WARREN COUNTY, OHIO

THE VILLAGE OF SOUTH LEBANON **RIVER CORRIDOR PUBLIC SANITARY SEWER EXTENSION**

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES THE DESIGN OF A PUBLIC SANITARY SEWER AND A PUBLIC FORCE MAIN THAT IS LOCATED PRIMARILY ALONG THE LITTLE MIAMI SCENIC TRAIL. THE DESIGN INCLUDES APPROXIMATELY 5.000 FEET OF PUBLIC GRAVITY SANITARY SEWER, 2 PUMP STATIONS, AND 8,000 FEET OF PUBLIC FORCE MAIN

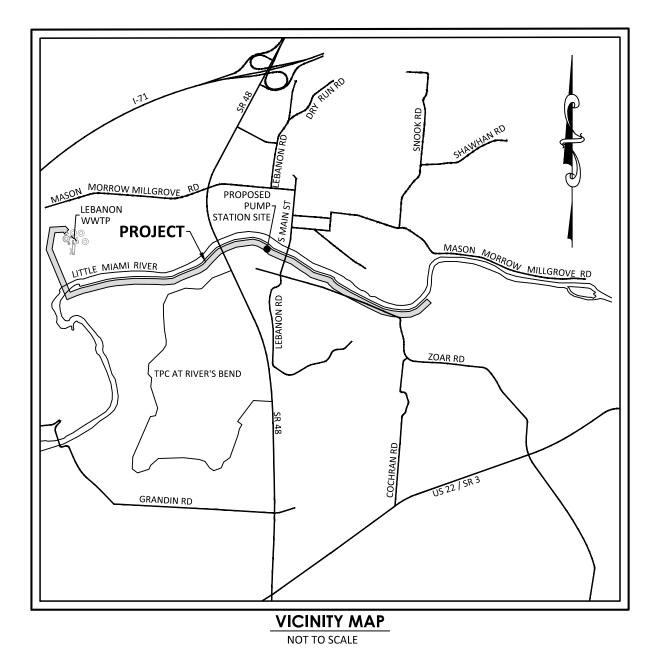
BENCHMARKS

BM #	DESCRIPTION	ELEVATION	NORTHING	EASTING
	IRON PIPE LOCATED AT THE			
	NORTHWEST CORNER OF MAIN			
100	STREET AND BAYOU STREET	630.47	502237.98	1482707.17
104	NAIL SET IN ASPHALT PATH	630.40	502052.22	1483405.36
107	NAIL SET IN ASPHALT PATH	627.61	501671.97	1484505.27
110	NAIL SET IN ASPHALT PATH	630.12	501234.82	1485584.46
114	NAIL SET IN ASPHALT PATH	628.17	501071.44	1487064.47
121	NAIL SET IN ASPHALT PATH	633.04	502305.29	1476557.39
124	NAIL SET IN ASPHALT PATH	629.90	501695.37	1477258.79
128	NAIL SET IN ASPHALT PATH	628.12	502103.84	1478536.75
132	NAIL SET IN ASPHALT PATH	626.56	502183.43	1479852.52
135	NAIL SET IN ASPHALT PATH	627.46	502630.42	1480879.84
138	NAIL SET IN ASPHALT PATH	627.42	502468.14	1481981.24
6374	NAIL SET IN ASPHALT PATH	689.28	503541.43	1476501.50

CONTROL BASIS:

THE BEARINGS ARE BASED ON US STATE PLANE NAD 83 (OHIO SOUTH ZONE 3402). ELEVATIONS BASED ON NAVD88. BOTH DERIVED FROM ODOT'S VRS RTK NETWORK USING STATIONS OHDT AND LEBA.





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G2	CODE NOTES
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C2	NOTES
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C4	FORCE MAIN PLAN & PROFILE
C5	FORCE MAIN PLAN & PROFILE
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A2	BUILDING ELEVATIONS
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H1	HVAC FLOOR PLAN, NOTES & SCHEDULES
P1	PLUMBING FLOOR PLAN, NOTES & SCHEDULE
P2	PLUMBING STACK & DETAILS
E1	ELECTRICAL SCHEDULES, LEGENDS & ABBREVIATIONS
E2	ELECTRICAL LIGHTING & POWER AND FIRE ALARM PLAN
E3	ELECTRICAL SITE PLAN & METER PIT
E4	ELECTRICAL ONE LINE DIAGRAM
E5	ELECTRICAL DETAILS
1	
PS1 PS2	PUMP STATION PLAN PUMP STATION SECTIONS



SHEET INDEX



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Project Manager REL Drawn By 06308124-COV-00 - FINAL DWG X-Ref(s) Issue/Revision No. Date PTI SUBMITTAL 10/18/22



Z O S Ο M S \mathbf{m}

Sheet Title

COVER SHEET

06308.12 Project Number N/A Drawing Scale G1 Sheet Number 06308 File Number

CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

DETAILED PROCEDURES FOR SANTARY SEWER	SEWER	SEWER (CONTINUED)	PIPE CONNECTIONS INTO MANHALES	
 PROCEDURE FOR MAKING SCIMER LATERAL CONNECTIONS TO EXISTING SEWER- A. IF ABS COMPOSITE — EXCANTE TO POINT OF LATERAL ON MARK, CELONI EXISTING PRE- LICK SOADLE TO PROPER POSITION AND MARK AREA TO BE CUT, CUT HOLE. IN PRE AS REQUIRED MAKING SIRE THE CUT CUT DOESN'T ENTRE THE WINK- ATTACH AND SELS. ASDQLE WITH STANLESS STELL STRAPS AND MASTIC SEALER BETWEEN SADDLE AND PIPE. INSERTA TESS ARE NOT PERMITED. 	1. ALL SANTARY PRPC SHALL CONFORM TO ASTM D-2880 FOR ABS/PVC GASKETED COMPOSITE PRPC (FNUSS), SATM D-3034 FOR SOR 76 GASKETED 4 ⁴ - 15 ⁹ DAMETER PC ASTM F-679 FOR SDR 26 GASKETED 18 ⁶ - 30 ⁹ DAMETER, PPE LARGER THAN 15 ¹ SHALL CONFORM TO STM F-948 (ACOU) OR ASTM F-1803. SCEAMLE COATED 15 ¹ SHALL CONFORM TO STM F-948 (ACOU) OR ASTM F-1803. SCEAMLE COATED 15 ¹ SHALL CONFORM TO STM F-948 (ACOU) OR ASTM F-1803. SCEAMLE COATED 15 ¹ SHALL CONFORM TO STM F-948 (ACOU) OR ASTM F-1803. SCEAMLE COUNTY SANITARY ENGINEER. JOINTS FOR PVC GRANTY SEVER PIPE SHALL BE PLISH- ON TYPES WITH RUBBER GASKETS. PIPE ENDS SHALL NOT BE BEVELED. PIPE ENDS MUST BE SEALED. 2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER STORM WATER CONNECTIONS TO THE	11 SENSING MANAGELE CASTINGS ARE TO BE RAISED BY ETHER A MANAGE ADJUSTING THE PER A DATES SCIENCE ACTION ADDED. IF THE HEIGHT OF INCESSARY ADJUSTMENT APPARED VISION: TO FILL RECONTRACTOR IS TO USE A NEW BAREL SECTION ONLY. EXTRA APPARENT DY BE RAKEN TO NSURE A PROPER AND TOHT SEAL AT ALL NEW JOINTS. 12. THE CONTRACTOR USED INSURE A PROPER AND TOHT SEAL AT ALL NEW JOINTS.	SEWER PIPE TO MANHCHE CONNECTIONS ON ALL SANITARY SEMERS SHALL BE PLEVBEL AND WATERICHT. SEWER POP SHALL BE SCHLED IN THE MANHCHE SECTION PIPE OPENNES WITH A RESULENT CONNECTION WEITING THE RECORRENTS OF ASIM (S23. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES: 1. RJBBER SLEEVE WITH STAINLESS STEEL BAIDING A) KORN-MESAL AS MANUFACTURED BY OLLIDION CONTROL SYSTEMS,	DESIGNUT
B. IF CLAY OR CONCRETE – EXCAVATE TO POINT OF LATERAL ON MAIN; PLUG OUTLET PIPE AT UPSTFEAM MANHOLE – PUMP TO DOWNSTREAM MANHOLE IF NECESSARY, REMOVE CLOSEST LENGTH OF PIPE AND REPLACE WITH TEE LATERAL SECTION OF FIPE OR CORE EXISTING PIPE IN PLACE.	SANITARY SYSTEM ARE PROHIBTED. 3. NO MANHOLE, OR ANY PORTION OF THE MANHOLE, SHALL BE LOCATED UNDER A SIDEWALK OR DRIVEWAY.	TE: THE CONTINUE TO THE EXISTING SERVER PLOUGS (3) AT THE POWING (5) OF CONNECTION TO THE EXISTING SERVER PHORE TO INITIATING ANY CONSTRUCTION. THE BULK HEAN(S) OR MECHANICAL PLUC(S) SHALL REMAIN IN PLACE UNTIL THE NEW MAINS HAVE BEEN FLUSHED, CLARHED, TSETURE THE PLUC(S) CAN ONLY BE REMOVED IN THE PRESENCE OF A WAREN COUNTY. THE MECHANICAL PLUC(S) CAN ONLY BE REMOVED IN THE PRESENCE OF A WAREN COUNTY. SEVEN INSPECTOR.	INC. B) LOCK. JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERSPACE CORPORATION C) OR EQUAL	Project Manager RA Drawn By REL DWG 05308124-DET-00 - FINAL
2. PROCEDURE FOR MAKING SIVEE EXTENSIONS FROM EXISTING MANHOLS: CONSTRUCT UNE TO WITHIN ONE JOINT OF DESINS MANHOLS: AFTER LINE PASSES LEAKAGE TEST AND WAREN COUNTY SANTARY ENGINEER WISS GO AHEAD - OONNECTION TO BE MADE; PLUG OILTE TPRE TU PSITEÄM MANHOLE - PUMP TO DOWISTREAM MANHOLE IF NECESSARY, A HOLE IS CUT AT THE PROOFSED NIET FONT AND THE LAST JOINT IS LAND. EXISTING BENCH AND CHANNEL OF MANHOLE IS REDULT MO SHAPED AS REQUIRED, NEW CONNECTION IS TO BE SALED AS REQUIRED.	4. SANITARY SEVER LATERALS SHALL BE CONSTRUCTO OF THE FOLLOWING MATERIALS: A) ABS PIPE - ASTM D-2303 WITH SOR 23.5 (6° JULE JONT) B) PVC PIPE - ASTM D-2303 WITH SOR 23.5 (6° JULE JONT) ASTM D-2665 SCHEDULE 40 (5° JULE) (5° JULE) - 30.3 WITH SOR 35 (6° JULE) (6° JULE) (7) DUCTLE IRON - CLASS 53 (6°) 3. SWCR LATERALS. WILL FE PUTMENDE TO THE HOUSE SIDE OF UTULITY FASEMENTS AND 3. SWCR LATERALS. WILL FE PUTMENDE TO THE HOUSE SIDE OF UTULITY FASEMENTS AND	 TRENCH SHETY IS THE RESPONDENT OF THE CONTRACTOR. THE CONTRACTOR NUMBER THAT ALL APPLICABLE COM OFFU RENCH SHETY FOURIENTS ANE FOLLOWED. IT IS NOT WARREN COUNTY'S RESPONSIBILITY TO INSPECT EACH STE FOR COMPLIANCE. H. HOPE OPE MAY BE USED FOR DIRECTIONAL DIRECTION OF FORCE MANNS WIT. APPROVAL FROM THE COUNTY SANTARY EXONERCE, ALL DIRECTIONAL DIRECTION ADDILING SHOULD BE. 	 RUBBER GASKET COMPRESSION A) PRESS VEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET COURCA-SEAL MANUFACTURED BY DURA TECH, INC. C) OR EQUAL 	DWG DS38124-DET-00 - FINAL x-Ref(s)
3. PROCELURE FOR MAKING NEW MANIFOLES ON EXISTING SEVER MAINS: EXCAVITE AND EXPOSE DESTING SEVER A FORM TO THE NEW MAINOLE. BUILD MANIFOLE OVER EXISTING LINE WHILE NOT DISTURERING EXISTING LINE. BUILD NEW UNE(S; FORM NEW MANHFOLE, AFTER NEW LINICS) PASSED LEXANGE TEST AND WARREY COUNTY SANITARY EXANERE GIVES GO AFLEAD – PLUG OUTET PRE AF EXISTING UPSTREAM WARFOLE (PULNE TO EXISTING DOWNER ALL MANOLE IF NECESSARY), BREANOUT TOP OF EXISTING SEVER AS REQUIRED AND FORM A EBENYA AND CHANNEL AS REQUIRED.	 SERVET LATERALS MUST BE EXTENDED TO THE HOUSE SIDE OF UTILITY LASEMENTS AND STALL BE MARKED BY TWO INCHES (2') BY FOUR IICHES (2' X 4') OR LARGER POSTS. POSTS SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED GREEN. A SIX FOOT (6') LENGTH OF #6 REINFORCED ETAIL 5-14A. ONLY SANTARY WITS WITH 45' BEINS SHALL BE USED FOR SANTARY LATERA INSTALLTON. ALL WITS TO BE GULE JOINTS ON THUS SAND COMPOSITE PIPE. ALL SANTARY LATERALS MUST BE SIX INCHES (6') IN DAMETER WITH THE RIGHT-OF-WAY NO COMMENTION SHALL BE MADE TO THE COMM OF THE SENER MAIN. 	15. MINIMUM SLOPE SHALL BE AS FOLLOWS: <u>PIFE SIZE</u> <u>MINIMUM SLOPE</u> (%) 2.00	RESULAT CONNECTOR SHALL BE CAST INTEGRALY INTO THE WALL OF THE MANHOLE SECTION AT THIS OF MANHACTURE OR SHALL BE INSTALLED BY MECHANICAL MEANS IN OPINIOSS OUT INTO MANHOLE MALL PER ASM 0283. ANY DOINNECTION TO AN EXISTING MANHOLE MAST BE CONTEND MANHOLE. ANY CORE TO A MANHOL MAST BE CONTEND IN THE BARREL SECTION(S).	
4. STORM WATER AND EXTRAHEOUS FLOWS ARE PROHIBITED FROM ENTERING THE EXISTING SYSTEM DURING CONSTRUCTION. NO O'PEN CUT TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNICHT. STORM DRANG, DVERGOM DITCHES, POMP'S ETC, SHALL BE USED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM AT ALL THES.	 ALL LATERALS TO BE NOT LESS THAN SIX INCHES (6") INSIDE DIAMETER. THE LOCATION OF SEWER LATERALS MUST BE STAMFED IN THE CURB AT THE 	5"50 10"55 12"28 15"15		
5. ALL SANTARY SERVER PIPE WUST BE EEDED WH NUMBER 57 STONE EXTENDING FROM A POINT NOT LESS THAN 6" BLOW THE EOTTOM OF THE PIPE TO THE SPRING, HC OF THE PIPE. BACKFLL WHI NUMBER 50 GRITS FROM THE SPRINCLNE. TO A PIPEN TOT LESS THAN 7" ABOVE THE ENTRYME PIPE THE PIPE TO THE TO A PIPEN TOT LESS THAN 7" ABOVE THE ENTRYME PIPE CONCENTRATION AT JOINT COLLARS OR BELLS. BEDDING DISTUREED BY PIPE WOYARTY OR BY FREMOVAL OF SHORM OF MOVEMENT OF THE RENORM SHIFT ON BEN SHARE COMPARING ON TO BACKFILL BEDDING TO BE COMPACTED TO SPRINCE.	TWE THE CUBB IS FLACED TO PERMANENTLY INDICATE THE LOCATION OF SAID LATERALS. 9. THE LOCATION OF ALL SEWER LATERALS MUST BE FROMDED ON THE AS-BUILT PLANS. 10. MANHOLE LATERALS SHALL HAVE AN INVERT TWO INCHES (2") ABOVE MAIN-LINE INVERT.	16. ALL MATERIALS USED SHALL BE DOMESTIC, MADE IN THE UNITED STATES OF AMERICA.		Conveger 2022, Indelit SMITH PURSHOR, Inc.
APPROVED/REVISED WARREN COUNTY STANDARD BETALS STANDARD NUMBER DEPARTMENT OF WATER & SEWER SG-1	APPROVED/REVISED WARREN COUNTY STANDARD LETALS STANDARD NUMBER MARCH, 2018 DEPARIMENT OF WATER & SEVER SG-2A	APPROVED/REMSED WARREN COUNTY STANDARD IETALS STANCARD NUMBER DEPARTMENT OF WATER & SEWER SG-2B	APPROVED/REVISED WARREN COLINTY STANDARD (ETALLS STANDARD NUMBER DEPARTMENT OF WATER & SEWER SG-3	
SEWER TESTING	GINERAL NOTES VICATO DI VICATO DI V	UNERFRANCIAL LITTLES. INCLUES AND ADDRESS OF	LO RALEMAN WEATHER THE COLOR AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS A	ZO
 THE CONTRACTOR MUST INSTALL MECHANICAL PLU(S) AT THE POINT(S) OF CONNECTION TO THE EXISTING SERVER PRIOR TO MITAINE ANY CONSTRUCTION THE EXISTANCE ALTERNATION OF A DATA AND ADDRESS TO A DATA AND ADDRESS TO A DATA EXISTANCE ALTERNATION AND ADDRESS AND ADDRESS TO RESERVE TO REVER WARREN COUNTY. THE MECHANICAL PLU(S) CAN ONLY BE REMOVED IN THE PRESENCE OF A MARREN COUNT SERVER INSPECTION. 	PRE-CONSTRUCTION METTING TOLCOWING THE CONSTRUCTION ADDRESS OF STARTING AND VARIES. THE CONTRACTOR ADD INS SUPRIMITING IN SHILL ADDRESS OF STARTING AND VARIES. THE CONTRACTOR ADD IS TO ROUVE AND MESTING THE ADD REGULATIONS CONTRACTOR ADDRESS OF STARTING AND VARIES. THE REGULATION AND RESTRICTIONS AND REGULATIONS CONTRACTOR ADDRESS OF STARTING REGULATION AND RESTRICTIONS AND REGULATIONS CONTRACTOR ADDRESS OF STARTING REGULATION AND RESTRICTIONS AND REGULATIONS CONTRACTOR ADDRESS OF STARTING REGULATIONS AND RESTRICTIONS AND REAL ADDRESS OF STARTING REGULATIONS AND REAL ADDRESS OF STARTING REAL ADDRESS OF STARTING REGULATIONS AND REAL ADDRESS OF STARTING REAL ADDRESS OF STAR	маление оп состате зами, не соответство то стали анистрати по состате выску. На состате зами, не соответство то состате, выску, на состате соответство на на состате за на состате, выску, на состате зами, не соответство то состате, выску, на состате соответство на на состате соответство на на состате, выску, на соответство на на состате соответство на состате, на состате, на по соответство на на состате соответство на состате, на состате соответство на состате на состате, на состате соответство на на состате, на состате соответство на на состате, на состате соответство на состате на состате соответство на состате, на состате соответство на на состате, на состате, на соответство на на состате, на состате, на соответство на соответство на на состате, на соответство на на состате, на на состате соответство на на состате, на состате, на соответство на на состате, на соответство на на состате, на состате, на состате, на на состате, на состате, на на состате, на состате, на на состате, на состате, на состате, на состате, на на состате, на на состате, на состате, на на состате, на состате, на на	IT, WALKS SIGN, VEGETADDA AND TRACKOS BANK, MOTOSTIMS AW NOTICAL SIGNAL AND TO STATE HACE, INLET PROTECTION, SEGMENT IN THE SHALL IN TRACKOS BANK, MOTOSTIMS AW NOTICAL SIGNAL AND THE SIGNAL AND THE SIGNAL AND THE SIGNAL AND THE ACCONSTRUCTION OF THE INCOMENT AND	ENSION
COUNT 18 WANHOLES SHALL BE VACUUM TESTED. & VACUUM OF 10° OF MERCURY SHALL BE DRAWN ON THE MANHOLE. FOR 4 4' MANHOLE LESS THAN 23' DEEP, MANHOLE SHALL HOLD 9° OF MERCURY FOR AT LESST 1 MINUS.	THE CONTINUE OF SHALL OF JANED AT HIS EVENSE. ANY AND ALL PERMITS AND INSPECTIONS THAT ARE REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. WHEN REMITTED IN W INSPECTIONS		A DIA- SET TROM CONSTRUCTION OPERATIONS SHALL NOT BE PREMITED TO EVITER STORM SEVER SYSTEMS. WHEN CONSTRUCTION OCCURSE NEAR STORM SEVERA SHALL NOT BE PREMITED TO EVITER STORM SEVER SYSTEMS. WHEN CONSTRUCTION OCCURSE NEAR STORM SEVERA SHALL NOT BE PREMITED TO EVITER STORM SEVERA SYSTEMS.	EXTI EXTI
 ALL SANITARY SEWER MAINS MUST BE AIR TESTED. THE STANDARD TEST IS AN AIR PRESSUR? TEST OF 5.0 PSI FOR A FIVE (5) MINUTE PERIOD WITH A MAXMUM OF 1.0 PSI LOSS. 	AVE BEEN PROVIDED.	STIME UTILIES SERVICE ALCIER COLLEGE NO. USED IN CHIEFE, GOLT IN INTEGE IP THE CITY AND THEN OUL ATTER SECONDALE IS INFORMATION IN THE INFORMATIO	CREASE, ON INOVERENDANDA S COMPTER COTTEMAND UNIT. THE SAME THE COTTEMAND UNIT. THE SAME CALL AND	│ O ~ ≧≚
4. ALL NON-TRUSS PIPE SHALL BE TSTEP FOR DEFLECTION AFTER BACKFLING IS CONFECTO (30 DAY NIMINA REQUIRED). A DEFLECTION TSTEP MAT A NINE POINT MANDREL, WILL BE REQUIRED. NO MECHANICAL PULLING DEVICE SHALL BE USED. A VENTOAL RING DEFLECTION DEGATER THAN FUE PERCENT (58) MUL. NO° BE ALLOWED. THIS DEFLECTION IS DEFINED AS A FIVE PERCENT FEDUCTION IN THE VERTICAL BASE OR NATINGE INSDE DIAMETER.	SUBSTITUTION OF ANATOMAS SMALL BE (DALO RE SUPERIOR TO THE TICKE SECTION IN THE CONTRACT DOCUMENTS AND ANALL BA PAPORDED THE CITY IN UNITIES AND DATATION ON THE RESIDUATION PLANS AND DESIGN. THE EXPERIES OF AUXIENT DATA SHALL BE PAR INFO IN THE CONTRACTOR AND ADDITIONAL COST TO THE TY.	N CONTRACTOR OF TO COMMENCING CONSTRUCTION OPERATIONS, THE CONTRACT AND A CONTRACT OF THE CONTRACT AND A CONTRACT OF THE CONTRACT OF THE PROPOSED SANITARY SEV CONTRACT AND A CONTRACT OF THE	THE CONTRACTOR JUDG WITH THE CITY SHULL MAKE AN INSPECTION OF ALL DRIVEN SEVERS WHICH MAY BE AFFECTED BY THE WORK, THE CONTINUON OF THE BUSTING STORM SEVERS PIPE AND STRUCTURES SHALL BE DETERMINED FROM HELD DESRIVATIONS, RECORDS OF THE INSPECTION, WHICH SHALL INCLUDE WITTEND OCCUMENTATION AND HEND DESRIVATIONS, THE CONTINUES AND SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO THE OPTION SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO THE OPTION SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO THE OPTION SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO THE OPTION SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO THE OPTION SHALL INCLUDE WITTEND OCCUMENTATION AND HEND STRUCTURES TO AND	
OR VERAGE INSIDE DAMETER. 6. AT HE-ME THE SAMITARY SERVER IS TESTED, THE SEWER MUST BE CLEANED AND TELEVISED WITH MOED DOCUMENTATION (WO) PROVIDED TO WARREN COUNTY. THE VIDEO MIST INCLUDE AUDIO DENTIFICATION OF PILY SPANS FROM WARHAE TO MANHAE, FLOW DIRECTION, TILT AND PAN OF ALL INTERAS AND GALIO AT ANY SUPPECT PROBLEMS IN THE STRIEM. ALL PROBLEMS MUST BE DORITIRED BY THE 		DB TO THE INVOLVED THE CONTINUE OF THE CONTRACTOR OF THE CONTRACT	IU THE CITY.	
CONTRACTOR, THE NECESSARY REPAIRS MUST BE MADE AND THE SEWER MUST THEN BE RE-C FANED, RE-TESTED AND RE-TELEVISED.	EXTING FACILITIES T STALLE BIT HE EVONSEILUT OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTINGY ANY DESTITION ACCURTS WOTTO ANY DO NOT ODELLING" HIS MARKEN NOT TO DAMAGE ON DESTINGY ANY DESTITION ACCURTS WOTTO ANY DO NOT ODELLING. HIS MARKEN NOT TO DAMAGE ON DESTINGY ANY DESTING IN ACCURTS WOTTO ANY DO NOT ODELLING. HIS MARKEN NOT TO DAMAGE ON DESTINGY ANY DESTING IN ACCURTS WOTTO ANY DATA ON ANY DESTING HIS DATA DESTINGY ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTINGY ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTING ANY DESTING ANY DESTING ANY DESTING HIS DATA DESTING ANY DESTI	GAS SANCUT FROR TO EXAMPLE DURE EVENDY DURE EVENDY DURE EVENDY NO 7745 KAST REPER ROAD 745 KAST REPER ROAD	ANILLI NI HE RUBARSI CUNING. A INFURMATION OF ONE LAKE OF RAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITY. A INFURMATION OF ONE LAKE OF RAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITY. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.	
6. A SECON VIDEO INSPECTION IS REQUIRED ONE YEAR AFTER INSTALLATION AND/OR PRIOR TO THE RELEASE OF THE MAINTENANCE BOND. IF A DEFICIENCY IS IDENTIFIED DURING THIS TELEVISED INSPECTION, THE FALLED SURCE PREVIDENCE THE DAND REPARED TO THE SATISFACTION OF THE COUNTY SANITARY ENGINEER.	DVAANINATION OF THE SITE THE CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALLCAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIAL CONTRACTOR STRALL SPECIAL	S12-827-1101 THE REP ACHAINST SICTIONS FOR BILL PARTS, STREETS AND IDE MR. JOINN PROFEITT SUBT CLA. THE LAVIOUR AND GRADING OF THE REV PARTS THAT CONDITIONS UNLESS NOTED OTHERWISE ON THE PLANS OR IN TH CAULT THE DRYNN	T SHALL MATCH THE EXISTING DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL ADVANCE TRAFFIC SIGNAGE, INCLUDING CONSTRUCTION WORK TRAFFIC CONTROL DEVICES. ALL ADVANCE TRAFFIC SIGNAGE, INCLUDING CONSTRUCTION WORK ZONE APPROXIMATION DARRICADES REQUIRED FOR THIS PROJECT SHALL BE FURNISHED, BRECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE	
 THE DEVILOPER SHALL BE RESPONSIBLE FOR ALL JOSTS ASSOCIATED WITH THE THE TELEMSING, TESTING AND REPAIRS OF THE SANITARY SEWER. 	CONSTRUCTION LIMITS THE CONSTRUCTION STALL RESTRUCT ALL OF HS ACTIVITIES, EQUIPMENT STORAGE, AND STAGING WITHIN VIE CONSTRUCTION LIMITS, WILLES OTHERWISE DRIVERED IN THE PLANS, THE CONSTRUCTION LIMITS THE CONSTRUCTION LIMITS, WILLES OTHERWISE DRIVER DRIVER DRIVER DRIVER DRIVER DRIVER DRIVER DRIVER DRIVER DRIVER THE CONSTRUCTION LIMITS, WILLISS OTHERWISE DRIVER	11222 COMELLPAR DRIVE STEDIOR AND MULCIPING SHALL POLICIVITIE MATERIAL AND USE SHALL P	STALLIO RE RECEIPTING ET IM ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CONSTRUCTION AND ADD METRIAS SPECIFICATIONS SA AND DIRER APPLICATE PORTION OF THE SPECIFICATIONS AND ADD ADD METRIAS SPECIFICATIONS AND ADD ADD ADD ADD ADD ADD ADD ADD ADD	
	In THE CONTRACTOR WARES TO USE ANY MARA DUTISOFT THESE LUNCES SUBJECT TO BE UNDER SUBJECT AND A DUTISOFT THE AND A DUTISOFT AN	201 DAST FOURTH STREET, ROOM 103 S065 CINCINART, OH 45202 S13-566-7043 IF NOT 20 & GRADED OR REWORKED FOR 45 DAYS C S13-566-7043 IF NO FUTTHER CONSTRUCTION IS TO OCCUR IN THE AREA, THEN		• • •
	PRIOR TO THE REGUNDED OF VIOLET, THE CONTRACTOR AND THESE SUFFICIENT AT A CONTRACTOR STATE OF THE MONOTONE AND THE CONTRACTOR AND THE SUFFICIENT AND RECORD ALL BUSINES THE CONTRACTORS BOTH WITHIN AND OUTSIDE THE CONTRACTOR AND THE SUFFICIENT AND RECORD ALL BUSINES SHALE IS A REPORT AND RECORD ALL BUSINES SHALE IS A REPORT AND REPORT AND RECORD ALL BUSINES SHALE IS A REPORT AND REPORT AND RECORD ALL BUSINES SHALE IS A REPORT AND REPORT A	406 JUSTICE DRIVE CONSTRUCTION LIMITS. SEEDING AND MULCHING, TOPSOIL AND 5065 LEBANON, OH 45036 OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE DONE AT NO 1 513-9695-1377		BLIC
APPROVED/REVISED WARREN COUNTY STANDARD RETAILS STANDARD NUMBER DEPARTMENT OF WATER & SEWER SG-4	NOP A LODG LODG IN THAT LETURE MANAGEMENT AND	B 1525 MSOM WARROW-MILGROVE ROAD THE GEOTECHNICAL ENGINEER UNDER CONTRACT WITH THE CIT LEBANON, CH 45036 THE CONTINGENCY QUANTITIES HAVE BEEN INCLUDED TO BE US 513-494-3266 THE CONTINGENCY QUANTITIES HAVE BEEN INCLUDED TO BE US	SED AS DIRECTED BY THE CITY.	PU
	RELOCATION OF UTILITY	THE CONTRACTOR SHALL CONDUCT HIS OPERATOR SOLUTION THE PLANE OF ARE LOCATED SUBING THE CONTRACTOR SHALL CONDUCT HIS OPERATOR SOLUTION TO THE CONTRACTOR SHALL CONDUCT HIS OPERATOR SHALL HIS		Sheet Title
		MANY. ALL DEDTES SAULE BAUMTAINED AND LET IN A DO LET	CIN THE COONTINUE RELATIVISH REAM CONTINUE TO IT IS ALLY AND THE ALL ALLY AND THE	NOTES Project Number 06308.12
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OHIO SCENIC RIVERS PROGRAM GENERALIZED UNDERGROUND UTILITY LINE AND PIPELINE CROSSING CONDITIONS FOR STATE WILD, SCENIC AND RECREATIONAL RIVERS

