PHASE 2A

PUBLIC IMPROVEMENTS

SUMMIT COUNTY, OHIO - CITY OF HUDSON

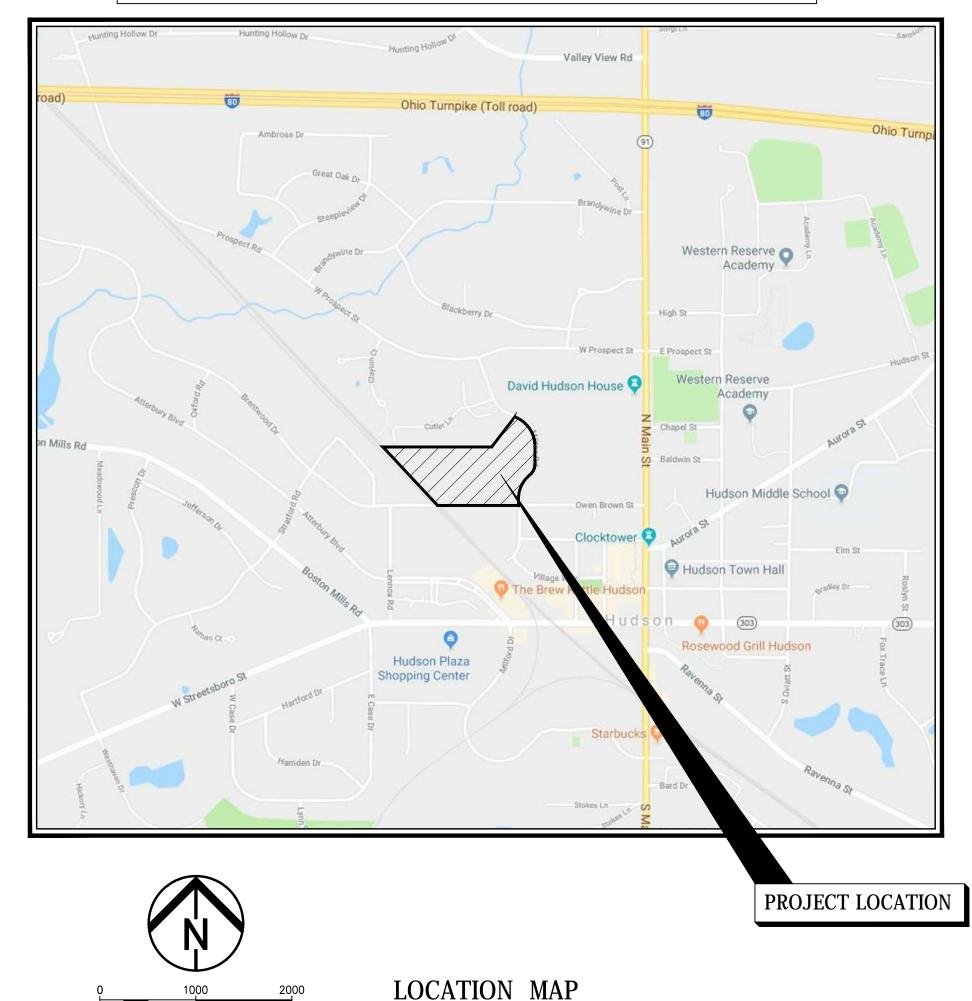
Testa Companies

ISSUED: APRIL 25, 2019

SITE PLAN LEGEND

EXISTING	PROPOSED	
		- CENTERLINE/BASELINE CONSTRUCTION
		- PROPERTY LINE
——————————————————————————————————————	———— R/W ————	- RIGHT OF WAY
		- EASEMENT
	TMP	TEMPORARY RIGHT OF WAY
		- SWALE
— — — —1000— — —	————1 000———	- CONTOUR
<u>X"</u> <u>STM</u>	—— sт ^{X" STM} sт ——	- STORM SEWER
<u>X"</u> S <u>AN</u>	$$ sa $\frac{X" SAN}{}$ sa $$	- SANITARY SEWER
<u>X" WTR</u> w	w X" WTR	- WATER LINE
——————————————————————————————————————	w	- WATER SERVICE
GGGG	———— G X" GAS	- GAS LINE
———— UGE ———	——— Е———	- ELECTRIC LINE, UNDERGROUND
——————————————————————————————————————	—— т—	TELEPHONE LINE, UNDERGROUND
FOC	FOC	- FIBER OPTIC LINE, UNDERGROUND
CATV		CABLE LINE, UNDERGROUND
		CATCH BASIN, MANHOLE MANHOLE ADJUSTED TO GRADE
Ty y	₩ ₩\	HYDRANT, HYDRANT ASSEMBLY
$WV \bowtie GV \bowtie$	WV ►	VALVE, WV=WATER VALVE GV=GAS VALVE
E G W		METER, E=ELECTRIC, G=GAS, W=WATER
		ELECTRIC CABINET, PULL BOX, PEDESTAL, MANHOLE
		TELEPHONE MANHOLE, UTILITY MARKER
$ \leftarrow \phi \phi \phi \phi \phi$		POWER POLE, TELEPHONE POLE, COMBINATION POLE, LIGHT POLE
IPFO	IPS ●	IRON PIN/PIPE FOUND, IRON PIN SET
MON 🗖	MON	MONUMENT BOX
		SIGN
<i>MB</i>		MAILBOX
<i>€</i> ~ \$		FLAG POLE, DECORATIVE/YARD LIGHT
		TREE, SHRUB LINE, TREE REMOVED, TREE LIMBED AND ROOT PRUNED
# 1000		BASEMENT ELEVATION

UNTIL THE PUBLIC ROADS SHOWN ON THESES PLANS ARE ACCEPTED BY THE CITY OF HUDSON AND DEDICATED, ALL MAINTENANCE INCLUDING SWEEPING AND SNOW PLOWING SHALL BE PERFORMED BY THE DEVELOPER



SITE COVERAGE DESCRIPTION

PRE-DEV IMPERVIOUSNESS -POST DEV IMPERVIOUSNESS -

ODOT STANDARD DRAWING INDEX

GRAPHIC SCALE IN FEET

STD DWG NO STD DWG NO <u>DATE</u> STD DWG NO <u>DATE</u> 7/18/14 7/20/18 TC-41.40 10/18/13 HW-1.1 7/20/18 TC-41.50 10/18/13 7/19/13 1/18/13 10/18/13 DM-1.1 TC-42.20 7/18/14 10/18/13 HL-30.11 7/20/18 TC-52.10 TC-52.20 7/20/18 1/18/13 RM-1.1 7/18/14

1/18/13

CB-1.2

CONSTRUCTION SEQUENCING

TBD

INDEX OF DRAWINGS TITLE _ GENERAL PLAN GENERAL NOTES TYPICAL SECTIONS OVERALL GRADING PLAN SWPP PLAN PLAN & PROFILE INTERSECTION DETAILS CONSTRUCTION DETAILS _ 31-39 LIGHTING & SIGNAGE PLAN LANDSCAPE PLAN 41-46

APPROVALS:	
SERVICE DIRECTOR	Date
CITY ENGINEER	Date
OHIO EPA:	Date
WATER, BY LETTER	
	Date
SANITARY, BY LETTER	Date

PLANS PREPARED AND RECOMMENDED BY:





PROJ. NUMBER _	17-00257-020		SHEET
DESIGNED BY:	RJW	mm r	
DRAWN BY:	NLM	TITLE	$\mid 1$ of $46 \mid$
FILE NO. ZTIT	TL 17-00257-020.dwg		

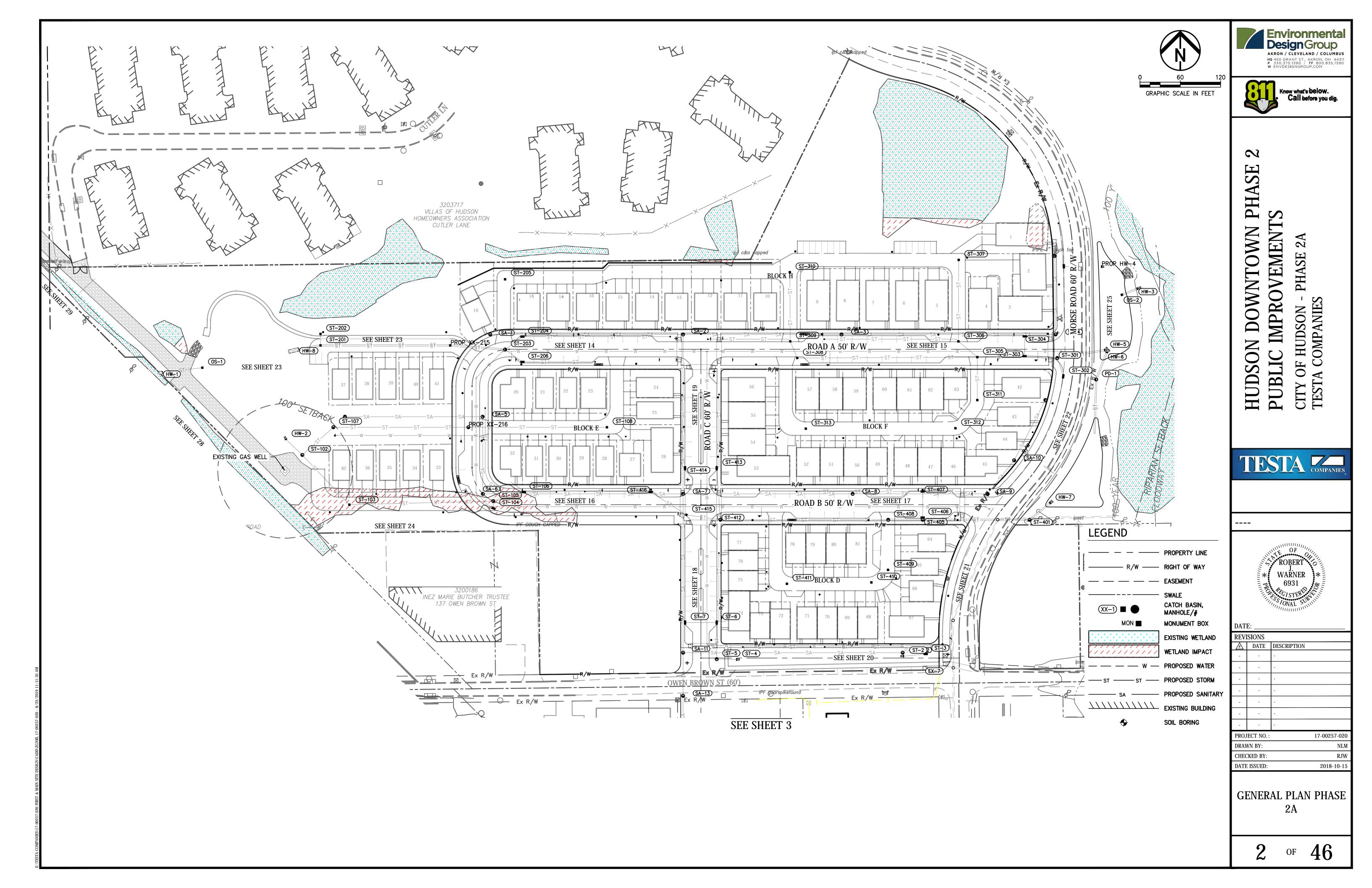
2016 SPECIFICATIONS

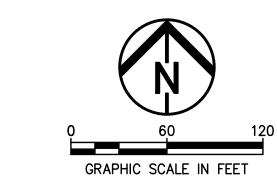
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF

MEAN THE CITY ENGINEER AND/OR HIS REPRESENTATIVES.

TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE PLAN BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT. FOR PURPOSES

OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO



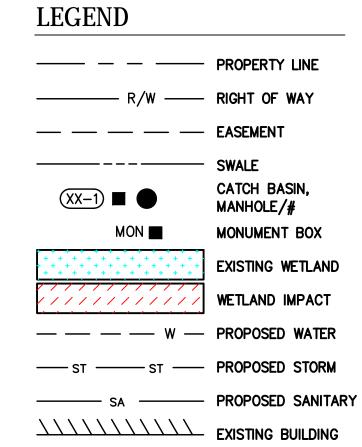


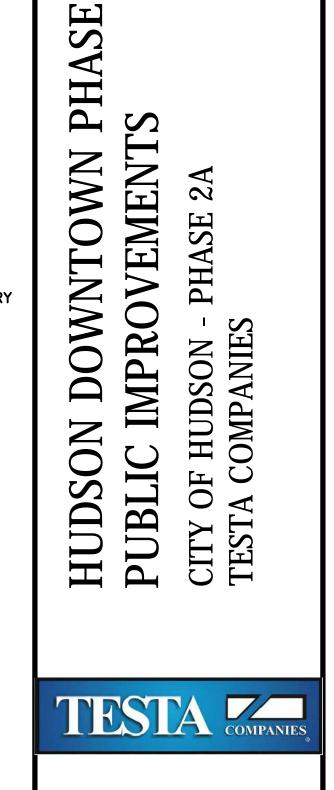






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PROJECT NO.: 17-00257-020				
DRAWN BY: NLM				
CHECKED BY: RJV				
DATE ISSUED: 2018-10-1				

GENERAL PLAN PHASE 2B

CONTROL TO STATE OF THE PARTY O	
VCP TB* MV	

ALL ITEM NUMBERS REFER TO THE 2013 STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE PERFORMED ACCORDING TO THESE SPECIFICATIONS AND THE REFERENCED OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS NOTED ON THE TITLE SHEET.

MATERIAL STORAGE/EQUIPMENT STORAGE

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE EQUIPMENT AND MATERIAL STORAGE AREA TO SUIT HIS NEEDS.

MATERIAL TESTING AND PERMITS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING. MATERIAL TESTING IS REQUIRED FOR ASPHALT, CONCRETE, AND AGGREGATES FOR TRENCH BEDDING AND BACKFILL.
- 2. THE CONTRACTOR SHALL INCLUDE IN THE PRICE BID FOR THE NEW PIPE AND FOR TRENCHES WHERE PIPE(S) ARE REMOVED THE COST FOR COMPACTION TESTING OF THE BACKFILL IN ALL TRENCHES. COMPACTION RATES ARE 98% OF THE MAXIMUM DRY DENSITY PER AASHTO T-99 FOR THE VARIOUS LIFTS OF TRENCH BACKFILL AND THEY SHALL BE VERIFIED IN THE FIELD AS CONSTRUCTION PROGRESSES. THE CONTRACTOR WILL PAY FOR THE SERVICES OF AN INDEPENDENT QUALIFIED GEOTECHNICAL ENGINEER TO COMPLETE THIS WORK. THE GEOTECHNICAL ENGINEER SHALL RUN PROCTOR TESTS FOR THE BACKFILL MATERIAL AND BE ON-SITE FULL TIME TO VERIFY THE SPECIFIED COMPACTION RATES. COSTS FOR THIS WORK WILL BE INCLUDED IN THE PRICE OF THE ITEM TO WHICH IT RELATES.
- 3. ALL NEW WATERLINES MUST PASS A PRESSURE TEST AND DISINFECTION TEST IN ACCORDANCE WITH AWWA-C600 AND AWWA-C651, RESPECTIVELY, PRIOR TO CONNECTING THE NEW WATERLINE TO THE EXISTING SYSTEM. COSTS SHALL BE INCLUDED IN THE PRICE BID FOR THE NEW WATERLINE.
- 4. THE EXECUTED PROJECT CONTRACT SHALL SERVE TO FULFILL THE CITY OF HUDSON PERMITTING REQUIREMENTS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.6 ORC.

LITHITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT:

CITY OF HUDSON ENGINEERING DEPT 51 S. MAIN ST. #3 HUDSON, OH 44236 (330) 342-1770

CITY OF HUDSON PUBLIC WORKS DIVISION 1769 GEORGETOWN RD (330) 342-1750

HUDSON PUBLIC POWER 27 E. MAIN ST HUDSON, OH 44236 (330) 342-1750

DOMINION EAST OHIO 320 SPRINGSIDE DRIVE, SUITE 320 AKRON, OH 44333 (330) 664–2409 ATTN: BRYAN DAYTON

SPECTRUM 1200 BROWNSTONE AVE AKRON, OH 44310 (330) 633-9203

(330) 633-9203
SUMMIT PETROLEUM INC.
885 HERRICK RD

885 HERRICK RD TWINSBURG, OH 44087 (330) 487-6922 - STEVE WILLIAMS COUNTY OF SUMMIT DEPT. OF SANITARY SEWER SERVICES 1180 S MAIN ST #201 AKRON, OH 44301 (330)926-2400

WINDSTREAM COMMUNICATIONS 100 OWEN BROWN ST, HUDSON, OH 44236 (330)650-8404 LEVEL 3 COMMUNICATIONS

4000 CHESTER AVE. CLEVELAND, OH 44103 (216) 426-6010 CENTURYLINK 3801 ELM RD

WARREN, OH 44483

(330) 841–1404 ATTN: ROD HARRIS FIRST ENERGY 1910 W MARKET ST, BLDG 1

1910 W MARKET ST, BLDG AKRON, OH 44313 (330) 436–4055 ATTN: DAVID MILLER

MCI 120 RAVINE ST AKRON, OH 44303 (330) 253–8267

WORK HOURS

NO NIGHT WORK BETWEEN THE HOURS OF 7:00 P.M. TO 7:00 A.M. SHALL BE PERMITTED UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER AND THE CITY OF HUDSON.

CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL ENGAGE IN THE CONSTRUCTION OF THE PROJECT SUCH THAT ADEQUATE ACCESS TO THE RESIDENCES AND ALL BUSINESSES IS MAINTAINED AT ALL TIMES. INCLUDE COSTS IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC. ONCE THE CONTRACTOR IS ENGAGED IN THE PROJECT, WORK SHALL BE CONTINUOUS USING FULL CREWS.

REMOVAL OF DEBRIS AND SITE CLEANUP

THE PROJECT SITE MUST BE KEPT FREE OF CONSTRUCTION DEBRIS, TRASH, PAPER AND OTHER WASTE ITEMS. COLLECT AND REMOVE THESE ITEMS AT THE END OR EACH WORK DAY.

DUST NUISANCE ORIGINATION

DUST PRODUCED FROM ANY OPERATIONS INSIDE OR OUTSIDE THE RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ITEM 616. WATER AND/OR CALCIUM CHLORIDE SHALL NOT BE APPLIED UNLESS ORDERED BY THE ENGINEER.

PAVEMENT SWEEPING

AS REQUIRED DURING THE COURSE OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP ALL PAVED AREAS AFFECTED BY THE DAY'S WORK. PAVEMENT SHALL BE SCRAPED AND SWEPT TO REMOVE ALL DIRT, MUD AND DEBRIS. INCLUDE THE COST OF THIS WORK IN THE PRICE BID FOR THE EXCAVATION.

CLEARING AND GRUBBING

ALL TREES, STUMPS, ROOTS, SHRUBS AND DEBRIS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE AT A LOCATION LICENSED TO ACCEPT SUCH MATERIAL. REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OR AS NOTED ON THE DRAWINGS SHALL BE PAID FOR UNDER THE LUMP SUM BID FOR SITE WORK, NO CLEARING SHALL OCCUR BETWEEN APRIL 1 AND OCTOBER 1. FOR TREES, REMOVAL INCLUDES THE ROOT MASS. NO ROOT MASS IS PERMITTED WITHIN THE FOOTPRINT OF ANY PAVEMENT (ASPHALT, CONCRETE, AGGREGATE).

