RESPONS OPERABL POWER T OTHER EI	TOR SHALL IS RELATED IBLE FOR IN E MECHANI RANSFORM LECTRICAL
6. T A	THE CONTRA ALL EQUIPME	CTOR SHALL VERIFY THE EXENT WITH SHOP DRAWINGS E	ACT LOCATIO	ON OF CONDUIT ENTRAI BBING UP CONDUITS.	NCES FOR		SYSTEMS DISCONN FURNISHI	J. THE CONT ECTS FOR A ED WITH AN
7. A V A	ALL SURFAC WALLS OR IN AS TO MAINT	E MOUNTED PANELS AND PA I OTHER LOCATIONS CONSID AIN A 1/4" MINIMUM AIR SPAC	NELBOARDS ERED DAMP CE BETWEEN	ON THE INTERIOR OF E OR WET SHALL BE MOU I THE ENCLOSURE AND	XTERIOR INTED SO THE WALL.		CONDUIT, NECESSA	, WIRING AN RY FOR TH
8. F	PULLBOXES, SHALL PROV	IF SHOWN ON THE PLANS, A IDE ADDITIONAL PULLBOXES	RE SCHEMA	TIC IN NATURE. THE CON QUIRED TO MAKE A WOR	NTRACTOR RKABLE	20.	ALL RECE FAULT CIF	PTACLES IN RCUIT INTER
а <u>Д</u>		N. HALL BE PERFORMED IN ACC		/ITH THE DETAILS AND		21.	REQUIPME	MENTS.
9. F	SPECIFICATI	ONS WHETHER OR NOT THE	Y ARE REFER	RENCED ON THE DRAWIN	NGS.	22.	ALL CONE	DUITS SHALI
10. A E F	ALL CONDUIT EXPANSION / REFER TO TH	FRUNS PASSING THROUGH E AND DEFLECTION TYPE FITTI HE STRUCTURAL DRAWINGS.	EXPANSION J NGS. FOR LC	OINTS SHALL HAVE EXP CATIONS OF EXPANSIO	ANSION OR N JOINTS,	23.	ALL LIGHT SUCH INS	FING FIXTUF
11. T S E	THE WIRING SUGGESTED ELECTRICAL	DIAGRAMS, QUANTITY AND S ARRANGEMENT BASED UPO EQUIPMENT. IF EQUIPMENT D THAN THE VALUE SHOWN	SIZE OF WIRE N SELECTED SUPPLIED BY	S AND CONDUITS REPR STANDARD COMPONEN THE MANUFACTURER I	ESENT A NTS OF HAS A	24.	THE CON INSTALLA SHALL FU NEW SER	TRACTOR S TIONS WITH IRNISH AND VICE CONN
E	ELECTRICAL HIGHER LOA MUST BE MA	EQUIPMENT MAY BE ENLARG DING. HOWEVER, THE BASIC INTAINED AS INDICATED ON	GED AS REQUENCE	JIRED TO ACCOMMODAT AND METHOD OF CONT GS AND/OR SPECIFICAT	TE THE ROL TONS.	25.	UNLESS N THAT ALL BE LOCAT	NOTED OTH OPERATOR FED ON THE NG DEVICES
12. A E E L	ALL MOTOR S SUFFICIENT ELECTRICAL STARTER CC LOADING RE	STARTER CONTROL POWER VOLT-AMPERE CAPACITY FO DEVICES ASSOCIATED WITH IL. THE CONTRACTOR SHALL QUIREMENTS FOR CONTROL	TRANSFORM R OPERATINO CONTROL O BE RESPON POWER TRA	ERS SHALL BE SIZED TO G ALL LOCAL AND REMO IF THE MOTOR IN ADDITI ISIBLE FOR VERIFYING A INSFORMERS.	O PROVIDE OTE ION TO THE ALL	26.	DUCT BAN REVIEW F	TROL PANEI NKS INDICA ⁻ PLAN SHEET S THAT MAY
13. T S	THE CONTRA STARTER OV	CTOR SHALL BE RESPONSIB ERLOADS FOR ALL EQUIPME	ELE FOR FURI	NISHING PROPERLY SIZ	ED		CONDUITS ENGINEEI IN USE, F	S AS INDICA R. PROVIDE OR EACH SE
14. N C	MOTOR CON CONCRETE H	TROL CENTERS AND ALL FRE IOUSEKEEPING PADS WITH L	E STANDING EVELING CH	FANELS SHALL BE SET	ON THE PAD.	27.	THE CON EXPOSED	TRACTOR S WATER LIN
15. S V T	N GENERAL, SEPARATE C WITHIN PULL THE DRAWIN	SEPARATE POWER, CONTRO ONDUIT, PULL AND JUNCTION OR JUNCTION BOXES WHER GS.	OL AND INST N BOXES. PR RE SEPARATI	RUMENTATION WIRING. OVIDE SUITABLE CABLE ON OF WIRING IS NOT S	PROVIDE BARRIER HOWN ON		PROVIDE	SUITABLE H D ON THE E
EQUIF	PMENT LINE	TYPES			GENER	AL NO	TES:	
	P N E	ROPOSED OR – EW EQUIPMENT – XISTING EQUIPMENT		EQUIPMENT PACKAGE GROUND RING OR UNDERGROUND	1. S M B	OME S AY AP E UTIL	YMBOLS C PEAR ON 1 IZED ON T)R ABBREVI THIS SHEET HE PROJEC
	<u>LIGHTING, F</u>	POWER & SYSTEM LEGEND						
		1x4 LED LIGHT FIXTURE	H H1	HANDHOLE, IDENTIF SHOWN, REFER TO I	IER HANDHOLE			HOME RUN DEDICATE
	D	LED LIGHT FIXTURE WITH EMERGENCY	∕ ⊥	SCHEDULE FOR SIZE	=		/ _ #	
		LIGHT (EL) BATTERY PACK, 1400 LUMENS MINIMUM FOR 2 LAMPS	$\overline{\ominus}$	20 AMP DUPLEX RECEPTACLE, MTD.	20" AFF			WIRE. NUM INDICATES
	» չ²	SWITCH, SINGLE POLE	\bigcirc	GROUND WIRE, "GFG				INDICATE NUMBER(S
	∀ \$ ³	SWITCH, DOUBLE POLE			ER, "WP"		$\overline{}$	NUMBERS
	\$ ⁴	SWITCH, FOUR WAY		INDICATES WEATHE WHILE-IN-USE ENCL	KPROOF OSURE		\bigvee	DATA AND DUAL OUT
	\$ ^D	SWITCH, DIMMER		AND COVER, BOX IN FLOOR OUTLET WIT	DICATES H		▶ D1	
	0R-`	NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED	_	RECESSED CAST JU BOX		_	<u> </u>	BANK SCH AND CONF
⊠⊣OR	₹-`~□□+ +	COMBINATION DISCONNECT AND MOTOR STARTER, SIZE AS NOTED, FUSED TYPE		EQUIPMENT CABINE SURFACE MOUNTED TO TOP OF ENCLOS	URE	1	(G) 00 kW	GENERATO AS SHOWI
[F [⊥] Of	R -∕~⊡⊢			ELECTRICAL PANEL EQUIPMENT CABINE	OR T,	(GROUND F

RECESSED MOUNTED,

5'-6" TO TOP OF ENCLOSURE

rit File:

SWITCH, SIZE AS NOTED

IERE ARE OVERHEAD BRIDGE CRANES, HOISTS, DOORS ITEMS. NO CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS PROPER OPERATION OF SUCH EQUIPMENT.