THESE CONDITIONS SHOULD BE INCORPORATED INTO THE GENERAL NOTES OF THE PROJECT PLAN SET. THESE CONDITIONS SHOULD BE IMPLEMENTED BEFORE EARTHWORK COMMENCES AND ADHERED TO FOR THE DURATION OF THE PROJECT

1. PROJECT DESIGN

WILEYS COMPRED OF PREDOMINATELY UNCOMED/DATED GLACUL AMTERIAL SINGHCAME ETHALY SUBJECTIVEL TO ACCUTS BEDEVICTORY OF A STREAM CROSSING THAT ARE COMPLETED TROUGH DRECTORY OF THE STATE SECOND END THE 100 VERT ROOGHD RECTORY OF THE STATE SECOND END THE 100 VERT ROOGHD RECTORY OF THE STATE SECOND END END OF THE SECOND END OF THE STATE SECOND END OF THE SECONTE SECOND END OF THE STATE SECOND END OF THE SECOND THE BOUNDARY OF THE ION FAR THEODOR INTO AND SECONTED SECOND END OF THE STATE SECOND END OF THE SECOND END ENDER OF THE SECOND END OF THE STATE STOLD BE PROTECTED WITH A THEOD FILL SECOND END OF THE SECOND END OF THE SECOND END OF THE SECOND AND SECOND END ENDER OF THE SECOND END OF THE SECOND AND SEEDED AND MULCHED WITHIN TWO DAYS FOLLOWED THE SHOULD BE PROTECTED WITHIN THE DODEN SECOND END ADD SEEDED AND MULCHED WITHIN TWO DAYS FOLLOWED THE SHOULD BE SECOND END OF THE SECOND OF THE TA MO OTHER SECONDER AND END OF THE SECOND AND DE RECURDED ADD SEEDED AND MULCHED WITHIN TWO DAYS FOLLOWED THE SHOULD BE SECOND AND THE SECOND OF THE TA MO OTHER SECOND END OF THE SECOND OF THE TA MO OTHER SECOND END OF THE SECOND OF THE TA MO OTHER SECOND END OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE SECOND OF THE TA MO OTHER SECOND OF THE SECOND OF THE

INMANGENS. C, STREAM CROSSINGS OF INTERMITTENT/EPHEMERAL TRIBUTARIES (NON-BORING): WHERE THE TRENCH CROSSES A STREAM WITH A SOLID OR LAYERED ROCK BOTTOM, THE CONTRACTOR SHOULD SAW CUT THE TRENCH EDGES TO A MINIMUM DEPTH OF 4 INCHES. THE TRENCH TRENCH EDGES TO A MINIMUM DEPTH OF 4 INCHES, THE TRENCH SHOULD BE BACKFILLED WITH CONCRETE ENCASEMENT AS INDICATED IN THE STREAM CROSSING DETAIL ON THE APPROVED PLANS, THE CONTRACTOR SHOULD ALSO PROVIDE NECESSARY MEANS TO PREVENT FRACTURING OF THE BEDROCK DUE TO EQUIPMENT CROSSINGS.

DIN-STREAM WORK AND OPEN TRENCH STREAM CROSSINGS STREAM CROSSINGS SHOLD BE CONSTRUCTED DURING DRY PERIDOS OR PERIDOS OF EXTERIENT YOU PROVINGUEST I THRONG COTORER 31 STREADE CROSSINGS BROWD NOT BE THRONG PARAMETER CROSSING AREA SHOULD DE DE CONSTRUCTION MATTICE CROSSING AREA SHOULD DE CONDUCTED IMMEDITATIV COMMETTION OF THE STREAM CROSSING. 30D OR ERCIDIO CONTROL MATTING SHOULD BE UTILEZO TO STRAELLE STREAM BARKS AT RESTREAM ELEVATIONS SHOLD BE DE CROSSING CARDENTERY UPON COMMETTION OF THE STREAM CROSSING. 30D OR ERCIDIO CONTROL MATTING SHOULD BE UTILEZO DE STREAM CROSSING. 30D OR ERCIDIO CONTROL MATTING SHOULD BE UTILEZO DE STREAM CROSSING. 30D OR ERCIDIO COMMETTION SHOLD BE DETENNIONE DESTREAM DERVISIONES OF DE DESTREAM DE DESTREAM DE RESTREAM CROSSING. 30D OR ERCIDIO NO RESTREAM ELEVANOS BESTREAM CROSSING. 30D OR ERCIDIO RESTREAM ELEVANOS BESTREAM RESTREAM CROSSING SONO RESTREAM DE CONSTRUCTION RESTREAM ELEVANOS BESTREAM RESTREAM RESTREAM

2. DIRECTIONAL DRILL BEST MANAGEMENT PRACTICES

WORK HOURS: THE DRILLING OPERATION WILL BE DURING DAYLIGHT HOURS IN ORDER TO FACILITATE MONITORING OF FRAC-OUTS IN THE STATE SCENIC RIVER AND SURROUNDING AREAS.

B OPERATION: THE DRILLING OPERATOR MUST USE THE MINIMAL AMOUNT OF PRESSURE OR GALLONS PER MINUTE OF DRILLING FLUID NECESSARY FOR THE DRILLING. TO HELP REDUCE THE PROBABILITY OF FRAC-OUTS.

C.INSPECTION: DURING THE OPERATION, THE DRILLING CREW MUST MONITOR THE STATE SCENIC RIVER FOR ANY FRAC-OUTS, THE RIVER SHOULD BE INSPECTED EVERY HALF HOUR AND THE TIME RECORDED IN A LOGBOOK THAT CAN BE REVIEWED BY OTHER INSPECTORS.

