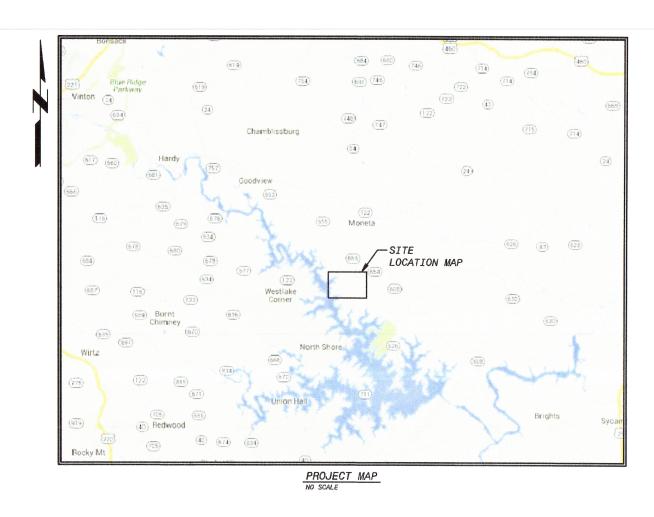
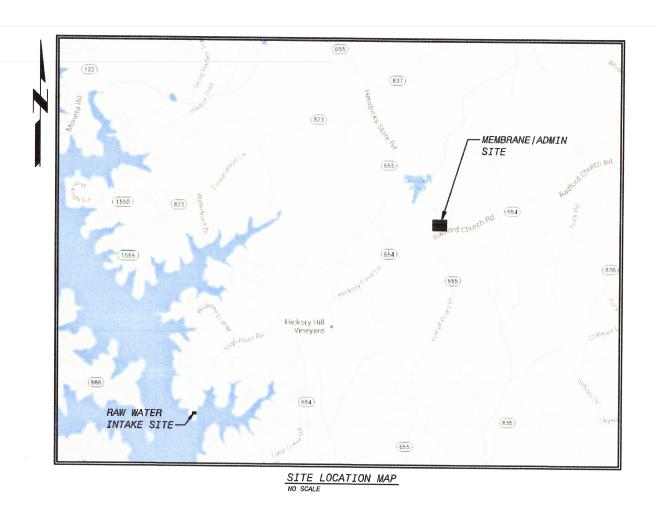
BEDFORD REGIONAL WATER AUTHORITY BEDFORD, VA

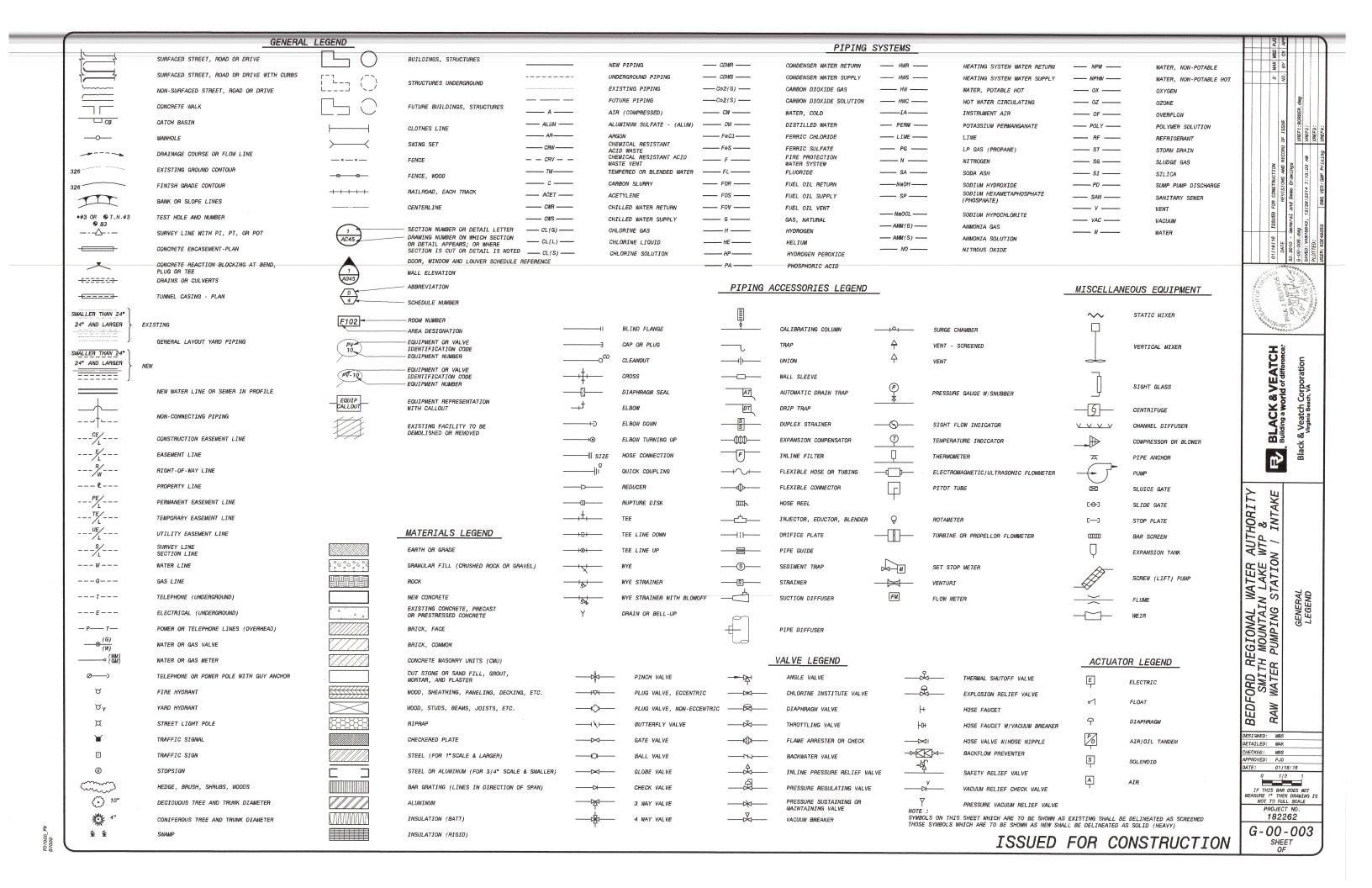
SMITH MOUNTAIN LAKE WTP & RAW WATER PUMPING STATION / INTAKE





PROJECT NO. 182262 ISSUED FOR CONSTRUCTION JANUARY 2016

GENERAL		HVAC		P./B
G-00-001 G-00-002	COVER SHEET AND LOCATION MAPS SHEET LIST	H-00-001	LEGEND, ABBREVIATIONS AND SYMBOLS	X 7 20 88 X
G-00-002 G-00-003 G-00-004	SHEEF LIST LEGEND GENERAL NOTES	H-20-101 H-30-101 H-30-102	ELECTRICAL BUILDING - OPERATING FLOOR PLAN MEMBRANE/ADMIN BUILDING - FIRST FLOOR DUCTWORK PLAN CODED NOTES	0 WA
G-00-005 G-00-006	ABBREVIATIONS CODE INFORMATION	H-30-501 H-30-502	MENBRANE/ADMIN BUILDING - DETAILS MENBRANE/ADMIN BUILDING - DETAILS	
G-00-008 G-00-010	HYDRAULIC PROFILE - MAIN PROCESS PROCESS FLOW DIAGRAM	H-30-503 H-30-601	MEMBRANE ADMIN BUILDING - DIAGRAMS MEMBRANE ADMIN BUILDING - SCHEDULES	. dwg
DEMOLITICAL		H-30-602	MEMBRANE/ADMIN BUILDING - SCHEDULES	IE 30RDEF
DEMOLITION D-20-001	RAW WATER PUMP STATION ELECTRICAL BUILDING - DEMOLITION SITE PLAN AND DETAILS	<u>PLUMBING</u>		OF ISSU XREF1:! XREF3:
CTVII		P-00-001 P-30-101	LEGEND, DETAILS AND SCHEDULES ADMIN BUILDING - OPERATING FLOOR DRAINAGE AND VENT PIPING PLAN	040 OHO
<u>CIVIL</u> c-20-100	PLAT MAP AND ADJACENT PROPERTY	P-30-102 P-30-103	MEMBRANE BUILDING - OPERATING FLOOR DRAINAGE AND VENT PIPING PLAN MEMBRANE/ADMIN BUILDING - OPERATING FLOOR POTABLE PIPING PLAN	NN D RECO
C-20-101 C-20-102	INTAKE STRUCTURE - SITE PLAN INTAKE STRUCTURE - EROSION AND SEDIMENTATION CONTROL AND GRADING PLAN	P-30-104	MEMBRANE BUILDING - TRENCH FLOOR DRAINAGE PLAN	NS ANI rawing 56:57
C-20-103 C-20-104 C-20-105	INTAKE STRUCTURE - LANDSCAPING PLAN SPECIAL USE AND VARIANCE CONDITIONS INTAKE STRUCTURE - PIPING PLAN	INSTRUMENTA		VISIO Bemo D
C-20-301 C-20-501	INTAKE STRUCTURE - PIFING PENG INTAKE STRUCTURE - PROFILE - 2 SUBMERSIBLE TURBINE PUMPS EROSION AND SEDIMENT CONTROL MARRATIVE AND DETAILS - SHEET 1 OF 2	I-00-001 I-00-002	P&ID - LEGEND AND ABBREVIATIONS - SHEET 1 OF 3 P&ID - LEGEND AND ABBREVIATIONS - SHEET 2 OF 3	1 and B
C-20-502 C-20-503	EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS - SHEET 2 OF 2 EROSION AND SEDIMENT CONTROL PLAN - EXISTING SITE	I-00-003 I-00-004 I-00-005	PAID - LEGEND AND ABBREVIATIONS - SHEET 3 OF 3 PAID - CONTROL BLOCK DIAGRAM PAID - RAN WATER DESCRIPTION - SHEET 3 OF 3	ssued eral
C-20-504 C-30-100	STORMMATER MANAGEMENT PLAN - PROPOSED SITE WTP PLAT MAP AND ADJACENT PROPERTY	I-00-005 I-00-006 I-00-007	PAID - RAW WATER STORAGE TANK PAID - SODIUM HYPOCHLORITE SYSTEM STORAGE TANKS PAID - SODIUM HYPOCHLORITE SYSTEM PRE-CLEARWELL FEED	. Gen 2. dwg 0E4935
C-30-101 C-30-102	MEMBRANE/ADMIN BUILDING - OVERALL SITE PLAN MEMBRANE/ADMIN BUILDING - SITE STAKING PLAN	I-00-008 I-00-009	PAID - SUDJUM HYPOCHLORITE SYSTEM POST-CLEARWELL FEED PAID - FINISHED WATER CLEARWELL FEED PAID - FINISHED WATER CLEARWELL	118/11 DATE 3010 0-002 ED: KD
C-30-103 C-30-104	MEMBRANE/ADMIN BUILDING - GRADING PLAN MEMBRANE/ADMIN BUILDING - YARD PIPING AND UTILITY PLAN	I-00-010 I-00-011	PAID - HIGH SERVICE PUMP STATION PAID - GAC CONTACTOR	6-00 SAW PLD
C-30-105 C-30-106	MEMBRANE/ADMIN BUILDING - LANDSCAPING AND PARKING PLAN SPECIAL USE CONDITIONS	I-00-012 I-00-013	PAID - FIRST STAGE MEMBRANE BACKWASH TREATMENT SYSTEM INSTRUMENT INSTALLATION DETAILS - SHEET 1 OF 3	
C-30-301 C-30-302	MEMBRANE/ADMIN BUILDING - VPDES OUTFALL - PLAN AND PROFILE MEMBRANE/ADMIN BUILDING - YARD PIPING PROFILES	I-00-014 I-00-015	INSTRUMENT INSTALLATION DETAILS - SHEET 2 OF 3 INSTRUMENT INSTALLATION DETAILS - SHEET 3 OF 3	