PROTECTION AND RESTORATION OF PROPERTY

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER, DURING THE EXECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT OF HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.

- 3. WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY OCCURS TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.
- 4. WHEN SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO AND AS DIRECTED BY THE ENGINEER. AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE SIGNS AND SUPPORTS IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

REMOVAL OF EXISTING STRUCTURES

- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING PIPES, CATCH BASINS, YARD DRAINS, CONCRETE DRAINAGE CHANNELS, GUARDRAILS, LANDSCAPE TIMBERS, AND OTHER ITEMS WITHIN THE LIMITS OF WORK THAT WILL BE ABANDONED OR OTHERWISE NOT USED AS PART OF THE ROADWAY AND STORM SEWER IMPROVEMENTS. ABANDONING PIPES IN PLACE OR FILLING THEM WITH GROUT IS NOT ACCEPTABLE, UNLESS AUTHORIZED BY THE ENGINEER. THE PROPERTY OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL LANDSCAPE ITEMS REMOVED.
- 2. ALL ITEMS REMOVED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR STRUCTURES REMOVED, EXCEPT FOR REMOVAL ITEMS NOTED SEPARATELY. INCLUDE IN PIPE REMOVAL AND CATCH BASIN REMOVAL THE COST OF TRENCH BACKFILL AND COMPACTION. BACKFILL MATERIAL IN TRENCHES UNDER OR WITHIN 3 FEET OF NEW OR EXISTING PAVEMENT SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ODOT ITEM 703.11. BACKFILL MATERIAL ALL OTHER AREAS SHALL BE SUITABLE NATIVE MATERIAL. THERE IS NO SEPARATE PAY ITEM FOR ROADWAY OR DRIVEWAY PAVEMENT REMOVED WHICH IS INCLUDED IN THE EXCAVATION

<u>SIGNS AND POSTS REMOVED</u>

THE CITY OF HUDSON SHALL HAVE FIRST REFUSAL OF ALL SIGNS AND POSTS REMOVED.

MAILBOX RESTORATION

- 1. ALL SUPPORTS FOR MAILBOXES SHALL BE OF THE "BREAKAWAY" TYPE AND AS PER O.D.O.T. DIRECTIVE DH-0-103, MAILBOX SUPPORTS SHALL NOT EXCEED THE MAXIMUM BELOW:

 A. MAXIMUM 4"x 4" TIMBER
- B. MAXIMUM 2-1/2" DIAMETER STANDARD WALL PIPE
- C. ANY MATERIAL WITH THE EQUAL BREAKAWAY CHARACTERISTICS OF THE ABOVE.
- 2. ALL EXISTING MAILBOX SUPPORTS THAT DO NOT CONFORM TO A, B OR C ABOVE, OR WHEN REQUIRED BY THE ENGINEER, SHALL BE REMOVED AND REPLACED AS PER O.D.O.T. SPECIFICATION 107.10 WITH COST INCLUDED IN THE PRICE BID FOR ITEM SPECIAL 107.10 MAIL BOX AND SUPPORT. A NEW MAILBOX SHALL BE INCLUDED. MAIL BOX SHALL BE PVC WITH INTEGRAL PVC POST COVERING. FRONT AND REAR ACCESS DOORS AND COLORED GRAY OR TAN. PROVIDE "MAILMASTER DELUXE" MAIL BOX BY STEP 2, OR EQUAL. POST SHALL BE 4"x4" NOMINAL SIZE TREATED SOUTHERN YELLOW PINE, POST SHALL BE BURIED TO A DEPTH OF 36 INCHES. HEIGHT AND LOCATION OF MAILBOX SHALL BE AS REQUIRED BY THE POSTMASTER. PROVIDE AND INSTALL ADDRESS NUMBERS ON THE NEW MAILBOXES.
- 3. EXISTING MAIL BOXES AND PAPER BOXES SHALL BE TEMPORARILY RELOCATED AS REQUIRED FOR THE CONSTRUCTION TO A LOCATION APPROVED BY THE POSTMASTER, AND REPLACED OR REINSTALLED UPON COMPLETION OF THE WORK TO THE ORIGINAL LOCATION OR NEW LOCATION AS APPROVED BY THE POSTMASTER. INCLUDE ALL COSTS IN THE PRICE BID FOR THE PROPOSED MAIL BOX AND SUPPORT. PAYMENT FOR RELOCATING/REINSTALLING EXISTING MAIL BOXES AND SUPPORTS IS INCLUDED IN MOBILIZATION.

TOPSOIL

EXISTING TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE IN AN APPROVED LOCATION. THE AREA TO BE STRIPPED SHALL INCLUDE THE AREA WHERE THE PROPOSED WORK WILL BE LOCATED. UPON COMPLETION OF THE WORK, THE STOCKPILED TOPSOIL WILL BE EVENLY DISTRIBUTED OVER THE DISTURBED WORK AREA IN A UNIFORM THICKNESS OF AT LEAST 4 INCHES. STOCKPILED TOPSOIL IN EXCESS OF THE AMOUNT NEEDED FOR THE ABOVE NOTED WORK WILL BE WASTED AT A DISPOSAL AREA AS DETERMINED BY THE CITY OF HUDSON.

EXCAVATION / TOPSOIL STOCKPILE

EXCESS EXCAVATION AND TOPSOIL WILL BE STOCKPILED AT <<< >>>. THE EXACT LOCATION WILL BE DETERMINED BY <<< >>>. A CONSTRUCTION ACCESS DRIVE IS REQUIRED ALONG WITH A SILT FENCE FOR SEDIMENT CONTROL. SEEDING AND MULCHING ARE ALSO REQUIRED. THE STOCKPILES SHALL BE GRADED SMOOTH AND COMPACTED TO 90% DENSITY.

DITCHES

STATION AND OFFSET IS PROVIDED ON THE PLAN AT THE BEGINNING OF THE DITCH. DITCHES SHALL BE 6 INCHES DEEP WHERE IT BEGINS.

LINEAR GRADING

CONSTRUCT DITCHES WHERE INDICATED ON THE PLANS PER THE DETAILS. CONSTRUCTING THE DITCH SHALL BE PAID FOR AS PART OF THE EXCAVATION AND EMBANKMENT ITEMS. TOPSOIL, SEEDING, AND EXCELSIOR MATTING WILL BE PAID FOR SEPARATELY.

PAVEMENT MIX DESIGN AND PAVING TABLE

FOR PAVING ITEMS, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DESIGN MIX FOR REVIEW AND APPROVAL PRIOR TO THE PRE—CONSTRUCTION MEETING. ALL MATERIALS USED MUST BE OBTAINED FROM A SOURCE APPROVED BY THE OHIO DEPARTMENT OF TRANSPORTATION.

PRIOR TO PAVING, THE CONTRACTOR WILL PROVIDE A PAVING TABLE FOR EACH LIFT OF ASPHALT TO THE RESIDENT PROJECT REPRESENTATIVE. THE TABLE WILL INDICATE THE ANTICIPATED TONNAGE OF THE ASPHALT AT 100 FOOT STATIONS, BASED ON THE CONTRACTOR'S PAVING PLAN.

ASPHALT TESTING

- 1. QUALITY CONTROL AND ACCEPTANCE TEST REQUIREMENTS SHALL BE AS DESCRIBED IN ITEMS 403, 441, AND 448 WITH THE FOLLOWING MODIFICATIONS.
- 2. THE CONTRACTOR WILL SUBMIT A COPY OF HIS ODOT APPROVED QCP AND ASPHALT MIX DESIGN TO THE ENGINEER AT LEAST TWO WEEKS PRIOR TO BEGINNING ANY PAVING. FOR ITEM 448, MIX DESIGN SHALL BE TYPE 2 M FOR INTERMEDIATE COURSE AND TYPE 1 M FOR SURFACE COURSE. STANDARD RAP LIMITS WILL BE USED. NO SLAG IS PERMITTED IN ANY OF THE ASPHALT MIXES.
- 3. RESULTS OF THE CONTRACTOR'S IN PLACE FIELD DENSITY MEASUREMENTS SHALL BE PROVIDED TO THE ENGINEER AT THE END OF EACH DAYS PAVING, ALONG WITH ASPHALT DELIVERY TICKETS. THE CONTRACTOR SHALL MEASURE AND RECORD ASPHALT SURFACE TEMPERATURE ALONG WITH THE FIELD DENSITY MEASUREMENTS, AND PROVIDE COPIES TO THE ENGINEER AT THE END OF EACH DAYS PAVING.
- 4. QUALITY CONTROL TESTING AND VERIFICATION ACCEPTANCE TESTING IS REQUIRED FOR ITEMS 301 AND 448. THE CITY OF HUDSON WILL UTILIZE AN INDEPENDENT LABORATORY FOR THE DOT'S RESPONSIBILITIES LISTED IN THE SPECIFICATIONS. THE CONTRACTOR WILL COORDINATE WITH THE INDEPENDENT LAB'S REPRESENTATIVE. REPORTS WILL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER THE DAY AFTER EACH DAY OF PAVING.
- 5. FOR CHECKING SURFACE TOLERANCES ON THE INTERMEDIATE AND SURFACE COURSES, THE CONTRACTOR WILL PROVIDE EQUIPMENT DESCRIBED IN ITEM 401.19, FOR USE BY THE CITY'S FIELD REPRESENTATIVE. TO ASSIST IN THIS PROCESS, THE CONTRACTOR WILL PROVIDE ONE WORKMAN TO MOVE THE STRAIGHT EDGE AND PERFORM OTHER TASKS WHILE THE FIELD REP CHECKS THE TOLERANCES.

CONCRETE TESTING

- 1. ALL CONCRETE USED ON THE PROJECT SHALL BE TESTED. THIS INCLUDES CONCRETE FOR ROADS, CURB, DRIVEWAYS, THRUST BLOCKING, FILL INSIDE CATCH BASINS, AND FOR ANY OTHER PURPOSE ON THE PROJECT. A MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO BEGINNING WORK. A TICKET FOR EACH LOAD DELIVERED TO THE PROJECT SHALL BE PROVIDED TO THE FIELD REPRESENTATIVE. TICKET SHALL INCLUDE ALL INFORMATION REQUIRED IN ODOT 499.08. CONCRETE SHALL BE TESTED FOR AIR, SLUMP, AND COMPRESSIVE STRENGTH. EACH LOAD SHALL BE CHECKED FOR AIR AND SLUMP. FOUR (4) TEST SPECIMENS WILL BE MADE FROM EVERY THIRD TRUCK STARTING WITH THE FIRST TRUCK EACH DAY THAT CONCRETE IS DELIVERED TO THE JOBSITE AND/OR EACH TIME THE MIX IS CHANGED. TEST ONE CYLINDER AT 7 DAYS AND ONE AT 28 DAYS, TWO ARE SPARES. SUBMIT A COPY OF EACH REPORT TO THE ENGINEER IMMEDIATELY AFTER THE TEST IS CONDUCTED. ALL TEST REPORTS FOR THE MONTH MUST BE SUBMITTED BY THE TIME OF THE CONTRACTOR'S PAY REQUEST SUBMITTAL, OR THE SUBMITTAL WILL BE CONSIDERED INCOMPLETE AND WILL BE RETURNED TO THE CONTRACTOR.
- 2. NOTE THAT FOR DRIVEWAYS, A CONCRETE BEAM SHALL ALSO BE MADE AND TESTED FOR EACH DAY'S POUR.

- DRIVEWAY RECONSTRUCTION

 1. INSTALL NEW APRONS AND RECONSTRUCT DRIVEWAYS TO THE RIGHT-OF-WAY OR AS NOTED IN THE DRAWINGS. NEW CONCRETE AND/OR GRAVEL APRONS AND PORTIONS OF CONCRETE DRIVES SHALL BE MADE USING 3" THICK ITEM 304 AGGREGATE BASE, AND ITEM 451 REINFORCED CONCRETE PAVEMENT (6" THICK FOR RESIDENTIAL AND 8" THICK FOR COMMERCIAL). REINFORCING SHALL BE 6"x6" WIRE FABRIC PER ITEM 709.10. ASPHALT AND/OR GRAVEL APRONS AND PORTIONS OF ASPHALT DRIVES NOTED FOR REPLACEMENT SHALL BE MADE USING 3" THICK ITEM 304 AGGREGATE BASE, ITEM 301 ASPHALT CONCRETE BASE (3½" THICK FOR RESIDENTIAL AND 5" THICK FOR COMMERCIAL), TACK COAT AT 0.1 GAL/SY, AND 1¼" THICK ITEM 448 TYPE I ASPHALT CONCRETE SURFACE COURSE. PORTIONS OF GRAVEL DRIVES NOTED FOR REPLACEMENT SHALL BE 8" THICK ITEM 304 AGGREGATE BASE (RESIDENTIAL) OR 10" THICK ITEM 304 AGGREGATE BASE (COMMERCIAL). DIMENSIONS SHALL BE AS SHOWN ON THE DRAWINGS.
- 2. DRIVEWAYS DISTURBED BEYOND THE LIMITS OF THE BACK OF WALK SHALL BE RECONSTRUCTED USING THE SAME TYPE OF MATERIAL AS THE EXISTING. CONCRETE FOR RECONSTRUCTION SHALL BE AS NOTED ABOVE. ASPHALT DRIVEWAYS SHALL BE CONSTRUCTED OF 4" THICK OF ITEM 301 ASPHALT CONCRETE BASE, 3" THICK OF ITEM 304 AGGREGATE BASE AND 2" THICK OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE. GRAVEL DRIVES SHALL BE 4" THICK STONE TO MATCH EXISTING TYPE FOR EACH AGGREGATE DRIVEWAY.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS RESIDENTS TO MINIMIZE THE INCONVENIENCE WITH NEW DRIVEWAYS AND APRONS INSTALLED. POUR DRIVEWAYS ONE—HALF WIDTH AT A TIME OR MAKE OTHER ARRANGEMENTS WITH THE PROPERTY OWNERS THAT ARE ACCEPTABLE TO THEM.
- 4. ALL CONCRETE SHALL BE CLASS QC-1. REOPEN DRIVE 24 HOURS AFTER POURING. MAKE AND BREAK ONE BEAM FOR EACH DAYS POUR. INCLUDE COSTS IN PRICE BID FOR CONCRETE.

AGGREGATE FOR TEMPORARY DRIVEWAYS

THE CONTRACTOR SHALL PROVIDE A TEMPORARY DRIVE IMMEDIATELY FOLLOWING REMOVAL OF THE DRIVE. TEMPORARY DRIVES SHALL BE CONSTRUCTED OF <<< >>> OR AS OTHERWISE PROVIDED BY THE CONTRACTOR. THIS WILL BE CONSIDERED AS PART OF <<< >>> AND THERE WILL BE NO SEPARATE PAY ITEM.

SUBGRADE REPAIR

THE CONTRACTOR IS OBLIGATED TO DISK AND DRY WET SUBGRADE SOILS AS DESCRIBED UNDER ITEM 203.07. ALLOW TIME IN THE CONSTRUCTION SCHEDULE FOR THIS OPERATION. THIS WORK IS CONSIDERED INCIDENTAL TO EARTHWORK AND THERE WILL BE NO ADDITIONAL PAYMENT. HOWEVER, AREAS OF EXTREMELY WET OR UNSUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION OR PROOF ROLLING OPERATIONS SHALL BE ADDRESSED AS FOLLOWS:

- 1. THE CONTRACTOR SHALL CONDUCT THIS OPERATION UNDER THE SUPERVISION OF THE CITY OF HUDSON REPRESENTATIVE WHO SHALL THEN DETERMINE WHAT AREAS WILL REQUIRE ADDITIONAL DRYING AND COMPACTION OR BE DEEMED UNSUITABLE AND EXCAVATED AND REPLACED WITH SUITABLE MATERIAL FROM ONSITE OR OFFSITE. WHEN ORDERED BY THE ENGINEER, SUBGRADE REPAIR SHALL BE PERFORMED. THIS INCLUDES REMOVAL OF EXISTING MATERIAL TO 18" DEEP, INSTALLATION OF TYPE 'D' GEOTEXTILE FABRIC (ODOT ITEM 712.09), AND 18" OF NO. 1 AND NO. 2 STONE TOPPED WITH 2" OF ITEM 304 GRAVEL, THOROUGHLY COMPACTED IN PLACE.
- 2. ONCE THE AREAS HAVE BEEN REPAIRED, THE CONTRACTOR SHALL CONDUCT ANOTHER PROOF ROLL OF THESE AREAS UNDER THE SUPERVISION OF THE CITY OF HUDSON REPRESENTATIVE TO ENSURE ALL UNSTABLE/UNSUITABLE AREAS HAVE BEEN CORRECTED. NO BASE MATERIAL SHALL BE PLACED FOR ROADWAY CONSTRUCTION UNTIL THE CITY OF HUDSON REPRESENTATIVE HAS ISSUED APPROVAL OF THE SUBGRADE FOR THE ENTIRE ROADWAY TO BE PAVED. THE CONTRACTOR SHALL ONLY PERFORM THE SUBGRADE REPAIR UNDER THE DIRECTION OF THE ENGINEER.

PAVEMENT RESTORATION FOR PIPE INSTALLATION

- 1. INSTALL ASPHALT BASE TO THE SURFACE OF EXISTING PAVEMENT FOR PIPE TRENCHES LOCATED WITHIN EXISTING PAVEMENT.
- 2. ITEM 301, ASPHALT CONCRETE BASE THICKNESS SHALL BE 6 INCHES AND THE PAVEMENT WIDTH SHALL INCLUDE THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.
- 3. PROVIDE MATERIALS OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

STORM SEWER

- 1. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, ITEM 706.02, CLASS III, WALL B, WITH GASKET JOINTS; CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH INTERIOR LINER, ITEM 707.33, WITH GASKET JOINTS, OR REINFORCED CONCRETE ELLIPTICAL PIPE ITEM 706.04.
- 2. ALL STORM SEWER LENGTHS SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 3. BEDDING SHALL BE CLASS B PER ITEM 603.04 EXCEPT THAT SLAG AND CRUSHED CONCRETE IS NOT PERMITTED. BEDDING SHALL EXTEND FROM 6" BELOW THE BOTTOM OF PIPE TO THE SPRINGLINE (FOR CONCRETE PIPE) AND TO 12"ABOVE THE THE TOP OF PIPE (FOR POLYETHYLENE PIPE). BACKFILL SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ITEM 703.11 WHERE STORM SEWER IS PLACED BELOW AND/OR BEHIND CURB, PAVEMENT AND/OR DRIVES, OR WHEN THE EDGE OF THE TRENCH IS WITHIN 3 FEET OF SUCH. BACKFILL SHALL BE SUITABLE NATIVE MATERIAL WHERE STORM SEWER IS PLACED BELOW ROADSIDE DITCHES.
- 4. ROOF DRAINS, FOUNDATION DRAINS AND SEPTIC DRAINS SHALL BE PVC, ASTM D-3034, SDR 35. BEDDING SHALL BE TYPE 2 PER ITEM 603.06 AND BACKFILL SHALL BE NATIVE MATERIAL COMPACTED PER ITEM 603.10, SECTION D.
- 5. ALL BACKFILL IN TRENCHES SHALL BE PLACED IN 6" LIFTS AND COMPACTED USING MECHANICAL TAMPERS. COMPACTION RATES SHALL BE PER ITEM 603.11.