L FURNISH AND INSTALL ITEMS AS NECESSARY FOR COMPLETE STEMS INCLUDING THE CHEMICAL FEED SYSTEMS, EMS, AND PLANT INSTRUMENTATION SYSTEM/DISTRIBUTED THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND OF THE PLANS FOR ITEMS AS MAY BE REQUIRED AND SHALL WIRING AND TERMINATIONS FOR ALL ITEMS AS REQUIRED.

_ REFER TO OTHER PLAN SHEETS FOR LOCATIONS OF NDUIT PENETRATIONS IN THESE WALLS SHALL BE SUCH A MANNER AS TO NOT REDUCE THE RATING OF THE H THE USE OF BOXES, SEALANTS AND OTHER ACCESSORIES AS

REFER TO MECHANICAL PLAN SHEETS AND SPECIFICATIONS D TO THE MECHANICAL SYSTEMS. THE CONTRACTOR SHALL BE INSTALLING ALL ITEMS AS NECESSARY FOR COMPLETE AND ICAL HEREIN INCLUDING, BUT NOT LIMITED TO; CONTROL MERS, STARTERS, THERMOSTATS, CONTROL STATIONS, AND . ITEMS AS RELATED TO THE INSTALLATION OF THE MECHANICAL TRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MECHANICAL MOTORS UNLESS THE EQUIPMENT IS N INTEGRAL DISCONNECT FROM THE MANUFACTURER. IN TRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ND TERMINATIONS FOR ALL COMPONENTS AS MAY BE HE MECHANICAL SYSTEMS.

IN OUTDOOR AND ANTICIPATED WET AREAS SHALL BE GROUND ERRPUTER RECEPTACLES WITH WEATHERPROOF COVERS.

UTS SHALL BE IN STRICT ACCORDANCE WITH OWNER'S

LL HAVE A GROUNDING CONDUCTOR, SIZED PER NEC.

IRES INSTALLED IN INSULATED LOCATIONS SHALL BE RATED FOR REGARDLESS OF THE FIXTURE SCHEDULE DESIGNATION.

SHALL BE RESPONSIBLE FOR COORDINATION OF NEW SERVICE H OWNER, ENGINEER AND SERVICE UTILITY. THE CONTRACTOR INSTALL ALL ITEMS AS REQUIRED BY SERVICE UTILITY FOR IECTIONS.

HERWISE, ALL CONTROL PANELS SHALL BE FABRICATED SUCH RS AND INDICATING DEVICES INDICATED ON THE SCHEMATICS FRONT DOOR OR COVER OF THE PANEL. OPERATING AND S SHALL BE VISIBLE AND OPERABLE WITHOUT HAVING TO OPEN

ATED ARE FOR REFERENCE ONLY; THE CONTRACTOR SHALL TS RELATED TO INDIVIDUAL STRUCTURES AND VERIFY Y BE REQUIRED. THE CONTRACTOR SHALL VERIFY NUMBER OF ATED IN THE DUCT BANK PRIOR TO INSTALLATION WITH THE A SPARE CONDUIT, EQUAL IN SIZE TO THE LARGEST CONDUIT ET OF FOUR USED CONDUITS IN EACH DUCT BANK.

SHALL BE RESPONSIBLE FOR PROVIDING HEAT TRACING FOR ALL NES TO BE INSTALLED UNDER THIS PROJECT. THE REVIEW OTHER SECTIONS OF THE PLANS AND SPECS AND HEAT TRACING COMPONENTS AS MAY BE REQUIRED, WHETHER ELECTRICAL PLAN SHEETS OR NOT.

SOME SYMBOLS O MAY APPEAR ON T BE UTILIZED ON TH	R ABBREVIATIONS 2. THIS SHEET BUT NOT HE PROJECT.	LIGHTING LEGE IDENTIFIERS, R SCHEDULE FOF	ND SHOWS EXAMPLE EFER TO LIGHT FIXTURE R SPECIFIC REQUIREMENTS.
E #	HOME RUN TO PANEL IN DEDICATED CONDUIT, RECEPTACLES AND EQUIPMENT SHALL HAVE DEDICATED GREEN GROUND WIRE. NUMBER OF ARROWS INDICATES NUMBER OF PHASE CONDUCTORS, LETTER(S) INDICATE NAME OF PANEL.	* * 20A	TRANSFORMER, RATINGS AS SHOWN FUSE, CURRENT LIMITING, AMPERE RATING AS SHOWN OR REQUIRED, "BFI" INDICATES "BLOWN FUSE INDICATOR" TYPE
~	NUMBER(S) INDICATE CIRCUIT NUMBERS	(M) 20 HP	ELECTRIC MOTOR, HORSEPOWER AS SHOWN
\bigvee	DATA AND TELEPHONE DUAL OUTLET	1	MOTOR STARTER, SIZE AS
^{D1}	DUCT BANK, IDENTIFIER SHOWN, REFER TO DUCT	0	FVNR UNLESS NOTED
	BANK SCHEDULE FOR SIZE AND CONFIGURATION)20A/3P	CIRCUIT BREAKER, TRIP RATING SHOWN, 3-POLE
(G) 100 kW	GENERATOR, RATINGS AS SHOWN	o- (o	CAPACITOR, KVAR AS SHOWN
	GROUND ROD AND TEST WELL	\bigcirc	AIRTERMINAL
	3/4" x 10' COPPER CLAD	$\langle \times \rangle$	ELECTRICAL INSTRUMENT