C-30-501 C-30-502 C-30-503	EROSION AND SEDIMENT CONTROL NARRATIVE DETAILS - SHEET 1 OF 2 EROSION AND SEDIMENT CONTROL NARRATIVE DETAILS - SHEET 2 OF 2 HEMBORE BILLION SEDIMENT CONTROL NARRATIVE DETAILS - SHEET 2 OF 2	I-01-004 I-01-005	P&ID - RAW WATER PUMP STATION - CONTROL BLOCK DIAGRAM P&ID - RAW WATER PUMP STATION - PUMP STATION	
C-30-503 C-30-504 C-30-505	MEMBRANE BUILDING - SEDIMENT AND CONTROL PLAN - EXISTING SITE MEMBRANE BUILDING - STORMWATER MANAGEMENT PLAN - PROPOSED SITE STORMMATER RETENTION POND - DETAILS	I-01-006 501320-AP-01	P&ID - RAW WATER PUMP STATION - INSTALLATION DETAILS PIPING AND INSTRUMENT DIAGRAM - FIRST STAGE FEED FLEX RACK 96-112, 480/3/60	
C-30-506 C-30-507	LANDSCAPING DETAILS DETAILS	501320-AP-01 501320-AP-02	PIPING AND INSTRUMENT DIAGRAM - PRE-TREATMENT PIPING AND INSTRUMENT DIAGRAM - BLOWERS	**************************************
C-30-508 C-30-509	DETAILS DETAILS	501320-AP-03 501320-AP-04 501320-AP-07	PIPING AND INSTRUMENT DIAGRAM - VALVE RACK, FLEX RACK PIPING AND INSTRUMENT DIAGRAM - MEMBRANE, 48M-128M, FLEX RACK	± %
C-30-510 C-30-511	DETAILS DETAILS	501320-AP-07 501320-AP-07 501320-AP-10	PIPING AND INSTRUMENT DIAGRAM - ANCILLARY BACK PULSE FLEX RACK 96-112, 480/3/60 PIPING AND INSTRUMENT DIAGRAM - TANK, BACK PULSE, Z-PAK/FLEX RACK PIPING AND INSTRUMENT DIAGRAM - ANCILLARY CIP	2
C-30-512 C-30-513	DETAILS DETAILS	501320-AP-10 501320-AP-10	PIPING AND INSTRUMENT DIAGRAM - TANK, CIP, Z-PAK/FLEX RACK PIPING AND INSTRUMENT DIAGRAM - CIP ANALYZER PANEL	& VEATCH orld or difference: Corporation
27711271174		501320-AP-11 501320-AP-11	PIPING AND INSTRUMENT DIAGRAM - SODIUM HYPOCHLROITE PIPING AND INSTRUMENT DIAGRAM - CITRIC ACID	oridof Corpo
STRUCTURAL S-20-101	RAW WATER INTAKE PUMP STATION VAULT - PLAN, SECTIONS AND DETAIL	501320-AP-11 501320-AP-11	PIPING AND INSTRUMENT DIAGRAM - HYDROCHLORIC ACID PIPING AND INSTRUMENT DIAGRAM - SODIUM HYDROXIDE	No. Co
S-20-102 S-20-103	ELECTRICAL BUILDING - FOUNDATION PLAN, SECTIONS AND DETAIL ELECTRICAL BUILDING - ROOF FRAMING PLANS	501320-AP-11 501320-AP-12	PIPING AND INSTRUMENT DIAGRAM - SODIUM BISULFITE PIPING AND INSTRUMENT DIAGRAM - COMPRESSED AIR SYSTEM —	ACK ding a we
2-20-301 S-20-501	ELECTRICAL BUILDING - SECTIONS DETAILS	501320-AP-21	PIPING AND INSTRUMENT DIAGRAM - PERMEATE STORAGE TANK	BL/Buildir
S-20-502 S-20-503	MASONRY DETAILS BALLAST BLOCK DETAIL	ELECTRICAL		0
S-20-504 S-30-001	H-PILE PIPE SUPPORT DETAIL GENERAL NOTES AND DESIGN CRITERIA	E-00-001 E-20-101	LEGEND AND ABBREVIATIONS INTAKE STRUCTURE - SITE PLAN	
S-30-102 S-30-301 S-30-501	MEMBRANE (ADMIN BUILDING - FOUNDATION)OPERATING FLOOR PLAN MEMBRANE(ADMIN BUILDING - FOUNDATION SECTIONS STANDARD DETAILS	E-20-401 E-20-402	RAW WATER PUMP STATION - ELECTRICAL BUILDING POWER PLAN RAW WATER PUMP STATION - ELECTRICAL BUILDING LIGHTING PLAN	
S-30-502 S-30-503	STANDARD DETAILS STANDARD DETAILS	E-20-403 E-20-501 E-20-701	RAW WATER INTAKE PUMP STATION VAULT - POWER PLAN RAW WATER PUMP STATION - LIGHTING FIXTURE & PANELBOARD SCHEDULES AND DETAILS	> ш
		E-20-701 E-30-101 E-30-102	MAIN SWITCHBOARD & PLC ONE-LINE DIAGRAMS MEMBRANE/ADMIN BUILDING - SITE PLAN MEMBRANE/ADMIN BUILDING - SITE LIGHTING PLAN	F S
ARCHITECTUS A-00-002	NAL MEMBRANE/ADMIN BUILDING - ARCHITECTURAL STANDARD DETAILS	E-30-401 E-30-402	MEMBRANE ADMIN BUILDING - LIGHTING PLAN MEMBRANE ADMIN BUILDING - CONVENIENCE POWER AND SYSTEMS PLAN	HORI & INTA
A-20-101 A-20-201	ELECTRICAL BUILDING - OPERATING FLOOR PLAN ELECTRICAL BUILDING - ELEVATIONS	E-30-403 E-30-404	MEMBRANE/ADMIN BUILDING - LIGHTING FIXTURE SCHEDULE MEMBRANE/ADMIN BUILDING - PARTIAL POWER PLAN	