6. STORM SEWER INSTALLATION SHALL INCLUDE: EXCAVATING FOR PIPE AND FOUNDATIONS FOR SAME, INCLUDING CLEARING AND GRUBBING AND THE REMOVAL OF ALL MATERIALS NECESSARY FOR PLACING THE PIPE EXCEPT REMOVALS LISTED SEPARATELY; FURNISHING AND PLACING OF BEDDING AND BACKFILL AS REQUIRED; CONSTRUCTING AND SUBSEQUENTLY REMOVING ALL NECESSARY COFFERDAMS, CRIBS AND SHEETING; PUMPING AND DEWATERING; SEALING OR BANDING ALL PIPE JOINTS WHERE REQUIRED; FURNISHING AND INSTALLING ALL NECESSARY PIPE BENDS AND BRANCHES OF A TYPE AT LEAST EQUAL TO THE CONDUIT OF WHICH THEY BECOME A PART; JOINING TO THE EXISTING AND PROPOSED APPURTENANCES AS REQUIRED; CORE DRILLING EXISTING STRUCTURES FOR CONNECTING TO NEW STORM SEWERS; PERFORMING LEAKAGE TESTS AS SPECIFIED; RESTORATION OF DISTURBED FACILITIES AND SURFACES; AND PROVIDING EROSION CONTROL PADS AND ANIMAL GUARDS ON UNDERDRAIN AT ALL OUTLETS.

MANHOLE LIDS IN PAVEMENT

MANHOLE LIDS MUSH BE SET TO THE PAVEMENT CROSS SLOPE. GRADE RING SHALL HAVE VARIABLE THICKNESS TO ACHIEVE THE REQUIRED CROSS SLOPE ACROSS THE LID.

MANHOLES, CATCH BASINS AND INLETS REMOVED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY THE CITY OF HUDSON. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR PERTINENT 202 ITEM.

HOUSE CONNECTION

- 1. EXISTING ROOF DRAINS, YARD DRAINS, OR SEPTIC DRAINS DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTION TO STORM SEWER MANHOLE, CATCH BASIN, OR AS DIRECTED BY THE ENGINEER. PROVIDE FITTINGS AND CONNECTORS AS REQUIRED FOR ALL CONNECTIONS. THE COST OF WHICH WILL BE INCLUDED IN THE PRICE BID FOR PIPE. CONNECTIONS TO STORM SEWERS SHALL BE MADE USING MANUFACTURED FITTINGS SUCH AS KOR-N-TEE CONNECTORS, OR EQUAL. A CLEAN OUT SHALL ALSO BE PROVIDED.
- 2. THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. QUANTITIES OF 4" AND 6" CONDUIT HAVE BEEN INCLUDED IN THE BID SCHEDULE FOR RECONNECTING EXISTING DRAINS. THESE ITEM SHALL NOT BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER.

WATER MAINS

SEE SHEET 35 FOR WATER MAIN NOTES AND DETAILS

SANITARY SEWER AND APPURTENANCES

ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN STRICT
 ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS (OEPA 3MA00001*AM) OF THE
 DEPARTMENT OF SANITARY SEWER SERVICES (D.S.S.S)

- 2. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. ORDINANCE NO. 85-656 APPROVED 10/8/85.
- 3. APPROVAL BY D.S.S.S. CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS, OR SPECIFICATIONS.
- 4. THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES IN EXISTING AND PROPOSED ROADS AND EASEMENTS ARE SHOWN.
- ALL SANITARY SEWERS SHALL PASS THE AIR ACCEPTANCE TEST PRIOR TO ACCEPTANCE BY D.S.S.S.
- 6. ALL SANITARY SEWERS SHALL BE VIDEO TAPED BY THE OWNER AND FOUND TO BE FREE OF DEFECTS AND FOREIGN MATTER AND IN PROPER ALIGNMENT PRIOR TO FORMAL ACCEPTANCE BY D.S.S.S.
- 7. ALL MANHOLES SHALL BE SUPPLIED WITH SOLID COVERS.
- 8. ALL SANITARY LATERALS SHALL BE EXTENDED LESS THAN 15 FEET INTO THE PROPERTY.
- 9. ALL SANITARY LATERALS SHALL BE LAID AT NO LESS THAN 1% GRADE.
- 10. SANITARY SEWER MATERIALS SHALL CONFORM TO D.S.S.S. AND O.E.P.A. STANDARDS.
- 11. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWERAGE SYSTEM RESULTING FROM NON—CONFORMANCE WITH SUMMIT COUNTY STANDARDS OR GENERAL NEGLIGENCE.
- 12. A 12" MINIMUM MANHOLE GRADE ADJUSTMENT IS PERMITTED. ADJUSTMENT IS TO BE MADE WITH PRECAST GRADE RINGS OR INFRA-RISER RUBBER RISER RINGS. A MINIMUM OF ONE (1) GRADE RING IS REQUIRED AT EACH MANHOLE
- 13. INTERNAL CHIMNEY SEALS SHALL BE INSTALLED IN ALL MANHOLES.
- 14. MANHOLE COVER INSERTS SHALL BE PROVIDED FOR ALL MANHOLES.
- 15. WHERE INLET AND OUTLET PIPES CONNECT TO MANHOLES, A FLEXIBLE WATERTIGHT JOINT, APPROVED BY D.S.S.S. IS REQUIRED.
- 16. SANITARY SEWER MATERIAL SHALL CONSISTS OF PVC SDR-35 MEETING ASTM D3034 WITH JOINTS CONFORMING TO ASTM D3212. *(CHECK STANDARDS FOR APPROVED MATERIAL AND ASTM SECTIONS)*
- 17. THE OWNER (CONTRACTOR) MUST ALERT OHIO UTILITIES PROTECTION SERVICE AT 811 AT LEAST 45 HOURS BEFORE ANY EXCAVATION HAS BEGUN.
- 18. ALL ROUGH GRADING (WITHIN 6" OF FINISHED GRADE) SHALL BE COMPLETED WITHIN THE RIGHT-OF-WAY PRIOR TO SANITARY SEWER CONSTRUCTION.
- 19. NO SEWER CONSTRUCTION WILL BE PERMITTED UNTIL SUCH TIME THAT THE PLANS ARE APPROVED BY D.S.S.S. AND THE O.E.P.A INCLUDING PAYMENT OF REVIEW AND "PERMIT TO INSTALL FEES REQUIRED BY THE O.E.P.A,
- 20. ALL SANITARY SEWERS CONTAINED HEREIN ARE TO BE PUBLICLY OWNED AND MAINTAINED. (AS APPLICABLE)

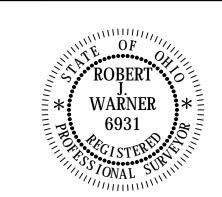




BLIC IMPROVEMENTS Y OF HUDSON - PHASE 2A



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GENERAL NOTES

2018-10-1

DATE ISSUED:

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EXHIBIT A GENERAL CONSTRUCTION NOTES

- CONSTRUCTION OF THE SITE WORK AND UTILITIES SHALL BE GOVERNED BY THE CITY OF HUDSON'S 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION', LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE PROJECT.
- THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICES AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.
- 4. ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
- THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES ARE SHOWN AS THEY APPEAR ON EXISTING RECORDS OR FIELD LOCATED.
- 6. ALL KNOWN ABOVE AND UNDERGROUND SERVICES HAVE BEEN NOTED ON THE DRAWINGS. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY SERVICES DAMAGED DURING THE CONSTRUCTION OF THE PROJECT WHETHER SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SERVICE AS SOON AS POSSIBLE AT THE CONTRACTOR'S OWN EXPENSE.
- VIDEO TAPING OF PROJECT SHALL BE DELIVERED AND ACCEPTED BY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 14 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- 8. NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF FORTY-EIGHT HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION.
- 9. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS (2 WORKING DAYS) AFTER SUBMISSION OF A MINIMUM OF 6 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED IMPROVEMENTS. A PRECONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY CONSTRUCTION.
- 10. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRECONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- 11. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AS DIRECTED BY THE CITY OF HUDSON AND/OR ITS ENGINEER.
- 12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF HUDSON OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE
- 13. ALL DISTURBED STORM SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILING, MAIL AND/OR PAPER BOXES, DRIVE CULVERTS, FENCES, TREES, LANDSCAPING, OR OTHER ITEMS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED OR REPAIRED TO AT LEAST THE BEFORE-CONSTRUCTION CONDITION.
- 14. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY THE CITY OF
- 15. NUCLEAR COMPACTION TESTING SHALL BE REQUIRED FOR ALL FILL AREAS OVER TWO FEET (2') IN DEPTH, AT 6" LIFTS PER ASTM A-1557, 95% MODIFIED.
- 16. APPROVAL BY THE CITY OF HUDSON ENGINEER CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
- 17. DURING TAPPING OF EXISTING UTILITIES, ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CITY OF HUDSON WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY.
- 18. COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ACT OF 1970 IS REQUIRED BY ALL CONTRACTORS ON THIS PROJECT.
- 19. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- 20. ALL DISTURBED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED AS PER SECTION 9 -LANDSCAPING AND STREET TREES OF THE CITY'S 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- 21. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OFSUCH AS DIRECTED BY THE CITY OF HUDSON OR ITS ENGINEER AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
- 22. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 667 OR 668.
- 23. ALL STORM SEWERS WITHIN PUBLIC RIGHTS-OF-WAY AND CITY OF HUDSON EASEMENTS SHALL BE PER SECTION 4 - STORM COLLECTION OF THE CITY'S 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION". LATEST EDITION.
- 24. ALL PIPES SHALL BE PLACED OVER 4" OF BEDDING. BEDDING MATERIAL SHALL BE AS SPECIFIED IN CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION". LATEST EDITION, FOR THE TYPE OF PIPE.
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF HUDSON POLICE DEPARTMENT.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
- 27. ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO REJECT ANY DELIVERED MATERIAL WHICH DOES NOT CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.
- 28. THE CITY OF HUDSON OR ITS REPRESENTATIVE, RESERVES, THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
- 29. ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE REAPPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
- 30. ALL PAVING MATERIAL MUST BE PROVIDED BY ODOT CERTIFIED SUPPLIER. WRITTEN PROOF SHALL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY OF HUDSON PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.
- 31. CONTRACTOR/DEVELOPER SHALL PROVIDE ALL REQUIRED ROADWAY SIGNAGE AS PER ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES INCLUDING STREET IDENTIFICATION SIGNAGE PER CITY STANDARDS FOR ALL ASPECTS OF THE IMPROVEMENT.

- 32. ALL BONDS AND OR LETTERS OF CREDIT SHALL NOT BE RELEASED OR REDUCED AND NO WATER OR SANITARY SEWER CUSTOMERS CAN BE CONNECTED UNTIL ALL RECORD DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF HUDSON.
- 33. ALL WORK, EXCEPT SIDEWALKS, STREET TREES AND STREET LIGHTS, AS PART OF THESE PLANS SHALL BE COMPLETED, INCLUDING PUNCH LIST ITEMS AND DEFICIENCY WORK WITHIN 1 YEAR OF THE DATE OF APPROVAL BY THE CITY ENGINEER. SIDEWALKS, STREET TREES AND STREET LIGHTS SHALL BE COMPLETED WITHIN TWO YEARS OF THE DATE OF APPROVAL BY THE CITY ENGINEER.
- 34. FAILURE TO COMPLETE THE PROJECT IN ITS ENTIRETY AS APPROVED BY THE PLANNING COMMISSION, INCLUDING PUNCH LIST ITEMS, WILL RESULT IN THE CITY OF HUDSON HOLDING ALL FUTURE ZONING CERTIFICATES UNTIL ALL WORK HAS BEEN COMPLETED AND APPROVED.
- 35. MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED AS PER THE CITY'S 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION PRIOR TO THE START OF CONSTRUCTION.
- 36. THE CONSTRUCTION OF SANITARY SEWERS, WATER MAINS, LIFT STATIONS AND APPURTENANCES IS PROHIBITED UNTIL ALL PLANS HAVE BEEN APPROVED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY.
- 37. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST
- 38. ALL SANITARY SEWERS CONSTRUCTED IN SUMMIT COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (SC-DOES) SERVICE DISTRICTS AND SERVED BY SC-DOESSHALL COMPLY WITH SC-DOES REQUIREMENTS.
- 39. SHOP DRAWINGS FOR THE PROPOSED LIGHT FIXTURES SHALL BE ATTACHED TO THE APPROVED LIGHTING PLAN AND SUBMITTED WITH THE SIX SETS OF PLANS AS REQUIRED IN NOTE 8. THE LIGHT FIXTURES SHALL HAVE A RECESSED LAMP, FLAT LENSES AND OPTIONAL HOUSE SHIELDING AVAILABLE. THE CITY MAY REQUIRE HOUSE SHIELDS TO BE ADDED AND OTHER MODIFICATIONS AFTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR.
- 40. THE OWNER SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) OBTAIN AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) OR THE LATEST FEDERAL, STATE AND/OR LOCAL REGULATIONS. THE OWNER SHALL SUBMIT A COPY OF THE N.P.D.E.S. PERMIT TO THE CITY OF HUDSON 48 HOURS (2 WORKING DAYS) PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.

<u>EXHIBIT B WATERWORK NOTES CITY OF HUDSON WATER SERVICE AREA</u> NOTE: THESE WATER WORK NOTES APPLY TO AREAS OF HUDSON THAT ARE TO BE SERVEDWITH CITY OF HUDSON WATER.

- 1. ALL WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AND ALL AREAS ALONG THE ROUTE OF THE WATER MAIN. THIS WILL INCLUDE LAWNS, DRIVES, DITCHES, CULVERTS, LANDSCAPING, ETC, AND ANY OTHER AREAS DISTURBED DURING THE CONSTRUCTION PROCESS.
- 3. ALL TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF HUDSON 'ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AND BE COORDINATED WITH THE CITY OF HUDSON. AWWA C-600 PRESSURE TESTING AND C-651 DISINFECTION BY CHLORINATION OF THE WATER MAIN WILL BE REQUIRED.
- 4. ALL PROPOSED TRENCHES LOCATED UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE FILLED WITH LOW STRENGTH MORTAR. THE METHOD OF BACKFILLING AS DIRECTED BY THE ENGINEER, SHALL CONFORM TO ODOT 613 TYPE 1. SLAG OR FLYASH IS NOT PERMITTED IN MIX. PAVEMENT INCLUDES, BUT IS NOT LIMITED TO, ROADWAY SURFACES, SIDEWALKS, BIKE WAYS, DRIVEWAYS, SHOULDERS, ETC. THE LIMITS OF THE LOW STRENGTH MORTAR SHALL INCLUDE 450 ANGLE OF REPOSE FROM ALL EDGES OF PAVEMENT.
- 5. FIELD STAKING AND RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY BY THE CONTRACTOR, AS SUPERVISED AND STAMPED BY A LICENSED PROFESSIONAL SURVEYOR. RECORD DRAWINGS (AS-BUILTS) IN BOTH REPRODUCIBLE AND DIGITAL FORMAT COMPATIBLE WITH THE CITY OF HUDSON STANDARDS TO BE SUBMITTED TO AND APPROVED BY THE CITY OF HUDSON PRIOR TO UTILITY SERVICE CONNECTIONS BEING MADE.
- 6. A 4' MINIMUM HORIZONTAL CLEARANCE AND A 12" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF THE STORM SEWER
- 7. A 10' MINIMUM HORIZONTAL CLEARANCE AND AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF ALL SANITARY SEWERS AND/OR FORCE MAIN PIPE.
- 8. ALL VALVES, FITTINGS, BENDS, TEES, ETC. SHALL HAVE MEGALUG JOINT RESTRAINTS BY EBBA IRON, INC.
- 9. ALL WATER MAINS WITHIN LOW STRENGTH MORTAR BACKFILL SHALL BE WRAPPED IN POLYETHYLENE AS PER AWWA C-105. OTHER AREAS TO BE WRAPPED IN POLYETHYLENE SHALL BE AS SHOWN ON THE DRAWINGS, AS DETERMINED FROM DIPRA REPORT OR AS REQUIRED BY THE CITY.
- 10. WHERE WATER MAINS CROSS SEWER TRENCHES. THE TRENCH IS TO BE BACKFILLED WITH ODOT 304 CRUSHED LIMESTONE.
- 11. TAPPING SLEEVES SHALL BE ROMAC TYPE, WRAP AROUND STAINLESS STEEL WITH #316 STAINLESS STEEL BOLTS AND NUTS.
- 12. MANUFACTURER'S AFFIDAVIT: THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT ALL PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE REFERENCED STANDARDS. A COPY OF EACH AFFIDAVIT, INDICATING THE PROJECT ON WHICH THE MATERIAL IS TO BE USED SHALL BE FORWARDED TO THE CITY OF HUDSON PRIOR TO THE PRECONSTRUCTION MEETING BEING SCHEDULED.
- 13. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE CITY MAY GRANT SPECIAL PERMISSION FOR BUILDINGS FOUR STORIES AND HIGHER WITH AFIRE SUPPRESSION SYSTEM.
- 14. PROPOSED FACILITIES SHALL BE DESIGNED TO MAINTAIN A MINIMUM OF 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 15. ALL WATER MAINS GREATER THAN 12 INCH DIAMETER SHALL BE LAID TO GRADE WITH HIGH POINTS AND LOW POINTS HAVING ADEQUATE BLOW-OFFS VIA USE OF HYDRANTS.
- 16. FOR ALL NON-RESIDENTIAL WATER SERVICE, A BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER CITY OF HUDSON AND OEPA STANDARDS AND REQUIREMENTS. FOR RESIDENTIAL WATER SERVICE A BACKFLOW PREVENTION DEVICE MAY BE REQUIRED FOR SWIMMING POOLS, IRRIGATION SYSTEMS, ETC. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE REQUIREMENTS AND STANDARDS FOR BACKFLOW PREVENTION. THERMAL EXPANSION CONTROL. ETC.

- 17. ALL WATER METER SETTINGS MUST BE APPROVED BY THE CITY OF HUDSON. METERS SHALL BE MAGNETIC DRIVE, WITH A SCAN CODE REMOTE READ, MUST READ IN CUBIC FEET, SET WITH VALVES BEFORE AND AFTER THE METER. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE AND RUN A REMOTE WATER METER WIRE FROM THE PROPOSED WATER METER LOCATION TO THE VICINITY OF THE PROPOSED ELECTRIC METER LOCATION. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE COMPLETE STANDARDS AND REQUIREMENTS FOR WATER METERS, PRESSURE REGULATORS,
- 18. FOR NEW WATER MAIN CONSTRUCTION THE DRAWINGS SHALL HAVE BEEN REVIEWED BY THE OHIO EPA AND WRITTEN APPROVAL RECEIVED PRIOR TO THE START OF CONSTRUCTION.