 \bigotimes

GROUND ROD

ELECTRICAL INSTRUMENT

ABBREVIATIONS ABBREV				
<u>ABBREV</u>	DESCRIPTION	<u>ABBREV</u>		
		IVID I U, IV		
		MCR		
		MCC		
		MCB		
		MLO		
		MS		
AS	AFRIAL SECONDARY	MTD		
ATS	AUTOMATIC TRANSFER SWITCH	NO		
BFI	BLOWN FUSE INDICATOR	NCTO		
BI	BYPASS ISOLATION	NEC		
C	CONDUIT	NEO		
CB	CIRCUIT BREAKER			
CCTV	CLOSED CIRCUIT TELEVISION	NEUT		
CGRS	PVC COATED GALVANIZED RIGID STEEL	NFDS		
COM	COMMON	NL		
CP	CONTROL PANEL	NOTC		
CPT	CONTROL POWER TRANSFORMER	OHP		
CR	CONTROL RELAY	OHS		
CRI	COLOR RENDERING INDEX	OL		
CS	CORD SET	PB		
CU	COEFFICIENT OF UTILIZATION	PEC		
dB	DECIBEL	PF		
DDC	DIRECT DIGITAL CONTROL(S)	PFCC		
DEB	DIRECT EARTH BURIED	PH, Ø		
DISC	DISCONNECT	PL		
EC	EMPTY, EMEDDED CONDUIT	PMR		
EF	EXHAUST FAN	PTT		
EG	EQUIPMENT GROUND	RECPT		
EMT	ELECTRICAL METALLIC TUBING	RLA		
ENCL	ENCLOSURE	RVAT		
ETM	ELAPSED TIME METER			
FACP	FIRE ALARM CONTROL PANEL	RVSS		
FC	FAN COIL	S		
FDS	FUSED DISCONNECT SWITCH	SA		
FLA	FULL LOAD AMPERES	SDBC		
FOC	FIBER OPTIC CABLE	SE		
FS	FLOAT SWITCH	SN		
FVNR	FULL VOLTAGE NON-REVERSING STARTER	SSOL		
FVR	FULL VOLTAGE REVERSING STARTER	SIP		
GDT	GRAPHIC DISPLAY TERMINAL	SW		
GND	GROUND			
GRS	GALVANIZED RIGID STEEL			
HID	HIGH INTENSITY DISCHARGE			
HR	HOUR			
Hz	HERTZ			
IDS	INTRUSION DETECTION SYSTEM			
IG	ISOLATED GROUND	UG		
ISP	INDIVIDUALLY SHIELDED PAIR	UGE		
JB	JUNCTION BOX	UGP		
kvar	KILOVOLT-AMPERE, REACTIVE			
kWh	KILOWATT-HOUR			
LA	LIGHTNING ARRESTER			
LLF	LIGHT LOSS FACTOR			
LO	LUGS ONLY			
LOR	LOCAL-OFF-REMOTE	v IVI \\/山		
LRA	LOCKED ROTOR AMPERES	ννι ι \Λ/Ν <i>Λ</i>		
		V V I		

CONTROL	SCHEMATIC LEGEND		
	WIRING WITHIN PANEL WIRING TO FIELD DEVICE		TIME DELAY CONTACT, CLOSE ON ENERGIZATION
0 0	PUSHBUTTON SWITCH, NORMALLY OPEN		TIME DELAY CONTACT, OPEN ON ENERGIZATION
	PUSHBUTTON SWITCH, NORMALLY CLOSED	000	TIME DELAY CONTACT, OPEN ON DE-ENERGIZATION
$\frac{a}{\overline{\sigma}} = \frac{a}{\overline{\sigma}}$	SELECTOR SWITCH, NUMBER OF POSITIONS AND CONTACTS AS SHOWN		TIME DELAY CONTACT, CLOSE ON DE-ENERGIZATION
\rightarrow \mid \rightarrow	RELAY CONTACT, NORMALLY OPEN	oto	LEVEL SWITCH
0-1/-0	RELAY CONTACT, NORMALLY CLOSED	ETM	ELAPSED TIME METER
•	ELECTRICAL CONNECTION		TERMINAL BLOCK
00	SOLENOID		GROUND CONNECTION TO ENCLOSURE GROUND BAR

/IATIONS

DESCRIPTION

LOW VOLTAGE MBH 1000 BTU PER HOUR MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MAIN LUGS ONLY MAXIMUM OVER CURRENT PROTECTION MOTOR STARTER MOUNTED NORMALLY OPEN NORMALLY CLOSED TIMED OPEN NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NEUTRAL NON-FUSED DISCONNECT SWITHC NIGHT LIGHT NORMALLY OPEN TIMED CLOSED OVERHEAD PRIMARY OVERHEAD SECONDARY OVERLOAD PUSH BUTTON PHOTO ELECTRIC CELL POWER FACTOR POWER FACTOR CORRECTION CAPACITOR PHASE PILOT LIGHT PHASE MONITOR RELAY PUSH-TO-TEST RECEPTACLE RUNNING LOAD AMPERES REDUCED VOLTAGE AUTO-TRANSFERMER STARTER REDUCED VOLTAGE SOFT STARTER SECOND SURGE ARRESTER SOFT DRAWN BARE COPPER SERVICE ENTERANCE SOLID NEUTRAL SOLID STATE OVERLOAD RELAY SHIELDED TWISTED PAIR SWITCH TIME CLOCK TIME DELAY TIME DELAY ON DE-ENERGIZATION TIME DELAY ON ENERGIZATION TELEPHONE TOTAL HARMONIC DISTORTION UNDERGROUND UNDERGROUND ELECTRIC UNDERGROUND PRIMARY UNDERGROUND SECONDARY UNIT HEATER UNDERWRITERS LABORATORIES. INC. UNSHIELDED TWISTED PAIR VARIABLE FREQUENCY DRIVE VOLT-METER WEATHER HEAD WATT METER WEATHERPROOF

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PRESSURE SWITCH

NORMALLY OPEN

HELD OPEN

RELAY COIL.

PILOT LIGHT;

HELD CLOSED

LIMIT SWITCH CONTACT,

LIMIT SWITCH CONTACT,

LIMIT SWITCH CONTACT,

LIMIT SWITCH CONTACT,

"R" INDICATES "RED LENS"

NORMALLY CLOSED





File:



File:



	POTHOLING POINTS						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION			
3000	32449.93	91050.23	4569.20	UGT			
3001	32387.27	91031.84	4566.92	UGT			
3002	32363.75	91017.50	4572.69	UGT			
3003	32337.11	90997.04	4584.11	UGT			
3004	32218.43	90986.53	4565.14	UGT			
3005	32174.76	91437.28	4567.52	SSMH			
3006	32558.49	91140.31	4601.95	UGT			