3. BEST MANAGEMENT PRACTICES ASTORM WATER POLLUTION PREVENTION PLAN (SWPPP): A NOTICE OF INTENT (NO), MUST BE SUBMITTED TO OBTAN COVERAGE UNDER A GENERAL STORMWATEN PERMIT. IF THE PROJECT WILL RESULT IN A LAND DISTURBANCE GREATER THAN ONE ACRE. THE MON MUST BE

GRAVELED TO PREVENT EGOSION FROM SUPPACE RUNOFF. C. CATORAGE OF YELLS, PETEOCHEMICALS AND COLUMNATIONS EDUPANT, PETEOCHEMICALS AND TOXIC/IMAARBOUT MATERIALS WAYS BITCHES OF STRAMS THAT COLLD CONVEY SUCH MATERIALS TO STATE SCENIC RUPERS OR ANY OF THEIR TRBUTARES. TO STATE SCENIC RUPERS OR ANY OF THEIR TRBUTARES. DECLANAGE NOT ANY TATE SAUCH CHILD AND THAT RUDONALING CONVEY DECLANAGE IN COMPANY DRAINAGE WINS, DITCHES OR STREAMS, REFUGLING OF THEIR THBUTARY DRAINAGE WINS, DITCHES OR STREAMS, REFUGLING OF THEIR THBUTARY DRAINAGE WINS, DITCHES OR STREAMS, NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES OR STREAMS.

NERA ANY TRIDUTARY DRAINAGE WAYS, DITCHES OR STREAMS. D.SRILL PREVENTION: THE PRIMITEE SHOULD DEVELOP A SPLL PREVENTION COUNTEMBLASURE AND CONTINUENCY PLAN (SPCC) IN THE PREVENT A SPLL OR PREVENT IN AN EXPLOSIBLE THORAULC LINE; DEPORTED TO THE OHIO SPLL LINE (1-800-282-9378) IN ACCORDANCE WITH OAC 3750,60.

The section of the termination of the section of th

GEQUIPMENT CROSSING: ALL EQUIPMENT CROSSINGS SHOULD BE CONSTRUCTED WITH WASHED OF NON-ERODISLE FILL A MINIMUM OF THREE NO-HES IN CLAMETER, EQUIPMENT OR VEHICLE CROSSING OF ALL STREAMS WITHOUT THE USE OF A STABILIZED NON-ERODIBLE CROSSING WILL BE FROMHITED.

4. MOTERCATION: THE APPROPRIATE REGIONAL SCENC RIVER MANAGER SHOLD BE INVITED TO A PRE-CONSTRUCTION INSETING WITH THE CONTINUCTOR NEESEN AND BE CONTRECOT FOR TOTAL OF CONTINUCTOR NEESEN AND BE CONTINUED OF MORE REPORT ONE WEEK PRORE TO THE COMMERCIANT OF WORK PREDICE NEEK PRODUCENTS ARE BEING WAT. THE APPROPRIATE REGIONAL SCENCE RIVERS MANAGER SHOLD ALSO BE CONTACTED DWE WEEK PROR TO COMPLETION OF THE PROJECT OCOMULAT EMPLOYALE THE INAUL STEE INSECTION SHOLD ALSO BE SCHEDULED WHILE THE CONTINUEND OF THE PROJECT OCOMULAT AND ALS RESPECTION. THE FINAUL STEE INSECTION SHOLD ALSO BE CONTACTED DWE WEEK PROR TO COMPLETION OF THE PROJECT OCOMULAT AND ALS RESPECTION. THE FINAUL STEE INSECTION SHOLD ALSO BE CONTACTED DWE WEEK PROR TO CONTACTOR TO BE PRESENT TO DRAVER THAT FUNAULE THE STABILIZATION. HAS BEEN ACHIEVED

THE FOLLOWING

- THE CONSTRUCTION CLEARING LIMIT SIXULD BE AS NARROW AS POSSIBLE OF PROCINCIALS EXPENDED AND ADDRESS AND ADDRESS AND ADDRESS AND CLEARING LIMIT IN THE REPARIENT AREA OF NO MORE THAN 20 FETT IS USUALLY APPROPRIATE. FOR ALL SANTAY SEVERS RUNNON FAMALLE TO THE STREAM POSSIBLE. THE CLEARING LIMIT MUST BE CLEARLY SHOWN ON THE DETAILED PLANS.
- b. THE CONSTRUCTION OF THE STREAM CROSSING SHOULD BE COMPLETED AS SOON AS POSSIBLE BUT SHOULD NOT EXCEED MORE THAN
- THE MATERIAL REMOVED FROM THE TRENCH EXCAVATION SHOULD BE STORED OUTSIDE OF THE RIPARIAN AREA. THIS AREA SHOULD BE ENCLOSED BY A SILTATION FENCE.
- TREES WITHIN THE RIPARIAN AREA SHOULD AVOIDED AS MUCH AS POSSIBLE. OLDER TREES ALONG THE STREAM SHOULD BE GIVEN THE GREATEST LEVEL OF PROTECTION POSSIBLE. IN THE EVENT THAT A TREE MUST BE REMOVED SO THAT THE SEWERS CAN BE CONSTRUCTED. THE TREE SHOULD BE EITHER CUT AT THE GROUPD ON TO 2 FEET ADADOT THE GROUPD SO THAT THE GROUP CAN SO IS 10 THAT THE SEWERS CAN BE CONSTRUCTED. MAINTAINED AND THAT THE TREE MAY REGROW AFTER THE PROJECT. ALL OTHER VEGETATION IN THE RIPARIAN AREA SHOULD BE CUT AT THE GROUND SURFACE.
- 6. COFFER DAMS SHOULD BE USED TO BYPASS THE TRENCH EXCAVATION DURING THE CONSTRUCTION OF THE STREAM CROSSING.
- FINAL BANK STABILIZATION SHOULD BE COMPLETED IMMEDIATELY AFTER COMPLETION OF THE STREAM CROSSING. THE BANK STABILIZATION METHOD SHOULD BE CLARLY INCIGATED ALONG WITH THE TIME FRAME FOR THE COMPLETION OF THE METHOD. IN MOST CASES, THE STREAM ROAKSING. STABILIZED WITH NOR BOAY OF OWNETION OF THE STREAM ROAKSING.

STREAM CROSSING DETAILS - CONTINUE

- THE TYPE OF BACKFLL FOR THE STREAM TRENCH CROSSING SHOULD BE CLEARLY INKORTED. IN THE FIRST THAT BEDROCK IS ENCOUNTERED CREAT ON IS STREAM TO THE ATTACH THAT BEDROCK IS ENCOUNTERED CREATE ONE IS STREAM THAT AND A THAT AND A THAT AND A THAT AND A THAT NOT IS STREAM THAT AND A THAT AND A THAT AND A THAT AND A THAT TO COMPLETE HE REMAINS DACKFLL OFFERTRAIN. MP FAR MAY ALSO BE UEED AS A THAT COURT IN AREAS WHERE THE NATIVE SOLLS CONSIST OF GLACIEL CONTRAINT MICHAN.
- h. THE STOCKPILE LOCATIONS FOR THE PIPE BEDDING MATERIAL AND THE BACKFILL MATERIAL SHOULD BE SHOWN ON THE DETAILED PLANS. THIS AREA SHOULD BE LOCATED OUTSPEC OF THE RIPARIAN AREA.
- ANY LOCATIONS WHERE EQUIPMENT WILL CROSS THE STREAM SHOULD HAVE A TEMPORARY STREAM CROSSINGS CONSTRUCTOR. CONSTRUCTION EQUIPMENT CROSSINGS SHOULD CAVE BE LOB WHEN THERE IN O OTHER FRASHLE MORTIGAL CRO STRUCTORY WHERE THE MY NOT BE PRACTICABLE. TOO TWICE TO CONSTRUCT AS TREAM CROSSING WHEN IF IS MON WHIS IS COMMON US UNION THERE TRUNKS REMOVED FROM OTHER LOCATIONS OF THE PRACTICABLE. TOO TWICE THE STREAM CRO STRUMENT WHEN IS COMMON US UNION THERE TRUNKS REMOVED FROM OTHER LOCATIONS OF THE PRACTICABLE. TOO TWICE THE STREAM CRO STREAM CROSSING COLVERT IN THE STREAM WITH BACK FILL PLACE ON TOP OF IT. THE PROPOSED EQUIPMENT CROSSING LOCATIONS SHOULD BE STROMO ON THE PLACE.
- ALL TRENCH DEWATERING SHALL BE PASSED THRONGH A SEDILET IMPOUNDMENT STROTTINE, ACQUATE GUTLET FOTOETON WAST BE PROVIDED FOR EACH IMPOUNDMENT. IF ANY GROUNDWATER DEWATERING STULID DOCUM, THE CONTRACTOR SHALL CONTACT THE CHIO DEPARTMENT OF INSTALLATION AND ASNOONMENT OF WELLS, THE CONTRACTOR SHALL NOT NESTLATION AND ASNOONMENT OF WELLS, THE CONTRACTOR SHALL NOT WATER.
- k. SILT FENCING SHOULD BE PROVIDED DOWN GRADIENT FROM ANY EARTH MOVING ACTIVITIES IN THE RIPARIAN AREA WITH STEEP SLOPE.
- I. ONCE THESE EARTH MOVING ACTIVITIES ARE COMPLETED IN THE RIPARIAN ONCE THESE FAITH MONING ACTIVITIES ARE COMPLETED IN THE BRANCH MULCIED AS REQUIRE FOR THE PERMANENT STABLETZION AND TEMPORARY STABLIZATION REQUIRE FOR THE PERMANENT STABLEZTION AND TEMPORARY STABLIZATION REQUIRE FOR THE PERMANENT STABLESE & ADMEST TOTAL DESTURIES AND AND ADMEST AND ADMEST ADMESTICATION AND TEMPORARY STABLIZATION REQUIRE FOR THE PERMANENT STABLESE & ADMEST TOTAL DESTURIES AND ADMEST ADMESTICATION ADMESTICATION AND TEMPORARY TEMPORARY AND ADMESTICATION ADMESTICATION ADMESTICATION AND DESTURIES ADMESTICATION ADMESTICATION ADMESTICATION ADMESTICATION DESTURIES ADMESTICATION ADMESTICATION ADMESTICATION ADMESTICATION DESTURIES ADMESTICATION ADMENSION ADMESTICATION ADMESTICATION DESTURIES ADMESTICATION ADMENSION ADMESTICATION ADMESTICATION DESTURIES ADMESTICATION ADMESTICATION ADMESTICATION ADMESTICATION DESTURIES ADMENSION ADMENSION ADMESTICATION ADMESTICATION ADMESTICATION DESTURIES ADMESTICATION ADMESTICATION ADMESTICATION ADMESTICATION DESTURIES ADMENSION ADMENSION ADMENSION ADMENSION ADMENSIONALIZATION ADMESTICATION DESTURIES ADMENSIONALIZATION ADMESTICATION ADMENSIONALIZATION ADMENSIONALIZATION DESTURIES ADMENSIONALIZATION ADMENSIONALIZATION ADMENSIONALIZATION ADMENSIONALIZATION ADMENSIONALIZATION ADMENSIONALIZATION DESTURIES ADMENSIONALIZATIONALIZIALUZIATIONALIZIALUZIALUZIATIONALIZIALUZILIALUZIALUZILLA ADMESTICALIZATIONALIZIALUZIALUZIALUZIALUZILIALUZ
- m. IN THE EVENT THAT MORE THAN 3 STREAM CROSSINGS PER MILE ARE PROPOSED AS PART OF THIS PROJECT, A 401 CERTIFICATION MILL BE REQUIRED BY THE OHIO EPA DOW. FOR EWH, VOH, AND DSWA WAY STREAM CROSSING WOULD ALSO REQUIRE THIS CERTIFICATION, PLEASE CONTACT LAURIE MOORE WITH OUESTIONS ADOLT THIS REQUERTMENT,
- POR PROJECTS IN COMING CONSTITUCTION OR JACEMENT OF FILLIN & STREAM FOR PROJECTS IN COMING CONSTITUCTION OR TO ADDRESS OF THE THE THE LGL ARMY COPES OF ENGLERES FOR A DETERMINATION REGACING OFTENTIAL IMPACTS TO WATER OF THE STATE AS VERY LAS THE RECOMPENENTS FOR DETANING JF INCESSARY CERTIFICATION. THE APPLICATE SMALL RECEDED, DEFORT IN MATTER OF THE STATE AS VERY CONSTITUCTED RECEDED, INFORMATION ANY WATERS OF THE STATE AS A VERY OF THIS PROJECT. THESE RECURRENTS MAY BE RECURRED FOR THE RAPORT STREAM (ROSSIONS AND FOR ANY SMATLARY SEXTER CONSTITUCTED IN A

THESE DETAILS SHOULD BE CLEARLY SHOWN ON THE DETAILED PLANS. FINALLY, THE DISTANCE FROM THE STREAMS THAT CONSTITUTES THE RIPARIAN AREA MUST ALSO BE CLEARLY SHOWN ON THE DETAILED PLANS.

- FORCE MAIN NOTES REQUIREMENTS OF THE WARREN COUNTY SEWER AND I OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCT
- THE FORCE MAIN PIPE MATERIAL SHALL BE DUCTILE IRON, CLASS 56 DESIGNED IN ACCORDANCE WITH ANSI/AWWA CLS0/21:50 AND MANUFACTURED PER ANSI/AWWA CLS1/21:51. FLANGED PIPI THE FORCE MAIN PRE MATERIA, ANL, BE DUTTLE FORC, CLOSS SID DESIDERED IN ACCORDANCE DAMAS AND METERIC ADMANDED AND ADMANDED AND ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ANA ADMANTE CONTINUE PRE ANGLARMANE CELTYZELES. L'ADMANDE PRE ADMANDED 2014. RODORED ANA ADMANTE CONTINUE PRE ANGLARMANE CELTYZELES. 2014. RODORED ANA ADMANTE ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED ADMANDED 2014. RODORED ADMANDED ADMANDED ADMANDED AD

- MECHANICAL, JOINT FITTINGS SHALL ETHER BE STANDARD FITTINGS PER ANS/AWWA C110/A21.10 OR COMPACT FITTINGS FIR ANS/AWWA C133/A21.53. FUNCED FITTINGS SHALL BE PER ANS/AWWA C110/A21.10. ALI FITTINGS SHALL BE CLASS 250. THE COATING AND THE LINING OF THE FITTINGS SHALL BE THE SAME AS THE PIPE.
- 4. THE JOINTS SHALL BE AS FOLLOWS FOR BOTH PIPE AND FITTINGS: HE LOWES SHALL BE A FOLLOWS FOR BUTH PIPE AND HITMOS. PUDH ONE JOINT AND BUBBER GASET SHALL MET ANGUMANTACTIJ/AZI.11. MICHANGLAT, DNY AND BUBBER GASET SHALL MET ANGUMANTACTIJ/AZI.11. MICHANGLAT, DNY AND BUBBER GASET SHALL MET ANGUMANTACTIJ/AZI.11. MICHANGLAT, DNY AND BUBBER GASET SHALL MET ANGUMANTACTIJ/AZI.11. TANDES SHALL MANTA HANGUMANTACTIJ/AZI.11. HITMODIO PHYLINGAR SHALL MET ANGUMANTACTIJ/AZI.11. MICHANGLAT SHALL MET ANGUMANTACTIJ/AZI.11. MICHANGLATINA HITMOTIAN SHALL MET ANGUMANTACTIJAN HITMOTIAN SHALL MET ANGUMANTACTIJAN SHALLAN HITMOTIAN SHALAN HITMOTIAN SHALLAN HITMOTIAN SHALLAN HI

5 REDDING AND RACKELL FOR THE FORCE MAIN SHALL BE PER COUNTY DETAILS ON SHEET C21

- ALL DUCTLE FROM PRE SHALL BE WRAPPED WITH TUBE STYLE 8-MIL LINEAR LOW DRNSTY POXITYNINE (LUPE) HILLMADE FROM WIBEIN MATERIAL (NO RECYCLE MATERIAL) IN ACCORDANCE WITH MASKIWAYA COCIALS. PROVIDE BACK FILM WTH HOMMAL SC KARBOD BLACK WI HINIBITOR AND PRATTD FRI THE MASKIWAYA CLOB/A21 STANDARD. PROCEDUJE INCLUDING TAMAR SHALL BY PLA NAZAWAYA CLOB/A21 STANDARD. PROCEDUJE INCLUDING TAMAR SHALL BY PLA NAZAWAYA CLOB/A21 STANDARD. PROCEDUJE
- THRUST BLOCKS AND RESTRAINING JOINTS SHALL BE USED AT ALL FITTINGS (BENDS, TEES, REDUCERS ETC.). DETAILS FOR THRUST BLOCKS ARE FOUND ON SHEET C23 AND DETAILS FOR RESTRAINING JOINTS ARE FOUND ON SHEET C21.
- APPROVED AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS AS SHOWN ON THE PLANE IF A HIGH POINT IS INADVERTINITY CERATED, THE PIPE MAY BE LITHER BEMOVED AND REPLACED OR. IF THE OWNER APPROVES, MAIN REPLEASE VALVE WAY BE INSTALLED. IN EITHER CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADDITIONAL EXPENSE.
- PROVIDE AT LEAST 10 FEET HORIZONTAL SEPARATION (BARREL TO BARREL) BETWEEN FORCE MAINS AND WATER MANS, INCLUDING WATER SERVICE LINES, PROVIDE AT LEAST 18 INCHES VERTICAL SEPARATION (BARREL TO BARREL) BETWEEN FORCE MAINS AND WATER MAINS, INCLUDING WATER SERVICE LINES AND FIRE LINES.
- 10. A HOROSTATIC PRESSURE TEST AT ISO PS FOR AT LEAST 2 HOURS SHALL BE PERFORMED ACCORDANCE WITH THE INFORMATIC TESTING REQUEREMENTS OF NUMAL GEO ON ALL NAME. THE HERSURE ROOM SMORTHAN SPEN IT ALONG ROOT LAAVAGE OF CONTENT FOR ALL ON THE ACCOUNT AND A THE PROBLEM AND RETEST AT NO ADONTONAL COST OWNER.