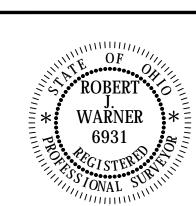




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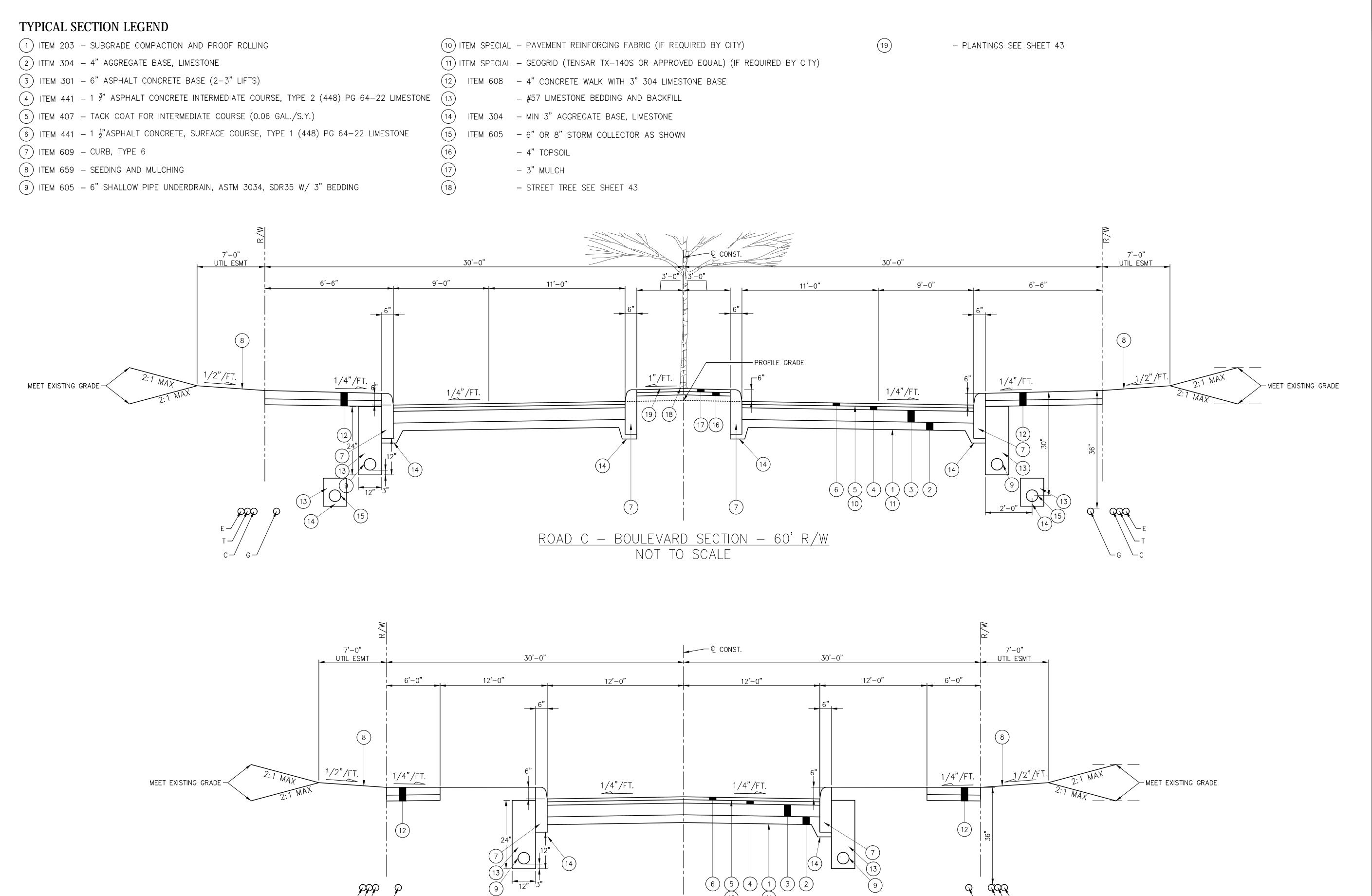


REVISIONS A DATE DESCRIPTION PROJECT NO. 17-00257-020 DRAWN BY: NLM RJW CHECKED BY:

> CITY OF HUDSON GENERAL NOTES

2018-10-13

DATE ISSUED:



ROAD C - SECTION - 60' R/W NOT TO SCALE

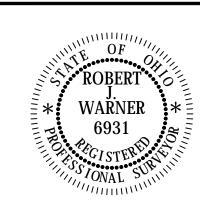




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HUDSON DOWNTOWN PHASE 2 PUBLIC IMPROVEMENTS

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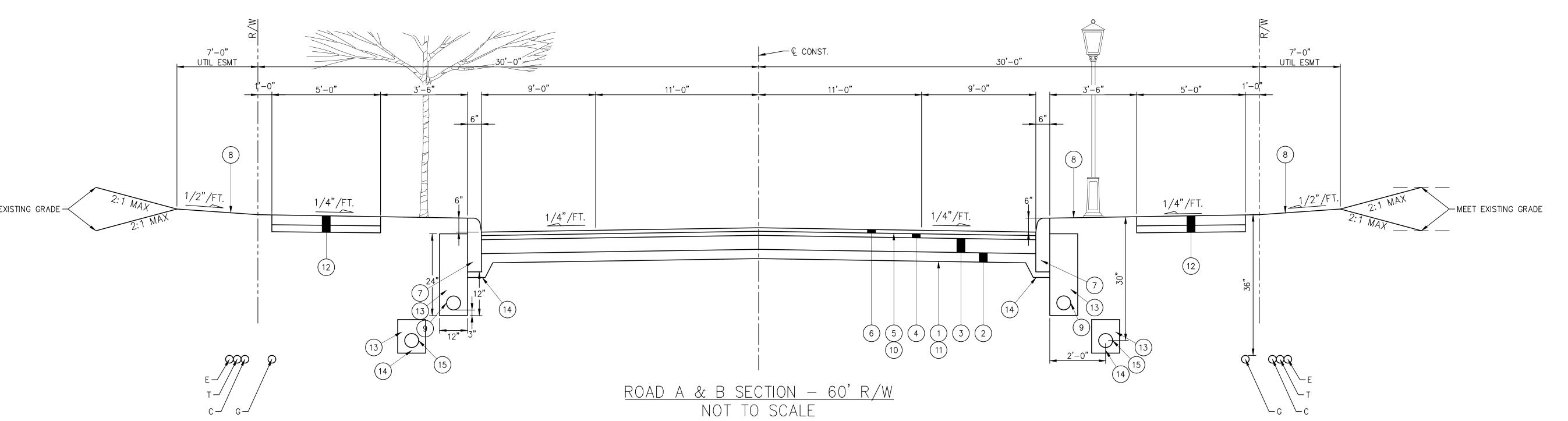
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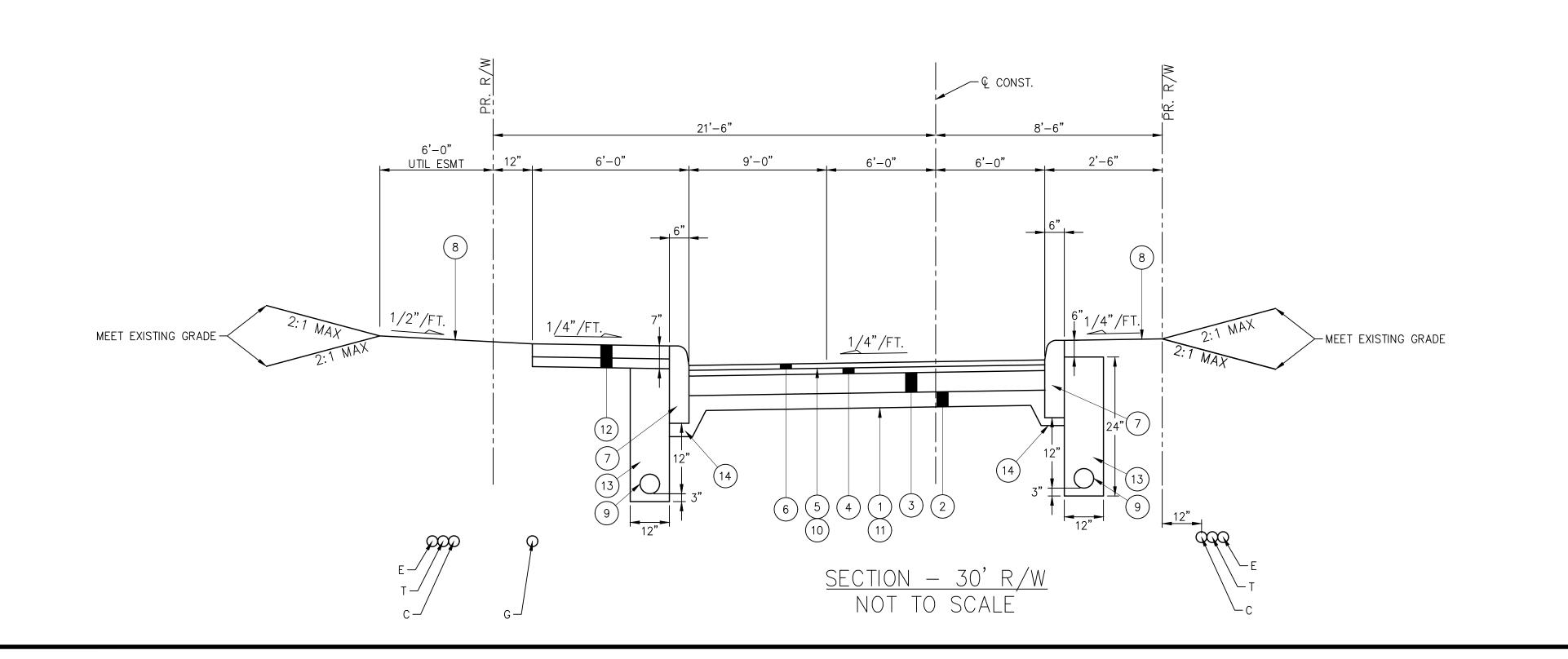
TYPICAL SECTIONS

TYPICAL SECTION LEGEND

- 1) ITEM 203 SUBGRADE COMPACTION AND PROOF ROLLING
- 2 ITEM 304 4" AGGREGATE BASE, LIMESTONE
- 3 ITEM 301 6" ASPHALT CONCRETE BASE (2-3" LIFTS)
- (4) ITEM 441 1 $\frac{3}{4}$ " ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448) PG 64–22 LIMESTONE (13)
- (5) ITEM 407 TACK COAT FOR INTERMEDIATE COURSE (0.06 GAL./S.Y.)
- (6) ITEM 441 -1 $\frac{1}{2}$ "ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 (448) PG 64-22 LIMESTONE
- 7 ITEM 609 CURB, TYPE 6
- 8 ITEM 659 SEEDING AND MULCHING
- 9 ITEM 605 6" SHALLOW PIPE UNDERDRAIN, ASTM 3034, SDR35 W/ 3" BEDDING

- (10) ITEM SPECIAL PAVEMENT REINFORCING FABRIC (IF REQUIRED BY CITY)
- (11) ITEM SPECIAL GEOGRID (TENSAR TX-140S OR APPROVED EQUAL) (IF REQUIRED BY CITY)
- (12) ITEM 608 4" CONCRETE WALK WITH 3" 304 LIMESTONE BASE
- #57 LIMESTONE BEDDING AND BACKFILL
- (14) ITEM 304 MIN 3" AGGREGATE BASE, LIMESTONE
- (15) ITEM 605 6" OR 8" STORM COLLECTOR AS SHOWN





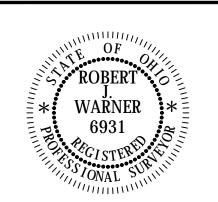




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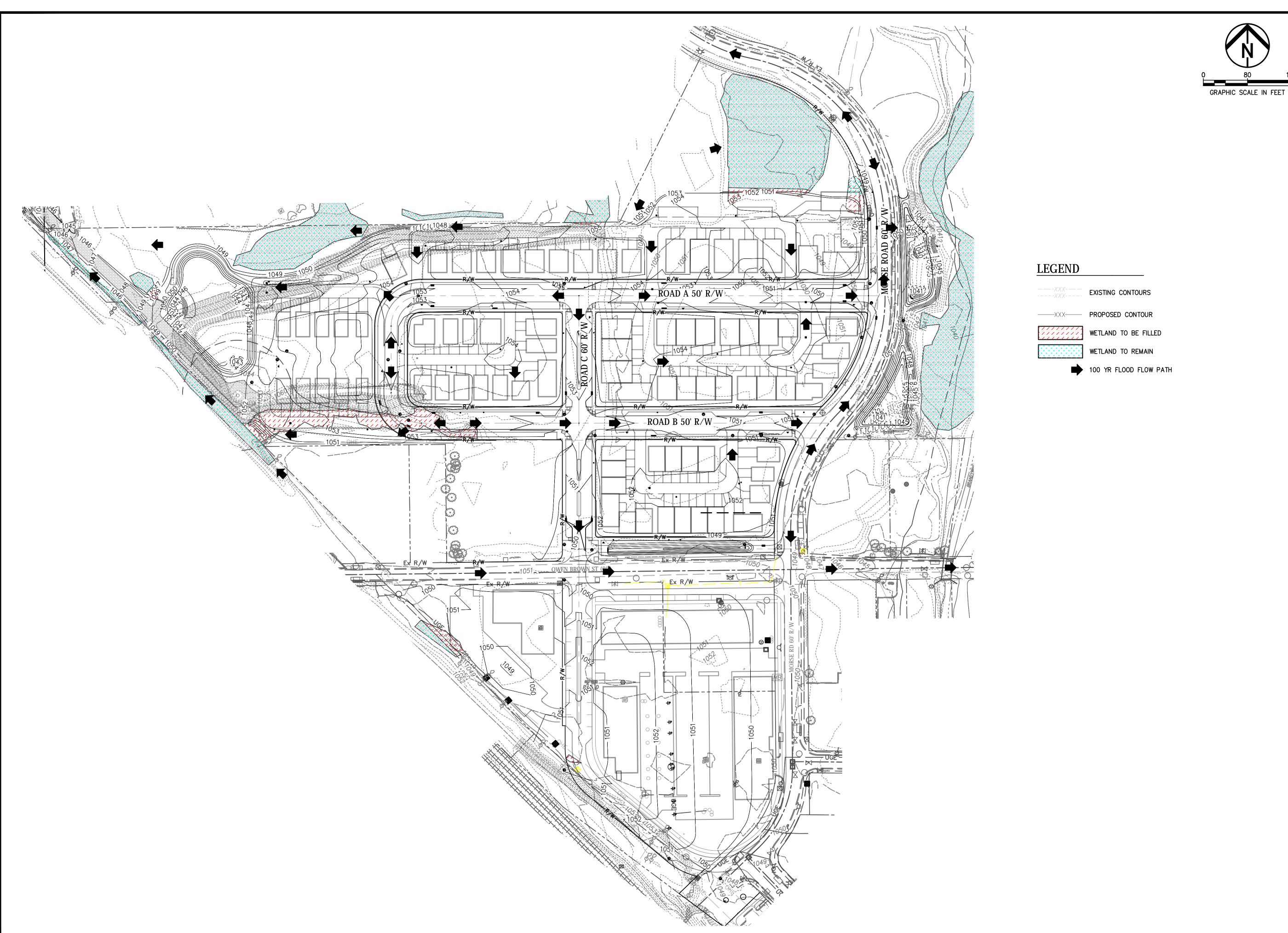




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PROJECT NO.:	17-00257-020
DRAWN BY:	NLM
CHECKED BY:	RJW
DATE ISSUED:	2018-10-15

TYPICAL SECTIONS







Know what's below. Call before you dig.

HUDSON DOWNTOWN PHASE 2 PUBLIC IMPROVEMENTS

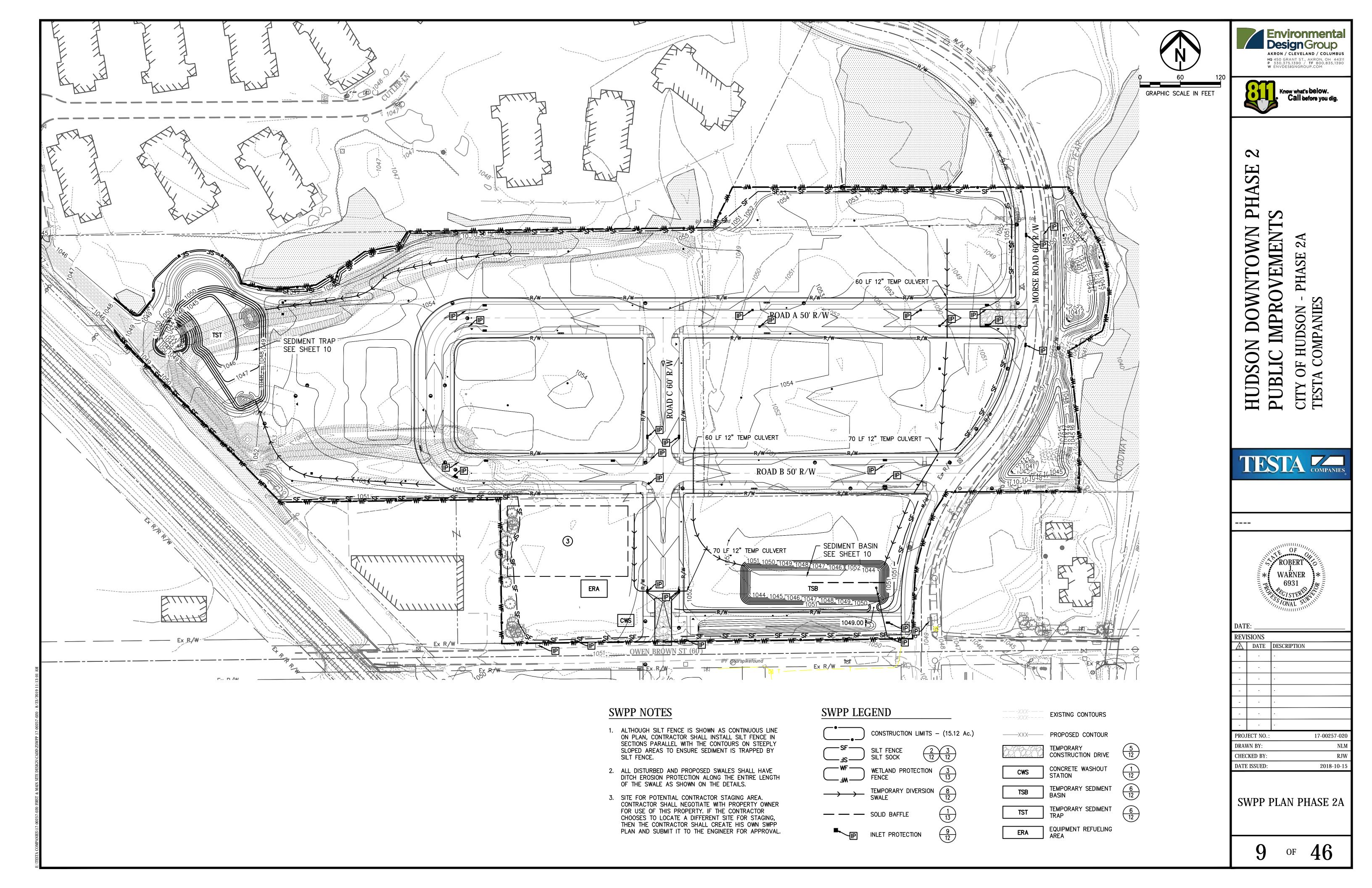
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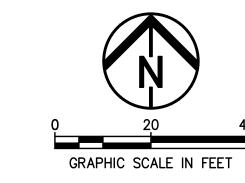
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OVERALL GRADING PLAN