	v]	
			CENTERLINE			111 Xan
FOINT #	NORTHING	EASTING	ELEVATION		-	155 4
P01-01	32425.16	90941.17	4570.00	GOOSENECK VENT	_	1 San Mari
P01-02	32424.14	90941.77	4561.52	12" 90° BEND	-	225 17
P01-03	32402.28	91023.37	4561.94	12" 22.5° BEND	-	
P01-04	32353.20	91007.33	4562.14	12 22.5° BEND	-	u g
P01-06	32019.61	91220.51	4567.00	12" 22.5° BEND	-	F /
P02-01	32020.36	91229.18	4565.54	4" 45° BEND		INSET A - SEE THIS SH
P02-02	32124.58	91218.56	4563.10	4" 22.5° BEND	-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
P02-03	32226.70	91163.52	4563.10	4" 45° BEND	-	
P02-05	32363.14	91081.97	4563.20	4" 22.5° BEND	-	Sec. 1
P02-06	32403.60	91032.33	4563.00	4" 22.5° BEND		
		NOTEO				R
A	PIPING KEY	NOTES				
(#)	PIPING LAY	OUT COC	RDINATES			8
KEY NO	TES:					
A. INS	TALL WATE	R METER	PER DETAIL			
B. BID	ALTERNAT					
AIR		CTLY, PR	OVIDING POS	SITIVE SLOPE AND	MIN. 3' OF COVER, IN	
LIEU SHA	J OF CONS ALL COAT E	TRUCTIO	N OF A NEW MH IN ACCOF	DOGHOUSE MANI RDANCE TO SECT	HOLE. CONTRACTOR ION 09 96 40.	
C BUF	RIED ASPHA		MENT APPRO)XIMATELY 4" THI	CK IS ANTICIPATED	
APF	PROXIMATE	ELY 36" BE	LOW GRADE	IN THE AREA SH	OWN.	. 6"
NOTES:						
1. EXI INF	STING PIPIN ORMATION	NG IS SHO PROVIDE	OWN BASED (D TO THE EN	ON AVAILABLE RE IGINEER. CONTRA	CORD DRAWINGS AND	
VEF		TIONS AND	D DEPTHS OF	FALL PERTINENT	LINES PRIOR TO	R
						8" M
2. PIP SHA	ING ELEVA ALL VERIFY	ELEVATIONS	E FOR CONT ONS IN FIELD	RACTORS BENEF).	II. CONTRACTOR	
3. PRI	OR TO INST	FALLATIO	N OF NEW PI	PING, CONTRACT	OR SHALL VERIFY	
HO	RIZONTAL A	AND VERT	ICAL LOCATI	ON OF ALL PIPINO	G OR UTILITIES (SHOWN	
IF N	IECESSARY	, VERTIC	AL AND HORI		ENT OF NEW PIPING	
BEC	GINNING CC	OSTED IN DNSTRUC	TION.			Er Marine
4. ALL	. PIPES SHA	ALL BE LA	ID AT A CON	STANT SLOPE BE	TWEEN THE	
ELE GIV	VATIONS G	BIVEN ON BE INSTAI	THESE PLAN	IS. PIPELINES WI	TH NO ELEVATIONS	X
ТО	AVOID CON	IFLICTS W	ITH EXISTIN	G AND PROPOSE	ED PIPING.	
5. ALL	. BURIED V	ALVES SH	ALL HAVE VA	ALVE BOX AS SPE	CIFIED.	
6. COI	NTRACTOR	SHALL IN	ISTALL MJ SC	DLID SLEEVE AS N	IECESSARY TO MAKE	A Star
COI	NNECTIONS	S TO EXIS	TING LINES.			
7. COI		SHALL PI	ROTECT, OR		ANY IRRIGATION	18 - 2
WO	RK. CONTR		ES AND SPRI	NKLERS ARE SHO	OWN WHERE THEY	
CO	KE SURVEN NTRACTOR	SHALL FI	ELD LOCATE	T INCLUDE ALL F		
8. PIP	ELINES TO	BE BORE	D IN PLACE A	CROSS RIVER SI	DE PARKWAY MAY BE	
PLA A PE		G SAME A	LIGNMENT A	ND IN SAME CASI	ING PIPE WITH	
ENC	GINEER.				3	2 DE
9. THF	<u>(1)</u> RUSSICA_01FI	TTINGS SH	HALL BE RES	ISTED BY RESTRA	99-C503 AINED JOINTS AS	
SPE	CIFIED AN	D AS REQ	UIRED TO RE	ESIST THRUST. SE	ĒĒ	CTEN ST
10. SEE	= 2 F	OR PIPE	FRENCH, BEE	DDING, AND BACK	FILL DETAIL.	A CONTRACTOR OF THE OWNER
11. SEE	E 99-M502 F	OR CLEAI	NOUT DETAIL			CFIC CFIC
12. SEE	= ^{99-C502} F	OR YARD	HYDRANT D	ETAIL.		
13. SEE	<u>3</u> 99-M502 F	OR JACK	AND BORE D	ETAIL.		USS D F LOS
						Tanking .
1 and	19 - 18 M	-11	1		TARE ON	
nu-	140	A.M.	MH: C3-261-0	13	+ Dim	n in this
1 and	2	4" HDPF F	RIM = 4568. E > W = 4561	53' 03' ~~s	A DE	
	A	la			6	
1. 120.1		A ACA			OF STATES	and the second se



9+50	10+00	10+50	11+ 00	
4555				
		F	15" SS FL=4561.10±	
4560		-12" 22.5° BEND	EXIST.	
		100.30FT OF 1	2" FA @ 4.57%	
4565				
4570		1 FL=	=4564.83±	
		ISTALL CONCRETE IPE ENCASEMENT	GAS	
4575				
	4" PD I 24" SS	N = 4565.33 (N) OUT = 4561.97 (SW)		
	24" SS	IN = 4561.97 (NE) IN = 4566.50 (NW)		
4580	STA. 10	0+03		
	24" SS (HI	DPE OUT) = 4561.91'		
4585	RIM = 457 24" SS (HI	2.47' DPE IN) = 4561.91'		
	EX. SSMF			
4590				
	I	Ι		

30-C301 30-C302 SCALE: 1" = 20'

	4595	
	1500	
	4590	
	1595	
	4365	
	4580	
	1000	
	4575	
	4570	
	4505	
	4565	
	1560	
	4000	
	4555	
	+000	
16+50		

A. MANHOLE NO. 1 SHALL BE CONSTRUCTED AS A DOGHOUSE STYLE POLYMER CONCRETE MANHOLE AND TIE-IN ELEVATIONS SHALL AVOID BACKING UP LINE DURING A SURCHARGING SEWER EVENT.

NOTES:

- 1. PIPING ELEVATIONS ARE FOR CONTRACTORS BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
- 2. ENSURE NO LOCALIZED HIGH POINTS ARE INSTALLED WITHIN THE FOUL AIR DUCT. HIGH POINTS SHALL BE AT MANHOLE NO. 1 AND LOW POINT SHALL BE AT FITTING NO. P01-02.
- 3. SEE SECTION 33 05 23.16 FOR UTILITY PIPE JACKING.

4590			
4585	EX. SSMH RIM = 4572.47' 24" SS (HDPE IN 24" SS (HDPE OU) = 4561.91' UT) = 4561.91'	
4580			
4575	MH-1 STA. 10+03 RIM = 4570.38 24" SS IN = 456	1.97 (NE)	
4570	4" PD IN = 4565 24" SS OUT = 4	5.33 (N) 561.97 (SW) EXIST. 10" GAS EL. UNK FL=4564.83±	
4565			
4560	←4" 45° BE		
4555		FL=4561.31±	
9+50	10+00	1 0+50 1 ²	i 1+00

	4590	
	1585	
	4303	
	4580	
	1575	
	4575	
	4570	
	4565	
	4303	
	4560	
	4555	
	4555	
16+50		

4" PD

30-C301 30-C303 SCALE: 1" = 20'

2

A. MANHOLE NO. 1 SHALL BE CONSTRUCTED AS A DOGHOUSE STYLE POLYMER CONCRETE MANHOLE AND TIE-IN ELEVATIONS SHALL AVOID BACKING UP LINE DURING A SURCHARGING SEWER EVENT.