- SANITARY SEWER NOTES

 I. SANITARY SEWER (6" AND IST I AND LATERALS SHALL BE POLYNIN'L CHLORIDE (IPVC) PIPE AND SHALL BE SIN 20 FER AND TIMO STI AND LATERALS SHALL BE PVC, SIN 76 FER ASTM D3034. IDMNS FOR PIPE AND HTTINGS SHALL BE PER ASTM D3212 WITH ELASTOMERIC GASKETS PER ASTM F477.
- 18" SANITARY SEWER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE AND SHALL BE SDR 26 PER ASTM F677 FITTINGS SHALL BE PVC, SDR 26 PER ASTM F679. JOINTS FOR PIPE AND FITTINGS SHALL BE PER ASTM D3121 WITH LIASTDMFRIDE CASKETS PER ASTM F673.
- 4. ALL MANHOLES SHALL BE PRECAST CONCRETE MANHOLES PER STANDARD DETAILS-1 ON SHEET C20
- SEWER AND MANHOLE TESTING SHALL BE PER STANDARD DETAIL SG. 4 ON SHEET C1. IF TESTING RESULTS IN REPAIRS BEING MADE TO THE SEWERS AND/OR MANHOLES, THE COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

)R EXTENSION LEBANON OHIO CORRIDOF SY SEWER E of south Leban N county, ohio ANITARY SITE VILLAGE OF SURVEY RIVER ΗH Ś PUBLIC

	NOTES
Project Number	06308.12
Drawing Scale	N/A
Sheet Number	C2
File Number	06308

Sheet Title

McGill Smith Punshor attoo park 42 pairs

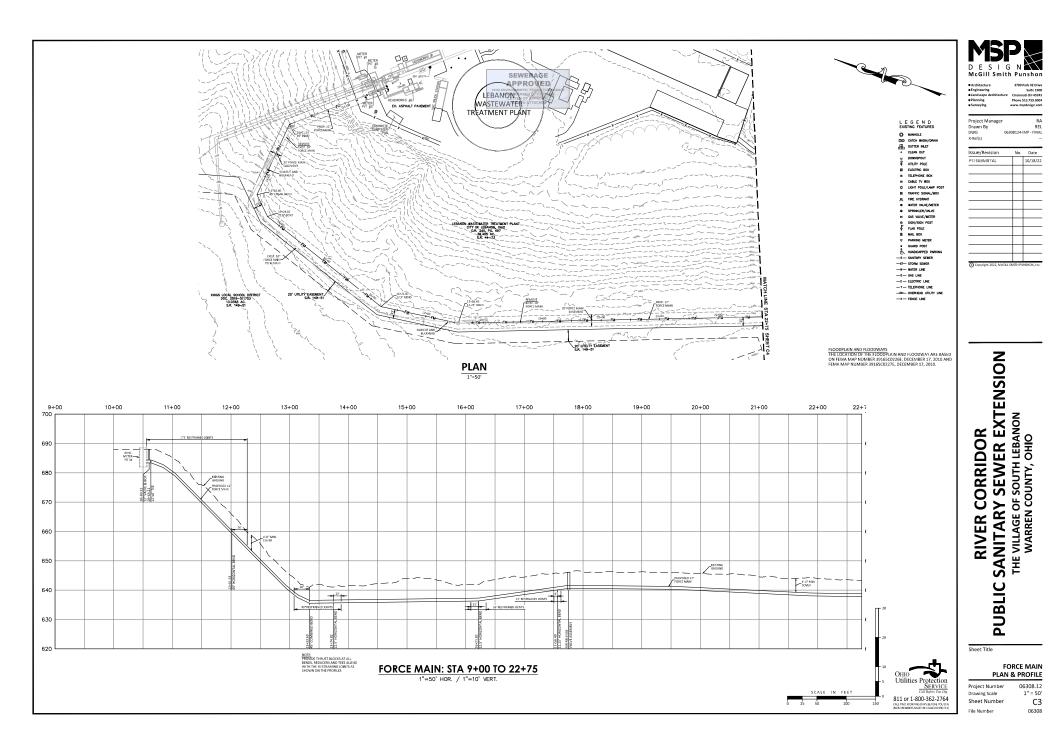
> Suite 190 Cincinnati OH 45241 Phone 513.759.0004 www.mspdesign.com

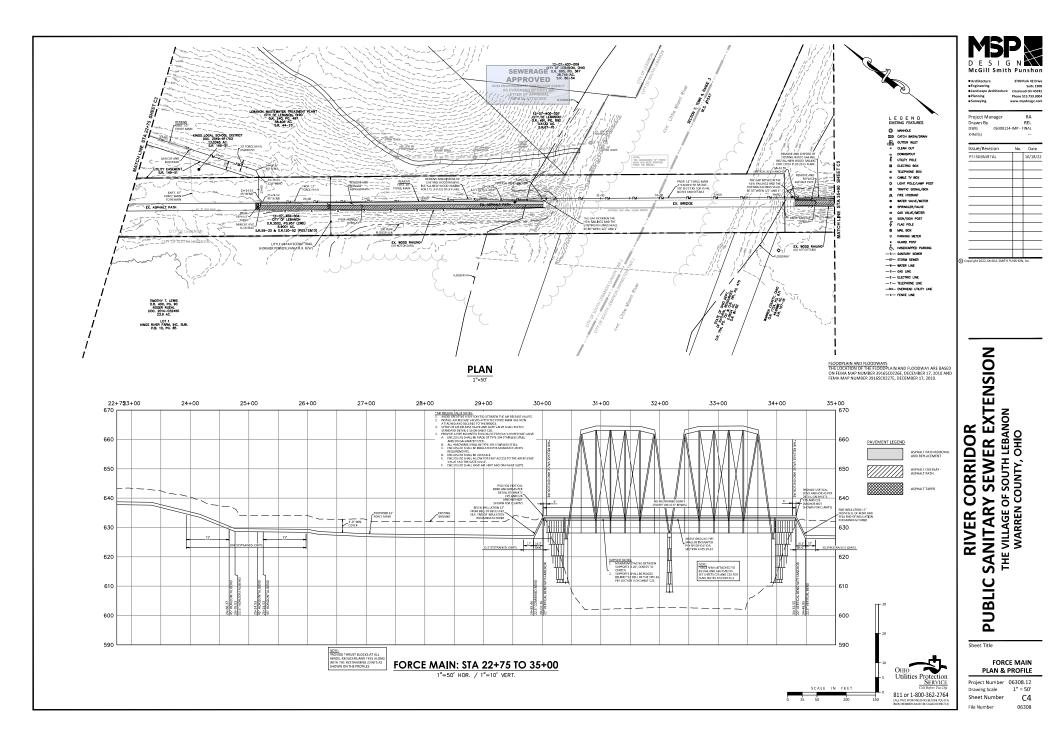
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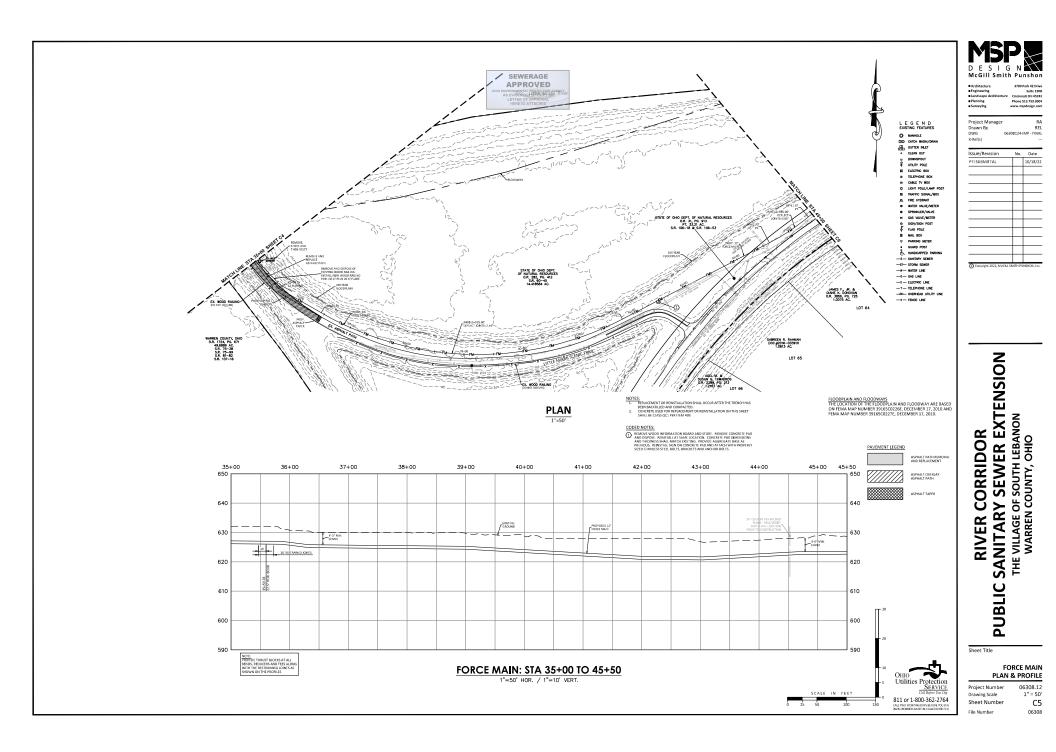
Issue/Revision PTI SUBMITTAL

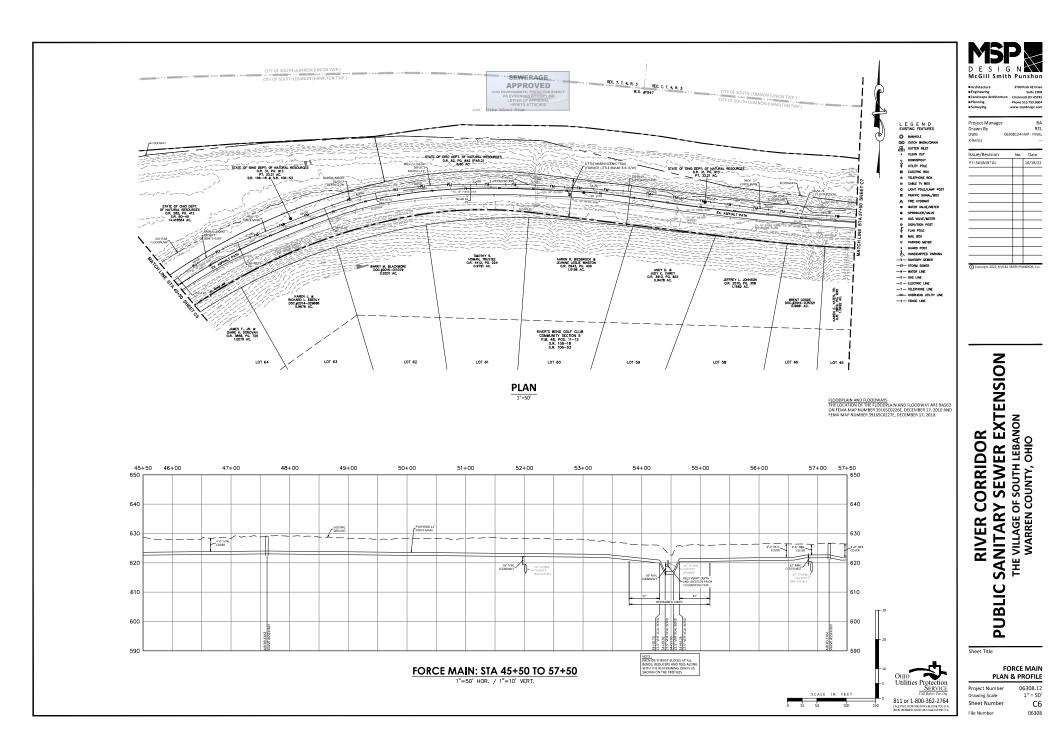
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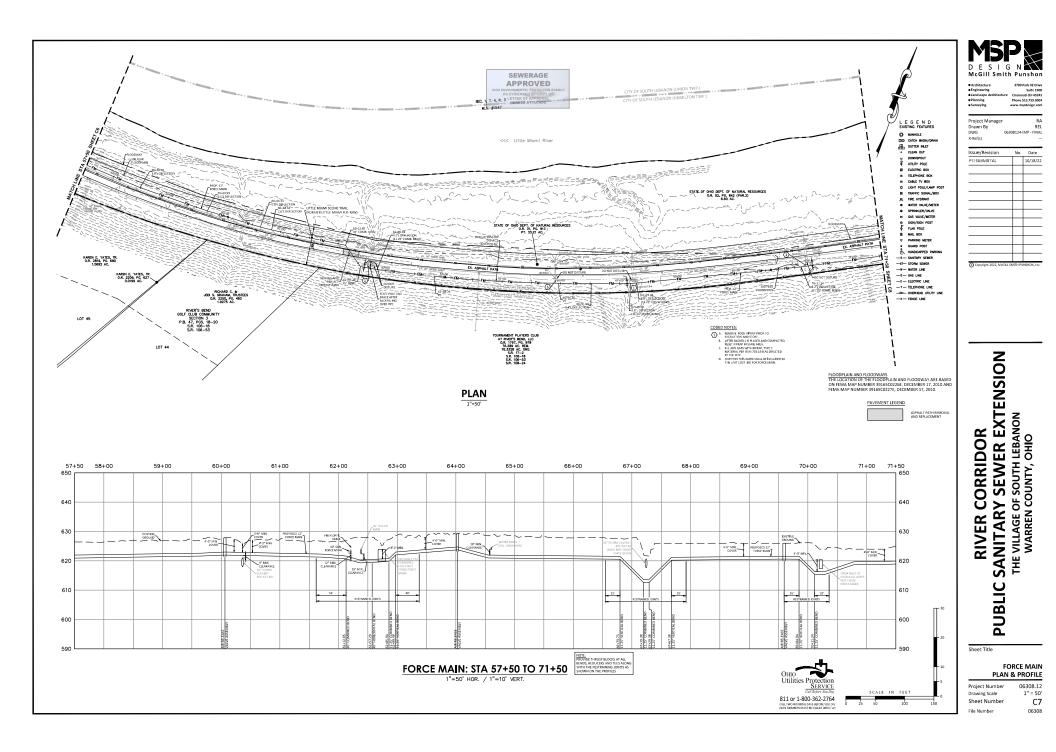
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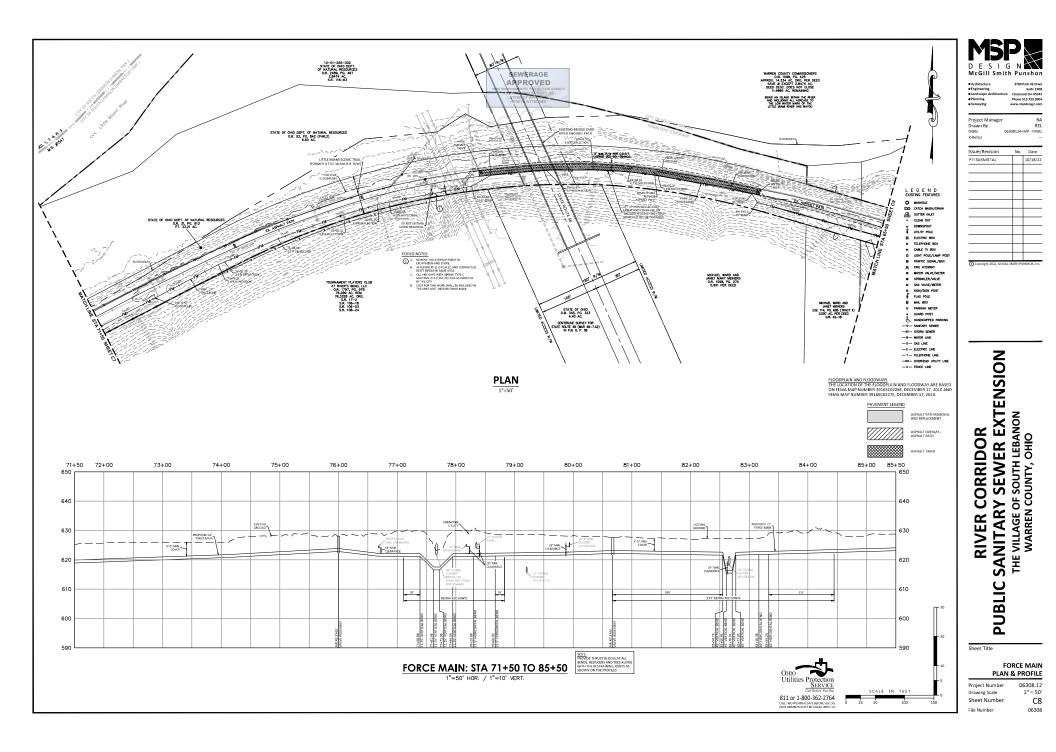


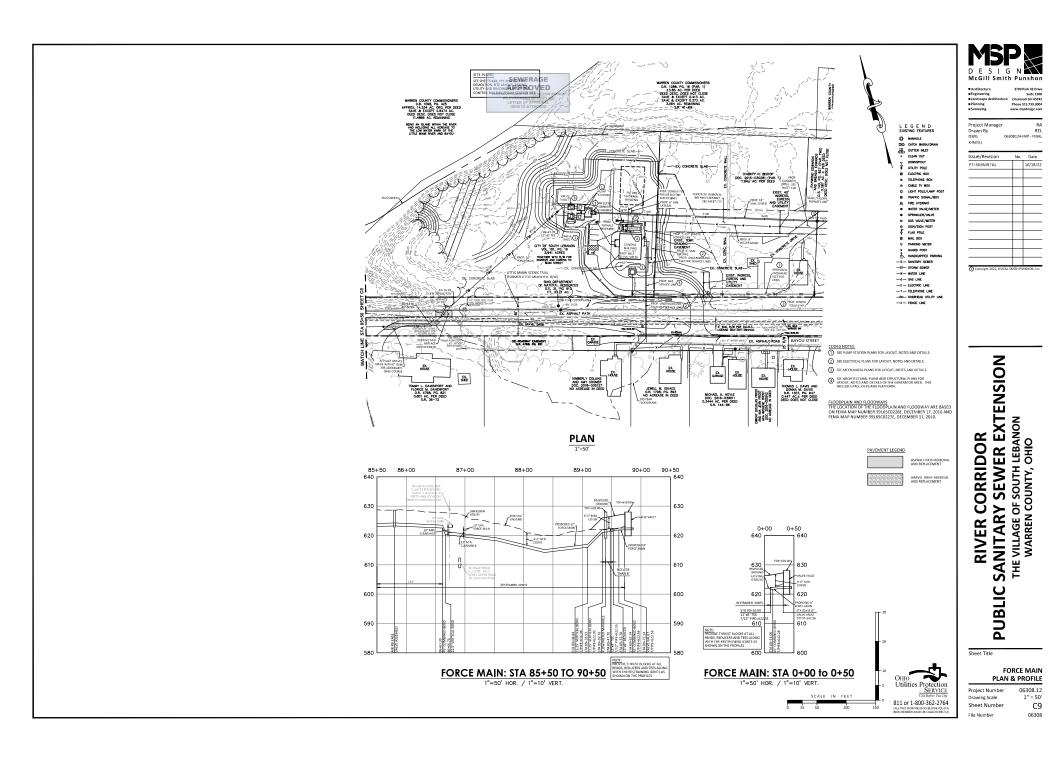


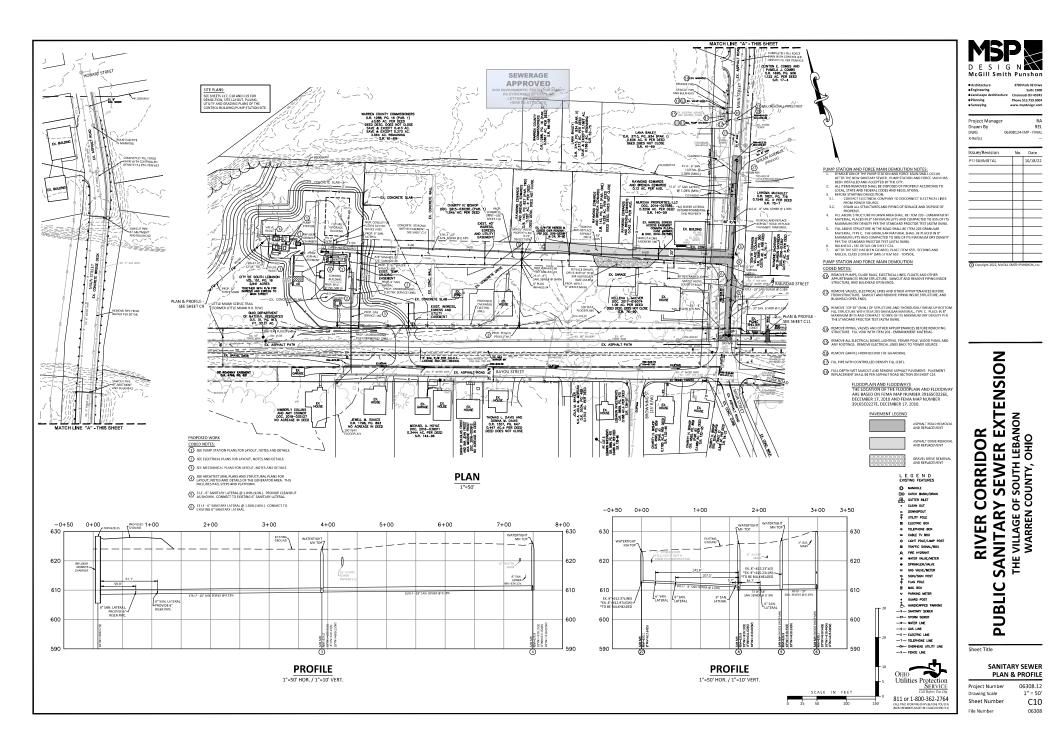


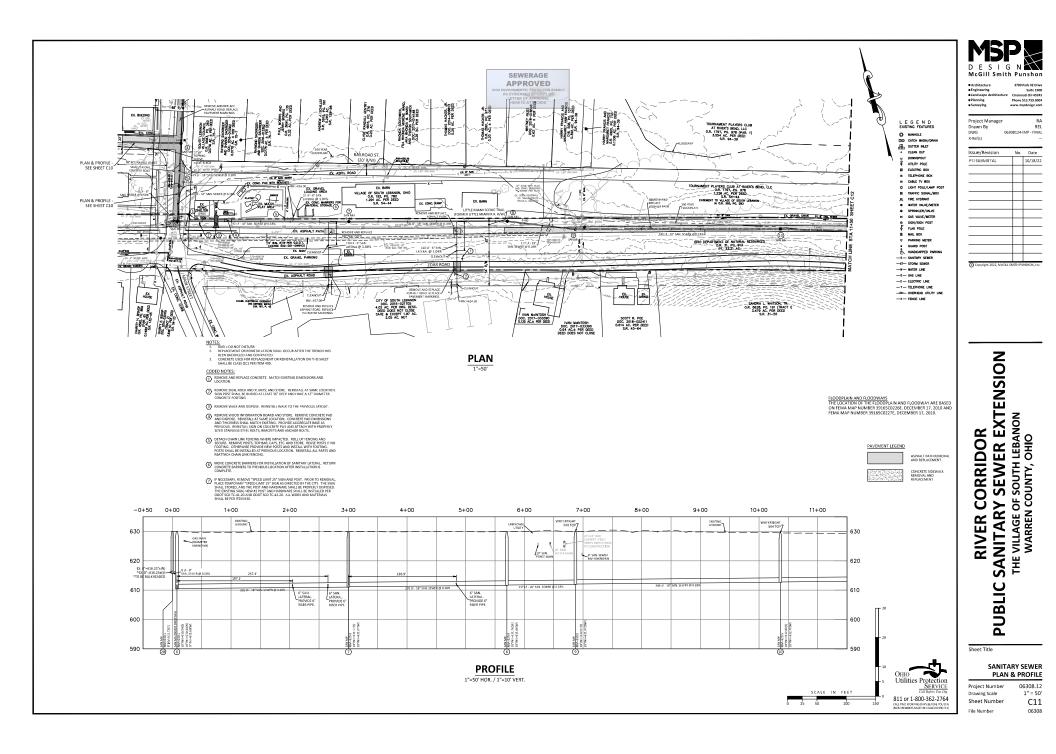


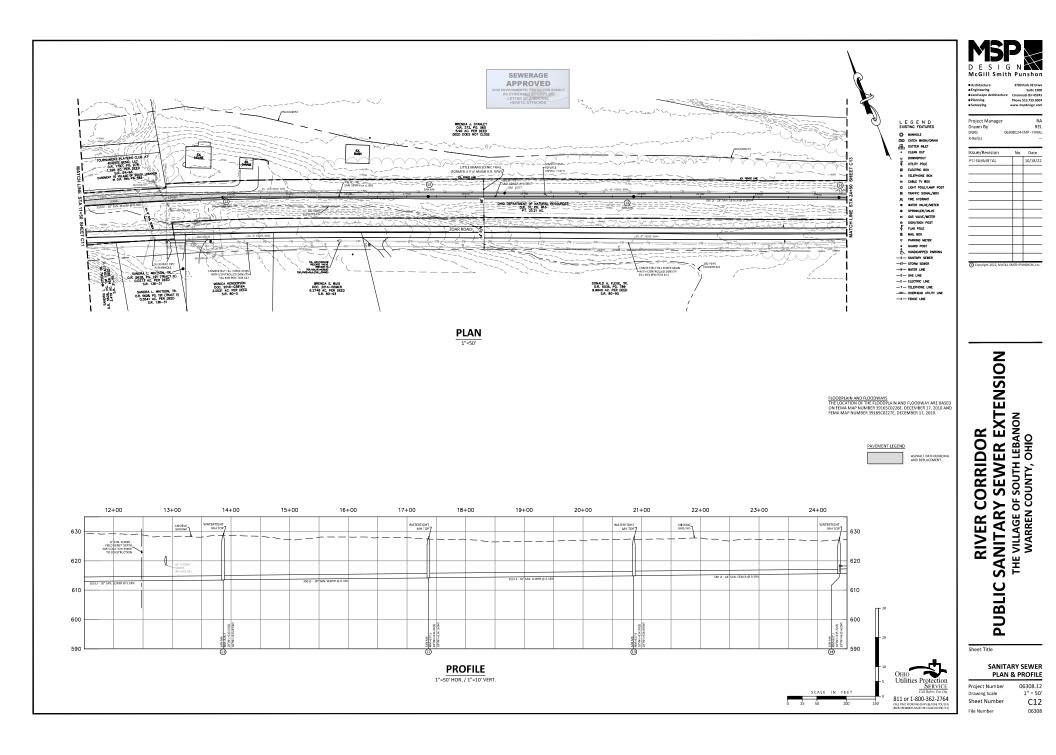


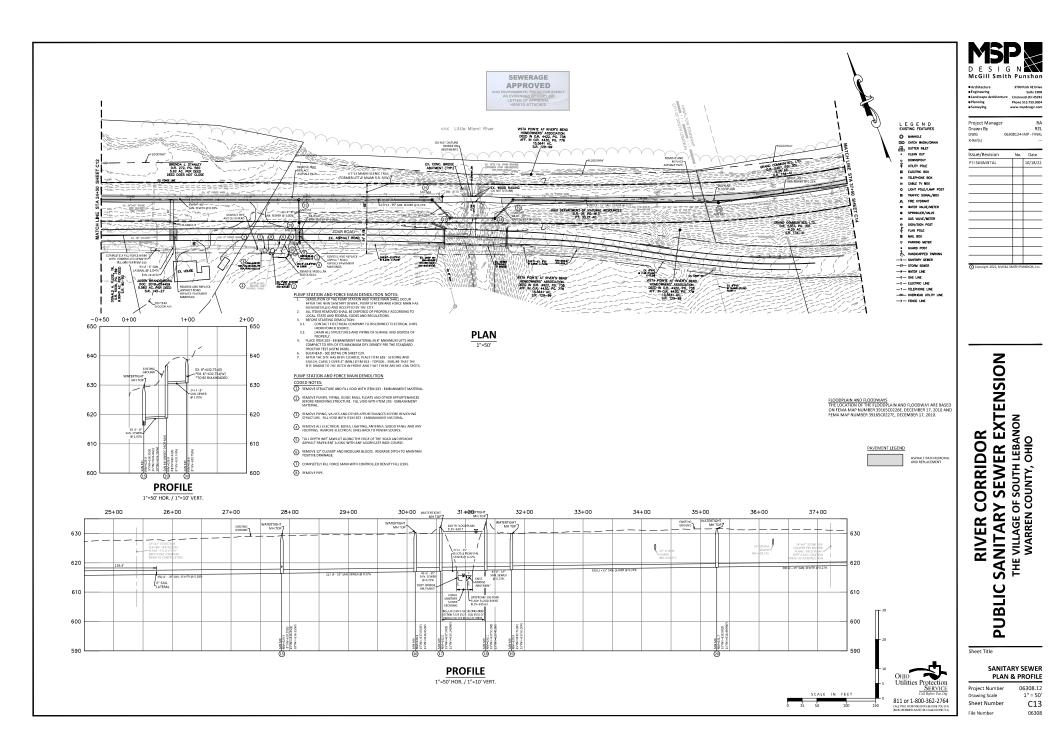


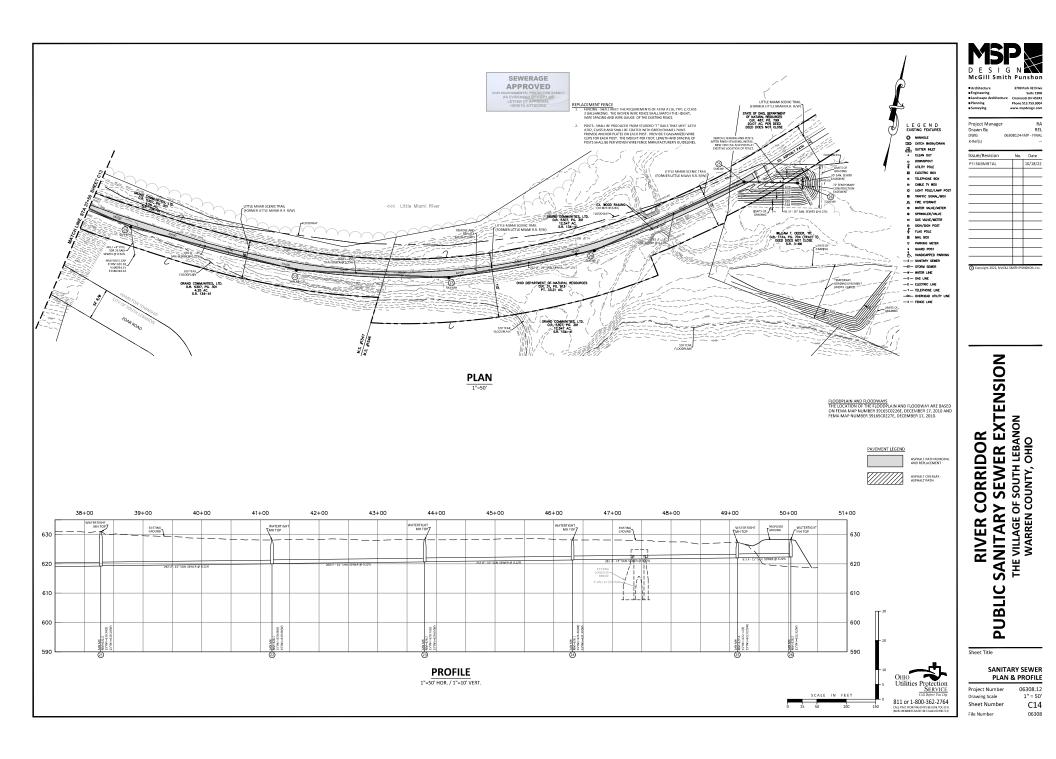


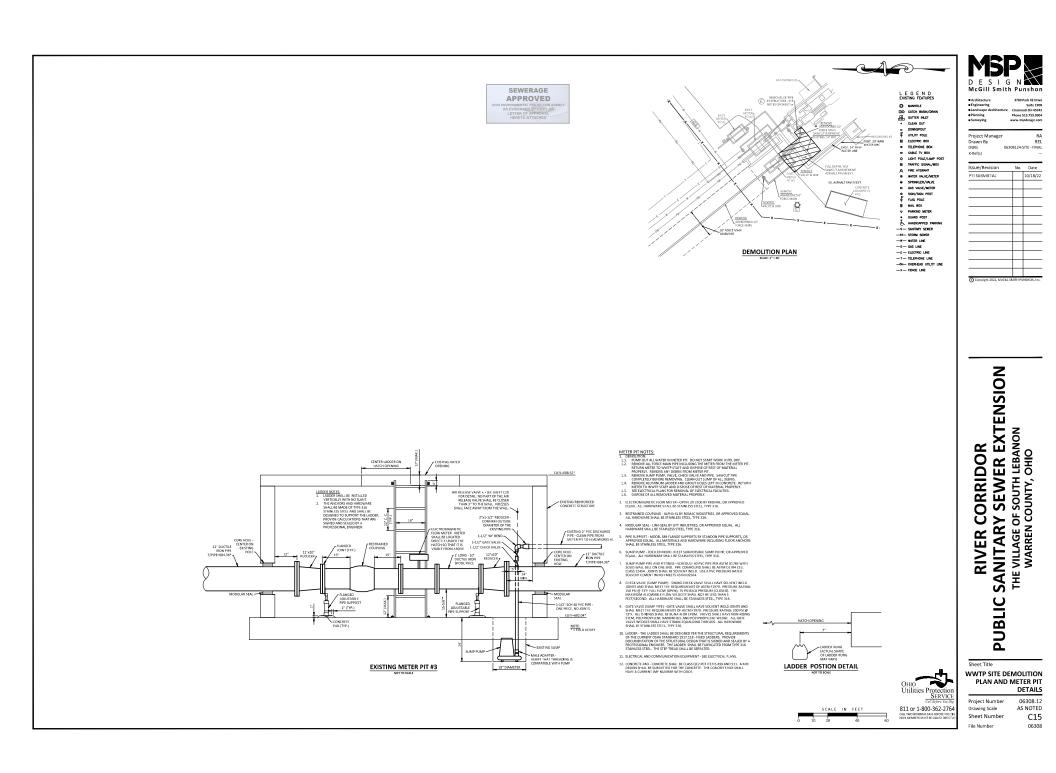


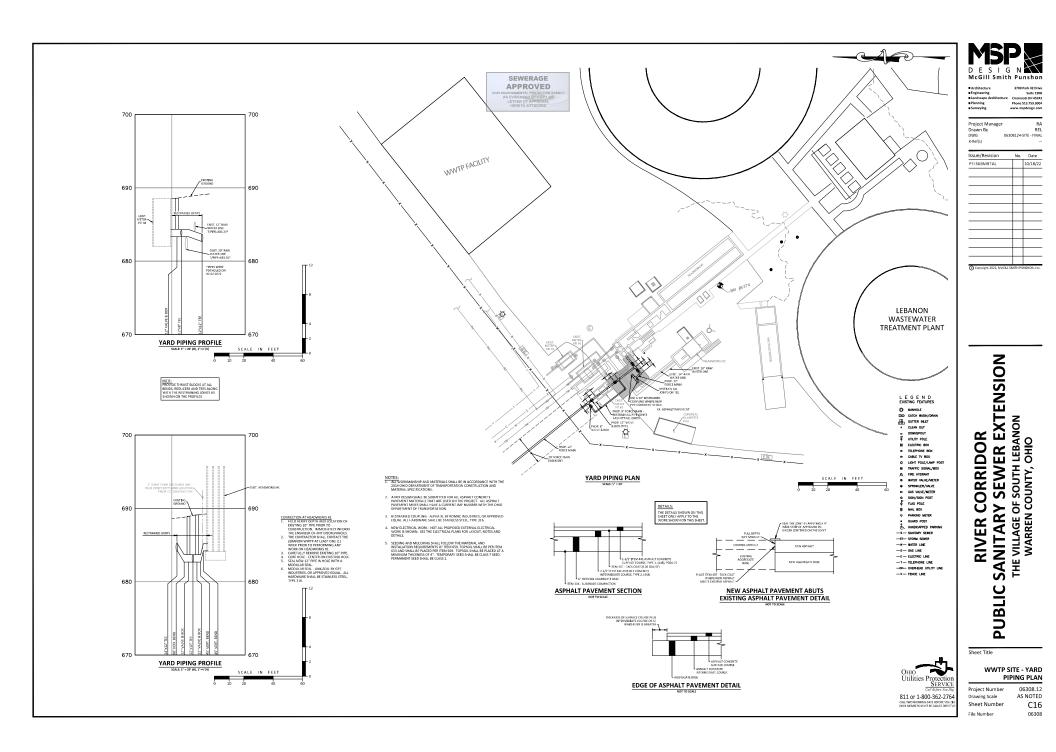


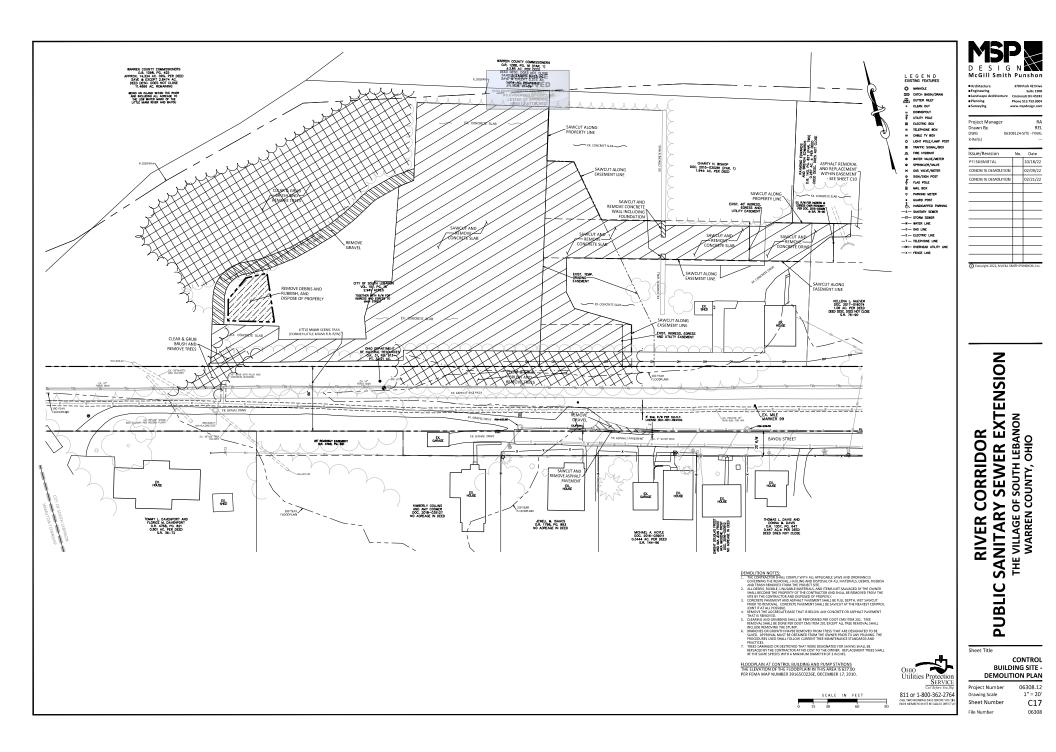


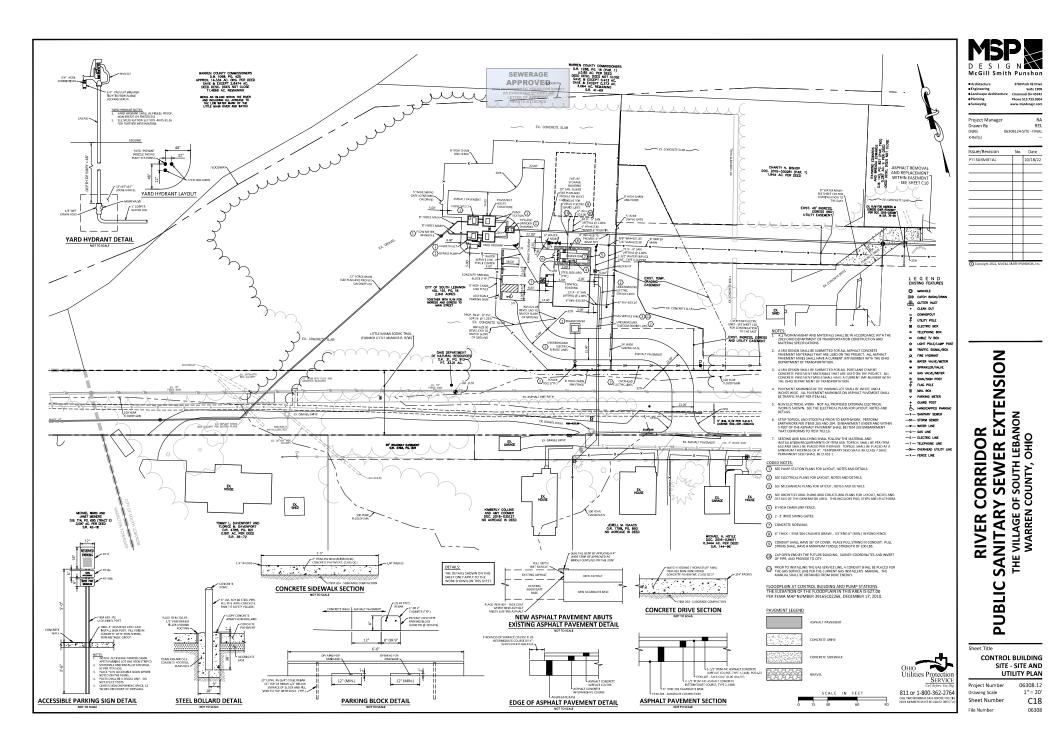


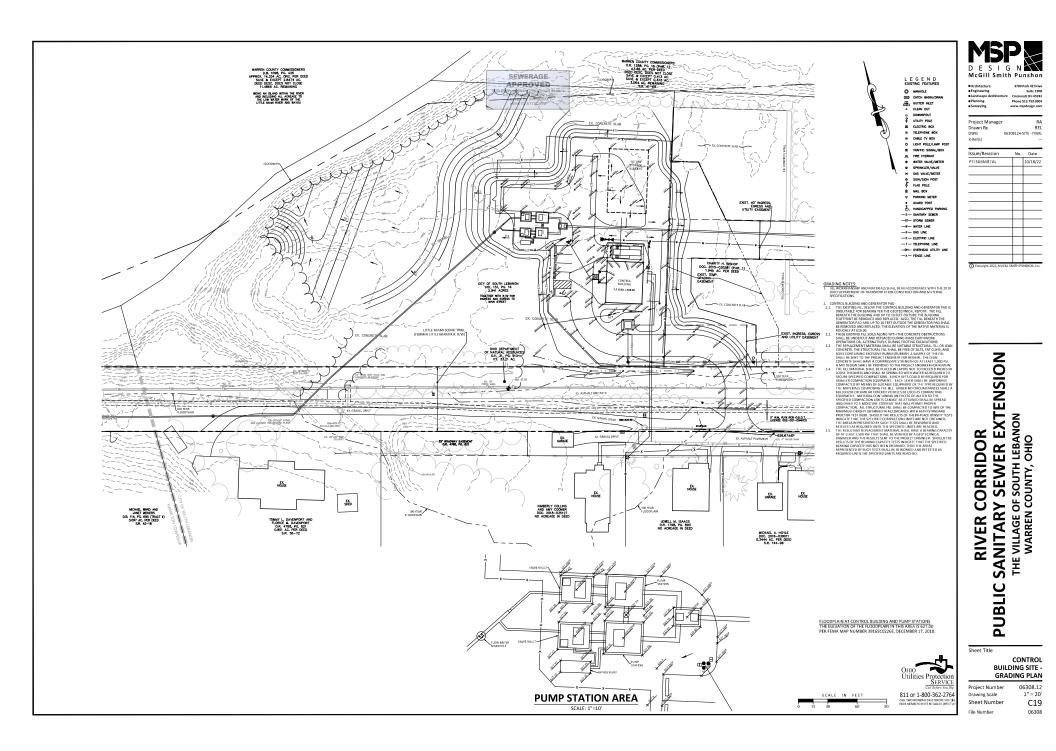


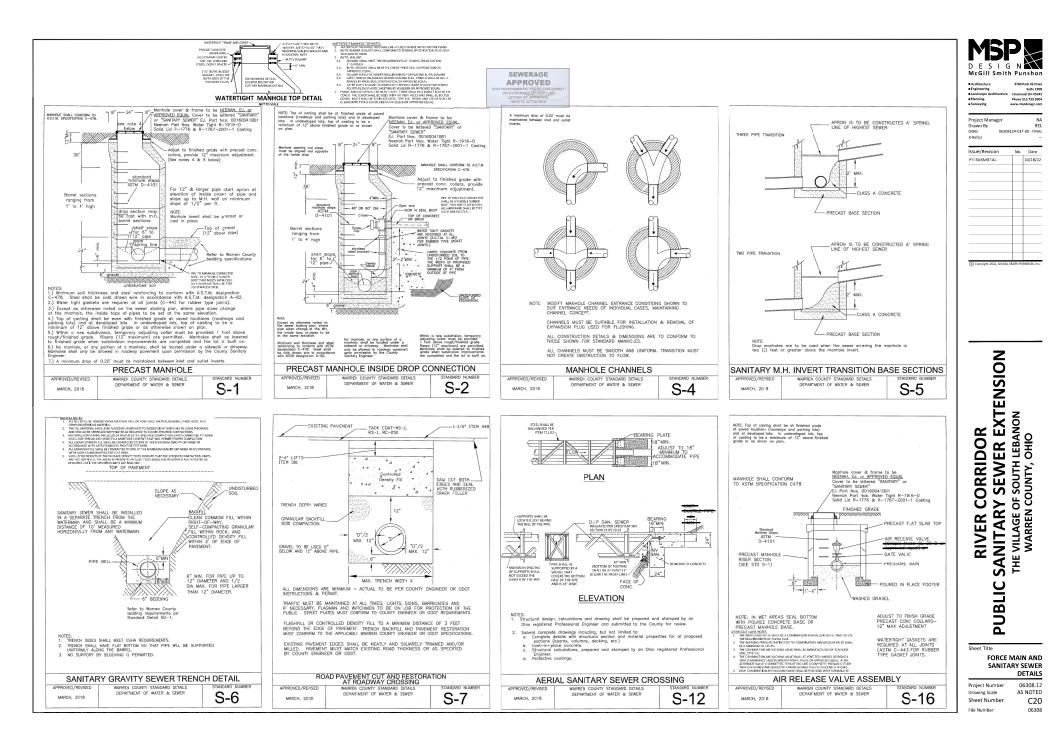


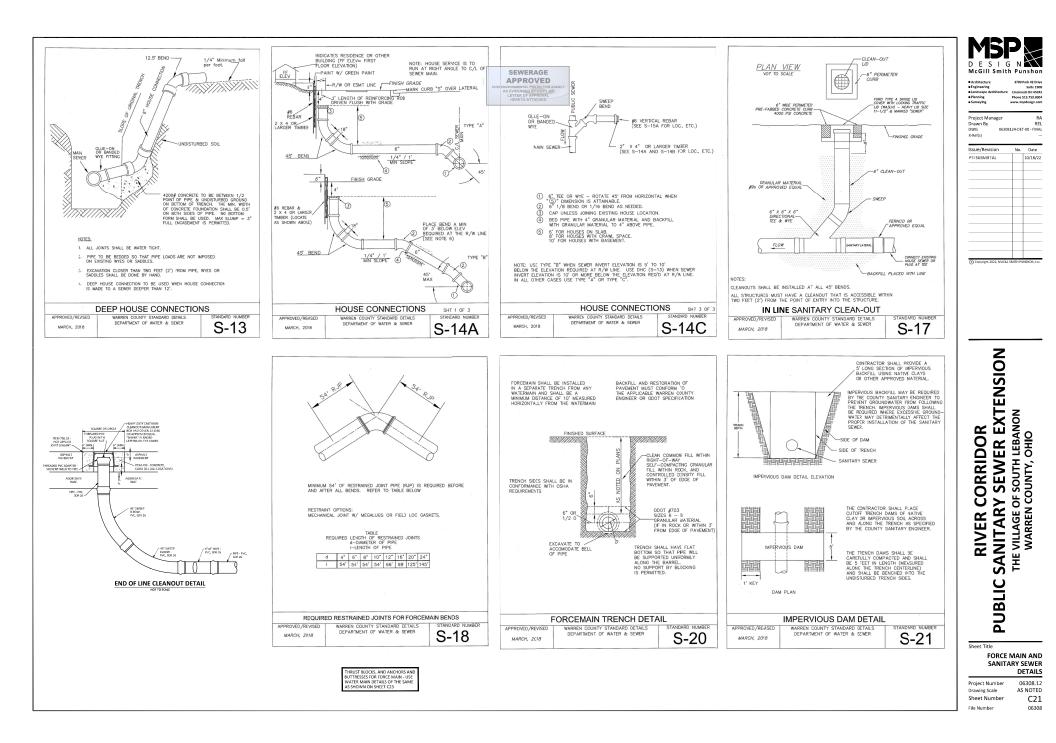


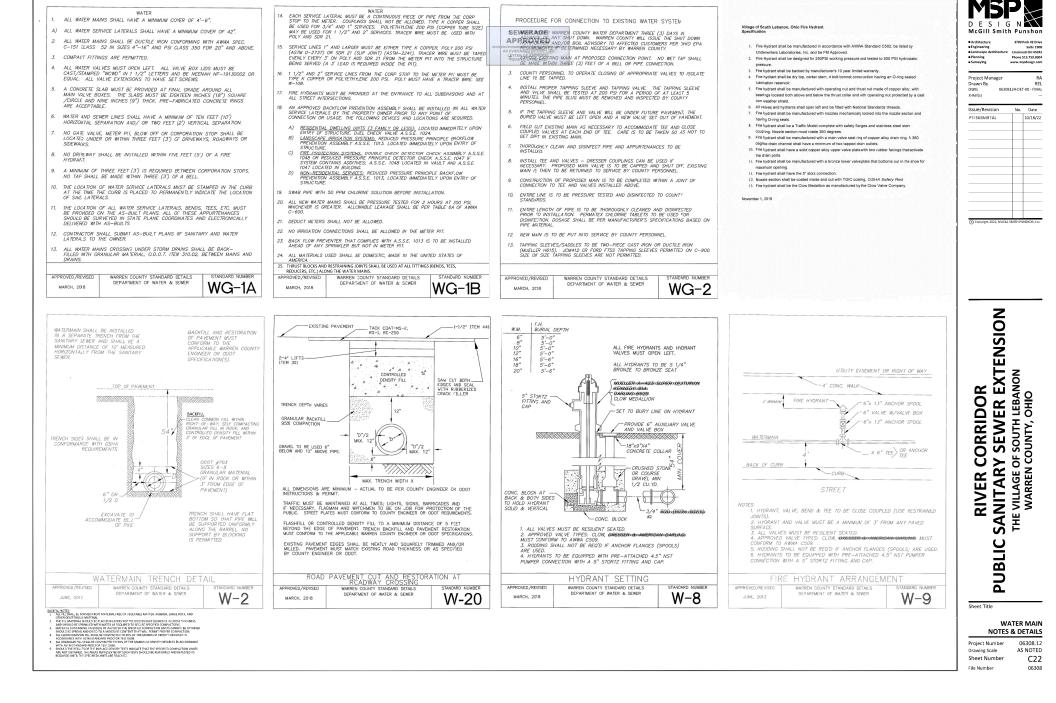


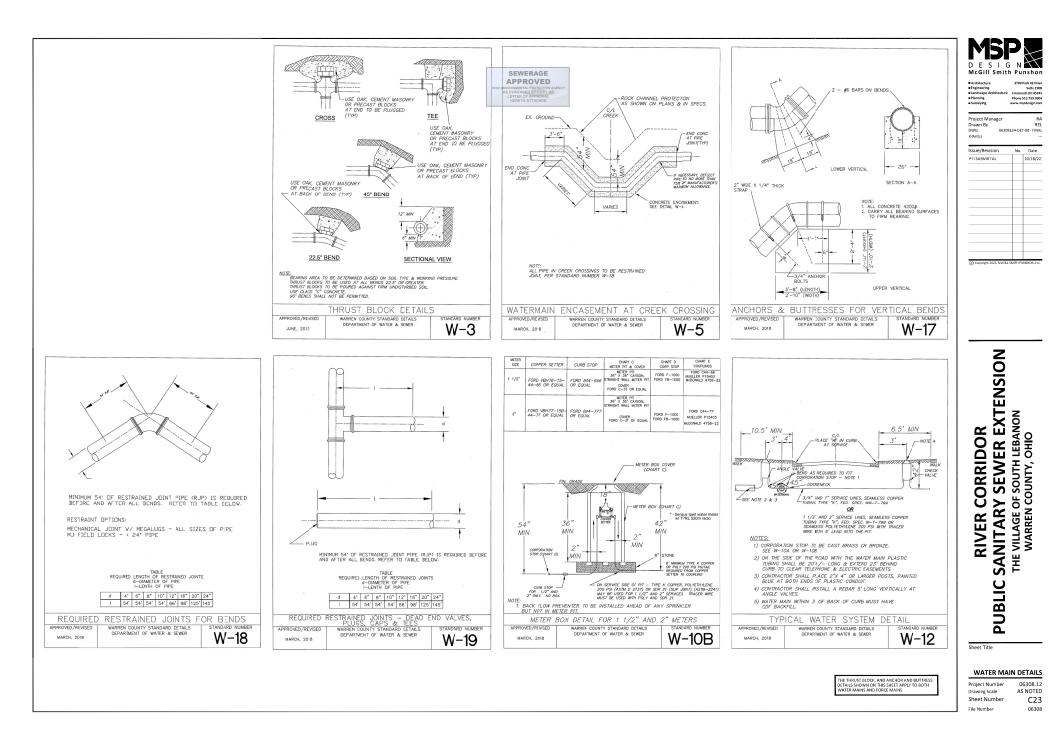


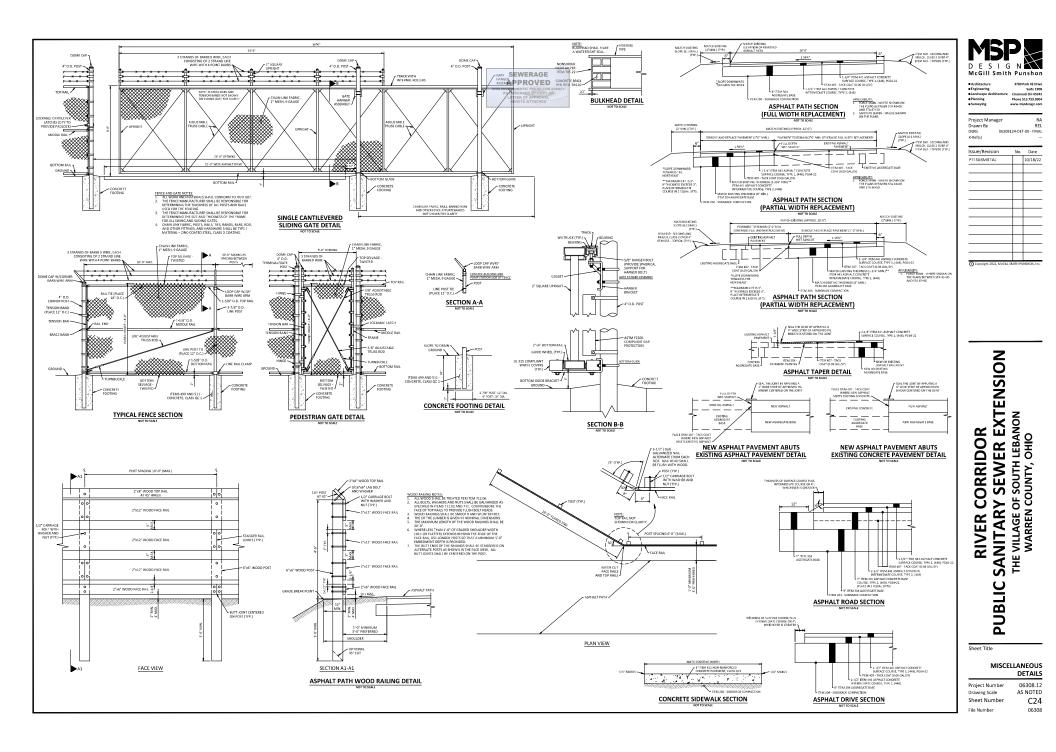


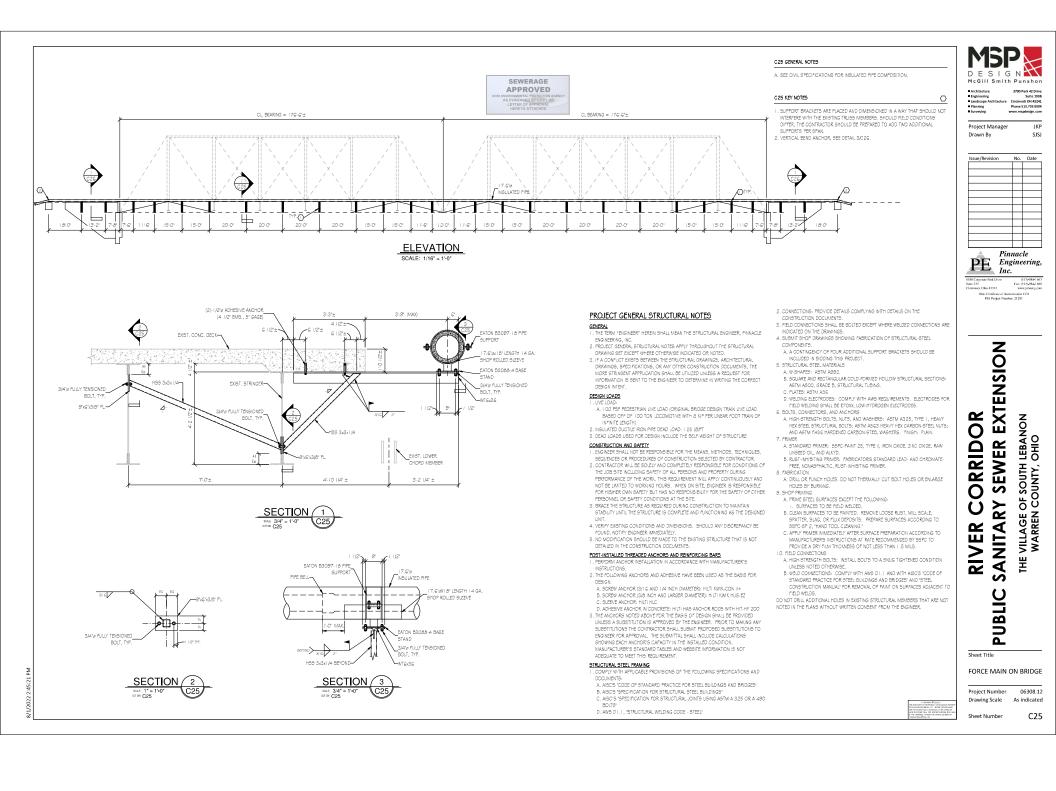


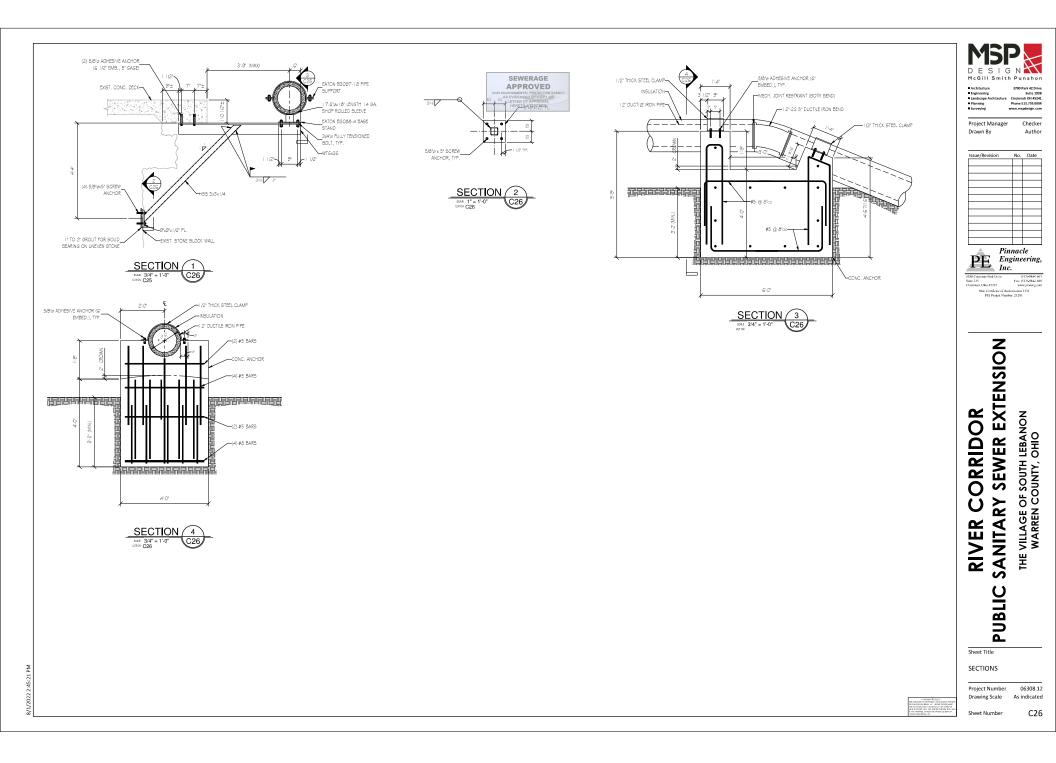




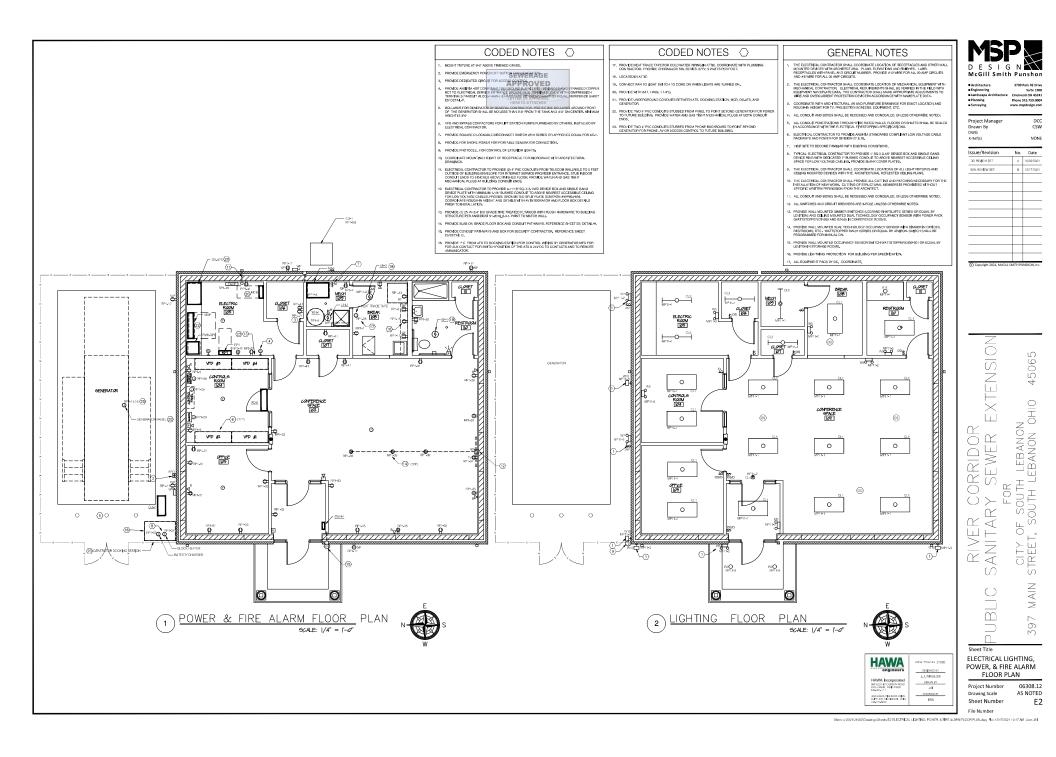


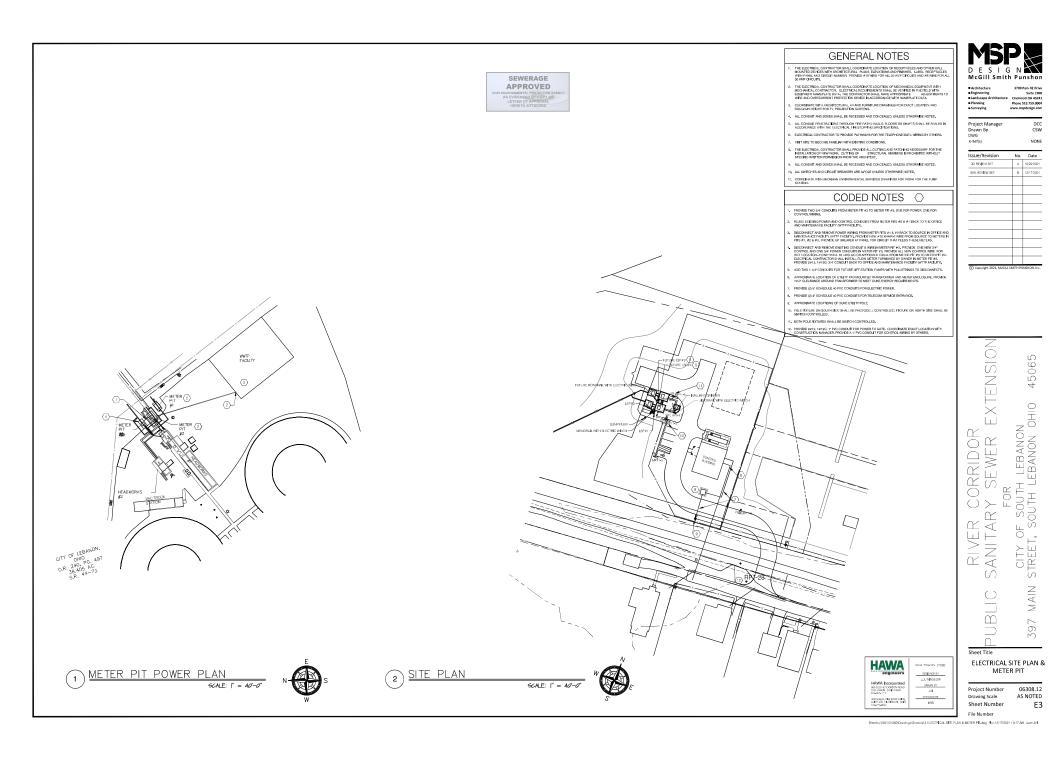


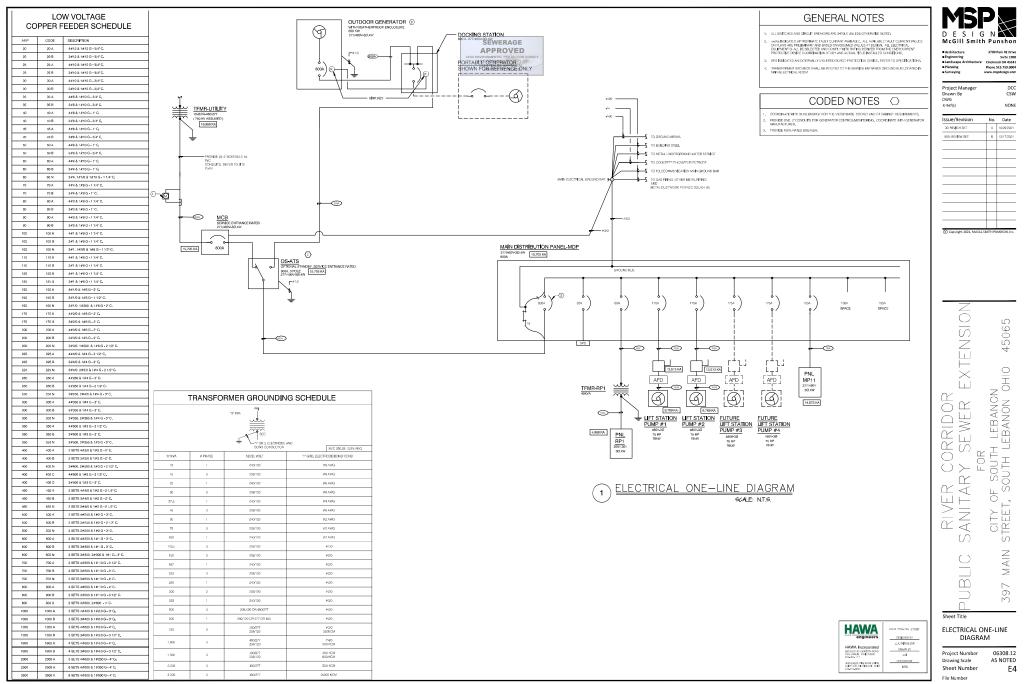




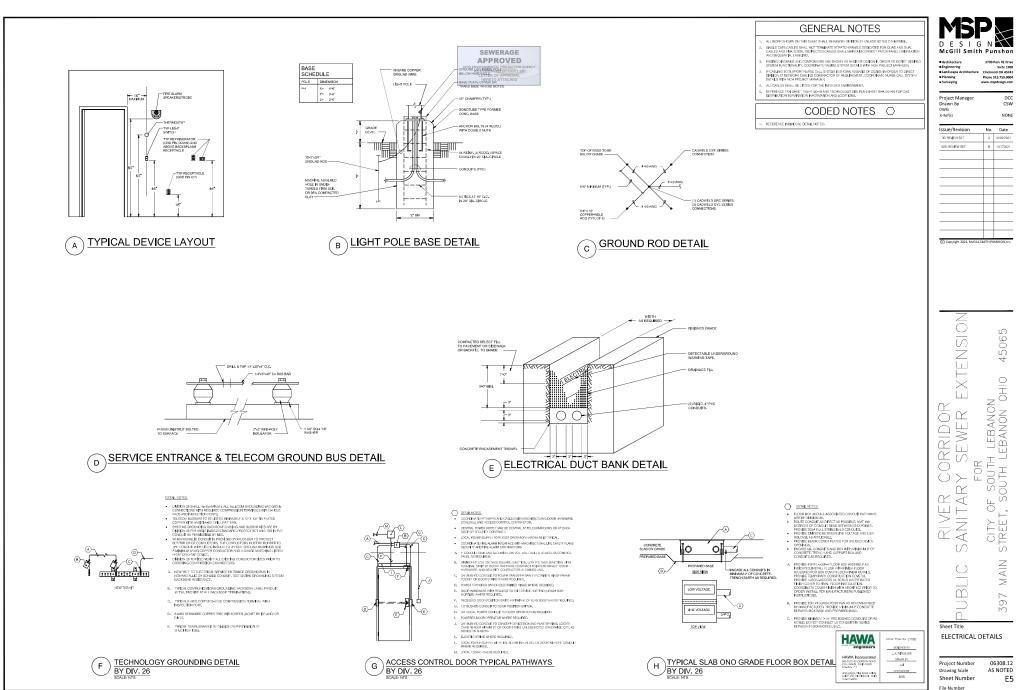
	FIXTURE SCHEDULE		ELECTRICAL ABBREVIATIONS	SYMBOL DESCRIPTION MULTING HTG. TO AFF	
	CL – CELLING MOUNTED CV – COVE MOUNTED GR – GROUND P – PC RF – ROOF MOUNTED S – SUSPENDED T – TRACK UC – UNDER CABINET W – WALL	MOUNTED WR - WALL RECESSED	A AMPRES HVAG HEATING VENTILATING AND AIR CONCILION HIS AF AMP FUSED IC INTERCOM	H● WALL MTD SPECIAL OUTLET AS REQUIRED SEE CRAWINGS ■ FLOOR BOX FLIB MTD	DESI McGill Smit
FIXTURE NUMBER			ATT ABOVE TNERED FLOOR NWO BLOWATTS CORRECTED ATG ABOVE TNERED FLOOR N/O BLOWATTS CORRECTED	₩ WRED JUNCTION BOX SEE DRAWINGS	Architecture
CL1		RTE SML SERVES OR HE WILLIAMS 12 UNIVER UNPROVING THE TRATIS AND	APO ADDOPENDED DRADE INDE UNDE UNDE UNDE UNDE UNDE UNDE UNDE U	SIMPLEX RECEIPADLE - SEE DANSE FOR NEAR CONFIDENTION SEE DRAWINGS TU" - TWISTLOCK OUTLEX/RECEIPADLE - '8' UUTLEX/RECEIPADLE - '8'	 Engineering Landscape Architectum Planning
R2	RECESS MOUNTED 6" ROUND LED DOWNLIGHT, 1800 LUWENS, LENSED FIXTURE, WHITE FINISH, WET RATED LENS, WET RATED FIXTURE,	UNIVATION LDX POUND SERVES OR UNIV. LED 3000K 25 WATTS	ATS AUTOMATIC TWASPER SMITCH MLO MAIN LUGS CHLY 848 BULENS AUTOMATICH SYSTEM MIN MINIMUM	1GPP – GROUND FAULT INTERRUPTER 1MPP – WEATHERPROOF GROUND FAULT	Surveying
CL3		ALBED ALVZ OR ILP VS SERIES. UNIV. LED 4000K 33 WATTS	BFF BELOW PHILERO FLOOR HEC INITIONAL ELECTRICAL CODE BFG BELOW PHILERO FLOOR Ling MOV/TWO C CONDUT PD PLUMBING CONTRACTOR	"TP - TAMPER PROOF "GP" - GROUND FALLT INTERRUPTER	Project Manager Drawn By
CL4	LED EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING AND RED LETTERING AND LIGHT BAR. CELING MOUNTED, WANTENANCE FREE NCAD BATTERY	NIX REVOLUTION SERIES OR EVENUTE UNIV. LED 4 WATTS	CIIS CERCUTI-INTERNATOR PRIL PAREL CATY COMMUNITY ATTERNATORIA CERCUTION (CALLE) P8 FURHEUTTON	2087 RECEPTACLE - SEE DWSS FOR NEMA CONFIGURATION '9' OUPLOCRECEPTACLE - TAMPER PROVE 8' AB COUNTER TOP	DWG X-Ref(s)
w5	INTERIOR EMERGENCY LIGHT, WHITE, MAINTENANCE FREE NICAD BATTERY, THERMOPLASTIC ENCLOSURE, TWO HEADS	NX LED-95 SERIES OR COMPASS CU2 UNIV. LED 8 WATTS	ED ELECTRICAL CONTRACTOR 0 PH/68 ED EDISTING TO BE DEMOLERED HF HETHEROEMATOR	DOUBLE DUPLEX RECEPTAGE SOURCE SOURCE SO	Issue/Revision
ws	REMOTE EMERGENCY HEADS, EXTERIOR WEATHERPROOF RATED, BLACK COLOR, DUAL HEAD	INIX MLED SERIES OR COMPASS OWR UNIV. LED 3 WATTS	EPO EMERIZENCY POVYET OF TC TICHARCICAY CONTACTOR EVEN ELECTRE A MERILIE TURNE UD UNCERSITIONAU ER DEPEND OF THE ALECTRE UD UN UNLESS OTHERWISE NOTED	COULD BALLANDED HOLE TAMPER PROCE OROUND FAULT NITERRUPTER PONT-THEUMOUNT E DUPIT X RECEPTACI PS, DATA PONT-THEUMOUNT E DUPIT Y RECEPTACI PS, DATA PO	DD REVIEW SET
W7		NIX LEM54-N4 SERIES OR COMPASS UNIV. LED 8 WATTS	EX EXISTING TO REMAIN UPS UNINTERRUPTING POWER SUPPY OC GENERAL CONTRACTOR V VOLTS	DOUBLE DUPLEX RECEPTACLE, EMERGENCY 18	
P8	20' POLE, SQUARE, STEEL, WITH MOUNTED FXTURE WITH SNOLE HEAD, DIE CAST ALUMINUM HOUSING WITH HINGED DOOR FRAME, HOH EFFICIENCY LED, 10,000 LUMENS, TYPE IV DISTRIBUTION AND BLACK FINSH PHOTOCELL OPTION TO WORK DUSK TO DAWN.	LVE SERIES EALS SERIES OR HUBBELL MICRO SERIES WITH MACO POLE OR HUBBELL SS20	9FCI 9ROUND FAULT CREDIT NTERRUPTER W WIRE 9FP BROUND FAULT PROTECTION WP WEATHERPROOF	UDUBLE DUPLEX RECEPTACLE, EMERGENCY B" AB COUNTER TOP	
P9	SAME AS FIXTURE "P" EXCEPT WITH TWO HEADS 180 DEGREES APART		TECHNOLOGY LEGEND MOUNTING HTG, TO AFF SWIEGL DESCRIPTION	CLG OUPLIEX RECEIPTINGLE, IN HANDHOX ON FLEXIBLE WHP FLUISH MITD IN CELLING ADJACENT FOUPMENT	
w10	GE 5'X8.3" TRAFEZODAL WALL MOUNT WITH DE CAST ALUMINUM HOUSING WITH GASKETED DOOR FRAME. HIGH EFFICIENCY LED 1700 LUMENS. ASYMMETRIC FORWARD DISTRIBUTION, BLACK FINISH, PHOTOCELL OPTION TO WORK DUSK TO DAWN.	OLVE SERIES WALLPACK OR HUBBELL UNIV. LED 4000K 12 WATTS		PLUGNOLD 3EGEPT AT 12 NOH CEMTER TO GENER COORD MOLINITIAS HEIGHT WI APOH DETAL UNITIAN BOX	
R11	RECESS 6* ROUND LED DOWNLIGHT, 1000 LUMENS WIDE BEAM SPREAD, SEMI DIFFUSE REFLECTOR, WHITE FLANGE, WET LOCATION LISTED	LUNIVATION LDX. ROUND SERIES OR UNIV. LED 12.4 WATTS	NOTES: PRO/IDE 44/CH SQLARE BY 45/0-PKCH DEEP DEMSE BROKAND BYNEL EXEMPT FINA DEMEMBERING VITH- HAFFLEILERDE DIM TO KARANE ARCERSIBLE CELTING FOR ALL RESOLUTION OF VICINARE BYNELING FOR ALL RESOLUTION OF VICINARE BYNELING FOR ALL RESOLUTION OF VICINARE BYNELING FOR ALL RESOLUTION OF VICINARE	F® GROUND B4R 56°	
	MECHANICAL EQUIPMENT CONN	ECTION SCHEDULE	SYSTEM DEVICES UNLESS NOTED OTHERWISE. COORDANT ROUGH-RHIEDOTHERWISE. ARCHTECTURAL EXAMINES.	449 TOGGLE SMTCH-SNGLE 48' 37 = 34WW 4' - 4WWV 4' - KEYED	
	MECHANICAL EQUIPMENT CUINN CSD = COMBINATION STARTER/DISCONNECT SWITCH, DC = DISCONSECTIVECHANICAL EQUIPMENT FURNISHED WITH INTEGRAL MANN MARNETTE MOTOR STARTER, APD = ADJUSTABLE FREQUENCY		TELEVISION VIDEO OLITI ET WITH /O CATV PORT SEE DRAVINOS	K – KERU D' – LIMMER OS' – OCCUPANCY SENSOR SAITCH M' – MANUAL MOTOR STARTER	Copyright 2021, McGi
	LEVEL NO. DESCRIPTION VOLTS PHASE AMP KW HP CONN STITE LIFT STATION PUMP #1 460 3 75.0 AFD	CONDUIT & WIRE SIZE PANEL NOTES 3 MDP 200AS WP 2, 5	DATA PORT, COORDINATE WITH (1) UP HELECOM DATA PORT, COORDINATE WITH AN INTEGRATOR	OCCUPANCY SENSOR DUAL TECHNOLOGY DETECTION CLG MTD OD OCCUPANCY SENSOR DUAL TECHNOLOGY DETECTION. CLG MTD PROVEE MTH PHOTOCELL W UNMAC CLG MTD	
	STE LFT STATION PUMP #2 460 3 75.0 AFD STE 16 INFLUENT ORINDER 460 3 7.5 CSD RM 100 WH-1 WATER HEATER 120 1 5.0 DC	3 MDP 2004S WP 2, 5 (3)A10 + (1) 100 IN 3/4*C MP11 30 AS WP 2 (2)A12 + (1) 126 IN 3/4*C RP1	FLOOR BOK FLR MTD	PROVIDE WITH PHOTOCELL W DIMINING PO WALL MOUNTED OCCUPANCY SENSOR WALL MITO	
	RM 109 AC-1 AC- FURNACE & BLOWER 120 1 0.75 DS SITE CU-1 CONDENSING UNIT 208 3 21.0 DS	(2)#10 + (1) 10G N 3/4°C RP1 30AS (3)#10 + (1) 10G N 1°C RP1 30AS WP 2	B THYDAL TECHNOLOGY DEVICE BOX AND BUSHED CONDUT POUGHIN WITH REANK REATE U.N.O. 181	CELLING MOUNTED DAVILISI ITING CONTROL SENSOR CLG MTD POWER PACK AB CLG	
	BM 110 ELECTRIC WALL HEATER 208 1 1.5 DC BM 110 EF-1 EXHAUST FAN 120 1 FFAC DC BM 100 EF-1 UNITHEATER 277 1 3.0 MMS	(2)/12 + (1) 120 IN 3/4°C RPH (2)/12 + (1) 120 IN 3/4°C RPH (2)/12 + (1) 120 IN 3/4°C RPH (2)/100 + (1) 100 IN 1°C MPH1 4	TLLCOM PORTA / CLX REPRESENTS OF UTP	Image: Motion - 1 PMASE AS REDO Image: Motion - 3 PMASE AS REDO	
	SITE JIB CRANE WITH ELECTRIC WINCH 120 SITE WONORALIWITH ELECTRIC WINCH 120	RP1 RP1	MOUNTED	OLG MTD EXIT LIGHT W/ DIRECTIONAL ABROWS CLG MTD	
	STE SUMP PUMP 120 ATIC UH-2 UNIT HEATER 277 1 3.0 MMS ACT2& DUCTESS SPLT SYSTEM 206 1 19.0 DS	RP1 30AS WP 2 (2)#10 + (1) 10G IN 1°C MP11 4	PROVER REVENT STEEL SLEEP, PROVIDE LL USTCO PIRE STOP ASSAULT, VARIED BANGHRA, SEE DRAWINGS PROVIDE OT VARIES VARIED VARIET ARBUTTED CALLE TRAVINO	↑⊗↑ CLS MTD EVIT LIGHT W/DRECTIONAL ARROWS CLS MTD 3+⊗↑ WALL MTD EVIT LIGHT W/DRECTIONAL ARROWS AB DOOR	6
	AU-ZX (M) 104 DUCTLESS SPLIT SYSTEM 208 1 19.0 DS PANEL MP11 V0LTAGE 480/277V-39.4W V0LTAGE 480/277V-39.4W </td <td>(2)#10 + (1) 100 IN 1°C MP11 30AS WP 1 PANEL RP1 VOLTAGE 208/120V-34.4W</td> <td>CARD READER - ACCESS CONTROL</td> <td>SUE MID ENFLUENT WATHECTICKALARHOWS AB DOCH ELECTRICAL PANEL DAYE INDUCATES 22* TO TOP WORKING ELAPANOS</td> <td>SIC</td>	(2)#10 + (1) 100 IN 1°C MP11 30AS WP 1 PANEL RP1 VOLTAGE 208/120V-34.4W	CARD READER - ACCESS CONTROL	SUE MID ENFLUENT WATHECTICKALARHOWS AB DOCH ELECTRICAL PANEL DAYE INDUCATES 22* TO TOP WORKING ELAPANOS	SIC
	LOCATION ELECTRICAL RM MAIN SIZE 100 A MOUNTING SURFACE MAIN TYPE 100 A MLO	LOCATION ELECTRICAL RM MAIN SIZE 150 A MOUNTING SUBFACE NAME TYPE 150 A MOR	CONTRESTITUTION CARL R217402.5° PORTUGE WITH SWIPE TW DENTIFIES MULLION PROFILE PROFILE	sAFETY SAFETY AS REDO SAFETY SAFETY AS REDO SAFETY SAFETY AS REDO	()
	NOTES PROVIDE FEED-THRU LUGS 2007 KEUTRAL PROVIDE SUR-FEED LUGS	NOTES: PROVIDE FEED-THRU LUGS 2003 NOUTRAL "INDICATES A GPPE BREAKER ** INDICATES LOCK ON BREAKER		PUSHBUTTON 48*	
	LOAD DESCRIPTION KOA BRK/ CIRC BRK/ LOAD LOAD DESCRIPTION LOAD DESCRIPTION LOAD DESCRIPTION LOAD DESCRIPTION	USER GRC USER GRC	MECHANICAL EQUIPMENT CONNECTION NOTES	EPC EMERCENCY POWER OFF PUSHBUITTON 46" EPIC EMERCENCY POWER OFF PUSHBUITTON 46" EPIC EMERCENCY POWER OFF PUSHBUITTON 46"	
	POLE POLE BLDG INTERIOR LTS 0.76 20/1 1 2 20/1 0.07 DOT & EMER. LTS SPAR EXTENDER LTS 0.10 20/1 3 4 20/1 0.00 SPARE CONTROL IN	E 0.00 20/1 1 * 2 20/1 0.60 RM 109 WH-1	Envirement for indicating the prevalution outproof with indicating the proof of both as indicated on schedules, have next herefore Disponsive stratch, and the proof big outproof stratch, and the proof big outproof of the control outproof out	END FIRE A VARM SIGNAL - ADDIXINGUAL DEVACE MIN 80° AFE TO END BITM EDD FIRE A VARM SIGNAL - VISUAL DEVACE MIN 80° AFE TO END BITM (P) SWORE DEFECTOR DLG MID	\times
	SITE LTS 0.50 20/1 5 * 6 20/1 0.00 SPARE CONF. FM SPARE 0.00 20/1 7 * 8 20/1 0.00 SPARE MECH RM 109	102 REC 1.00 20/1 5* 6 35/2 2.00 SITE CU-1 & 108 REC 1.00 20/1 7 * 8 2.00	3. REFER TO SHEET EN FOR OVERCURRENT PROTECTION AND FEEDER SIZE.	HEAT DETECTOR CLG MTD	
	SPARE 0.00 20/1 9 -+ 10 20/1 0.00 SPARE BREAK RM SPARE 0.00 20/1 11 12 20/1 0.00 SPARE BREAK RM SPARE 0.00 13 14 20/1 0.00 SPARE BREAK RM	108 REC 1.50 20/1 9 -*- 10 20/1 0.00 SPARE 108 REC 1.50 20/1 11 12 20/1 0.00 SPARE 1.50 20/1 13 * 14 100/2 6.00 SPARE	DESCRIMENT SMICH BY LESTINGLI CONTRACTOR, COORDINATE LIDCATION AND WIRE AS DIRECTED BY INCOMINGLI CONTINUOLOR; ADD WITH BYPASS PRIVABILED BY CITHERS; INSTALLED BY EC.	DUCT MOUNTED SINCKE DETECTOR SUPPLY AR "RA" - RETURN AR	К К
	0.00 13 14 20/1 1.00 99 ARE BERAN KIN 0 INFLUENT GRNDER 6.80 27,3 15 16 20/1 0.00 99 ARE BERAN KIN 0 UH-1 3.00 20/1 1.00 99 ARE REXENTION REXENTION	MICROWANE 1.00 20/1 15 -*- 16 6.00 REC 0.80 20/1 17 18 25/2 0.50 AC-2.CU-2		IS TAVPER BUTCH AS RECO ES FLOW SMTCH AS RECO	
	UH-1 3.00 20/1 19 20 20/1 0.00 SPARE FRE ALMAN UH-2 3.00 20/1 21 22 20/1 0.00 SPARE SECURIT/ACC SPARE 0.00 20/1 23 24 20/1 0.00 SPARE TELECOM EC	ESS CNTRL 0.20 20/1 21 -*- 22 20/1 1.00 GEN BATTERY CHARGER		MAGNETIC DOOR HOLDER AS RECO FRE ALARM SECURITY SYSTEM DOOR RELEASE AS RECO	$\square >$
	SPARE 0.00 20/1 25 * 26 20/1 0.00 SPARE EWH-	-1 0.80 20/2 25 * 26 *20/1 0.25 HEAT TRACE TAPE 0.80 27 -*- 28 *20/1 0.25 SITE GATE		THE PARAMA DETECTOR AS RECO FINE ALARM POST INDICATING VAVLE AS RECO	
	SPARE 0.00 20/1 27 28 20/1 LO0 SPARE CONTROL SPARE 0.00 20/1 29 30 20/1 LO0 SPARE CONTROL SPARE 0.00 20/1 1 32 20/1 LO0 SPARE CONTROL SPARE 0.00 20/1 31 32 20/1 LO0 SPARE OFFCET SPARE 0.00 20/1 33 32 20/1 LO0 SPARE PMRE PMRE	ANELS 0.60 20/1 29 −= 30 20/1 0.00 SPARE 33 REC 0.50 20/1 31 4−− 32 20/1 0.00 SPARE		EXCEP FIRE ALARM CONTROL PANEL 72"TO TOP EXCEP FIRE ALARM ANNUNCIATOR PANEL 60"	SE SE
	SPARE 0.00 20/1 35	02 REC 0.50 20/1 35* 36 20/1 0.00 SPARE 2 TV REC 0.50 20/1 37 * 38 20/1 0.00 SPARE		UGHT FIXTURE, TIME AS NOTED ON FLOOR PLANS (RI, ETC) SEE UGHT FIXTURE SCHEDULE	
	SPARE 0.00 20/1 39 - *- 40 20/1 0.00 SPARE CONFERIA SPARE 0.00 20/1 41 * 42 20/1 0.00 SPARE CONFERIA CONFECTED LOAD: LIGHTING: 1.4 KVA CONFECTED LOAD: CONFERIA CONFERIA	06 REC 0.50 20/1 41* 42 20/1 1.50 SUMP PUMP			С У Ц К
	CONNECTED LOAD: LIGHTING: 1.4 KVA CONNECTED LOAD: RECEPT: 0.0 KVA E0UP: 0.0 KVA	LIGHTINK: 0.0 KVA RECEPT: 16.0 KVA EQUIP: 18.0 KVA		O (DOWNLIGHT)	$\mathbb{A} \stackrel{\mathbb{H}}{\prec}$
	MDTCR: 8.8 KVA HEATING: 6.0 KVA	MOTOR: 1.5 KVA HEATING: 3.6 KVA		WALL NOUNTED FIXTURE	
	(LEFT TUB) TOTAL: 16.2 KVA = 19.5 AMPS (LEFT TUB)	TOTAL: 39.1 KVA = 108.5 AMPS		USHT FIXTURE, TYPE AS NOTED ON FLOOR PLANS (RI, ETC) SEE FIXTURE SCHEDULE, CONNECTED TO LIVE SWETY OR CAMICAL POWER	
	ļ	SERVICE LOAD CALCULATION		ANBOARD LAMPS ON LIFE SAFETY OR ORTICAL / OUTBOARD LAMPS ON NORMAL)	AN N
	ITEM EQUIPMENT UG	CONNECTED KVA AMPS TING RECEPT EQUIP POWER OTHER TOTAL AMPS 0.0 16.0 18.0 1.5 0.0 3.6 38.1 108.7			- Ś
	2 MP11	0.0 16.0 16.0 1.3 0.0 3.6 3.8 10.0 1.6 108/ 1.4 0.0 0.0 8.8 0.0 6.0 16.2 20.4 0.0 0.0 0.0 304.0 0.0 0.0 304.0 382.0		(HANSING FORTUPIE) (DOWNLICHT)	0,
		0.0 0.0 0.0 0.0 0.0 0.0 0.0		(WALL MOUNTED FINTURE)	\bigcirc
		0.0 0.0	l	2.00	
		1.4 16.0 18.0 314.3 0.0 9.6 359.3 511.0 NEC DEMAND KVA			\square
	1 LIGHTING - 100%	NEC DEMAND KVA AMPS HTING RECEPT EQUIP MOTOR POWER OTHER TOTAL 1.4 - - - - 1.4 1.8			\supset
	2 RECEPTACLE - NEC 3 EQUIPMENT - 100%	- 16.0 18.0 44.5 18.0 18.0 50.0			Charak Titala
	4 MOTOR - 5 POWER (HEATING) - 100%	<u>391.5</u> <u>391.5</u> 492.0 <u>0.0</u> - <u>0.0</u> 0.0			Sheet Title
	6 OTHER - 100%	<u>9,6</u> 9,6 28,7		engineers deplace or	ELECTRICAL
	I TOTAL DEMAND	1 1 1 1 1 436.5 614.9	1	HAWA Incorporated teoCon-engineering of the Control of the Contro	
				GRUINER, CHD 4320 LAT 614-057-771 - reas saturation previous	Project Number Drawing Scale
				SUTT 490, CACHWART, DHO BRS	Sheet Number







Sheeling (2021) 21082(Drawings/Sheeks)EH ELECTRICAL ONE LINE DIAGRAMUSIng. Plot:12/17/2021 10:17 AM. User:JAI



Sheet:D.(2021)21082/Drawings/Sheets/E5 ELECTRICAL DETAILS.dwg Pbit12/17/2021 8:52 AM User:JA