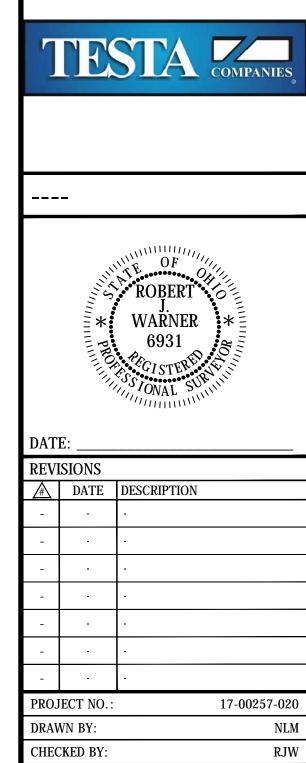






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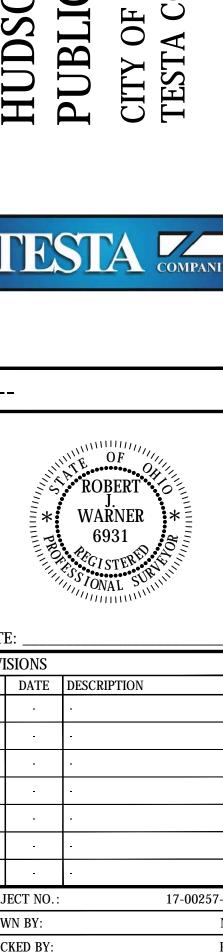


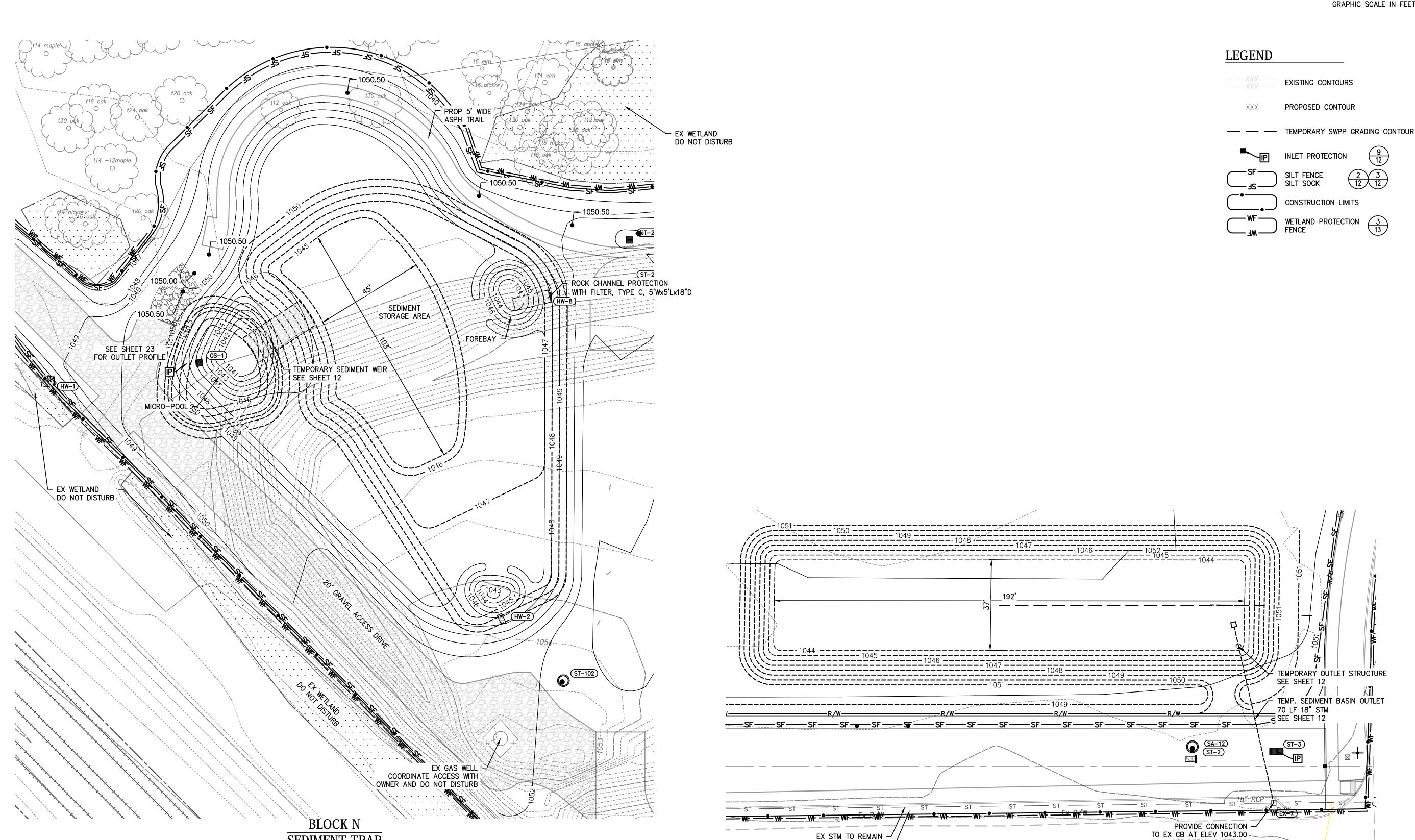
SWPP PLAN

2018-10-15

DATE ISSUED:

SEE DETAIL SHEET 20





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STORMWATER POLLUTION PREVENTION PLAN NOTES 1 CONSTRUCT IN ACCORDANCE WITH THESE PLANS

- CONSTRUCT IN ACCORDANCE WITH THESE PLANS, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD CONSTRUCTION DRAWING DM-4.4 AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT #OHCO00005. IF CONFLICTS EXIST REGARDING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- 2. STABILIZATION OF DISTURBED AREAS DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY LIVE STREAM, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON—VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- 3. INSTALL ALL EROSION/SEDIMENT CONTROL ITEMS BEFORE ANY CLEARING/GRUBBING OR EARTHWORK HAS STARTED.
- 4. PROTECT UNDISTURBED AREAS THROUGHOUT CONSTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES OR MATERIALS IN THESE PROTECTED AREAS.
- 5. SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 6. MULCHING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 7. TOPSOILING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 8. EXCELSIOR MATTING/EROSION CONTROL BLANKETS WILL BE USED ON TEMPORARY DIVERSION CHANNELS AND DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES STEEPER THAN 6%. EXCELSIOR MATTING/EROSION BLANKETS SHALL BE USED.
- 9. SILT FENCE AND/OR SILT SOCK SHALL BE AS DETAILED ON THE DRAWINGS.
- 10. ROCK CHANNEL PROTECTION SHALL BE AS SPECIFIED IN ODOT CMS ITEM 703.19, TYPE C ROCK.
- 11. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- 12. OFF-SITE VEHICLE TRACKING OF SEDIMENTS WILL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- 13. SEDIMENT TRAPS AND BASINS WILL BE USED FOR TEMPORARY EROSION CONTROL.
- 14. OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- 15. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH SUMMIT S.W.C.D. (330-929-2871) PRIOR TO BEGINNING WORK.
- 16. TRUCK WASHOUT AND DISCHARGE OF SURPLUS WASH WATER ON SITE IS PERMITTED EXCLUSIVELY IN THE DESIGNATED AREA.
- 17. WINTERIZATION ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
- 18. TRENCH WATER MUST BE PUMPED THROUGH A SEDIMENT SETTLING FACILITY OR EQUALLY EFFECTIVE DEVICE PRIOR TO DISCHARGE FROM THE SITE.
- 19. STAGING, STORAGE, FUELING AND VEHICLE PARKING ARE SHOWN ON THE SWPP PLAN. IF THE CONTRACTOR WANTS TO UTILIZE A DIFFERENT LOCATION FOR THESE FUNCTIONS, HE SHALL REVISE THE SWPP PLAN AND SUBMIT IT TO SUMMIT S.W.C.D. FOR APPROVAL.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 21. DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

MAINTENANCE AND INSPECTION:

PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION A MINIMUM OF ONCE EVERY 7 DAYS AND AFTER STORM

EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND CORRECTIVE MEASURES TAKEN.

REPAIRS:

ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING PRACTICES SHALL BE EXECUTED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUN-OFF. THE JOB SITE SUPERINTENDENT IS RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED:

- 1. STORE THE MINIMUM AMOUNT OF PRODUCT REQUIRED TO COMPLETE THE JOB, IF POSSIBLE, UNDER ROOF OR IN A CONTAINMENT AREA. PRODUCTS SHALL REMAIN IN THEIR ORIGINAL CONTAINER. LABEL MUST BE LEGIBLE
- 2. MANUFACTURER'S RECOMMENDATION SHALL BE FOLLOWED FOR USE AND
- 3. PRODUCT TO BE USED ENTIRELY (WHEN POSSIBLE) PRIOR TO DISPOSING.
- 4. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES USED ON THE SITE SHALL BE OBTAINED AND POSTED IN THE IMMEDIATE AREA OF PRODUCT STORAGE AND SHALL BE USED FOR PROPER MANAGEMENT OF POTENTIAL WASTE.
- 5. ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED BY THE CONTRACTOR IN A MANNER SPECIFIED BY LOCAL, STATE OR FEDERAL REGULATIONS AND PER MANUFACTURERS RECOMMENDATIONS.
- 6. ALL PERSONNEL SHALL BE TRAINED IN THE PROPER HANDLING AND CLEAN UP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF NECESSARY, THE CONTAMINATED STORMWATER WILL BE HELD ON SITE UNTIL IT MEETS LOCAL, STATE AND FEDERAL REGULATIONS.
- 7. IN THE EVENT OF A SPILL THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
 A. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 B. THE PROJECT MANAGER AND ENGINEER OF RECORD IMMEDIATELY NOTIFIED.
 - C. ANY SPILLS OF TOXIC OR HAZARDOUS MATERIALS MUST BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCY. THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) MUST BE NOTIFIED WHEN A SPILL EXCEEDS THE REPORTABLE QUANTITY OF A SUBSTANCE. THE SUBSTANCES AND AMOUNTS ARE LOCATED IN FEDERAL REGULATIONS (40 CFR 110, 114 AND 302).
- D. IF A SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPP PLAN MUST BE MODIFIED WITHIN 7 DAYS PROVIDING A DESCRIPTION, DATE AND INCIDENT OF THE RELEASE.
- 8. THE MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, SOAPS AND SOLVENTS USED IN CLEANING VEHICLES, WASHOUT OF CONCRETE, PAINT OR STUCCO, FORM RELEASE OILS, OR CURING COMPOUNDS SHALL BE AWAY FROM STORM WATER DRAINAGE WAYS.
- 9. FUEL TANKS MUST HAVE SECONDARY CONTAINMENT IN THE EVENT OF A LEAK OR SPILL.
- 10. OPEN BURNING ON SITE IS A PROHIBITED ACTIVITY.
- 11. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF AT AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714 AND LOCAL REGULATIONS.

PRODUCT SPECIFIC PRACTICES:

- 1. PETROLEUM PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ANY ON SITE PETROLEUM STORAGE TANKS WILL HAVE A CONTAINMENT STRUCTURE AROUND IT FOR POTENTIAL SPILLS. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED WHEN ANY ASPHALT SUBSTANCES ARE USED ON SITE.
- 2. FERTILIZERS THE MANUFACTURER'S RECOMMENDED MINIMAL AMOUNTS SHALL BE APPLIED AND WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS WILL BE TRANSFERRED TO SEALABLE PLASTIC BINS AND STORED UNDER COVER, AWAY FROM STORMWATER DRAINAGE WAYS.

SITE LOCATION INFORMATION		41°14'39.6"N		
		81°26'47.9"W		
CITY OF HUDSON	SUMMIT			
CITY, VILLAGE, TOWNSHIP	COUNTY	STATE		
BRANDYWINE CREEK				
NAME OF WATERSHED/IMMEDIATE RECEIVING WATER(S)				
95 OWEN BROWN STREET HUDSON, OHIO				
SITE ADDRESS				
TESTA COMPANIES	(330) 928–1988			
DEVELOPER	PHONE			
2335 2nd St, Cuyahoga Falls, OH 44221				
DEVELOPER ADDRESS				
HYDROLOGIC SOIL GROUPS:				
Tr — Trumbull silt loam, 0 to 2 percent slopes				
MgA — Mahoning silt loam, 0 to 2 percent slopes				
MgB — Mahoning silt loam, 2 to 6 percent slopes				
Mn — Mahoning—Urban land complex, 0 to 2 percent slopes				
EIC2 — Ellsworth silt loam, 6 to 12 percent slopes, eroded				
Uf — Udorthents, sanitary landfill				
Or — Orrville silt loam				

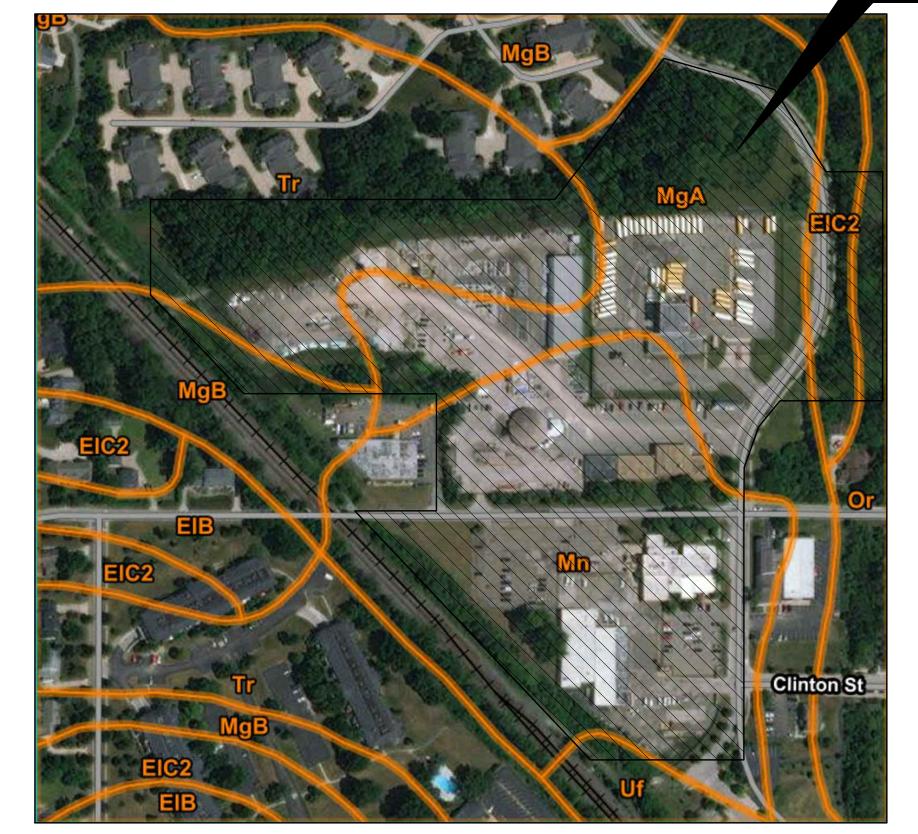
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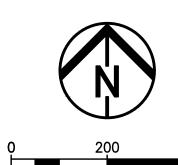
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SUBDIVISION	_	PRE-DEV CURVE NO.	_	91
COMMERCIAL	_	POST DEV CURVE NO.	_	90
RESIDENTIAL	• -	AREA TO BE CLEARED	_	1.64 AC
PUD	_	AREA TO BE EXCAVATED	_	10.46 AC
OTHER	_	PRE-DEV IMPERVIOUSNESS	_	65%
		POST DEV IMPERVIOUSNESS	_	56%

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ACCEPTABLE EROSION CONTROL TIMETABLE												
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TEMPORARY SEEDING	•	•	•	•	•	•	•	•	•	•	•	•
PERMENANT SEEDING	•	•	•	•	•	•	•	•	•	•	•	•
LANDSCAPING	•	•	•	•	•	•	•	•	•	•	•	•
MULCHING	•	•	•	•	•	•	•	•	•	•	•	•
MAINTENANCE	•	•	•	•	•	•	•	•	•	•	•	•

PROJECT LOCATION





GRAPHIC SCALE IN FEET

SOILS MAP





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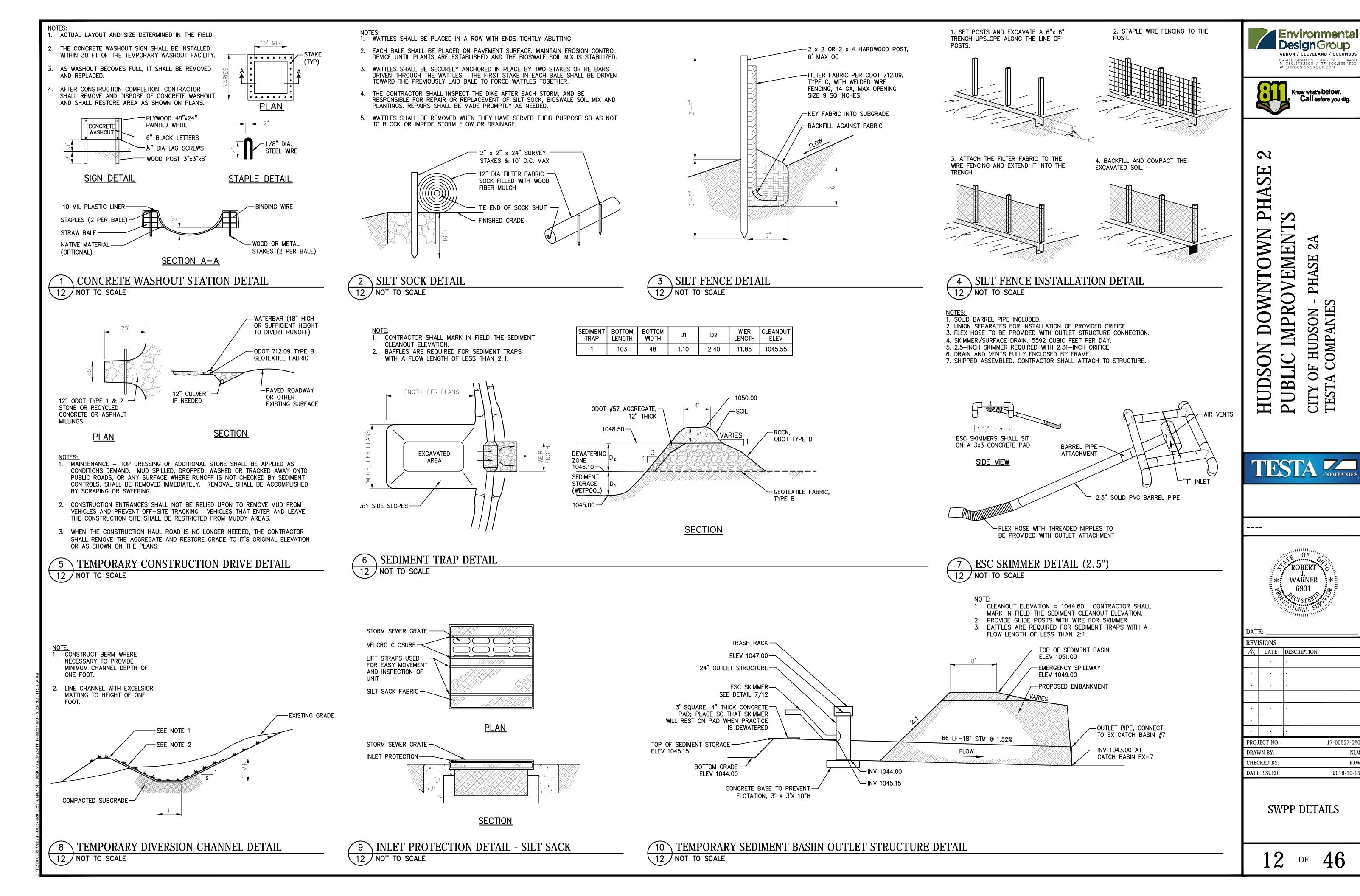
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SWPP NOTES

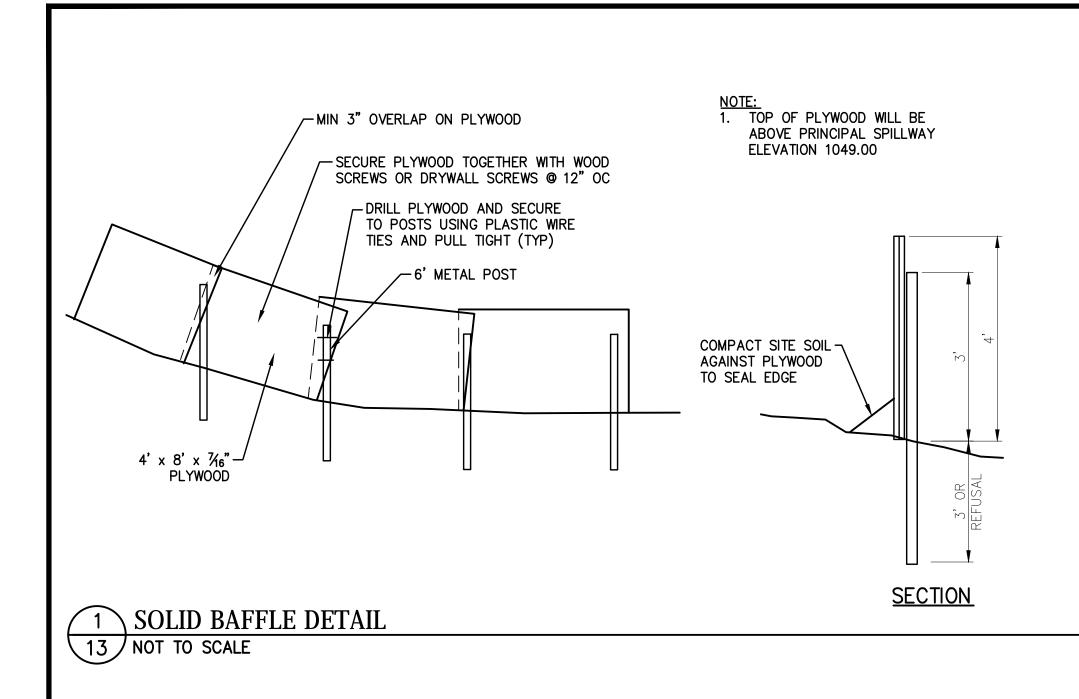


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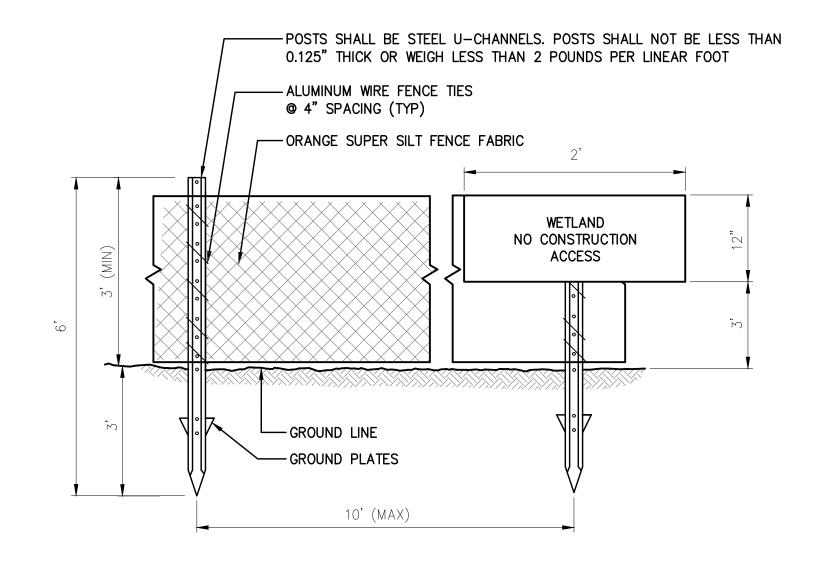
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NOTES:

1. FENCING SHALL BE INSTALLED ALONG THE PERIMETER OF WETLAND AREA PRIOR TO START OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. SIGNS WILL BE INSTALLED AT 50 FEET OC ALONG THE FENCED IN PROTECTION. SIGNS AND FENCING SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND REMOVED AS DIRECTED BY THE ENGINEER.

2. INSTALL FENCE FABRIC ON WINDWARD SIDE OF POSTS.



2 WETLAND PROTECTION FENCE DETAIL
13 NOT TO SCALE





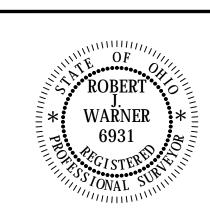
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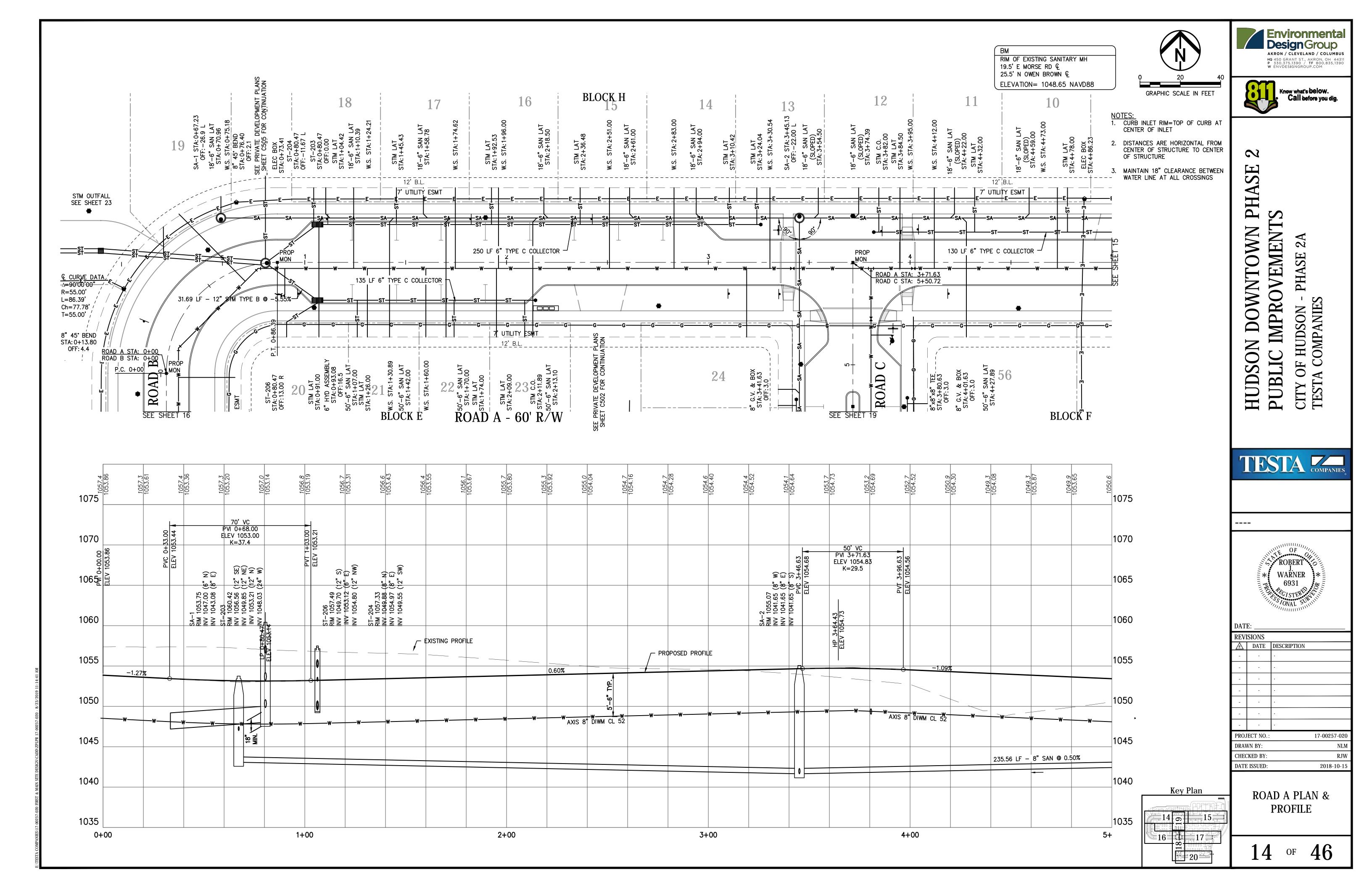


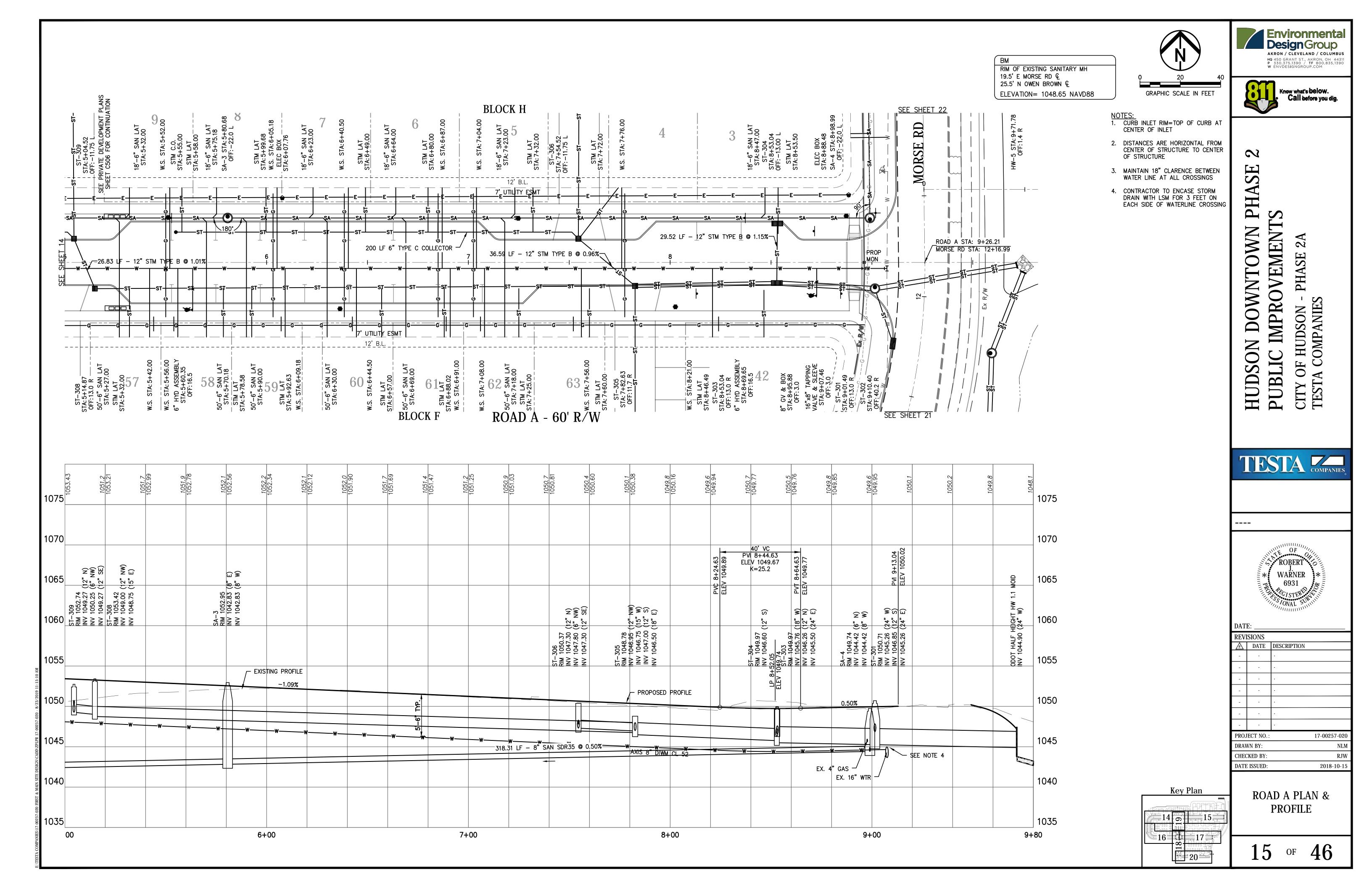
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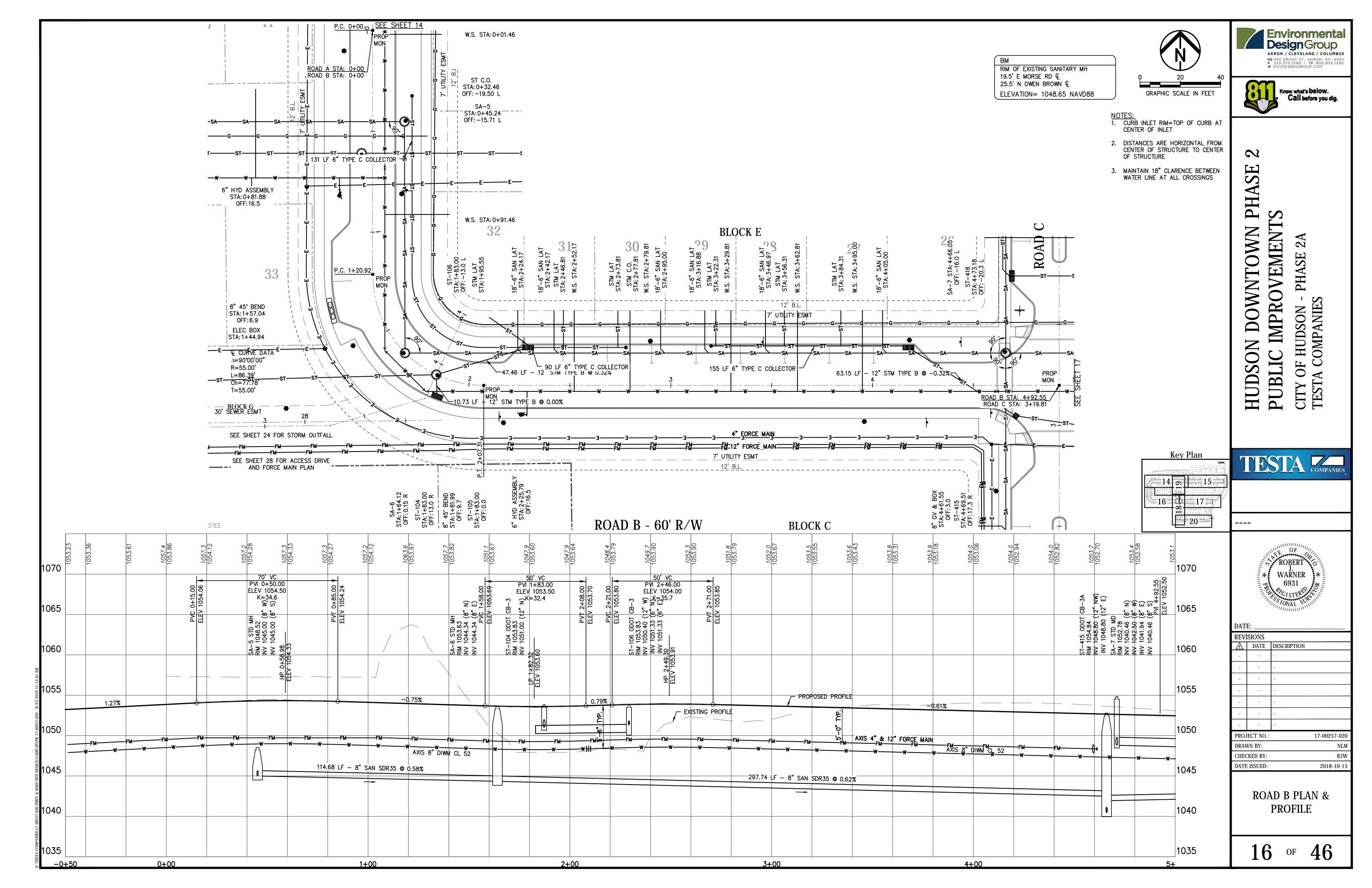
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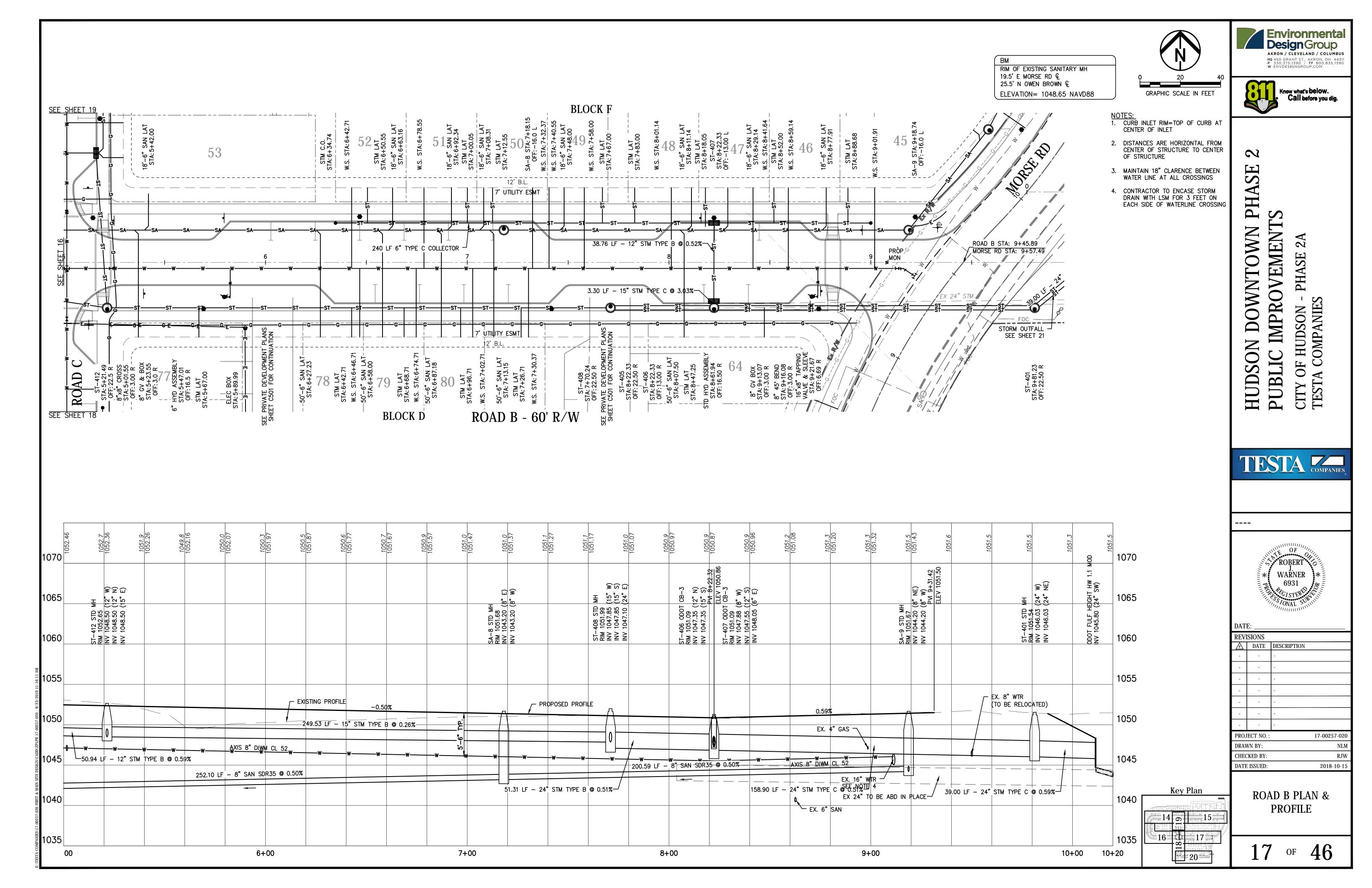
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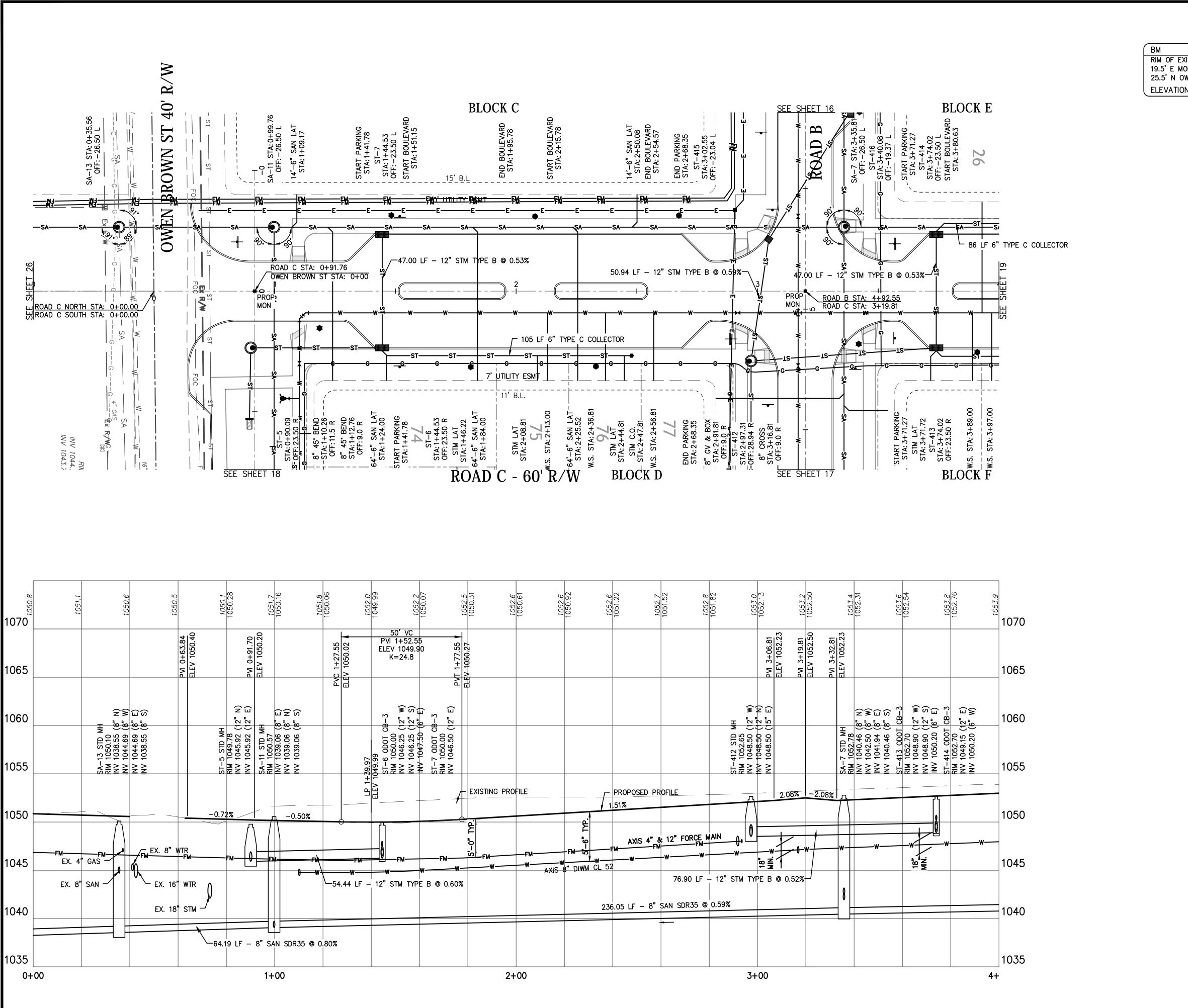
SWPP DETAILS