NOTES:

- 1. PIPING ELEVATIONS ARE FOR CONTRACTORS BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
- 2. ENSURE NO LOCALIZED HIGH POINTS ARE INSTALLED WITHIN THE FORCE MAIN. HIGH POINTS SHALL BE AT MANHOLE NO. 1
- 3. SEE SECTION 33 05 23.53 FOR HORIZONTAL DIRECTION DRILLING.

Revit File:

1. SEE MECHANICAL SHEETS FOR PIPE LAYOUT AND DIMENSIONS.

NOTES:

2. PROVIDE LOCKS FOR ALL GATES, DOORS, AND ENCLOSURES AS REQUIRED BY THE OWNER. COORDINATE LOCK TYPE, KEYING, AND OTHER APPURTENANCES WITH THE OWNER. LOCKS SHALL BE COMPATIBLE WITH FLACON EB1 LOCK CYLINDERS.

GRAND JUNCTION ODOR CONTROL IMPROVEMENTS

DOS RIOS ODOR CONTROL SYSTEM SCHEMATIC

NOTES:

1. NOT ALL DAMPERS, FITTINGS AND APPURTENANCES ARE SHOWN. REFER TO OTHER DRAWINGS FOR ADDITIONAL APPURTENANCES.

CONDENSTE LIFT STATION

TION	1.	WATER PANEL LOCATION AND ASSOCIATED PIPING CONFIGURATIONS VARY BY MANUFACTURER; FIELD ROUTE PROCESS PIPING AND ELECTRICAL CONDUIT PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.	© 2021 THIS DOCUME IDEAS AND I HEREIN, SH
NOUT	2.	INSULATE, HEAT TRACE, AND ALUMINUM JACKET ALL EXPOSED WATER LINES, ALL EXPOSED DRAIN LINES THAT NORMALLY HAVE STANDING WATER, INCLUDING ALL PRESSURE LINES, 4-INCH IN DIAMETER AND SMALLER, AND NUTRIENT FEED LINES AND ACCESSORIES, INCLUDING ALL VALVES AND APPURTENANCES IN AFFECTED PIPES.	INSTRUMENT SERVICE AN GARVEF REPRODUCTI OF THIS DOO THE IDEAS AN HEREIN, IS F AUTHORIZ GARVER, I ALLOWED PROFESS AGREEMEN
	3.	POWER FOR HEAT TRACE SHALL BE SUPPLIED BY THE PANEL PROVIDED BY THE BTF MANUFACTURER SEE SPECIFICATION SECTION 23 05 34.	201
	4.	CONTRACTOR SHALL COORDINATE WITH FRP ENCLOSURE MANUFACTURE AND CONNECT ENCLOSURE TO INCOMING ELECTRICAL POWER AND DISTRIBUTION PANEL.	
DRAIN WITH	5.	WATER SERVICE TO BIOTRICKLING FILTER SHALL BE POTABLE CITY WATER. SEE SHEET 30-C301 FOR WATERLINE CONTINUATION.	SSSSSSSS ORA
99-M502	6.	REFER TO SPECIFICATIONS FOR COATING REQUIREMENTS.	
SHEET 30-C301			MORT:

DRAWING NUMBER

30-M131

SHEET **042**

GENERAL NOTES:

GENERAL NOTES:

1. WATER PANEL LOCATION AND ASSOCIATED PIPING CONFIGURATIONS VARY BY MANUFACTURER; FIELD ROUTE PROCESS PIPING AND ELECTRICAL CONDUIT PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.

2. INSULATE, HEAT TRACE, AND ALUMINUM JACKET ALL EXPOSED WATER LINES, ALL EXPOSED DRAIN LINES THAT NORMALLY HAVE STANDING WATER, INCLUDING ALL PRESSURE LINES, 4-INCH IN DIAMETER AND SMALLER, AND NUTRIENT FEED LINES AND ACCESSORIES, INCLUDING ALL VALVES AND APPURTENANCES IN AFFECTED PIPES.

3. POWER FOR HEAT TRACE SHALL BE SUPPLIED BY THE PANEL PROVIDED BY THE BTF MANUFACTURER.

4. REFER TO SPECIFICATIONS FOR COATING REQUIREMENTS.

- PAD PER STRUCTURAL SHEETS

TOC 4567.50

NOTES:

- 1. CONDENSATE LIFT STATION SHALL BE SUPPLIED AS A PACKAGE SYSTEM WITH ALL PIPING, VALVES, WIRING, CONTROLS, INSTRUMENTATION, AND ALL OTHER NECESSARY APPURTENANCES FOR A COMPELETE AND OPERATIONAL CONDESNATE AND BTF BLOWDOWN LIFT STATION.
- 2. INSULATE, HEAT TRACE, AND ALUMINUM JACKET ALL EXPOSED WATER LINES, ALL EXPOSED DRAIN LINES THAT NORMALLY HAVE STANDING WATER, INCLUDING ALL PRESSURE LINES, 4-INCH IN DIAMETER AND SMALLER, AND NUTRIENT FEED LINES AND ACCESSORIES, INCLUDING ALL VALVES AND APPURTENANCES IN AFFECTED PIPES.
- POWER FOR HEAT TRACE SHALL BE SUPPLIED BY THE PANEL 3. PROVIDED BY THE LIFT STATION MANUFACTURER SEE SPECIFICATION SECTION 23 05 34.
- 4. PROVIDE FREEZE PROTECTION FOR PUMP PER MANUFACTURER'S RECOMMENDATION.
- 5. REFER TO SPECIFICATIONS FOR COATING REQUIREMENTS.

30-M303

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

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in A A:

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LIFT STATION MANUFACTURER TO COORDINATE SUPPORT WITH

CARBON STEEL LIFTING

- 18" 4,000 CAST IN PLACE CONCRETE #10 BARS

316SS ANCHOR BOLT PER MANUFACTURER'S RECOMMENDATION

SEE SHEET 30-C303 FOR FL ELEV SEE SHEET 30- C301 FOR CONTINUATION

Last Sa ie i

1. UNLESS OTHERWISE NOTED ALL CONDUIT TO BE ROUTED EXPOSED. ALL EXTERIOR CONDUIT AND PORTIONS OF THE CONDUIT SYSTEM FOR THIS STRUCTURE SHALL BE SURFACE MOUNTED AND THE CONDUIT SYSTEM SHALL BE PVC COATED RIGID ALUMINUM. ALL CONDUIT INSIDE THE BUILDING SHALL BE RIGID ALUMINUM. ALL BOXES, SUPPORTS, HANGERS, UNISTRUT AND ALL OTHER PORTIONS OF THE CONDUIT SYSTEM SHALL BE ALUMINUM. ALL BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC WITH GALVANIZED ELBOWS IN CONCRETE DUCT BANK.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRING, TERMINATIONS, DISCONNECTS, CONTROL RELAYS, CONTROL ENCLOSURES AND OTHER ITEMS AS NECESSARY FOR COMPLETE AND FUNCTIONAL ODOR CONTROL FILTER SYSTEM. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND OTHER SECTIONS OF THE PLANS FOR ITEMS AS MAY BE REQUIRED.