A-20-301 A-30-101	ELECTRICAL BUILDING - WALL SECTIONS MEMBRANE/ADMIN BUILDING - PARTIAL DETAIL REFERENCES PLAN	E-30-405 E-30-406	MEMBRANE/ADMIN BUILDING - PARTIAL POWER PLAN MEMBRANE/ADMIN BUILDING - PARTIAL POWER PLAN	AUT WTP
A-30-102 A-30-103	MEMBRANE/ADMIN BUILDING - OPERATING FLOOR PLAN MEMBRANE/ADMIN BUILDING - ROOF PLAN	E-30-407 E-30-501	MEMBRANE/ADMIN BUILDING - UNDER SLAB CONDUIT ROUTING POWER PLAN MEMBRANE/ADMIN BUILDING - DETAILS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
A-30-104 A-30-201	MEMBRANE/ADMIN BUILDING - REFLECTED CEILING PLAN MEMBRANE/ADMIN BUILDING - BUILDING ELEVATIONS	E-30-502 E-30-701	MEMBRANE/ADMIN BUILDING - POWER AND LIGHTING PANEL SCHEDULES MEMBRANE/ADMIN BUILDING - MCC-1 ONE-LINE DIAGRAM	AKE AKE ATIO
A-30-202 A-30-301 A-30-401	MEMBRANE (ADMIN BUILDING - BUILDING ELEVATIONS MEMBRANE (ADMIN BUILDING - BUILDING SECTIONS MEMBRANE (ADMIN BUILDING - TOILET PLANS AND ELEVATIONS	E-30-702 E-30-703 E-30-704	MEMBRANE/ADMIN BUILDING - MCC-1 ONE-LINE DIAGRAM MEMBRANE/ADMIN BUILDING - P.C-1 ONE-LINE DIAGRAM MEMBRANE/ADMIN BUILDING - P.C-1 ONE-LINE DIAGRAM	AT LEST
A-30-601 A-30-602	MEMBRANE/ADMIN BUILDING - VOICE FLANS AND ELEVATIONS MEMBRANE/ADMIN BUILDING - DOOR SCHEDULE AND DETAILS MEMBRANE/ADMIN BUILDING - SCHEDULES AND DETAILS	E-30-704 E-30-705 E-30-706	MEMBRANE/ADMIN BUILDING - MISCELLANEOUS ONE-LINE DIAGRAM MEMBRANE/ADMIN BUILDING - MISCELLANEOUS ONE-LINE DIAGRAM MEMBRANE/ADMIN BUILDING - PLC-2 ONE-LINE DIAGRAM	IN IN S
A-30-801	MEMBRANE/ADMIN BUILDING - CASEWORK ELEVATIONS AND DETAILS	E-60-101 E-80-101	GAC CONTACTOR AND PUMP AREA - POWER PLAN FINISHED WATER STORAGE TANK - POWER PLAN	NAL NTAI, ING GENEI HEET
MECHANICAL		E-85-101 E-90-101	RAW WATER STORAGE TANK - POWER PLAN FLOW METER VAULTS - POWER PLANS	EGIONAL WAI MOUNTAIN LA PUMPING STA GENERAL SHEET LIST
M-20-101 M-20-102	RAW WATER PUMP STATION VAULT - PLAN AND SECTION ELECTRICAL BUILDING - OPERATING FLOOR PLAN			
M-30-001 M-30-002	MEMBRANE/ADMIN BUILDING - OVERALL PERSPECTIVE MEMBRANE/ADMIN BUILDING - PERSPECTIVES			H H
M-30-101 M-30-102	MEMBRANE/ADMIN BUILDING - OPERATING FLOOR PLAN MEMBRANE/ADMIN BUILDING - UNDERSLAB PIPING PLAN			1 101
M-30-301 M-30-302	MEMBRANE/ADMIN BUILDING - SECTIONS - SHEET 1 OF 5 MEMBRANE/ADMIN BUILDING - SECTIONS - SHEET 2 OF 5			ORD SMI WATE
M-30-303 M-30-304	MEMBRANE/ADMIN BUILDING - SECTIONS - SHEET 3 OF 5 MEMBRANE/ADMIN BUILDING - SECTIONS - SHEET 4 OF 5			10 ≥
M-30-305 M-30-401 M-30-402	MEMBRANE/ADMIN BUILDING - SECTIONS - SHEET 6 OF 5 MEMBRANE/ADMIN BUILDING - ENLARGED OPERATING FLOOR PLAN A MEMBRANE/ADMIN BUILDING - ENLARGED OPERATING FLOOR PLAN B			BEI
M-30-403 M-30-404	MEMBRANE/ADMIN BUILDING - ENLARGED OPERATING FLOOR PLAN C MEMBRANE/ADMIN BUILDING - ENLARGED OPERATING FLOOR PLAN D			DESIGNED: MBS
M-30-501 M-30-502	NO LONGER USED DETAILS			DETAILED: MAK CHECKED: MBS
M-30-503 M-30-504	DETAILS DETAILS			APPROVED: PJD DATE: 01/18/16
M-30-505 M-30-506	DETAILS DETAILS			0 1/2 1
M-30-507 M-30-508	DETAILS DETAILS			IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS
M-60-101 M-60-301 M-80-101	GAC CONTACTOR AND PUMP AREA - PLAN GAC CONTACTOR AND PUMP AREA - SECTIONS EXECUTED WATER STREAM OF A SECTIONS			NOT TO FULL SCALE PROJECT NO.
M-80-101 M-85-101 M-90-101	FINISHED WATER STORAGE TANK - PLAN AND SECTION RAW WATER STORAGE TANK - PLAN AND SECTION FLOW WETER VAULT - PLANS, SECTION AND DETAILS			182262
M-95-101	CHEMICAL VALVE VAULT - PLAN, SECTION AND DETAILS		TOOLED FOR CONCERNATION	G-00-002
			ISSUED FOR CONSTRUCTION	SHEET OF



GENERAL NOTES

- HORIZONTAL CONTROL: COORDINATES ARE BASED ON (Designer insert the basis of the control datum.).
 COORDINATES ON STRUCTURES DEPICT THE EXTERIOR FACE OF THE CONCRETE SUBSTRUCTURE FOUNDATION WALL OR FOOTING WALL.
- 2. VERTICAL CONTROL: ELEVATIONS ARE BASED ON (Designer insert the basis of the control datum.). BENCHMARKS AND/OR STRUCTURE ELEVATIONS FROM EXISTING SURVEYS OR REFERENCE DRAWINGS MAY RESULT IN VARIANCES WITH ELEVATIONS INDICATED ON THE DRAWINGS FOR EXISTING FACILITIES. (Designer should indicate here the example of any known differences between datum basis. include individual benchmark reference information in the project specific notes or at the appropriate location on the drawings.)
- THE PROJECTED 100 YEAR FLOOD ELEVATION IS (Designer insert data) AND THE PROJECTED 500 YEAR FLOOD ELEVATION IS (Designer to insert data).
- 4. EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS KNOWN, OR MADE AVAILABLE TO, OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THE LOCATIONS, CONFIGURATIONS, AND ELEVATIONS OF SUBSURFACE FACILITIES AND UTILITIES ARE APPROXIMATE, AND NOT ALL UTILITIES AND FACILITIES MAY BE INDICATED. OVERHEAD UTILITIES ARE NOT INDICATED IN ARCHITECTURAL ELEVATIONS, PROFILE OR SECTION DRAWINGS. THE ENGINEERING INVESTIGATIONS, LOCATION, AND DESIGNATION OF SUBSURFACE UTILITIES INDICATED IN THESE CONTRACT DOCUMENTS HAS BEEN PERFORMED TO QUALITY LEVEL C IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRINCIPLES AND PRACTICES AS OUTLINED IN ASCESSTANDARD AND GUIDELINE BULLETIN CI/ASCE 38-02 UNLESS OTHERWISE DESIGNATED. WHERE SUCH ACTIVITIES HAVE BEEN TO A HIGHER LEVEL OF QUALITY, THE HIGHER QUALITY LEVEL FOR THE AFFECTED AREAS IS INDICATED IN THE CONTRACT
- 5. "SCREENED" (LIGHT) DELINEATION INDICATED ON THE DRAWINGS DENOTES EXISTING FACILITIES. "SCREENED" INFORMATION WAS TAKEN FROM EXISTING CONSTRUCTION DAMINIOS AND DATA, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS AND BEGINNING OF CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED WIDER THIS CONTRACT.
- CONTRACTOR'S STAGING, PARKING AND MATERIAL STORAGE SHALL BE LIMITED TO THE SPACE(S) DESIGNATED ON THE DRAWINGS. PROVIDING ADDITIONAL STORAGE OR PARKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATING, BY CONTRACTING ALL UTILITIES AND OTHER AGENCIES, AND BY PROSPECTING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, DEMOLITION, RECONSTRUCTION, AND RECONNECTION OF EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK. IF REQUIRED AFTER FIELD VERIFICATION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE ANY NECESSARY MODIFICATIONS TO PROPOSED NEW WORK.
- 8. BEFORE CONSTRUCTION IS STARTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER OF EACH UTILITY AND DEFINE THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF ANY UTILITIES AFFECTED BY THE PROPOSED NEW WORK.
- 9. CONTRACTOR SHALL COMPLY WITH THE GOVERNING AGENCY NPDES
 CONSTRUCTION REQUIREMENTS, AND SHALL PROVIDE APPROPRIATE MITIGATION
 MEASURES OR PROTECTION AND RESTORATION AT ALL LOCATIONS AS REQUIRED
 BY THEIR OPERATIONS, AND AS DIRECTED BY ENGINEER. SPECIAL
 CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR
 BARRICADES, SHEETING, SHORING, EROSION PROTECTION, AND SURFACE
 RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS
 TO BRING CONTRACTOR'S ATTENTION TO SENSITIVE AREAS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNER MARKERS. PROPERTY CORNER MARKERS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REESTABLISHED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF VIRGINA.
- 11. THE LOCATION OF TEST HOLES INDICATED ON THE DRAWINGS IS APPROXIMATE. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR ACTUAL TEST HOLE LOCATIONS AND THE FINDINGS OF THE GEOTECHNICAL INVESTIGATIONS.
- 12. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING TREES, SHRUBS, AND PLANTS UNLESS OTHERWISE NOTED.
- 13. CONTRACTOR SHALL INSTALL ALL PIPELINES, PAVING, WALKWAYS, AND CURB AND GUTTER AT A UNIFORM GRADE BETWEEN ELEVATIONS DEPICTED ON THE DRAWINGS.
- 14. FOR ALL SITE GRADING, SMOOTH PARABOLIC TRANSITIONS SHALL BE MADE BETWEEN CHANGES IN SLOPE. PARABOLIC ROUNDING SHALL APPLY TO ALL CUT AND FILL SECTIONS.
- 15. FINISHED GRADE ELEVATION AT THE BUILDING FACE, WHERE NOT ADJACENT TO PAVEMENT, SHALL BE APPROXIMATELY 6 INCHES BELOW FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED. FINISHED GRADE ELEVATION ADJACENT TO BASINS SHALL BE APPROXIMATE AS INDICATED BY CONTOURS, OF AS REQUIRED TO MEET STAIR LANDINGS.
- 16. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING.
- 17. RESTRAINED JOINTS SHALL BE PROVIDED FOR BURIED PIPING AS INDICATED ON THE DRAWINGS AND/OR AS SCHEDULED IN THE SPECIFICATIONS.
- 18. THE DRAWINGS INDICATE TYPES OF PIPE SUPPORT SYSTEMS AT VARIOUS LOCATIONS. HOWEVER, All PIPE SUPPORTS, HANGERS, BRACKETS, INSERTS OR BRACES ARE NOT SHOWN. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND PROVIDE A COMPLETE SUPPORT SYSTEM AS REQUIRED.

- 19. THE TERM "PROPOSED" AS INDICATED ON THE DRAWINGS MEANS THE ITEM IS DESIGNED OR PLANNED TO BE PROVIDED BY OWNER OR OTHERS SEPARATE FROM THIS CONTRACT. THE TERM "FUTURE" AS INDICATED ON THE DRAWINGS REFERS TO THE ENGINEER'S INTERPRETATION OF THE ITEM FOR THE FUTURE, BASED ON AVAILABLE INFORMATION.
- 20. THE EXISTING PROCESS FACILITIES SHALL REMAIN IN OPERATION CONTINUOUSLY THROUGHOUT THE CONSTRUCTION ACTIVITIES. INDIVIDUAL PROCESS FACILITIES CAN BE TAKEN OUT OF SERVICE FOR LIMITED PERIODS OF TIME TO FACILITATE CONSTRUCTION AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 21. STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT DRIVES AND WALKWAYS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC., CROSSED BY THE PIPELINE ARE NOT ALL INDICATED IN PROFILE. CONTRACTOR SHALL RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION.
- 22. CONTRACTOR SHALL REPLACE EXISTING PIPE CULVERTS THAT ARE REMOVED TO INSTALL THE NEW PIPELINE WITH NEW PIPE CULVERTS OF THE SAME SIZE, MATERIAL AND CONSTRUCTION AT THE SAME LOCATION AND INVERT ELEVATION AS THOSE THAT WERE REMOVED, AND SHAPE THE DITCH TO DRAIN WITH THE REPLACED CULVERTS. CONTRACTOR SHALL PROVIDE ANY TEMPORARY CULVERTS THAT MAY BE REQUIRED FOR CONTRACTOR'S OPERATIONS. CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT OF ANY CULVERTS WITHIN PUBLIC RIGHT-OF-WAY WITH THE REGULATING AGENCY.
- 23. HORIZONTAL STATIONING ALONG ANY PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. CONTRACTOR SHALL PROVIDE THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.
- 24. UNLESS OTHERWISE SPECIFIED, INDICATED ON THE DRAWINGS, OR DIRECTED BY THE ENGINEER, INSTALL ALL PIPELINES SLOPING DOWNMAND FROM AN AIR VALVE MINIMUM '-' COVER AT MANHALE OR AT MANHAL ARY TO A BLOWOFF, AND PROVIDE THE SPECIFIED MINIMUM PIPE COVER. MINIMUM PIPE COVER SHALL BE FROM THE EXISTING, PROPOSED, OR FUTURE GROUND SURFACE OR ROAD PROFILE; MHICHEVER GROUND SURFACE OR ROAD PROFILE IS APPLICABLE AS INDICATED ON THE DRAWINGS. IF THE PROPOSED GROUND SURFACE IS ABOVE THE EXISTING GROUND SURFACE INDICATED ON THE DRAWINGS AND IS NOT THE ACTUAL GROUND SURFACE INDICATED ON THE DRAWINGS AND IS NOT THE ACTUAL GROUND SURFACE AT THE TIME OF PIPELINE INSTALLATION, INSTALL THE PIPELINE TO PROVIDE MINIMUM PIPE COVER FROM THE ACTUAL GROUND SURFACE IF ACCEPTABLE TO THE ENGINEER. HIGH POINTS IN THE PIPELINE WILL NOT BE PERMITTED EXCEPT AT LOCATIONS OF AIR VALVES AS INDICATED ON THE DRAWINGS. REVIEW THE PIPELINE PROFILE REQUIREMENTS WITH THE ENGINEER PRIOR TO PREPARING LAYING SCHEDULES AND PERFORMING FIELD STAKING.
- 25. CONTRACTOR SHALL FIELD VERIFY PRECISE LOCATION, ELEVATION, AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES WITH EXISTING PIPELINES BASED ON FIELD CONDITIONS, INCLUDING EXPOSING EXISTING PIPING PRIOR TO FABRICATING NEW PIPING. CONTRACTOR SHALL PROVIDE FITTINGS, ADAPTERS, SOLID SLEEVE CLOSURES, AND HARNESSED MECHANICAL COUPLING, ROTATE FITTINGS; DEFLECT JOINTS: AND MODIFY EXISTING PIPING AS APPLICABLE AND AS REQUIRED TO MAKE CONNECTIONS, INCLUDING ADJUSTMENTS FOR ANY OFFSETS IN CENTERLINE ELEVATIONS BETWEEN PIPELINES. CONTRACTOR SHALL PROVIDE TEMPORARY PLUG WITH FACTORY OUTLET SIZED AS REQUIRED FOR CONTRACTOR'S TESTING AND DISINFECTION WORK BEFORE MAKING CONNECTION, WHEN APPLICABLE. CONTRACTOR SHALL COORDINATE MAKING EACH CONNECTION WITH THE MOWER.

2			-			L		H	L	_
_		ACCOUNT OF THE						H		_
					AND					
Æ	BLACK & VEATCH		8/16 ISSUED F	01/18/16 ISSUED FOR CONSTRUCTION		0	MAK MBS PJD	MBS	P	
	Building a World of difference:	Santa DELTA	TE	REVISIONS AND RECORD OF ISSUE	OF ISSUE	80	ВУ	ठ	AP	
			to - General an	50.3010 - General and Demo Drawings						_
	Rlack & Veatch Cornoration	0-00-5	G-00-004.dwg		XREF1:BORDER. dwg					
	Virginia Beach. VA	SAVED:	: KDE49353, 7/28	SAVED: KDE49353, 7/29/2015 10:24:50 AM	XREF2:					
		PLOTTED:	ED:		XREF3:					
		on the same	Carolina . 100m announce					ŀ	I	

ORD REGIONAL WATER AUTHORITS SMITH MOUNTAIN LAKE WTP & WATER PUMPING STATION / INTAK GENERAL GENERAL NOTES

DESIGNED: MES
DETAILED: MAK
CHECKED: MBS
APPROVED: PUD
DATE: 01118/16
0 1/2 1

IF THIS BAR DOES NO MEASURE 1" THEN DRAWING NOT TO FULL SCALE PROJECT NO. 182262

G-00-004

											S ×	
Α	ACID, AMBER INDICATING LIGHT, AMP	D	DOOR	I	INDICATOR	R	RADIUS, RISER	V	VALVE, VOLT, VENT		888 8	
AB ABS AC A/C	ANCHOR BOLT ACID BATH SINK	DBL DC	DOUBLE DIRECT CURRENT	ID IF	INSIDE DIAMETER INSIDE FACE	RAS RCP	RETURN ACTIVATED SLUDGE REINFORCED CONCRETE PIPE	VAC	VACUUM VINYL ASBESTOS TILE		BY	
AC A/C	ALTERNATING CURRENT AIR CONDITIONER, (ING)	DEG DEPT	DEGREE DEPARTMENT	I/I IN	CURRENT TO CURRENT BOOSTER INCHES	RCCP RCHEP	REINFORCED CONCRETE CYLINDER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE	VBF	VALVE, AWWA BUTTERFLY VALVE, INDUSTRIAL BUTTE	-DELV	0 00	
ACP ACST	ASBESTOS CEMENT PIPE ACOUSTIC, (AL	DET DF	DETAIL DRINKING FOUNTAIN	INC INCL	INCORPORATED INCLUDING	RD RDL	ROOF DRAIN, ROAD ROOF DRAIN, LEADER	VBL	VALVE, BALL			
AD ADD	ACCESS DÓOR, AREA DRAIN, AIR DAMPER, ANODE	DH DI	DOOR HEIGHT	INCR	INCREASE	RECEP	RECEPTION	VBM VC	VALVE, BALL MISCELLANEO VERTICAL CURVE, VICTAUL	.IC COUPLING		chug.
ADH	ADDITIONAL ADHESIVE	DIA	DROP INLET, DUCTILE IRON DIAMETER	INST INSUL	INSTRUMENT, (ATION) INSULATE, (ED), (ING)	RECIRC RECP	RECIRCULATING RECEPTACLE	VBL VBM VC VCD VCK VCN VCP VG VGD VGL VERT VF	VERTICAL CONTROL DAMPER VALVE, CHECK	7		RDER
ADJ ADMIN	ADJUSTABLE, ADJACENT ADMINISTRATION	DIFF DIM	DIFFUSER DIMENSION	INT INV	INTERIOR, INTERNAL INVERT	RED REG	REDUCER, REDUCING REGULATOR, REGULATING	VCN VCP	VALVE, CONE VITRIFIED CLAY PIPE		SWE	108
AF AFF	AIR FLOW ABOVE FINISH FLOOR	DIP DISCH	DUCTILE IRON PIPE DISCHARGE	IPS	IRON PIPE SIZE	REF REFR	REFERENCE REFRIGERATION, REFRIGERATOR	VG	VALVE, GATE	_	F IS	XREF1 XREF2 XREF3 XREF4
AH AHU	AHEAD AIR HANDLING UNIT	DISP DIST	DISPENSER	JAN	JANITOR	REINF	REINFORCING	VGL VGL	VALVE, DOUBLE DISC GATE VALVE, GLOBE	:	10 01	XXXX
AL	ACTIVE LEAF	DIV	DISTRIBUTION DIVISION	JB JF	JUNCTION BOX JOINT FILLER	REM REQD	REMOVABLE REQUIRED	VERT VF	VERTICAL VACUUM FILTER		ECOF	ing
ALT ALUM	ALTERNATE, (IVE) ALUMINUM	DL DM DMJ	DEAD LOAD DAMPER MOTOR	JT	JOINT	RET REV	RETURN REVISION, REVISED, REVERSED	VIB VKG	VIBRATION VALVE, KNIFE GATE		NO NO R	Pric
AM AMP	AMMETER AMPERE	DMJ DN	DOUBLE MECHANICAL JOINT DOWN	K KIT	KIPS KITCHEN	RFG RG	ROOFING RETAINER GLAND	VM	VOLT METER VENEER		UCTI AS A	á 9
ANOD AP	ANODIZED ACCESS PANEL	DO DPDT	DOOR OPENING, DISSOLVED OXYGEN DOUBLE POLE DOUBLE THROW	KO KS	KNOCK OUT KITCHEN SINK	RH	ROOF HOOD, RIGHT HAND, ROUND HEAD, RED HEAD	VPC	VALVE, PRESSURE REGULAT	ring	STON O	3 85
APPR	APPROACH	DR	DRAIN	KV	KILOVOLT	RHMS RHWS	ROUND HEAD MACHINE SCREW ROUND HEAD WOOD SCREW	VPL	VALVE, PLUG VALVE, ECCENTRIC PLUG		PREVI	, S
APPROX AR	APPROXIMATE, (LY) ALARM RELAY	DS DT	DOWNSPOUT DISTRIBUTION TRANSFORMER	KVA KW	KILOVOLT AMPERE KILOWATT	RM RO	ROOM ROUGH OPENING		VALVE, PRESSURE REDUCIN VALVE, PRESSURE RELIEF	/G	FOF	, 6
ARCH AS	ARCHITECTURAL AMMETER SWITCH	DV DWG(S)	DRAIN VALVE DRAWING(S)	KWH	KILOWATT HOUR	RPM RR	REVOLUTIONS PER MINUTE RAILROAD	VSPV	VALVE, PRESSURE/VACUUM VALVE, VACUUM RELIEF	RELIEF	ra1	
ASSY AUTO	ASSEMBLY AUTOMATIC	DWL(S)	DOWEL (S)	L LAB	LOUVER LABORATORY	RS RT	RAW SLUDGE, RAW SEWAGE, ROLLED STEEL RIGHT	VV	VENT VALVE		IS	353
AUX	AUXILIARY	E.	EAST, ELECTRICAL	LAM	LAMINATE(D)	R/W	RIGHT OF WAY		VACUUM BREAKER		91	5. d
AVS AWG	AUTOMATIC VALVE STATION AMERICAN WIRE GAGE	EA EAT	EACH ENTERING AIR TEMPERATURE	LAT LAT	LEAVING AIR TEMPERATURE LATERAL	s	SOUTH, SPEAKER	W W/	WEST, WIDE, WINDOW, WAT WITH	T, WATER	1181 00AT	TTEL
В	BEAM	EC ECC	END CURVE ECCENTRIC	LAV LB(S)	LAVATORY POUNDS	SAN SWR SCHED	SANITARY SEWER SCHEDULE	WAS	WASTE ACTIVATED SLUDGE WALLBOARD		01	SAV PLD USE
B TO B	BACK TO BACK BEARING AREA	ECC ECC RED EEW	ECCENTAIC REDUCER EMERGENCY EYEWASH	LG LH	LENGTH, LONG LEFT HAND	SD SEC	STORM DRAIN, SOAP DISH SECOND	WC	WATER CLOSET		10 The Assessment	San San
BAL	BALANCE	EF	EACH FACE	LIN	LINEAL, LINEAR	SECT	SECTION	WF	WOOD, WIDTH WALL FITTING		130 8 3	100
BAT BC	BATTERY BEGIN CURVE	EFF EJ	EFFLUENT EXPANSION JOINT	LL LO	LIVE LOAD LOUVER OPENING	SER SK SG	SERVICE SINK SLUICE GATE, SUPPLY GRILLE		WALL HYDRANT WATER LEVEL			102
BC BD BEJ BF	BOARD BRICK EXPANSION JOINT	EL ELB	ELEVATION ELBOW	LS LT	LEVEL SWITCH LEFT, LAB TABLE	SH SHR	SHEET SHOWER	WM	WATER METER, WATTMETER WINDOW OPENING		I E	
BF BHP	BLIND FLANGE BRAKE HORSEPOWER	ELEC ELEV	ELECTRIC, (AL) ELEVATOR	MA	MILLIAMPERE	SHD SIM	SHOWER DOOR SIMILAR	W/O	WITHOUT		1 12 38	
BITUM	BITUMINOUS	EMER	EMERGENCY	MACH	MACHINE	SKL	SKYLIGHT	WP	WOMEN WATERPROOF, WORKING POI	NT	The Original	S. A.
BKR BLDG	BREAKER BUILDING	ENC ENCL	ENCASEMENT ENCLOSURE	MAINT MAN	MAINTENANCE MANUAL	SM SP	SHEET METAL SUMP PUMP	WR WS	WASTE RECEPTACLE WATERSTOP		Papagoni	,84°
BLK BM	BLOCK BENCHMARK	ENT	ENTRANCE END OF LINE	MAS MAX	MASONRY MAXIMUM	SPA SPEC(S)	SPACING, SPACES SPECIFICATION(S)	WT	WEIGHT			
BOF BOT	BOTTOM OF FOOTING BOTTOM	EOL EQ EQUIP	EQUAL EQUIPMENT	MB MC	MACHINE BOLT MECHANICAL COUPLING	SPLY SPLY SQ	SUPPLY	ww.	WETWELL WELDED WIRE FABRIC		ATCH difference:	_
BP	BACK PRESSURE	EW	EACH WAY	MCC	MOTOR CONTROL CENTER	SR	SQUARE SUPPLY REGISTER	X	BY, TIMES			ation
BPMK NO BRG BRK	BASEPLATE MARK NUMBER BEARING	EW EWEF	EMERGENCY EYEWASH EACH WAY EACH FACE	MECH MED	MECHANICAL MEDIUM	SS SS	STAINLESS STEEL SANITARY SEWER		YARD HYDRANT		 < <u>\$</u>	ati
BRK BS	BRICK BOTH SIDES	EXCH EXH	EXCHANGER EXHAUST	MET MEZ	METAL MEZZANINE	SS SSK ST	SERVICE SINK				& VE.	Corpora
B&S	BELL AND SPIGOT	EXIST	EXISTING	MFM	MAGNETIC FLOWMETER	ST SWR	SELF TAPPING STORM SEWER		AND AT		₹ ₽	0 5
BSMT BTU	BASEMENT BRITISH THERMAL UNIT	EXP EXP JT	EXPANSION, EXPOSED EXPANSION JOINT	MFR(S) MG	MANUFACTURER(S) MILLION GALLONS	STA STD	STATION STANDARD		DEFLECTION ANGLE			25
BTUH BU	BRITISH THERMAL UNIT-HOUR BELL-UP	EXT	EXTENSION, EXTERIOR, EXTERNAL	MGD MH	MILLION GALLONS PER DAY MANHOLE	STL STOR	STEEL STORAGE		PER CENT		250	a B
BUR BVC	BUILT UP ROOFING	F F TO F	FAN STORE TO STORE	MIN	MINIMUM, MINUTE	STR	STRUCTURAL				₹	Veatch
BVC	BEGIN VERTICAL CURVE	F TO F FB	FACE TO FACE FACE BRICK	MISC MJ	MISCELLANEOUS MECHANICAL JOINT	SUP SUSP	SUPPLY SUSPENDED				B Suile	% ≥
С С ТО С	COUNTER CENTER TO CENTER	FC FCA	FLEXIBLE CONNECTION, FLOW CONTROL FLANGED COUPLING ADAPTER	MJRG MJTR	MECHANICAL JOINT RETAINER GLAND MECHANICAL JOINT WITH TIE ROD	SV SW	SHUTOFF VALVE SWITCH				m =	꿈
CB CD	CATCH BASIN CEILING DIFFUSER	FD	FLOOR DRAIN	MO	MASONRY OPENING, MOTOR OPERATED	SWBD	SWITCHBOARD					Sla
C/EJ	CONTRACTION/EXPANSION JOINT	FDN FDPR	FOUNDATION FIRE DAMPER	MP MRD	METERING PUMP METAL ROOF DECK	SWGR SWS	SWITCHGEAR SEAL WATER SOLENOID					
CFM C&G	CUBIC FEET PER MINUTE CURB AND GUTTER	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	MS MSL	MACHINE SCREW MEAN SEA LEVEL	SYM	SYMMETRICAL SYSTEM				On the last	
CHKD CI	CHECKERED CAST IRON	FH FHMS	FLAT HEAD, FIRE HYDRANT	MTD	MOUNTED	-					<u> </u>	
CIMH	CAST IRON MANHOLE	FIG	FLAT HEAD MACHINE SCREW FIGURE	MTL MTR	MATERIAL MOTOR	T	THERMOSTAT, TREAD, TOTALIZER TRANSFORMER, TELEPHONE, TOP				Z A	
CIMHS CIP	CAST IRON MANHOLE STEPS CAST IRON PIPE	FIN FIN GR	FINISH FINISH GRADE	N	NORTH	TAN TB	TANGENT TERMINAL BOX				II ¥	
CISP	CAST IRON SOIL PIPE CONTROL JOINT	FL FLEX	FLOOR, FLOW LINE FLEXIBLE	N / A NBC	NOT APPLICABLE NAIL IN BOTTLE CAP	T&B TBE	TOP AND BOTTOM				10c F	
CJT CKT	CIRCUIT	FLG	FLANGE, FLASHING	NC	NORMALLY CLOSED	TBM	THREAD BOTH ENDS TEMPORARY BENCHMARK				오∞집	
CL C/L	CLASS CENTERLINE	FM FO	FORCE MAIN FUEL OIL	NEUT NF	NEUTRAL NEAR FACE	TC TC	TOWEL CABINET, TOP OF CURB TERMINAL CABINET				E a T	
CLG CLO	CEILING CLOSET	FOB FOM	FLAT ON BOTTOM FACE OF MASONRY	N.O. NO.(S)	NORMALLY OPEN NUMBER(S)	TEL TEMP	TELESCOPING TEMPERATURE, TEMPORARY				13-	
CLR CMP	CLEAR, (ANCE) CORRUGATED METAL PIPE	FOS FOT	FACE OF STUDS FLAT ON TOP	NOM NORM	NOMINAL	TERM	TERMINAL				₹≥≥	
CMU	CONCRETE MASONRY UNIT	FRP	FIBERGLASS REINFORCED PLASTIC	NPT	NORMAL NATIONAL PIPE THREAD	T&G TH	TONGUE & GROOVE TEST HOLE					
CO COD	CLEAN OUT, COMPANY CHEMICAL OXYGEN DEMAND	FS FT	FAR SIDE, FLOOR SLEEVE, FLOAT SWITCH FOOT	NPW NS	NONPOTABLE WATER NEAR SIDE	THK THR	THICK, THICKNESS THRESHOLD				H KE	Si
COL	COLUMN COMBINATION	FTG FURN	FOOTING FURNISH, FURNISHED	NTS	NOT TO SCALE	TI TIR	TOTALIZING INDICATOR, TEMPERATURE INDICATOR				1272	ð l
COMB SI COMP	R COMBINED SEWER	FV	FLAP VALVE	oc	ON CENTER, ODOR CONTROL	TOF	TOTALIZING INDICATING RECORDER TOP OF FOOTING				WATE IN LAI	RAL
CONC	COMPRESSOR, (ED) CONCRETE	FWD	FORWARD	OD OF	OUTSIDE DIAMETER OUTSIDE FACE, OVERFLOW	TOM TOS	TOP OF MASONRY TOP OF STEEL				I A	EA I
CONN CONST	CONNECTION CONSTRUCTION	G GA	GAS GAUGE	OH OL	OVERHEAD OVERLOAD	TP TRANS	TWISTED PAIR COUPLE, TOWEL PIN TRANSFORMER, TRANSMITTER, TRANSFER				1 <u>4</u> 48	E
CONT	CONTINUOUS, CONTINUATION, CONTROL CONTRACTOR	GA GAL GALV	GALLON GALVANIZED	OPER OPNG	OPERATING OPENING	TS TV	TEMPERATURE SWITCH TELEVISION				GIONAL MOUNTAI. PUMPING	GENEI ABBREVI
COR	CORNER CORRIDOR. CORRUGATED	GC/MS GEN	GAS CHROMATOGRAPH/MASS SPECTROMETER	OPP	OPPOSITE	TYP	TYPICAL				1532	AB
CP	CONTROL PANEL	GM	GENERAL, GENERATOR GAS METER	OSL OZ	OUTSTANDING LEG OUNCE	UDM	ULTRASONIC DENSITY METER				1057	`
CPLG CPT	COUPLING CONTROL POWER TRANSFORMER	GPM GR	GALLONS PER MINUTE GRADE	PC	POINT OF CURVE	UGND UH	UNDERGROUND UNIT HEATER					
CRS	COURSES, (ING) CONTROL SWITCH, CONTROL STATION, CUP SINK	GWB GYP	GYPSUM WALLBOARD GYPSUM	PCC PCCP	POINT OF COMPOUND CURVATURE PRESTRESSED CONCRETE CYLINDER PIPE	UNO UR	UNLESS NOTED OTHERWISE INTINAL				E H	
CSK CT	COUNTERSUNK, (INK)	urc u		PCP	PIER CUTOFF POINT	USGS	UNITED STATES GEOLOGICAL SURVEY					
CT	CERAMIC TILE, CYCLE TIMER CURRENT TRANSFORMER	H HB	HIGH, HOUR, HYDROGEN HOSE BIBB	PD PE	PLAN DIMENSION PLAIN END						SMI	1
CTR(S) CU	CENTER(S) CUBIC	HC	HOLLOW CORE HEADER	PG PH	PRESSURE GAUGE PIPE HANGER, PENTHOUSE							- 1
CU YD CW	CUBIC YARD	HDR HE	HEAT EXCHANGER	PI	POINT OF INTERSECTION						JOF M	
UW	COLD WATER	HEX HF HGT	HEXAGONAL HOSE FAUCET	PIVC PL	POINT OF INTERSECTION ON VERTICAL CURVE PLATE						BEDI	
		HH	HEIGHT HANDHOLE	PLYWD PNL(S)	PLYWOOD PANEL(S)							
		HLS HMC	HIGH LEVEL SWITCH HARNESSED MECHANICAL COUPLING	POLY POT	POLYMER POINT ON TANGENT						DESIGNED: MBS DETAILED: MAK	
		HMD HMJ	HOLLOW METAL DOOR HARNESSED MECHANICAL JOINT	PP PR	POWER POLE PAIR						CHECKED: MBS	
		HORIZ	HORIZONTAL	PROJ	PROJECTION						APPROVED: PJD	
		HP HR	HIGH POINT, HORSEPOWER HOUR, HANDRAIL	PRS PRV	PRESSURE REDUCING STATION POWER ROOF VENTILATOR						DATE: 01/18/1	
		HS HV	HIGH STRENGTH HOSE VALVE	PS PSF	PIPE SUPPORT POUNDS PER SQUARE FOOT						0 1/2	
		HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PSI	POUNDS PER SQUARE INCH						IF THIS BAR DOL MEASURE 1" THEN D	OES NOT
		HWY	HOT WATER HIGHWAY	PT PVC	POINT, POINT OF TANGENCY POLYVINYL CHLORIDE, POINT ON VERTICAL CURVE						NOT TO FULL S	SCALE
		HYDRO	HYDROPNEUMATIC	PVCP PVMT	POLYVINYL CHLORIDE PIPE PAVEMENT						PROJECT N 182262	
				PW	POTABLE WATER							
											$I \cap A \cap A$	AAC I
									-		G-00-0	005 I
								ISSUE	ED FOR C	ONSTRUCTION	G-UU-(SHEET OF	