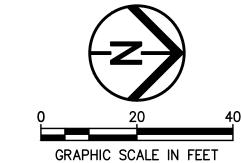






RIM OF EXISTING SANITARY MH 19.5' E MORSE RD © 25.5' N OWEN BROWN ©

ELEVATION= 1048.65 NAVD88



- NOTES:

 1. CURB INLET RIM = TOP OF CURB AT CENTER OF INLET
- DISTANCES ARE HORIZONTAL FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
- 3. MAINTAIN 18" CLARENCE BETWEEN WATER LINE AT ALL CROSSINGS
- 4. BEGIN/END OF BOULEVARD = FACE OF CURB

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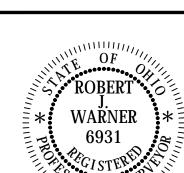
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ROAD C PLAN & **PROFILE**

RJW

2018-10-15

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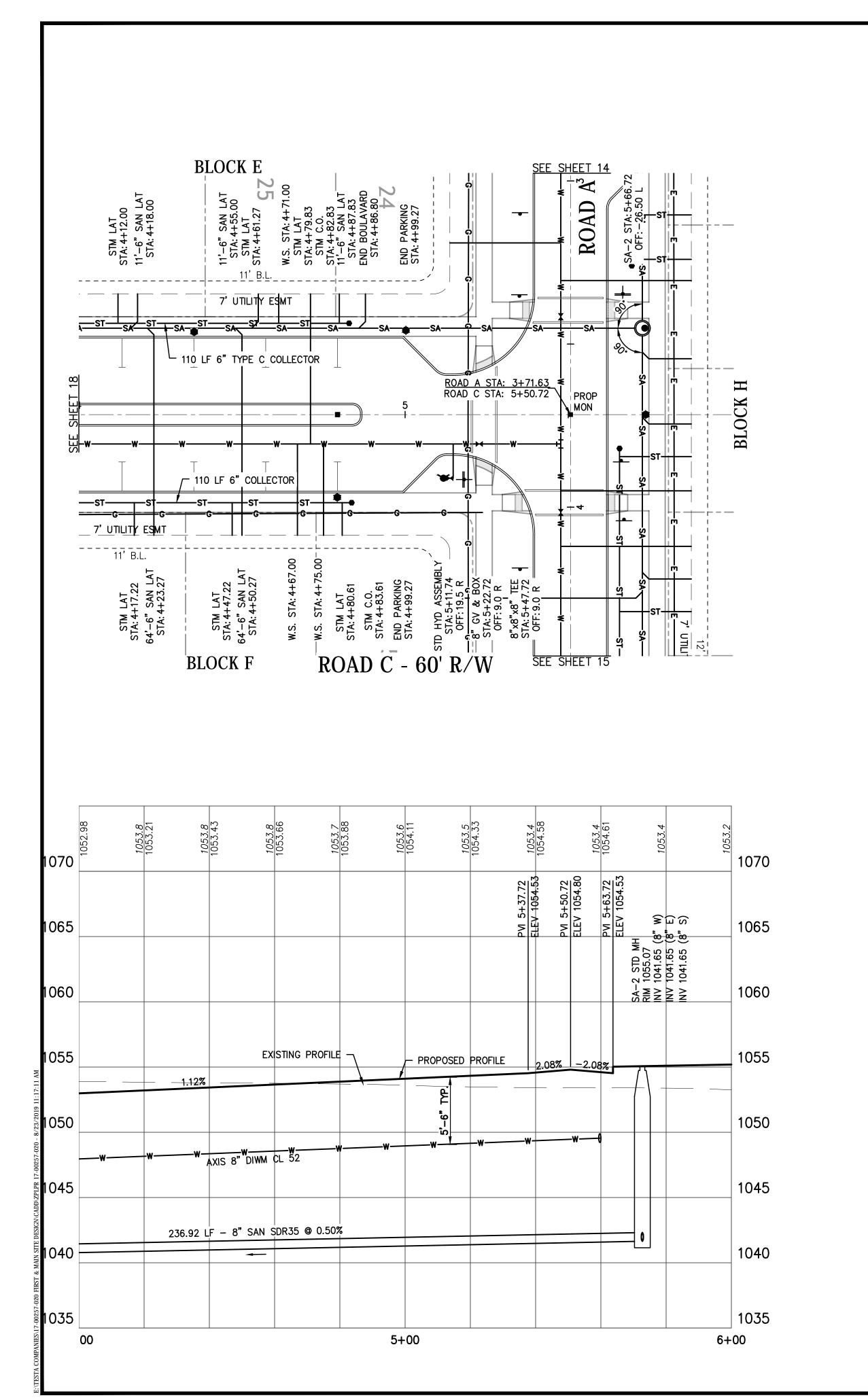
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Key Plan

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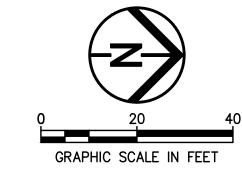
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18 OF



RIM OF EXISTING SANITARY MH
19.5' E MORSE RD ©
25.5' N OWEN BROWN ©

ELEVATION= 1048.65 NAVD88





- NOTES:

 1. CURB INLET RIM=TOP OF CURB AT CENTER OF INLET
- DISTANCES ARE HORIZONTAL FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE 3. MAINTAIN 18" CLARENCE BETWEEN WATER LINE AT ALL CROSSINGS
- 4. BEGIN/END OF BOULEVARD = FACE OF CURB

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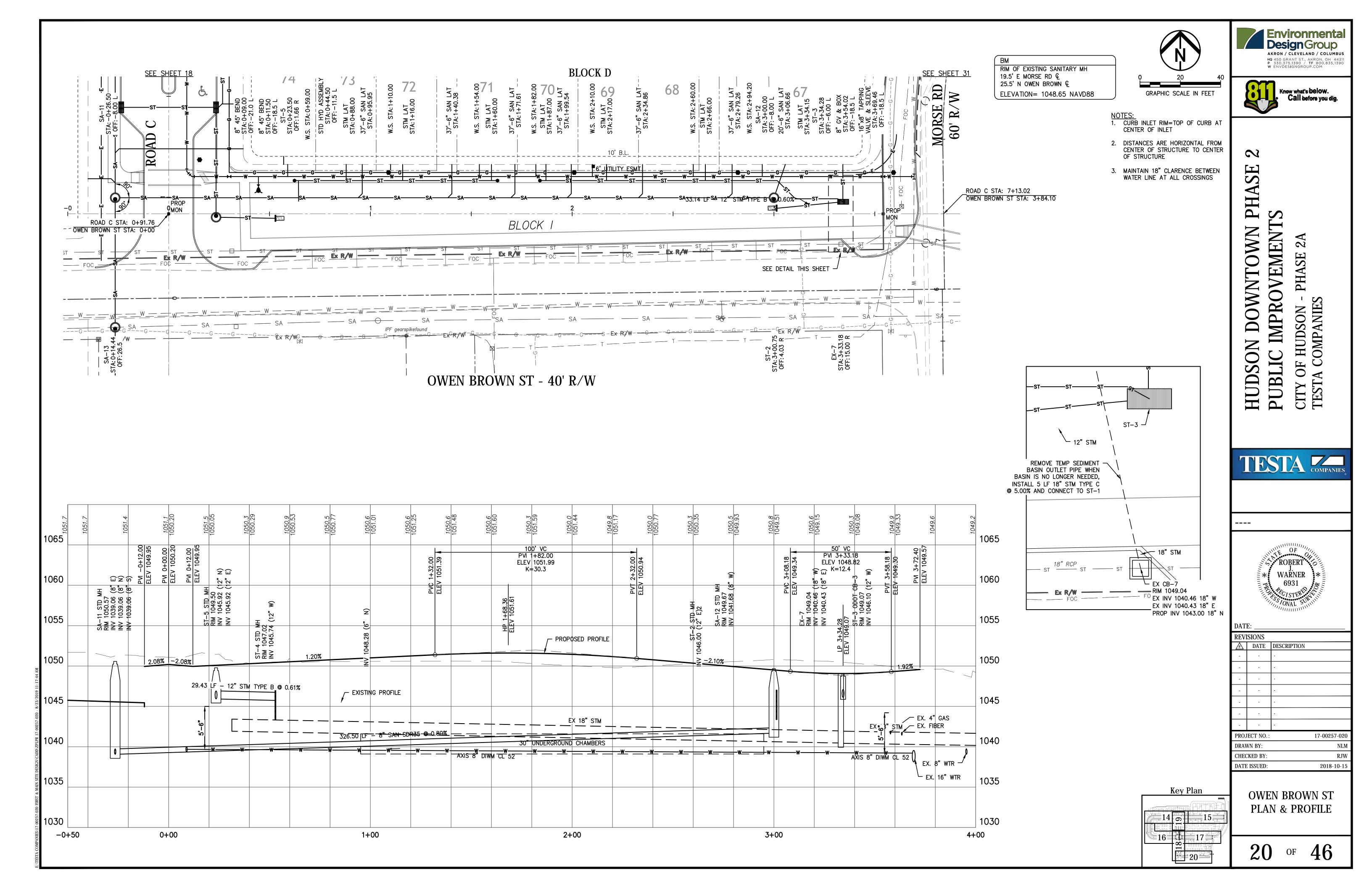
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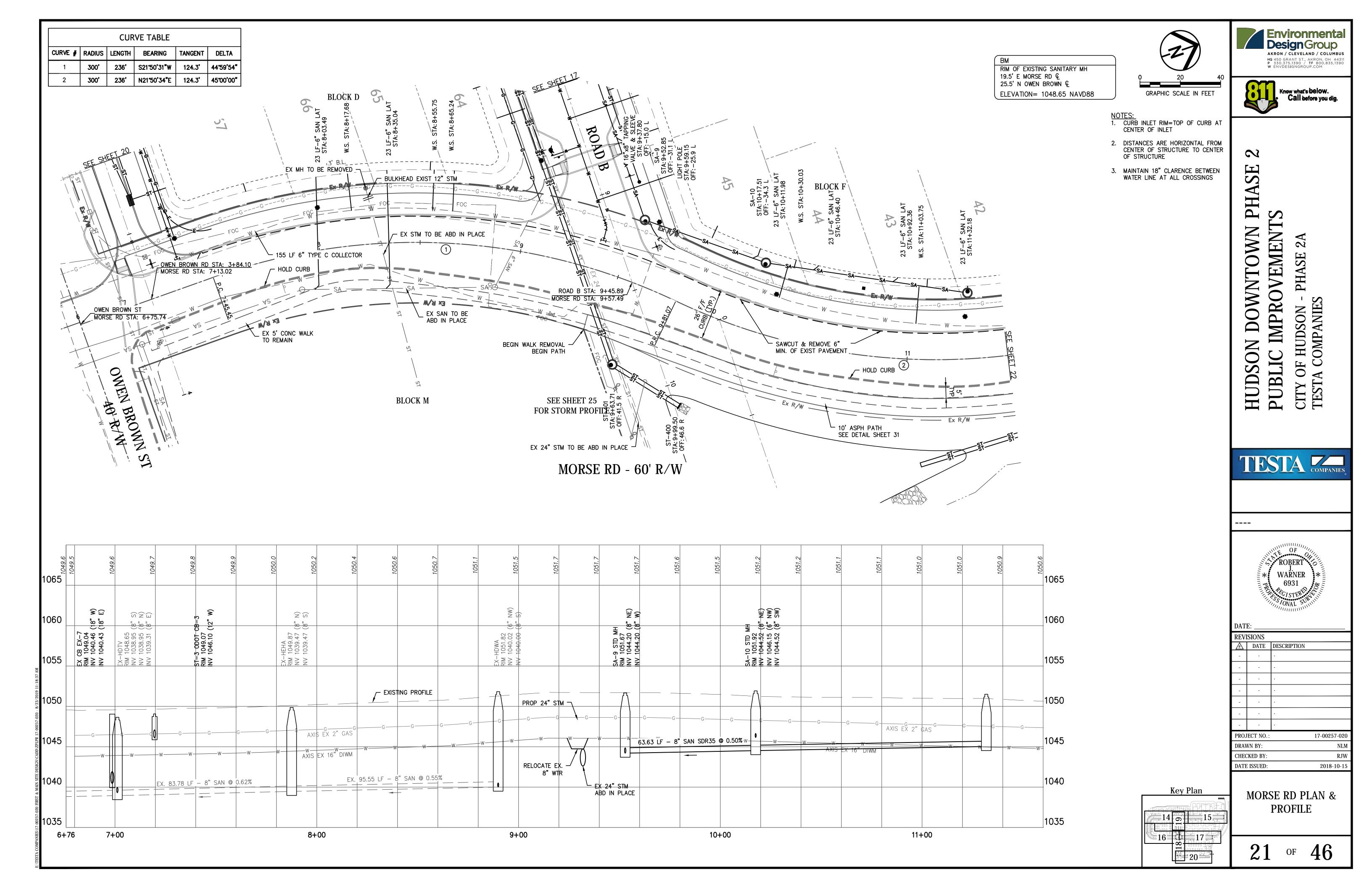
ROAD C PLAN & **PROFILE**

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19 of 46

Key Plan

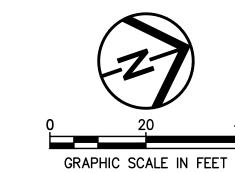




CURVE TABLE CURVE # RADIUS LENGTH TANGENT **BEARING** DELTA 301' 408' 242.4'

RIM OF EXISTING SANITARY MH
19.5' E MORSE RD ©
25.5' N OWEN BROWN ©

ELEVATION= 1048.65 NAVD88





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NOTES:

1. CURB INLET RIM=TOP OF CURB AT CENTER OF INLET

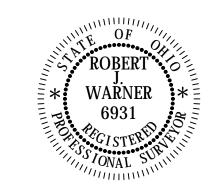
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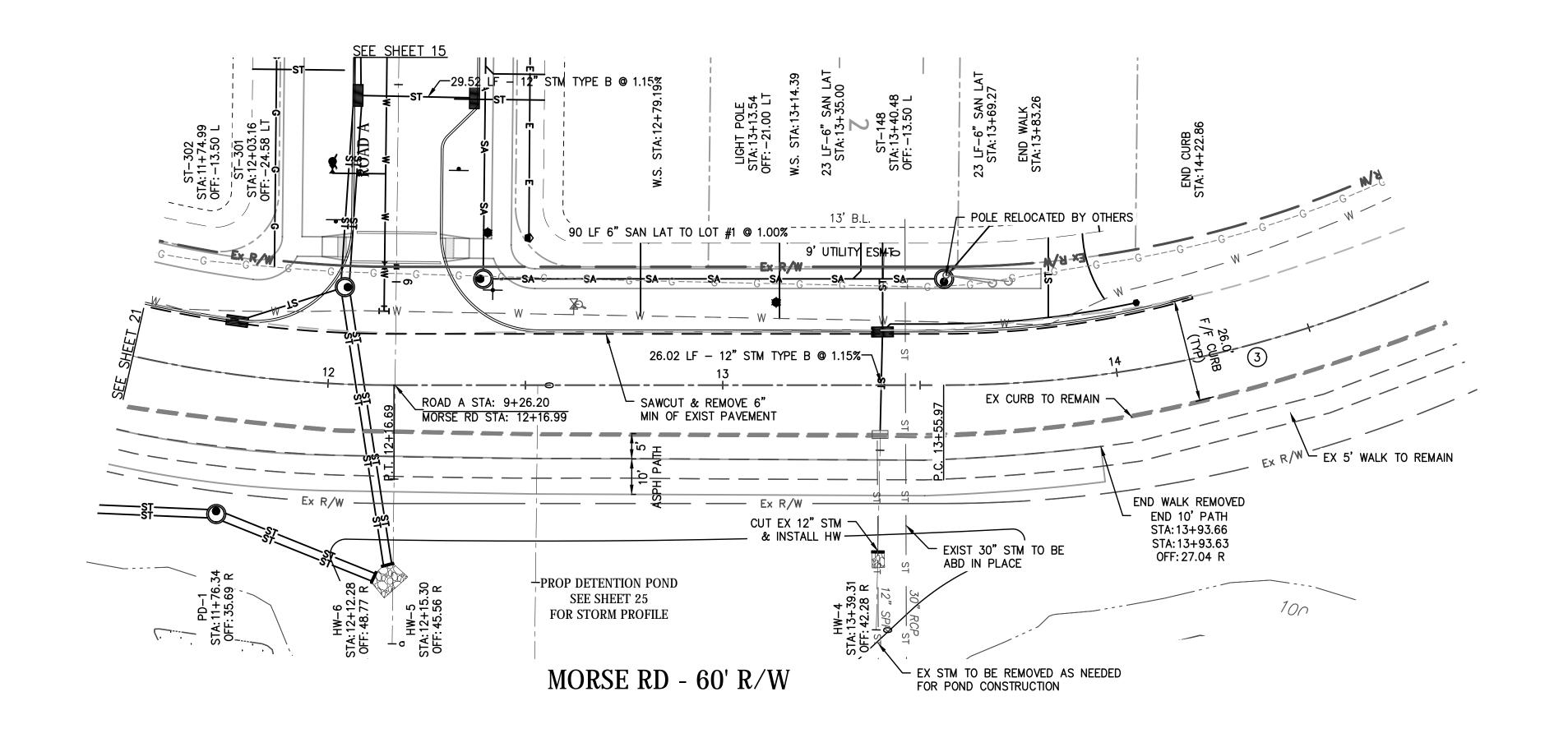


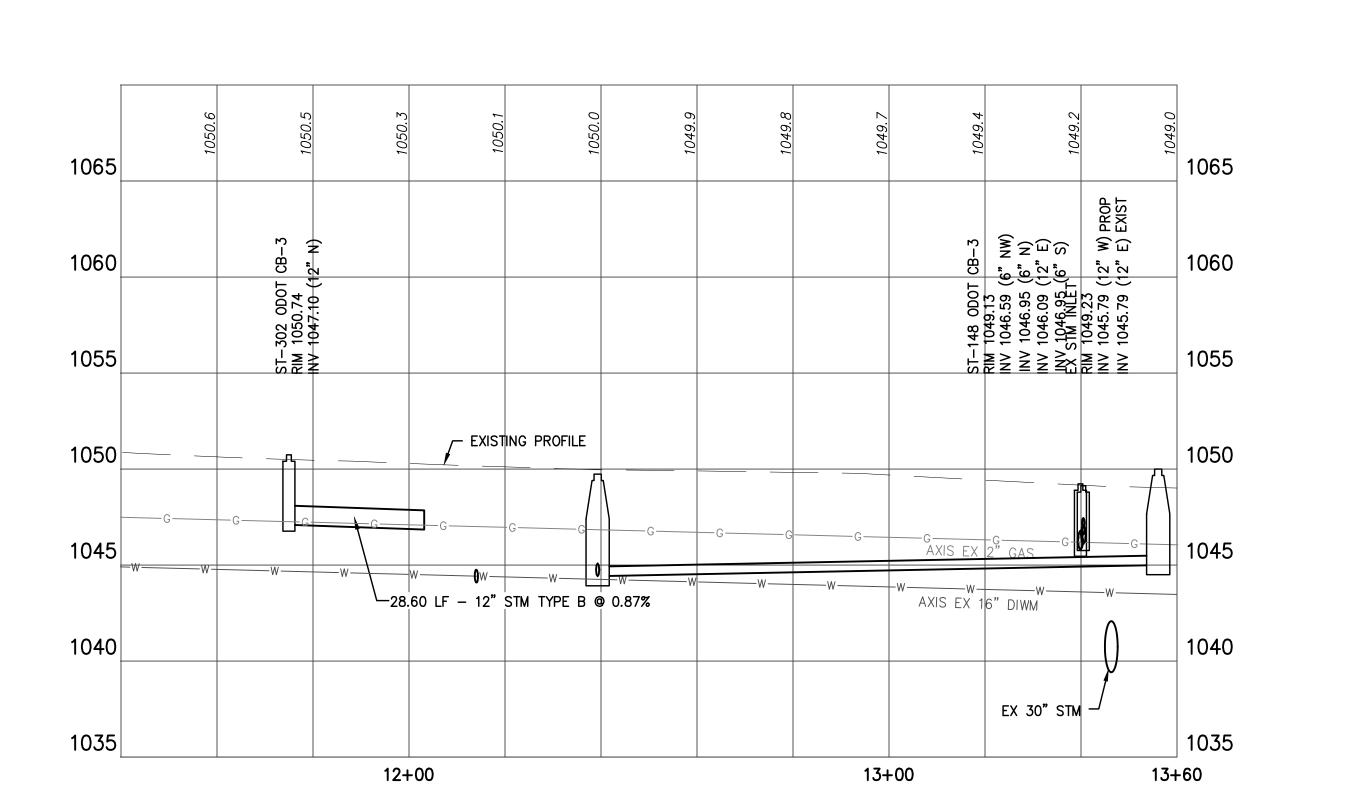
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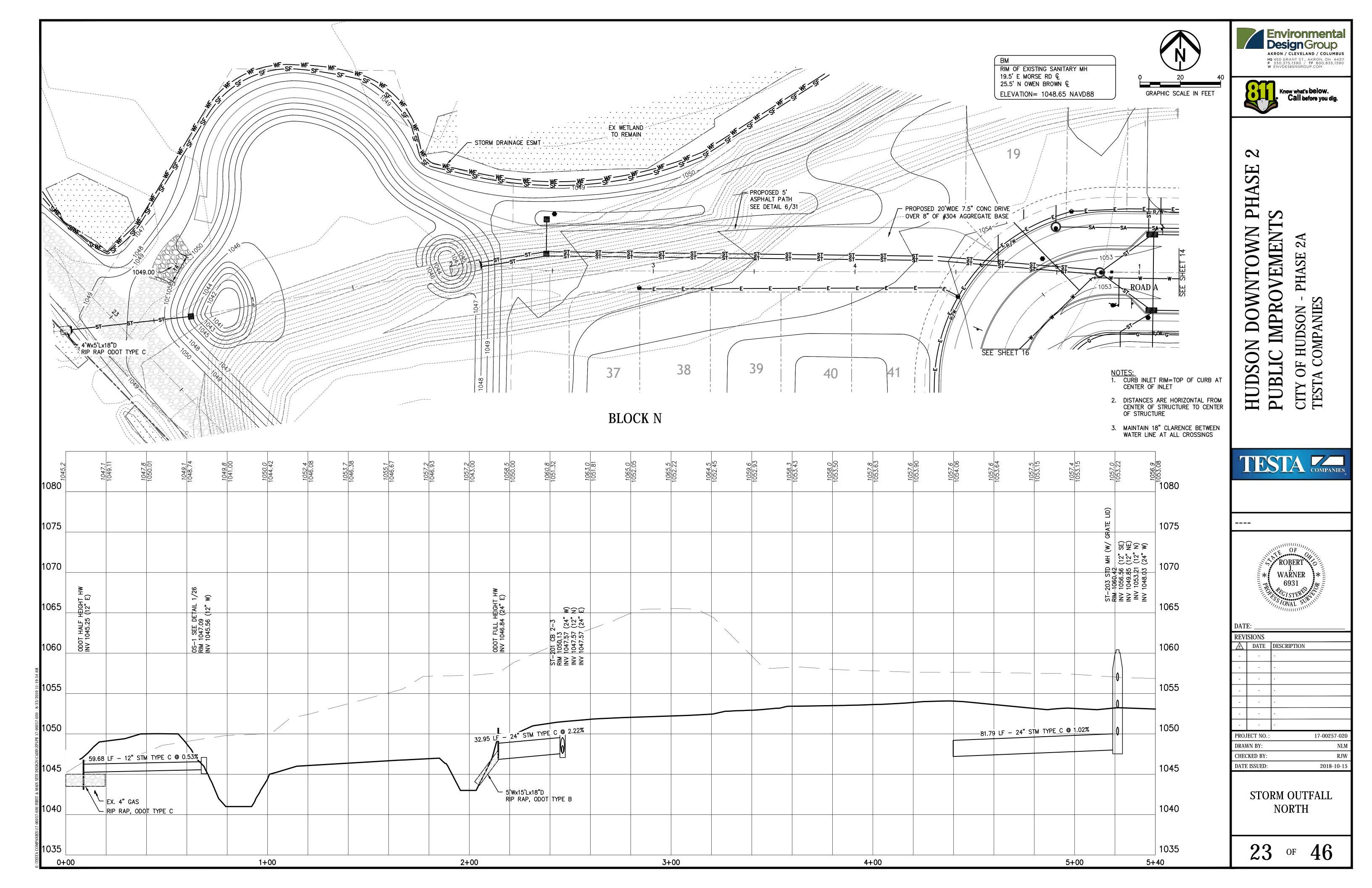
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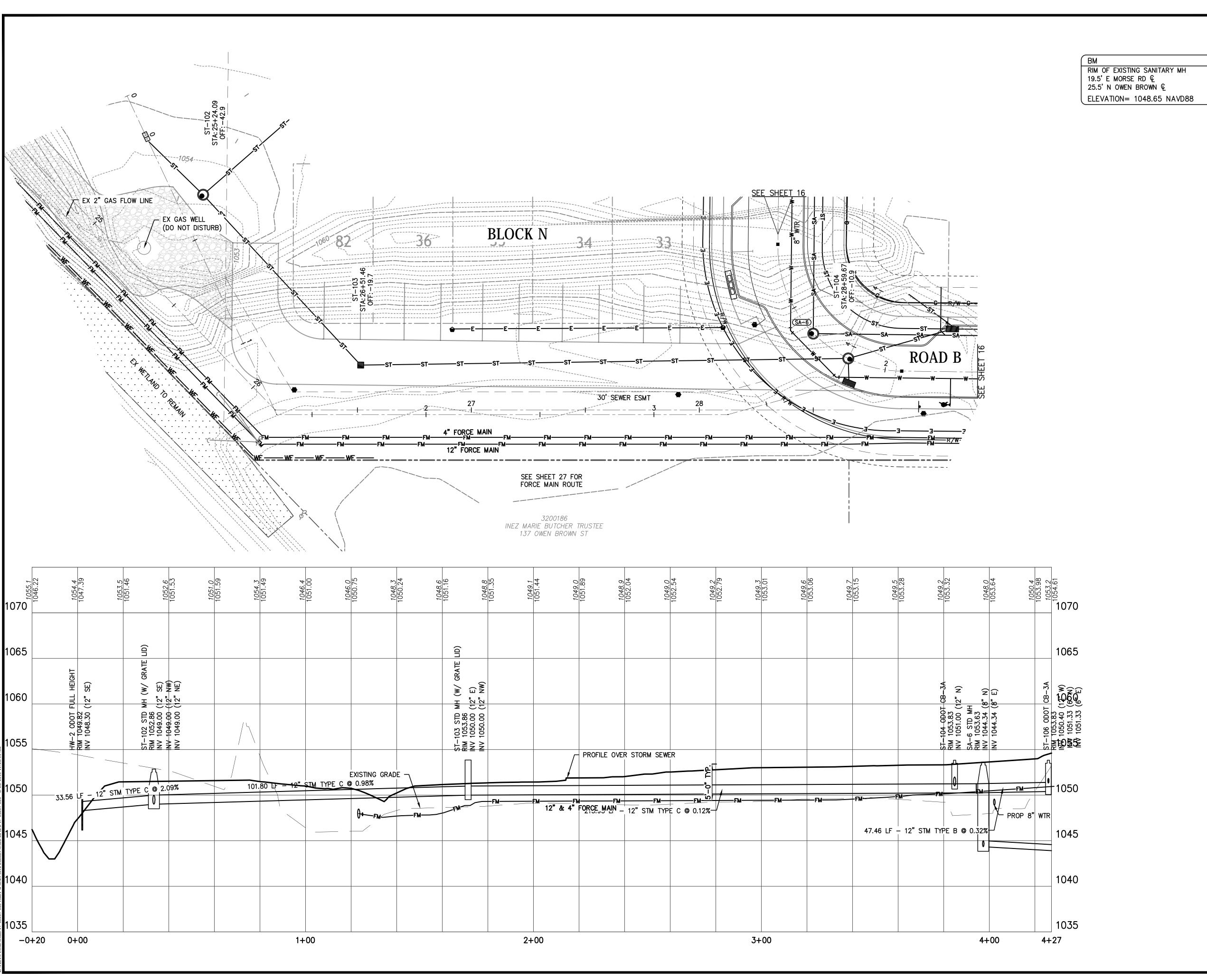
MORSE RD PLAN & **PROFILE**

Key Plan









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1. CURB INLET RIM=TOP OF CURB AT CENTER OF INLET DISTANCES ARE HORIZONTAL FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE

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MAINTAIN 18" CLARENCE BETWEEN WATER LINE AT ALL CROSSINGS

2 **PHASE IMPROVEMENTS DOWNTOWN** HUDSON **PUBLIC**

----WARNER **REVISIONS** PROJECT NO.: 17-00257-020 DRAWN BY: NLM CHECKED BY: RJW DATE ISSUED: 2018-10-15 STORM OUTFALL

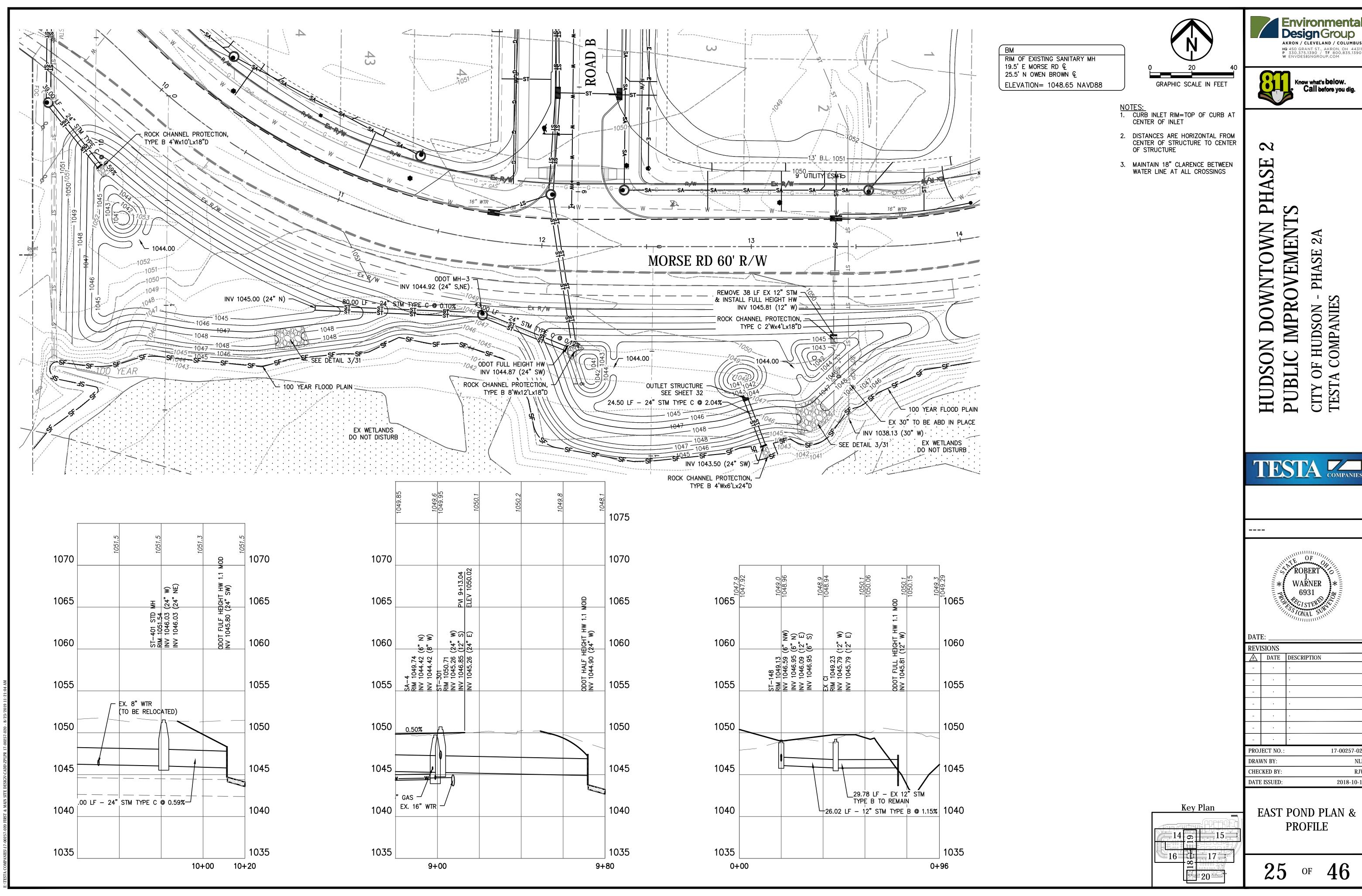
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EAST POND PLAN &

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