CONTRACTOR SHALL COORDINATE CONDUIT, WIRE AND INTERCONNECTIONS AS REQUIRED BY EQUIPMENT SUPPLIER. NOT ALL CONNECTIONS SHOWN.

4. VERIFY LOCATION OF ALL EQUIPMENT PRIOR TO INSTALLATION.

5. BELOW GRADE CONDUIT ROUTING AS SHOWN IS DIAGRAMMATIC IN NATURE AND SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING NUMBER OF REQUIRED CONDUITS AND PLACEMENT OF THESE CONDUITS. THE CONTRACTOR SHALL DEVELOP AND SUBMIT A BELOW GRADE CONDUIT ROUTING PLAN FOR REVIEW PRIOR TO INSTALLATION.

6. ALL POWER CIRCUITRY SHALL BE A MINIMUM 2-#12, #12 GND.

ALL OUTDOOR RECEPTACLES TO BE GFCI WITH IN-USE WEATHERPROOF COVERS.

8. ALL AREAS WITHIN THE PUMP STATION, AND WITHIN 3 FEET OF PUMP STATION VENTS SHALL BE CONSIDERED A CLASS I, DIVISION 1 LOCATION; AREAS WITHIN 5 FEET OF PUMP STATION VENTS SHALL BE CONSIDERED A CLASS 1, DIVISION 2 LOCATION. ALL AREAS WITHIN 3 FEET OF LEAKAGE SOURCES, INCLUDING FANS, DAMPERS, CONNECTIONS, PIPING, DUCT WORK, AND ODOR CONTROL VESSELS, OF THE ODOR CONTROL SYSTEM SHALL BE CONSIDERED A CLASS 1, DIVISION 2

CONTRACTOR SHALL STRICTLY ADHERE TO THE REQUIREMENTS IN NFPA 70, ARTICLE 500, HAZARDOUS (CLASSIFIED) LOCATIONS FOR ALL AREAS REFERENCED IN THE NOTE ABOVE. THIS INCLUDES PROVIDING SEAL FITTINGS ON CONDUITS AND CABLES ALONG WITH PROVIDING EXPLOSION PROOF EQUIPMENT, RATED FOR THE CLASSIFICATION REFERENCED ABOVE, IF LOCATED WITHIN THE HAZARDOUS AREA

10. INSULATE, HEAT TRACE, AND ALUMINUM JACKET ALL EXPOSED WATER LINES, ALL EXPOSED DRAIN LINES THAT NORMALLY HAVE STANDING WATER, INCLUDING ALL PRESSURE LINES, 4-INCH IN DIAMETER AND SMALLER, AND NUTRIENT FEED LINES AND ACCESSORIES, INCLUDING ALL VALVES AND APPURTENANCES IN AFFECTED

11. POWER FOR HEAT TRACE SHALL BE SUPPLIED FROM LIGHT PANEL 30LP.

 $\langle 1 \rangle$ LITHONIA POLE MOUNTED LIGHT FIXTURE DSX0-LED-P6-4000K-T3M-MVOLT-SPA-PER-FAO-EGS AND PHOTOCELL DLL127F-1.5-JU OR EQUAL ON 20' POLE.

 $\langle 2 \rangle$ MAKE REQUIRED POWER CONNECTIONS FROM LIGHT PANEL 30LP TO SUPPLIED FRP ENCLOSURE 1500W HEATER (30LP-4).

 $\langle 3 \rangle$ MAKE REQUIRED POWER CONNECTIONS FROM LIGHT PANEL 30LP TO SUPPLIED FRP ENCLOSURE EXHAUST FAN (30LP-5).

 $\langle 4 \rangle$ MAKE REQUIRED POWER CONNECTIONS FROM LIGHT PANEL 30LP TO SUPPLIED FRP ENCLOSURE LIGHTING (30LP-6).

(5) (2-#14, #14 GND, 4-#14 SPARE) 3/4" CONDUIT. HIGH LEVEL FLOAT SIGNAL FROM PUMP CONTROL PANEL TO RTU PANEL.

 $\langle 6 \rangle$ SEE GENERAL NOTE 11 AND 12.

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GRAND JUNCTION ODOR CONTROL IMPROVEMEN

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NOTES:
 SLOPE, BENCHING, SHORING, ETC. AS DETERMINED AND DESIGNED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".
2. BEDDING REQ'D FOR ALL GRAVITY LINES, ALL PVC LINES AND ALL CONCRETE LINES. BEDDING REQUIRED IN ALL AREAS OF ROCK EXCAVATION OR UNSUITABLE SOILS. BELL HOLES REQ'D FOR PIPES > 4" DIA. FOR DUCTILE IRON PRESSURE MAINS, SELECT EARTH MAY BE USED FOR BEDDING IN AREAS OF ROCK EXCAVATION.
3. ALL MATERIALS SHALL BE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY AT 2 OPTIMUM MOISTURE CONTENT. MATERIALS UNDER PAVING, CONCRETE, STRUCTURES, ETC. SHALL BE COMPACTED TO TO MIN 98%-100% MODIFIED PROCTOR. MECHANICAL COMPACTION SHALL BE BY VIBRATORY SHEEPSFOOT OR OTHER EQUIP. SPECIFICALLY DESIGNED FOR THE COMPACTION OF EARTH. COMPACTION EQUIP. SHALL BE ON-SITE PRIOR TO BEGINNING OF WORK. MECHANICAL COMPACTION SHALL BE COMPLETED IN LOOSE LIFTS AS SHOWN ON THE DETAIL.
4. TEMPORARY COMPACTED PUG-MIX BACKFILL REQ'D UNTIL PAVEMENT PLACEMENT IS COMPLETE. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THIS PUGMIX TO KEEP IT FLUSH WITH THE ADJACENT PAVING, ETC. UNTIL THE FINAL PAVING IS PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ASPHALT OR CONCRETE PATCHES WHEN NEEDED FOR PUBLIC SAFETY AND/OR CONVENIENCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND UTILIZE APPROPRIATE MEANS AND METHODS OF CONSTRUCTION TO ENSURE THAT THE ENTIRE AREAS UNDER THE HAUNCHES OF THE PIPE ARE FILLED WITH THE REQUIRED MATERIALS AND COMPACTED APPROPRIATELY.
 ADDITIONAL AND/OR SPECIAL REQUIREMENTS MAY BE REQ'D BY THE PLANS, SPECIFICATIONS AND/OR CONTRACT DOCUMENTS.
7. TO THE EXTENT POSSIBLE, AS DETERMINED BY THE CONTRACTOR, TRENCH WALL SHORING METHODS SHALL BE USED IN PAVED AREAS TO MINIMIZE PAVING REPAIR REQUIREMENTS.

	MATERIAL DESIGNATION/DESCRIPTOINS TABLE	
DESIGNATION MATERIALS	/ DESCRIPTION	
1	CRUSHED STONE, ASTM-D448 NO. 57 GRADATION	
2	CRUSHED STONE, ASTM-D448 NO. 67 GRADATION.	
3	SELECT EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 1" DIA.	
4	EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 12" DIA.	
5	SELECT TOPSOIL MAT'L TO SUPPORT VEGETATION, NO STONES OR ROCK ALLOWED	
6	PAVEMENT MATCHING EXISTING PAVEMENT OR AS SPECIFIED ON THE PLANS	8' MAX. (HEAVY DU
7	CDOT CLASS 4 AGGREGATE BASE COARSE	10' MAX (STANDAR BURY BOTTOM OF FILTER – FABRIC IN 4" X 4" TRENCH. BACKFILL TRENCH W/ SOIL AND COMPACT

GRA	VITY LINE	ES	PAVI	ED AREA	S
1	CONC	HDPE, PVC & FRP	DI	CONC	HDPE, PVC & FRP
i	5	5	6**	6**	6**
	4	4	7	7	7
	3	*** 1/2	1	3	*** 1/2
	3	*** 1/2	2	3	*** 1/2
	1	2	2	1	2

2, 3, 8 4	55.5	19.2	9.0	7.5	.50	- 50
6	105.8	57.2	29.2	14.7	.75"	30"
8	181.9	98.5	50.2	25.2	.75"	30"
12	387.1	209.5	106.8	53.7	1.0"	30"
16	672.6	364.0	185.6	93.2	1.0"	36"
18	844.7	457.2	233.1	117.1	1.0"	36"
24	1478.7	800.3	408.0	205.0	1.5"	36"
	* 90 DE	GREE B	ENDS SH	ALL ONLY	BE USE	ED ON A
	BY-EX	KCEPTIO	N BASIS,	AND MUS	ST EACH	I BE
	CDEC					

BE SUPPLIED WITH KOR-N-SEAL FLEXIBLE BOOTS OR APPROVED EQUAL. LINES > 24" SHALL HAVE A-LOK (OR EQ) FLEX BOOTS CAST INTO MH WALLS, GROUT CONN (2" MIN CL OPNG) ONLY WHEN CALLED FOR IN PLANS

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	DIAMETER	DEVELOPMENT LENGTH (Id) (INCHES)		CLASS A LAP SPLICE (INCHES)		CLASS B LAP SPLICE (INCHES)		90° STD HOOK "X" (INCHES)		180° ST HOOK " (INCHE
SIZE (INCHES)	(db) (INCHES)	"TOP" BARS	OTHER	"TOP" BARS	OTHER	"TOP" BARS	OTHER	ноок	l _{dh}	
			REIN	FORCING	BARS IN	TENSION				
#3	0.375	12	9	12	9	15	12	6	7	6
#4	0.5	15	12	15	12	20	15	8	10	6
#5	0.625	19	15	19	15	24	19	10	12	6
#6	0.75	23	17	23	17	30	23	12	14	6
#7	0.875	33	25	33	25	42	33	14	17	7
#8	1.0	37	29	37	29	48	37	16	19	8
#9	1.128	46	36	46	36	60	46	20	22	11
#10	1.27	57	44	57	44	74	57	22	24	12
#11	1.41	68	53	68	53	90	68	24	27	13
			REINFOR	CING BAF	RS IN COM	PRESSIC)N			
#3	0.375	8	3		1	2				
#4	0.5	1	0		1	5				
#5	0.625	1	2		1	9				
#6	0.75	1	4		2	3		-		
#7	0.875	17 19			2	26 30				
#8	1.0				3				MPRE	ESSION
#9	1.125	2	2	34						
#10	1.25	2	4		3	8				
#11	1.375	2	7		4	2		1		

CTR TO CTR SPACING OF SPLICED BARS NOT TO EXCEED 1/5 MIN LAP LENGTH OR 6 IN WHICHEVER IS LESS

EARTH SIDE

NOTES:

1

99-S501

- "TOP" BARS SHALL BE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF 1. FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
- 2. CLEAR SPACING OR BARS BEING DEVELOPED OR SPLICED SHALL:
 - NOT BE LESS THAN I_d , HAVE CLEAR COVER NOT LESS THAN d_b , AND STIRRUPS OR TIES THROUGHOUT I_d NOT LESS THAN THE CODE MINIMUM OR; Α.
 - B. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN d_b WHERE d_b = DIAMETER OF REINFORCING BAR AND I_d = DEVELOPMENT LENGTH.
- 3. ALL LAP SPLICES SHALL BE CLASS B UNO.

STANDARD HOOK AND REINFORCING LAP SPLICE

SCALE: NOT TO SCALE

2

99-S501

1. SEE PLANS FOR PROPER REBAR ORIENTATION.

5 2

- LIQUID/AIR

BELOW GRADE WALLS

NOTES:

SIDE

FLAT RIBBED PVC WATERSTOP TO BE USED IN NEW CONSTRUCTION OF NEW CONCRETE TO NEW CONCRETE.

WATERSTOPS SHALL BE GREENSTREAK OR APPROVED EQUAL

FLAT RIBBED WATERSTOP DETAIL

TYPICAL FOUNDATION CONSTRUCTION JOINT SCALE: NOT TO SCALE

2 99-S502

SCALE: NOT TO SCALE

4

99-S502

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NOTES:

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SCALE: NONE

NOTES:

BASE PLAN

5 LINK SEAL WALL PENETRATION

- FOR NEW CONSTRUCTION, SLEEVES SHALL BE CAST INTO WALL. BLOCKOUTS AND 2. SUBSEQUENT GROUTED IN SLEEVES WILL NOT BE PERMITTED UNLESS A KEYED WATERSTOP JOINT IS PROVIDED.
- 3. 6" DIAMETER SLEEVES AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPE.
- SLEEVES LARGER THAN 6" DIAMETER SHALL BE 1/4" THICK STEEL PIPE. 4.
- 5. IN WALLS THICKER THAN 12", LINK SEAL SHALL BE INSTALLED AT BOTH ENDS OF THE WALL SLEEVE. SLEEVE DIAMETER SHALL BE PER LINK SEAL MANUFACTURER'S RECOMMENDATION.
- 6. SLEEVE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

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2. 3.

ADJUSTABLE FLOOR MOUNTED PIPE SUPPORT

SCALE: NOT TO SCALE

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					E					
	А	В	С	D	MIN	MAX				
	2-1/2"	3-1/2"	6"	1-1/2"	8"	13"				
	2-1/2"	3-3/4"	8"	1-1/2"	8-1/4"	13-1/4"				
ľ	2-1/2"	4"	8"	1-1/2"	8-1/2"	13-1/2"				
	3"	4-1/4"	8"	2-1/2"	9-1/4"	14"				
	3"	4-7/8"	8"	2-1/2"	10"	14-3/4"				
	3"	5-1/2"	10"	2-1/2"	10-1/2"	15-1/4"				
	3"	6-7/8"	10"	2-1/2"	11-3/4"	15-1/2"				
	3"	8-1/2"	14"	2-1/2"	13-1/2"	18-1/4"				
	3"	9-15/16"	18"	2-1/2"	15"	19-3/4"				
	4"	10-15/16"	18"	3"	16-1/4"	20-3/4"				
	4"	12-3/8"	20"	3"	17-3/4"	22-1/4"				
	6"	13-7/8"	22"	3-1/2"	19-1/2"	24"				
	6"	15-3/8"	22"	3-1/2"	21"	25-1/2"				
	6"	17-15/16"	24"	4"	23-3/4"	28-1/4"				
	6"	21-5/16"	30"	4"	27"	31-1/2"				
	6"	22-1/2"	30"	4"	28-1/4"	32-3/4"				
	6"	24-1/2"	30"	4"	30-1/4"	34-3/4"				

1. PROVIDE HALF ROUND RIGID INSULATION AND INSULATION PROTECTION SHIELD WHERE PIPING IS INSULATED.

PROVIDE NEOPRENE WAFFLE INSULATION PAD, SIMILAR TO MASON TYPE "W" OR KORFUND 40, UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.

FOR BASE, HEIGHT AND FLANGE DIMENSIONS, SEE TABLE.

4. USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2" DIAMETER.

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1. CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES STAKING PLAN SHALL BE APPROVED BY OWNER AND ENGINEER PRIOR

2. CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.

3. SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE ELECTRICAL PLAN SHEETS FOR QUANTITY AND SIZES

4. INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING. UTILIZE LOCKING COLLARS OR HOLD DOWN BARS WITH ANCHORS TO PREVENT DUCT FLOTATION. (TYPICAL ALL DUCTS).

OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT

6. NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT, PVC SHALL CONVERT TO GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE UNLESS NOTED OTHERWISE.

7. SPARE GALVANIZED RIGID STEEL CONDUITS SHALL STUB UP 6" ABOVE FINISHED GRADE OR CONCRETE PAD SURFACE AND BE CAPPED

8. INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT AND CONNECT

9. INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWINGS. INSTALL PULL ROPE IN ALL SPARE DUCTS.

10. MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".

11. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".

12. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS SHALL BE 36".

13. VERTICAL AND HORIZONTAL DISTANCES BETWEEN CONDUITS SHALL BE 3" MINIMUM FOR DUCTS CONTAINING CIRCUITS OVER 600 VOLTS.

14. DUCT BANKS TO EXTEND BELOW FLOOR SLABS.

NOTES:

- 1. POWER MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH RED BACKGROUND AND BLACK LETTERING
- 2. COMMUNICATION MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH ORANGE BACKGROUND AND BLACK LETTERING, "TELEPHONE LINE" OR "FIBER OPTIC LINE" RESPECTIVELY.
- 3. TAPE SHALL BE DETECTABLE, DURABLE, HIGHLY VISIBLE, RESISTANT TO ELEMENTS. MEETING AND/OR EXCEEDING ALL INDUSTRY STANDARDS.

3	TYPICA
99-E503	SCALE: N

UNDERGROUND DETECTABLE WARNING TAPE DETAIL SCALE: NOT TO SCALE

	BILL OF MATERIA	ALS			BILL OF MA	ERIALS	
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
	30"H X 30"W X 10"D NEMA 4 ENCLOSURE SHOWN (SIZE AS REQUIRED)	HOFFMAN	A48H30CLP		POWER SUPPLY 24V	SOLA	AS REQUIRED
(2)	BACK PANEL FOR ENCLOSURE	HOFFMAN	A48P30		GROUND BAR KIT	SIEMENS	GB10
	SELECTOR SWITCH , 2 POS., MAINTAINED, METAL,				LEGEND PLATES	-	-
3	30MM, JUMBO LEGEND	ALLEN BRADLEY	8001 SERIES	(15)	TIMING RELAY	ALLEN BRADLEY	700-FS
4	MOUNTING RAIL, DIN 35MM X 7.5MM	PHOENIX	NS35/7,5 PERFORATED	16	SURGE PROTECTOR	PHOENIX CONTACT	2856812
(5)	TERMINAL BLOCK END ANCHOR	PHOENIX CONTACT	E/UK		ANTENNA	SAMSARA	AS REQUIRED
(6)	TERMINAL BLOCK, GROUNDING, GN/YL	PHOENIX CONTACT	0441504	18	UPS-1500VA MIN	SEE SPECS	SEE SPECS
$\overline{(7)}$	CONTROL RELAY, 120 VAC COIL, 6-POLE, N.O./N.C.		700 CE		CIRCUIT BREAKER	ALLEN BRADLEY	AS REQ'D
\bigcirc	CONTACTS AS REQUIRED		700-01	(20)	PLUG-IN BRIDGE	PHOENIX CONTACT	FBS 5-6
(8)	TERMINAL BLOCK, UNIVERSAL, GRAY, UT4	PHOENIX CONTACT	3044102	(21)	CONVENIENCE OUTLET (SPEC GRADE)	HUBBELL	120V 20A
(9)	END COVER UT4	PHOENIX CONTACT	3047028		SAMSARA IG41 W/ACC-IG-CDIO	SAMSARA	
(10)	WIRING DUCT, 1.5" X 2"	PANDUIT	F1.5X2LG6				
(11)	WIRING DUCT COVER, 1.5"	PANDUIT	C1.5LG6]			

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BILL OF MATERIAL NOTES:

- 1. THE FINISHED PANEL ASSEMBLY SHALL MEET UL-508 REQUIREMENTS.
- 2. GENERAL PANEL LAYOUT SHOWN. CONTRACTOR TO FURNISH AND INSTALL TERMINALS AND NECESSARY PARTS NOT LISTED AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 3. THE BILL OF MATERIALS INCLUDES MANUFACTURER AND MODEL NUMBERS FOR INDICATION OF STANDARD QUALITIES OF EQUIPMENT ONLY. CONTRACTOR SHALL SUBMIT CUT SHEETS OF EQUIPMENT FOR ENGINEERS REVIEW PRIOR TO PURCHASE.
- 4. THE PANEL LAYOUT SHOWN PROVIDES THE CONTRACTOR WITH A GENERAL GUIDELINE WHEN BUILDING THE CONTROL PANELS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ENCLOSURE SIZE AND LAYOUT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 5. PROVIDE FUSED 120V POWER DISTRIBUTION BLOCK
- 6. PROVIDE FUSED 24VDC+ AND 24VDC- POWER DISTRIBUTION BLOCK.
- 7. MAKE ALL FINAL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

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KEYED NOTES: $\langle 1 \rangle$ COORDINATE WITH UPS MANUFACTURER REQUIREMENTS TO PROVIDE REQUIRED LINE AND LOAD POWER CONNECTIONS.

1. MAKE ALL FINAL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

2. NOT ALL DEVICES ARE SHOWN AND INCLUDED. PROVIDE ALL ITEMS AS REQUIRED FOR A

COMPLETE INSTALLATION. SEE STRUCTURE ELECTRICAL SHEETS AND SPECIFICATIONS.

GENERAL NOTES:

