NEW FIRESTONE STORE

680 CORWIN NIXON BOULEVARD SOUTH LEBANON, OH 45065 WARREN COUNTY

GRESHAM SMITH PROJECT NO. 40831.24

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VICINITY MAP

NOT TO SCALE

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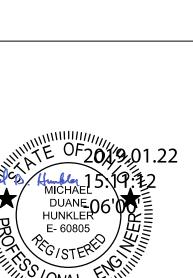
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	Revision								
No.	Date	Description							
1	01.16.2019	REISSUE							
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COVER SHEET

C000

40831.24 November 29, 2018

DEMOLITION GENERAL NOTES

- 1. DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
- 2. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS, AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF THE WORK.
- 4. NOTIFY LOCAL UTILITY LOCATOR SERVICE (CALL 811) OF INTENDED DEMOLITION OPERATIONS.
- 5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANIES. RELOCATE EXISTING IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION..
- 6. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WASTE MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF WORK. AT A MINIMUM THE PLAN SHALL INCLUDE:
- 6.1. THE PROPER PROCEDURES FOR DISPOSAL OR RECLAIMING FOR REUSE / RECYCLING.
- 6.2. DESIGNATED AREAS FOR WASTE MANAGEMENT CONTAINERS. CONTAINERS SHALL BE PROPERLY MARKED FOR ALLOWABLE AND PROHIBITED ITEMS AND MATERIALS.
- 6.3. DESIGNATED CHEMICAL STORAGE AREAS, APPROPRIATE CHEMICAL STORAGE CONTAINERS, AND PROCEDURES FOR SPILL CONTROL. CHEMICALS SHALL NOT BE PERMITTED TO INFILTRATE TO GROUNDWATER OR BE PUMPED UNTREATED FROM PIT DEWATERING FACILITIES.
- 6.4. CONCRETE WASHOUT AREAS, LOCATED AWAY FROM DESIGNATED CONSTRUCTION EXIT.
- 7. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING PAVEMENT ALONG ALL LIMITS OF PAVEMENT DEMOLITION.
- 8. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF OFF THE OWNER'S PROPERTY IN A LEGAL MANNER. PROLONGED STORAGE OR THE SALE OF DEMOLISHED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED WITHOUT PRIOR NOTIFICATION AND CONSENT OF OWNER.
- 9. ALL PAVEMENT, BASE COURSE, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., IN THE AREA TO BE REMOVED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE PROVIDED THAT THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE OF AREAS TO RECEIVE PLANTING.
- 10. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
- 11. ALL EXISTING FEATURES REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. NOTIFY THE OWNER OR CONSTRUCTION MANAGER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH DEMOLITION WORK
- 12. IT IS NOT ANTICIPATED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, IMMEDIATELY NOTIFY THE OWNER.
- 13. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 14. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO 98% OF MAXIMUM DENSITY PER ASTM D698 STANDARD PROCTOR.
- 15. EXISTING INFORMATION/TOPOGRAPHIC SURVEY WAS PREPARED BY GDP GROUP, DATED OCTOBER 26, 2018.
- 16. PAVEMENT MARKINGS TO BE REMOVED SHALL BE PAINTED OVER TO MATCH PAVEMENT OR REMOVED WITH WIRE BRUSHING.
- 17. EXCEPT AS SHOWN, NO TREES SHALL BE REMOVED AND/OR VEGETATION DISTURBED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.

LAYOUT AND PAVING GENERAL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING WORK.
- 2. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING WORK.
- 3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. RELOCATE IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.
- 4. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
- 5. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT.
- 6. CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH. ALL CONCRETE SHALL BE 4,000 P.S.I. UNLESS OTHERWISE NOTED. CURB RAMPS, SIDEWALK SLOPES, AND DRIVEWAY RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT LOCAL REQUIREMENTS. IF APPLICABLE, THE CONTRACTOR SHALL REQUEST INSPECTION OF SIDEWALK AND RAMP FORMS PRIOR TO PLACEMENT OF CONCRETE.
- 7. DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF CONCRETE, OR TO THE FACE OF BUILDING, UNLESS OTHERWISE NOTED.
- 8. COORDINATES ARE FOR FACE OF BUILDINGS, CENTER LINES OF DRIVEWAYS, CENTER OF SEWER MANHOLES, AND CENTER AT FACE OF CURB ON CURB INLETS, UNLESS OTHERWISE NOTED.
- 9. CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF THE OWNER'S PROPERTY IN A LEGAL MANNER AT NO ADDITIONAL COST.
- 10. MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ARCHITECT/ENGINEER UPON COMPLETION.
- 11. PARKING STRIPES SHALL BE 4-INCH WHITE PAVEMENT PAINT, UNLESS OTHERWISE NOTED ON PLANS.
- 12. CONTRACTION JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF AT LEAST 1/4 THE CONCRETE THICKNESS AND SHALL DIVIDE CONCRETE ROUGHLY INTO SQUARES WITH MAXIMUM 10' SEGMENTS.
- 13. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY CONSISTING OF THE FOLLOWING:
- A. AN AS-BUILT SURVEY SHALL BE PREPARED, SIGNED AND SEALED BY A SURVEYOR REGISTERED IN THE STATE IN WHICH THIS PROJECT RESIDES AND SUBMITTED TO THE ARCHITECT/ENGINEER IN HARD COPY AND ELECTRONIC FORMAT PRIOR TO COMPLETION OF THIS PROJECT. THE AS-BUILT SURVEY SHALL BE PREPARED USING THE SAME HORIZONTAL AND VERTICAL DATUM AS THE ORIGINAL SURVEY.
- B. THE AS-BUILT SURVEY SHALL DEPICT ALL BUILDINGS, CURB LINES, EDGES OF PAVEMENT, SIDEWALKS, AND PARKING.
- C. THE AS-BUILT SURVEY SHALL LOCATE ALL UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT INCLUDING: GREASE TRAP, OIL/WATER SEPARATOR, DRAINAGE AND SANITARY STRUCTURES, WATER VALVES, METERS, PIV'S, AND HYDRANTS.
- D. THE AS-BUILT SURVEY SHALL INCLUDE ALL ACCESSIBLE PATHS, PEDESTRIAN RAMPS AND LANDINGS, AND ACCESSIBLE PARKING AREAS INCLUDING AISLES AND DROP-OFF/PICK-UP AREAS. DIMENSION FULL LENGTH AND WIDTH OF ALL PEDESTRIAN RAMPS AND LANDINGS. SHOW ELEVATIONS AND SLOPES, INCLUDING LONGITUDINAL AND CROSS SLOPES FOR ALL ACCESSIBLE AREAS. THE ARCHITECT/ENGINEER WILL USE THIS SURVEY TO CHECK COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
- E. THE AS-BUILT SURVEY SHALL INCLUDE ALL STORMWATER MANAGEMENT FEATURES, INCLUDING BUT NOT LIMITED TO: PONDS, BIOSWALES, RAIN GARDENS, WATER QUALITY UNITS, AND OUTLET STRUCTURES.
- 14. PRIOR TO THE COMMENCMENT OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ARCHITECT/ENGINEER WITH A CONSTRUCTION SCHEDULE FOR VARIOUS SITEWORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO

ALLOW TIMELY CERTIFICATION OF CONSTRUCTION TO AGENCIES, AND TO AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCIES.

GRADING AND DRAINAGE GENERAL NOTES:

BYGDP GROUP, DATED OCTOBER 26, 2018.

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING GRADING AND DRAINAGE WORK.
- 2. NOTIFY LOCAL UTILITY LOCATOR SERVICE (CALL 811) OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS
- 3. CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- 4. NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS, WITHIN THE DRIPLINES OF TREES.
- 5. ALL TREES, INCLUDING YOUNG SAPLINGS, PINES, AND UNDERSTORY SPECIES ARE TO BE PROTECTED AND SAVED IF THEY FALL OUTSIDE THE PROPOSED LIMITS OF GRADING, EVEN IF THEY ARE NOT LOCATED OR IDENTIFIED ON THE SURVEY.
- 6. EXISTING CONDITIONS (TYPICALLY SCREENED ITEMS) INDICATE A PRE-CONSTRUCTION TOPOGRAPHIC SURVEY PROVIDED
- 7. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.
- 8. TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6 INCHES. MAKE STOCKPILES FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES.
- 9. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, OTHER OBJECTS OVER 1 INCH IN DIAMETER, OR CONTAMINANTS
- 10. TOP OF GRATE ELEVATIONS FOR CURB INLETS ARE GIVEN TO THE CENTER OF THE INLETS AT THE FACE OF CURB. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB LINE.
- 11. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, PROTECT UTILITIES TO REMAIN, AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
- 12. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 13. SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE AND TOP OF FINISHED PAVEMENT.
- 14. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE. THE CONTRACTOR IS RESPONSIBLE FOR GRADING ALL AREAS TO POSITIVELY DRAIN. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THIS INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ARCHITECT/ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
- 15. ALL PERMANENT CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM. TEMPORARY CUT SLOPES SHALL NOT EXCEED 2:1 MAXIMUM UNLESS TEMPORARY SHORING IS PROVIDED, OR UNLESS DIRECTED OTHERWISE BY A LICENSED GEOTECHNICAL ENGINEER.
- 16. CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF THE OWNER'S PROPERTY IN A LEGAL MANNER AT NO ADDITIONAL
- 17. EXISTING MANHOLE AND CATCH BASIN CASTINGS TO REMAIN SHALL BE RESET TO MATCH NEW GRADE.
- 18. ALL CURBS AND SIDEWALKS SHALL BE BACKFILLED FLUSH WITH TOPSOIL, AND SEEDED AND MULCHED.
- 19. ALL PIPES UNDER PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED STONE. ALL PIPES UNDER LAWN AREAS SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL COMPACTED TO 98% OF MAXIMUM PER ASTM D698 STANDARD PROCTOR.
- 20. ALL STORM DRAINAGE PIPE SHALL BE HDPE, MEETING THE REQUIREMENTS OF AASHTO M294, TYPE S, MINIMUM WALL THICKNESS B UNLESS OTHERWISE NOTED. PIPE LENGTHS SHOWN ARE APPROXIMATE 2D LENGTH FROM CENTER OF UPSTREAM STRUCTURE TO CENTER OF DOWNSTREAM STRUCTURE.
- 21. FINAL FINISH GRADE TOLERANCES SHALL BE 0.1 FOOT ABOVE OR BELOW DESIGN ELEVATIONS WITHIN THE BUILDING PADS AND PAVED AREAS, AND 0.25 FOOT ABOVE OR BELOW DESIGN FINISH ELEVATIONS IN OTHER AREAS. NO TOLERANCE IS ALLOWED WHEN MAXIMUM OR MINIMUM SLOPES ARE SPECIFIED.
- 22. ADA PARKING AND LOADING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION. ADA ACCESS ROUTES SHALL NOT EXCEED 2% CROSS SLOPE, 5% LONGITUDINAL SLOPE, EXCEPT WHERE ADA RAMPS ARE SPECIFIED.
- 23. EARTHWORK FILL SHALL INCLUDE STRIPPING TOPSOIL AND PLACING ENGINEERED FILL IN MAXIMUM 8" COMPACTED LIFTS WITH DENSITY OF 98% OF MAXIMUM PER ASTM D698 STANDARD PROCTOR.
- 24. EXCAVATION FOR THIS PROJECT IS UNCLASSIFIED. A GEOTECHNICAL EXPLORATIONS REPORT COMPLETED BY INTERTEK PSI, DATED OCTOBER 1, 2018, HAS BEEN PROVIDED AS AN ATTACHMENT TO THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE REPORT AND THE PROJECT SITE TO BECOME FAMILIAR WITH THE ANTICIPATED EXCAVATION REQUIREMENTS. ADDITIONAL PAYMENT WILL NOT BE MADE FOR UNANTICIPATED ROCK EXCAVATION, UNLESS OTHERWISE AGREED UPON WITH OWNER PRIOR TO COMMENCEMENT OF ROCK EXCAVATION.
- 25. AN AS-BUILT TOPOGRAPHIC SURVEY OF THE FINAL STORMWATER MANAGEMENT POND(S) AND OUTLET STRUCTURE(S) SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW FOR COMPLIANCE WITH THE ORIGINAL DESIGN.
- 26. IF BLASTING IS REQUIRED, CONTRACTOR SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN NFPA 495, "EXPLOSIVE MATERIALS CODE," AND PREPARE A BLASTING PLAN CONTAINING THE FOLLOWING:
- 26.1. TYPES OF EXPLOSIVES AND SIZES OF CHARGE TO BE USED IN EACH AREA OF ROCK REMOVAL, TYPES OF BLASTING MATS, SEQUENCE OF BLASTING OPERATIONS, AND PROCEDURES THAT WILL PREVENT DAMAGE TO SITE IMPROVEMENTS
- AND STRUCTURES ON THE PROJECT SITE AND ADJACENT PROPERTIES. 26.2. SEISMOGRAPHIC MONITORING DURING BLASTING OPERATIONS.

BLASTING PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE, ALONG WITH OTHER BLASTING RECORDS REQUIRED, AND MAY BE SUBJECT TO REVIEW BY OWNER OR OWNER'S REPRESENTATIVE AT REQUEST. OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION BEFORE BRINGING EXPLOSIVES TO THE PROJECT SITE. PERFORM BLASTING WITHOUT WEAKENING THE BEARING CAPACITY OF ROCK SUBGRADE AND WITH THE LEAST-PRACTICABLE DISTURBANCE TO ROCK TO REMAIN.

- 27. ENGAGE A QUALIFIED, INDEPENDENT AGENCY TO PERFORM A PRE-BLAST AND POST-BLAST SURVEY OF ALL STRUCTURES SUBJECT TO BLAST VIBRATIONS. CONTRACTOR SHALL COORDINATE ALL BLASTING ACTIVITIES WITH SURVEYOR, INCLUDING BLASTING PLANS, SCHEDULES, ETCETERA. CONTRACTOR MAY, AT HIS EXPENSE, OBTAIN A VIBRATION CONSULTANT TO REVIEW THE BLASTING PLAN AND MAKE RECOMMENDATIONS. REVIEW OF THE BLAST DESIGN, SURVEY, MONITORING, AND TECHNIQUES BY THE ENGINEER OR VIBRATION CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE COMPLETE RESPONSIBILITY FOR ACCURACY, ADEQUACY, AND SAFETY OF THE BLASTING. NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR CLAIMS ARISING FROM HIS CONSTRUCTION OPERATIONS. IN THE EVENT THAT ANY PROPERTY OWNER DENIES ACCESS FOR THE SURVEY OF STRUCTURES AND FACILITIES, THE CONTRACTOR SHALL NOTIFY SUCH PROPERTY OWNER, BY CERTIFIED MAIL, STATING THAT THIS IS FINAL NOTIFICATION. A COPY OF THE BLASTING RECORDS SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER FOR THEIR RECORDS.
- 28. CONTRACTOR SHALL NOTIFY ADJACENT RESIDENCES AND/OR BUSINESSES SUBJECT TO BLASTING VIBRATIONS THE INTENT TO BLAST AT LEAST 24 HOURS IN ADVANCE. CONTRACTOR SHALL DISCLOSE THE ANTICIPATED TIME OF DAY AND SCHEDULE FOR BLASTING. SUBMIT NOTICE OF BLASTING COMPLAINTS TO ARCHITECT / ENGINEER AND OWNER WITHIN 24 HOURS OF RECEIPT THEREOF. THE NOTICE SHALL IDENTIFY THE ORIGIN OF COMPLAINT AND SHALL CONTAIN A BRIEF DESCRIPTION OF ALLEGED DAMAGES OR OTHER CIRCUMSTANCES UPON WHICH THE COMPLAINT IS PREDICATED. CONTRACTOR SHALL ASSIGN EACH COMPLAINT A SEPARATE NUMBER, IN ASCENDING ORDER, AND SHOW IN EACH NOTICE ALL PREVIOUS COMPLAINT NUMBERS REGISTERED BY THE SAME COMPLAINANT.

SITE UTILITIES GENERAL NOTES:

- 1. WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING UTILITY WORK.
- 3. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN IS BASED ON LIMITED TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY ON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS.
- 4. NOTIFY THE LOCAL UTILITY LOCATOR SERVICE (CALL 811) AND ANY NON ONE CALL SYSTEM MEMBER UTILITY INDIVIDUALLY AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION/UTILITY TRENCHING OPERATIONS.

5. MAINTAIN 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER SUPPLY LINES.

- CONTRACTOR SHALL VERIEV THE EVACT LOCATION OF ALL EVISTING LITHITIES INCLUDING IRRIGATION. TAKE CARE
- 6. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES INCLUDING IRRIGATION. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO CURRENT LOCAL

STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. RELOCATE IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.

- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO FINAL PAVEMENT CONSTRUCTION.
- 8. BACKFILL UTILITY TRENCHES UNDER PAVEMENT OR GRAVEL DRIVE AREAS WITH CRUSHED STONE. BACKFILL UTILITY TRENCHES IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 98% OF MAXIMUM PER ASTM D698 STANDARD PROCTOR.
- 9. ADJUST ALL EXISTING-TO-REMAIN UTILITY SURFACE FEATURES, INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISH GRADE.
- 10. THRUST BLOCK ALL WATERLINE FITTINGS WITH CONCRETE (2,500 P.S.I. MIN.) POURED AGAINST UNDISTURBED EARTH TO SUSTAIN 120 PERCENT TEST PRESSURE SPECIFIED. FORM THRUST BLOCKING SO AS TO NOT EMBED JOINTS, BOLTS, VALVE BOXES OR OPERATING NUTS.
- 11. PROVIDE VENTS AT HIGH POINTS IN WATERLINE AS NECESSARY FOR EXPELLING AIR DURING FILLING OF WATERLINE. PROVIDE BRONZE CORPORATION STOP FOR CLOSING VENT DURING TESTING AND SERVICE. LEAVE VENT COMPONENTS PLUGGED AND ATTACHED TO PIPE AFTER SUCCESSFUL TEST.
- 12. ALL SANITARY SEWER PIPE SHALL BE SDR 35 PVC UNLESS NOTED OTHERWISE.
- 13. ALL WATER MAINS SHALL BE SDR 21 PVC UNLESS NOTED OTHERWISE.
- 14. ALL MANHOLES SHALL HAVE MINIMUM CLEAR OPENING OF 24". ADJUST CASTINGS TO SLOPE LONGITUDINALLY WITH ROAD GRADES AS REQUIRED.
- 15. CONTRACTOR SHALL MAINTAIN AT LEAST ONE SET OF AS-BUILT PLANS SHOWING ALL NEWLY CONSTRUCTED UTILITIES AND EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCION. DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION EITHER BY FIELD SURVEYS ON THE APPROPRIATE STATE PLANE COORDINATE SYSTEM (TN-NAD83) USED FOR THIS PROJECT OR BY FIELD MEASUREMENTS INCLUDING AT LEAST TWO DIMENSIONS FROM KNOWN SITE FEATURES/MONUMENTS TO EACH MANHOLE, CATCH BASIN, AND PRESSURE PIPING APPURTENANCE (VALVES, METERS, BACKFLOW DEVICE, HYDRANTS, ETC.)

EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) GENERAL NOTES:

- 1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EPSC PLAN AND/OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL REQUIREMENTS.
- 2. CONSTRUCT TEMPORARY EPSC MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- 3. ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION, AND DETENTION FACILITIES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
- 4. SILT BARRIERS AND SEDIMENT BASINS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
- 5. ALL GRADED AREAS NOT RECEIVING STONE STABILIZATION SHALL RECEIVE TEMPORARY SEEDING WITHIN 15 DAYS OF REACHING FINAL SUBGRADE ELEVATION.
- 6. ALL LOCATIONS OF TEMPORARY EPSC DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE OWNER OR ENGINEER.
- 7. WHEN THE EPSC DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE OPINION OF THE OWNER OR ENGINEER), THEY SHALL BE REMOVED.
- 8. REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE OWNER OR ENGINEER.
- 9. PROVIDE EROSION CONTROL MATTING (NAG75 OR EQUAL) TO SLOPES 3:1 OR GREATER. EROSION CONTROL MATTING SHALL BE PHOTODEGRADABLE OR BIODEGRADABLE UNLESS OTHERWISE SPECIFIED.
- 10. DEWATERING OF EXCAVATION AREA SHALL BE COMPLETED ONLY WITH SPECIFIED OR PRE-APPROVED PUMPING AND FILTERING EQUIPMENT. PUMPING RATE SHALL NOT EXCEED 80% OF THE RECOMMENDED MAXIMUM RATE BY SEDIMENT TANK / FILTER BAG MANUFACTURER. REFER TO THE OHIO ENVIRONMENTAL PROTECTION ANGENCY'S EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION, FOR ACCEPTABLE DEWATERING TECHNIQUES NOT SPECIFICALLY NOTED IN THIS PLAN SET.
- 11. THE ENGINEER, WHOSE SEAL IS AFFIXED TO THIS DOCUMENT, CERTIFIES THAT THESE PLANS HAVE BEEN PREPARED BY UNDER HIS/HER DIRECT SUPERVISION. THIS PROJECT IS PLANNED TO DISTURB MORE THAN ONE ACRE, IT THEREFORE FALLS UNDER THE OHIO ENVIRONMENTAL PROTECTION AGENCY'S GENERAL NPDES PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE ENGINEER WILL ASSIST THE CONTRACTOR IN SUBMITTING THE 'NOTICE OF INTENT (NOI) TO CONSTRUCT' TO THE STATE AT LEAST 30 DAYS PRIOR TO BEGINNING LAND DISTURBANCE.



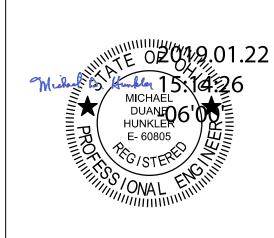
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Nashville, TN 37201

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SO CORWIN NIXON BOULEVARD



No. Date Description

1 01.16.2019 REISSUE

GENERAL NOTES

C001

Know what's **below**.

Call before you dig.

40831.24 November 29, 2018

ALTA/NSPS LAND TITLE SURVEY

SECTION 2, TOWN 4, RANGE 3, M.R.S. VILLAGE OF SOUTH LEBANON UNION TOWNSHIP COUNTY OF WARREN STATE OF OHIO

TITLE DESCRIPTION:

Situate in the State of Ohio, County of Warren, Union Township, Village of South Lebanon, being part of Section 2, Township 4, Range 3, M.R.S. and being all of Lot 22 of Rivers Crossing 1-B as shown on the subdivision plat recorded in Plat Book 84, page 17, Warren County, Ohio Records.

REFERENCES:

1. COUNTY TAX MAP.

- 2. DEEDS.
- 3. RIVERS CROSSING 1, P.B. 80, PG. 46
- 4. RIVERS CROSSING 1-B, P.B. 84, PG. 17
- 5. TITLE REPORT





GENERAL NOTES:

- 1. THE DESCRIBED REAL ESTATE IS IN A ZONE X. AS INDICATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S NATIONAL FLOOD INSURANCE PROGRAM PANEL NO. 39165C0138E, EFFECTIVE DATE OF 12/17/2010.
- 2. THE EXISTENCE AND/OR LOCATION OF UTILITIES WERE OBTAINED BY FIELD CHECKS AND RESEARCH OF AVAILABLE RECORDS, AS REQUIRED BY O.R.C. 153.64. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT; THE SURVEYOR MAKES NO GUARANTEE TO THEIR ACCURACY OR COMPLETENESS. EXACT UTILITY LOCATIONS MUST BE FIELD VERIFIED AT THE TIME OF CONSTRUCTION.
- 3. THIS SURVEY IS NOT FOR THE PURPOSE OF LOCATING OR IDENTIFYING ANY POLLUTANTS OR HAZARDOUS MATERIALS ON OR UNDER THE PROPERTY SHOWN HEREON.
- 4. NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
- 5. NO OBSERVED EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
- 6. NO WETLAND MARKINGS FOUND.

SCHEDULE B - SECTION II:

First American Title Insurance Company File Number: 18-1065 Effective Date: October 19, 2018 @ 7:59am

- 12. Subject to a Reciprocal Easement Agreement by and between Kohl's Department Stores, Inc., a Delaware corporation and Rivers Crossing Power, LLC, an Ohio limited liability company, dated December 20, 2006 and recorded October 12, 2007 in Official Record 4557, page 107, Warren County, Ohio Records. This affects the subject property and more. There is an Amended and Restated Reciprocal Agreement by and among Target Corporation, a Minnesota corporation, Kohl's Department Stores, Inc., a Delaware corporation, and Rivers Crossing Power, LLC, an Ohio limited liability company, dated December 20, 2007 and recorded December 27, 2007 in Official Record 4598, page 686, Warren County, Ohio Records. This affects the subject property and more. A Consent, Joinder and Subordination by and between National City Bank, as Agent, and Rivers Crossing Power, LLC, an Ohio limited liability company, is recorded in Official Record 4598, page 817, Warren County, Ohio Records. A First Amendment to Amended and Restated Reciprocal Easement Agreement by and among Kohl's Department Stores, Inc., a Delaware corporation, Target Corporation, a Minnesota corporation and Rivers Crossing Power, LLC, an Ohio limited liability company, dated July 3, 2008, is recorded July 8, 2008 in Official Record 4709, page 331, Warren County, Ohio Records. A Second Amendment to Amended and Restated Reciprocal Easement Agreement by and among Rivers Crossing Power, LLC, an Ohio limited liability company, Kohl's Illinois, Inc., a Nevada corporation and Target Corporation, a Minnesota corporation, dated October 18, 2010 is recorded November 3, 2010 in Official Record 5197, page 70, Warren County, Ohio Records. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 13. Subject to a Service Payment Agreement by and between the Village of South Lebanon, Ohio and Rivers Crossing Power, LLC, an Ohio limited liability company, dated June 1, 2007 and recorded November 2, 2007 in Official Record 4569, page 860, Warren County, Ohio Records. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 14. Subject to a Maintenance Agreement by and between the Village of South Lebanon, Ohio and Rivers Crossing Power, LLC, dated June 1, 2007 and recorded November 2, 2007 in Official Record 4569, page 884, Warren County, Ohio Records. There is a First Amendment to Maintenance Agreement by and between The Village of South Lebanon, Ohio and Rivers Crossing Power, LLC, an Ohio limited liability company, dated November 1, 2007 and recorded December 27, 2007 in Official Record 4598, page 790, Warren County, Ohio Records. Note that the lien outlined in the Maintenance Agreement recorded in Official Record 4569, page 884, Warren County, Ohio Records, is released by the First Amendment. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 15. Subject to the Plat for Rivers Crossing I recorded November 21, 2007 in Plat Book 80, pages 46 through 49, inclusive, Warren County, Ohio Records including Consent and Dedications and Maintenance Agreement for Corwin Nixon Boulevard and Restrictions and Covenants. Subject to a Replat of Lots 2 through 6 of Rivers Crossing I (Plat Book 84, pages 46 through 49) recorded March 8, 2010 in Plat Book 84, page 17, Warren County, Ohio Records and Restrictions and Covenants thereon for Rivers Crossing 1-B. (Note that Lot 22 is a Replat of Lots 6 and Part of Lot 5.) (AFFECTS SITE. PLOTTABLE ITEMS SHOWN.)
- 16. Subject to a Declaration of Covenants and Indemnity by Rivers Crossing Power, LLC, an Ohio limited liability company, dated December 20, 2007 and recorded December 27, 2007 in Official Record 4598, page 823, Warren County, Ohio Records. These affect the subject property and more. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 17. Subject to Easements, Covenants, Conditions and Restrictions by and between Rivers Crossing Power, LLC, an Ohio limited liability company, and Lowe's Home Centers, Inc., a North Carolina corporation, dated July 3, 2008 and recorded July 8, 2008 in Official Record 4709, page 353, Warren County, Ohio Records. These affect the subject property and more. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 18. Subject to a Grant of Easement by and between Rivers Crossing Power, LLC, an Ohio limited liability company, and Duke Energy Ohio, Inc., an Ohio corporation, dated May 10, 2011 and recorded June 3, 2011 in Official Record 5324, page 665, Warren County, Ohio Records. This covers the subject property and more. (AFFECTS SITE. PLOTTED AND SHOWN.)
- 19. Subject to a Declaration dated June 30, 2011 and recorded July 1, 2011 in Official Record 5338, page 590, Warren County, Ohio Records. This affects the subject property and more. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 20. Subject to a Declaration dated July 12, 2011 and recorded July 13, 2011 in Official Record 5344, page 867, Warren County, Ohio Records. This affects the subject property and more. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 21. Subject to a Memorandum of Indemnity Agreement by and between Rivers Crossing Power, LLC, an Ohio limited liability company, and Midland Rivers 1, LLC, an Ohio limited liability company, dated July 12, 2011 and recorded July 13, 2011 in Official Record 5344, page 901, Warren County, Ohio Records. (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 22. Subject to Restrictions as outlined in a certain Memorandum of Lease by and between Rivers Crossing Power, LLC, an Ohio limited liability company, and Petsmart, Inc., a Delaware corporation recorded May 20, 2014 as Instrument No. 2014-012504, Warren County, Ohio Records. Note that there is a special prohibited use exception for Lot 22 (Item "e"). (AFFECTS SITE. NO PLOTTABLE ITEMS.)
- 23. Subject to Restrictions as outlined in a certain Memorandum of Lease by and between Rivers Crossing Power, LLC, an Ohio limited liability company, and Dollar Tree Stores, Inc., a Virginia corporation, recorded May 20, 2014 as Instrument No. 2014-012503, Warren County, Ohio Records. (AFFECTS SITE. NO PLOTTABLE ITEMS.)

CERTIFICATION:

STEVEN L. MULLANEY, OHIO PROFESSIONAL SURVEYOR NO. 7900

AND FIRST AMERICAN TITLE INSURANCE COMPANY, PANAMINT TITLE AGENCY, LTD.:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6, 7(a), 7(b1), 8, 9, 11, 13, 14, 16, 17, 18 AND 19 OF TABLE A THEREOF. FIELD WORK WAS COMPLETED ON OCTOBER 18, 2018.

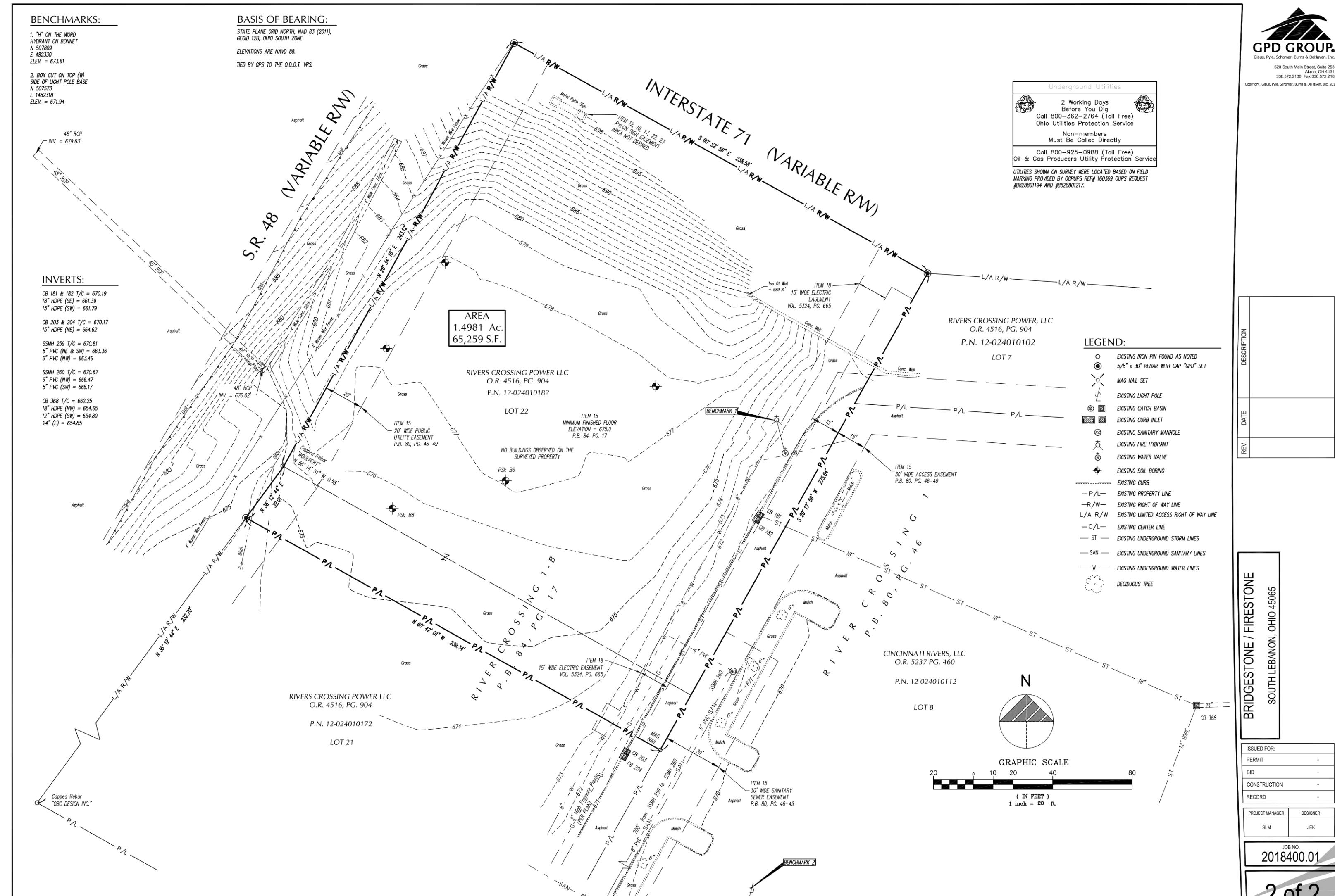
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STON FIRE SOUTH LEBANON, BRIDGESTONE

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	ISSUED FOR:	
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١	PROJECT MANAGER	DESIGNER

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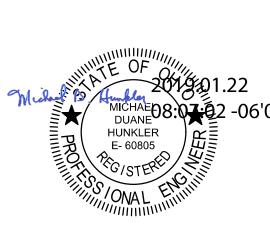




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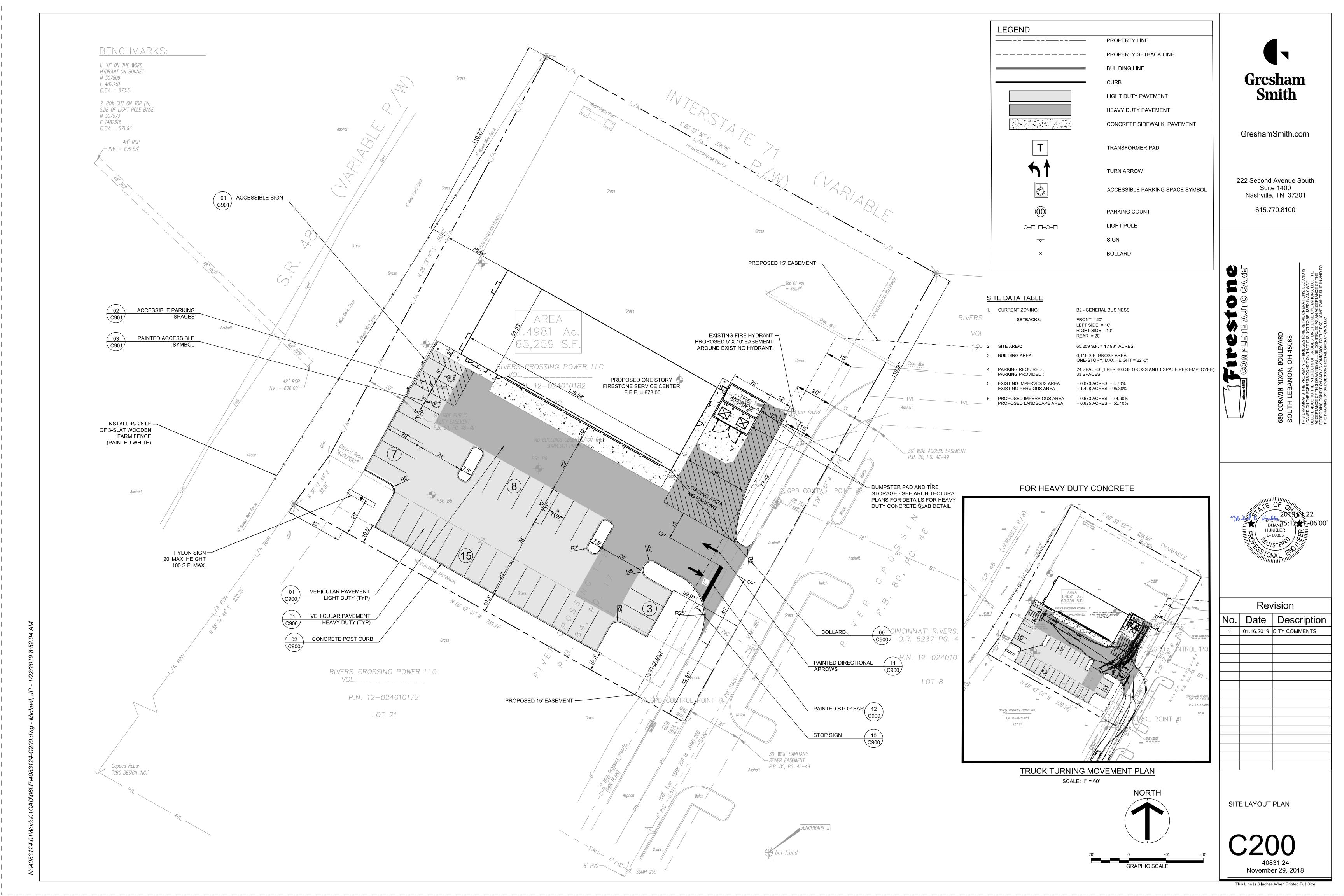
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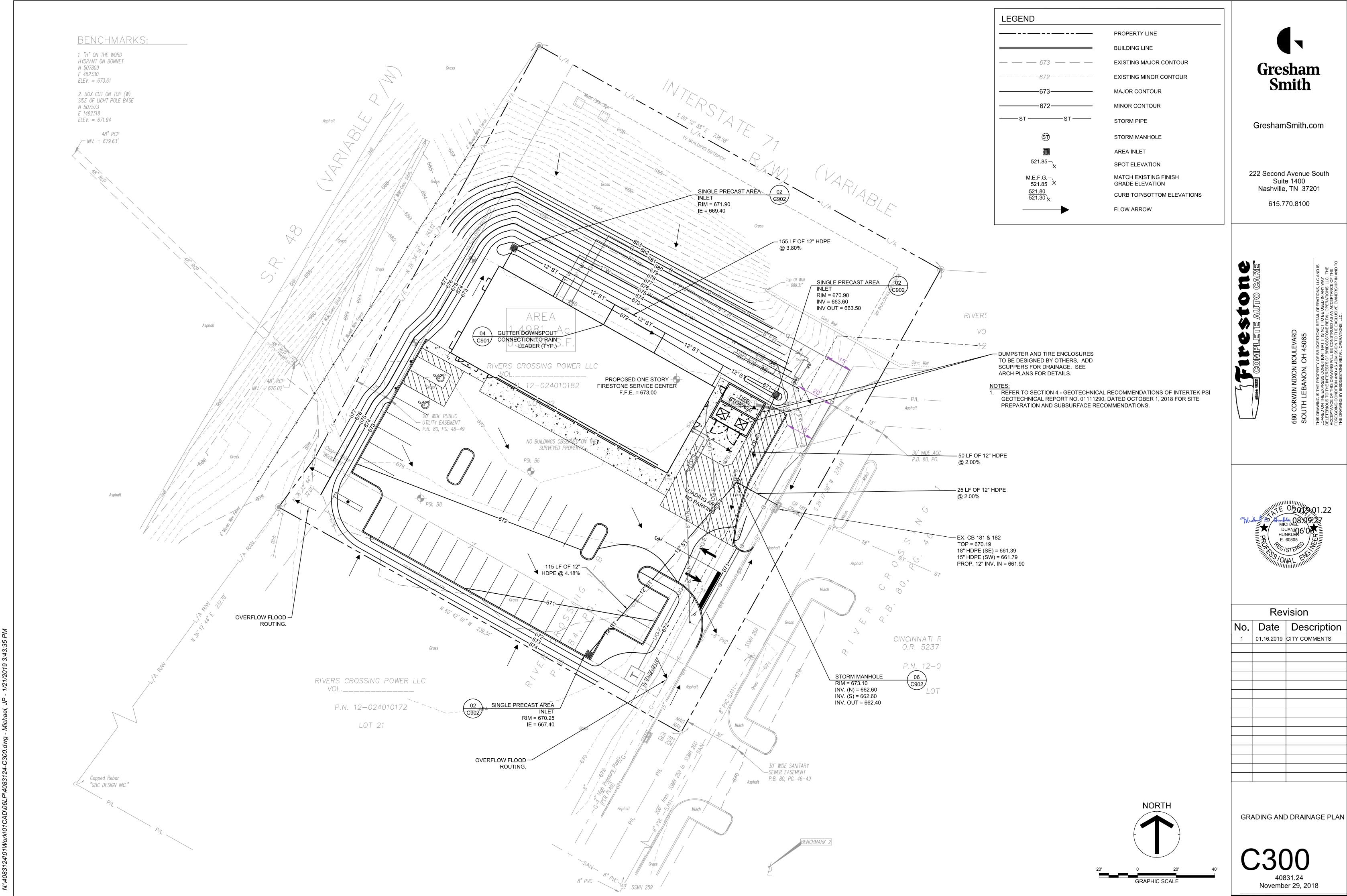


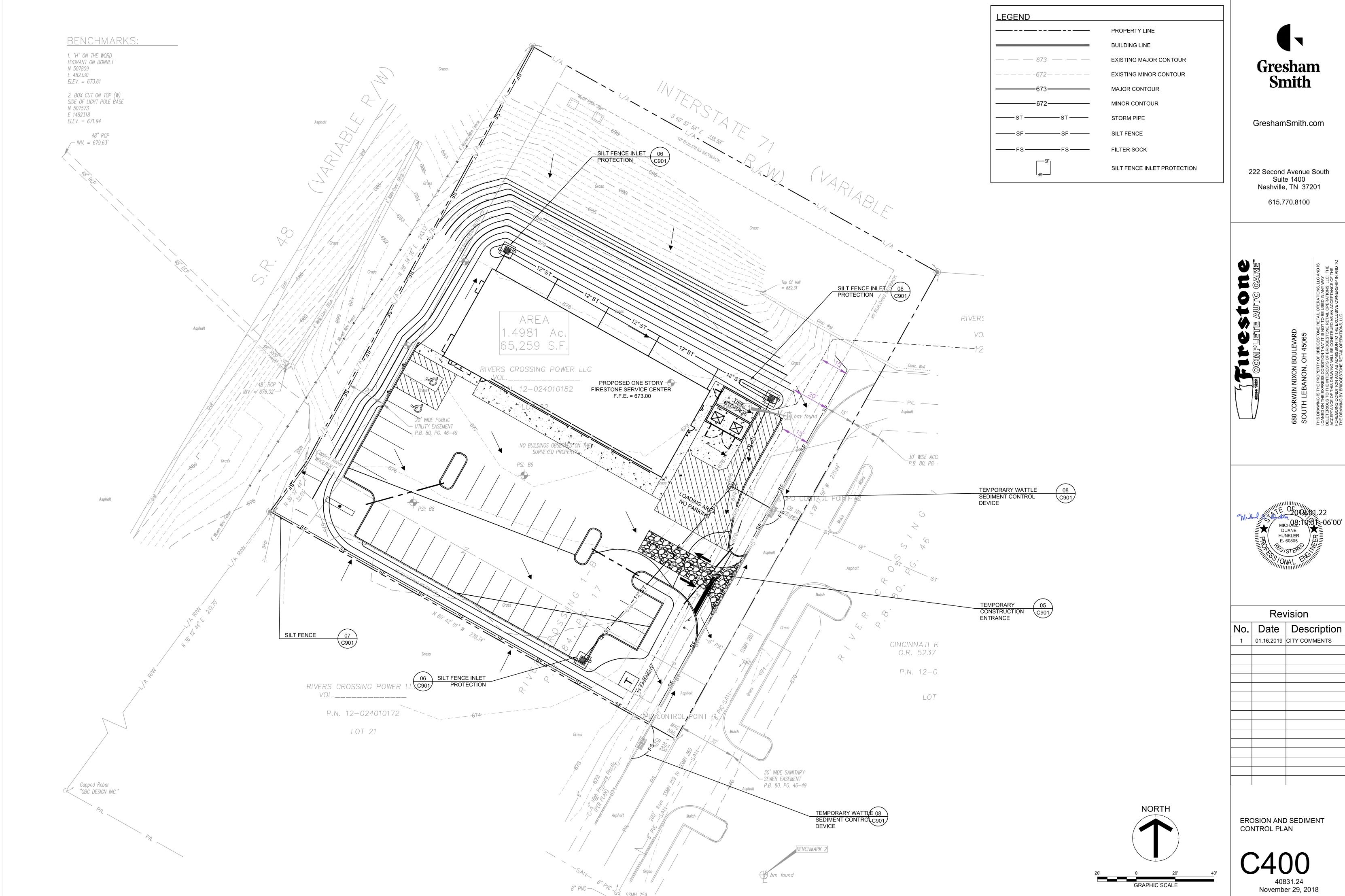
Revision No. Date Description 1 01.16.2019 CITY COMMENTS

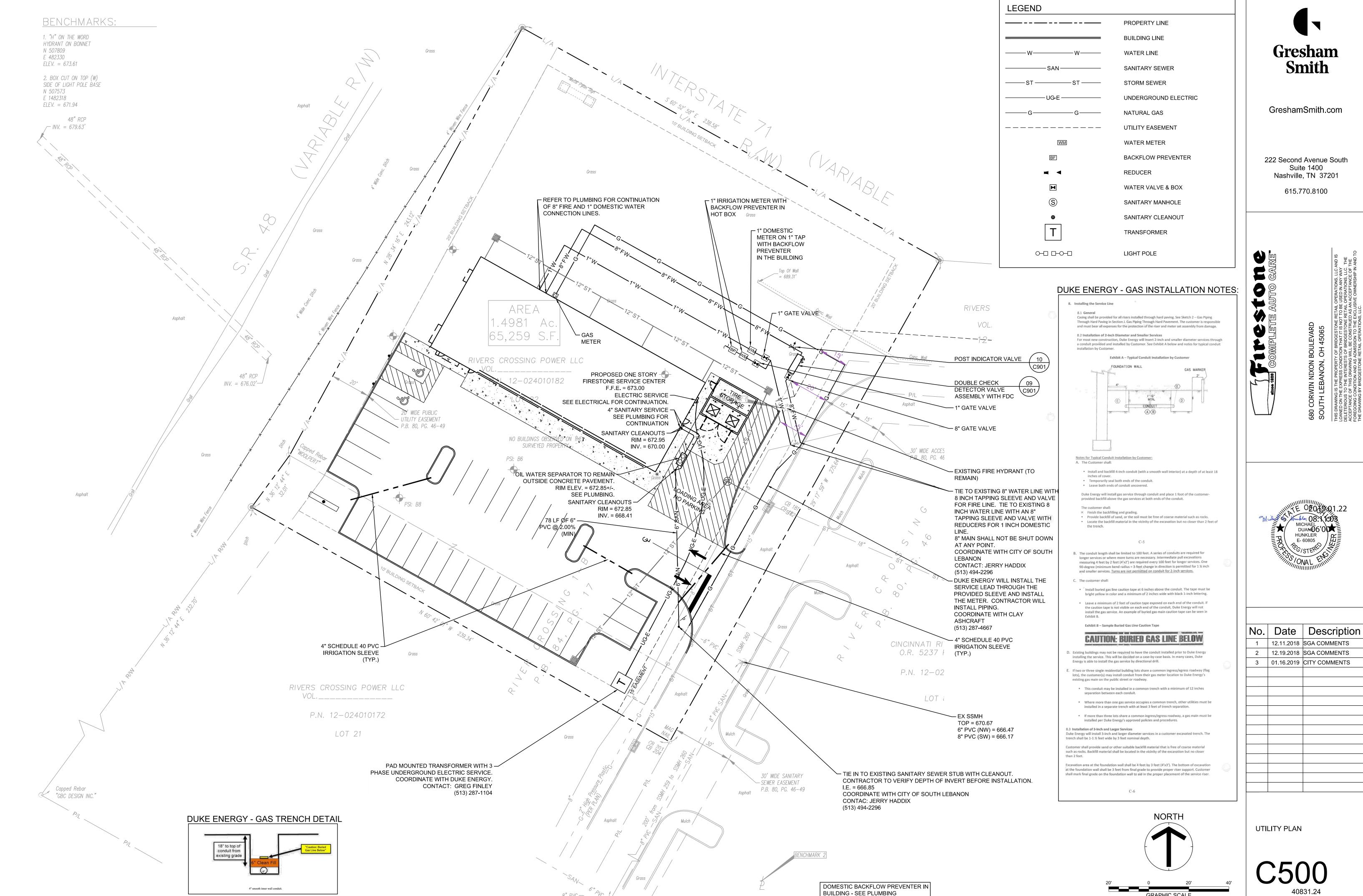
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40831.24 November 29, 2018

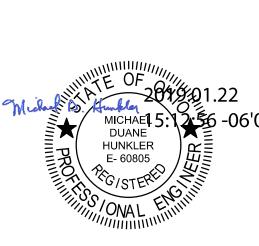








November 29, 2018



Date Description

40831.24 November 29, 2018

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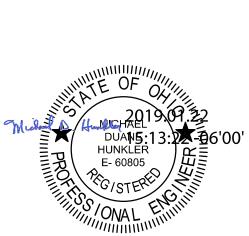
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FIFESTONE COMPLETE AUTO CARET

SOUTH LEBANON, OH 45065

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LOANED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED IDELETERIOUS TO THE INTERSESTS OF BRIDGESTONE RETAIL OPERA



C901

40831.24 November 29, 2018



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FIFESTE AUTO GARET

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No. Date Description

1 01.16.2019 REISSUE

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40831.24 November 29, 2018

1. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4'-6". 1.A. ALL WATER SERVICE LATERALS SHALL HAVE A MINIMUM COVER OF 42". 2. ALL WATER MAINS SHALL BE DUCTILE IRON CONFORMING WITH AWWA SPEC. C-151 CLASS 52 IN SIZES 4"-16" AND PSI CLASS 350 FOR 20" AND ABOVE. 3. COMPACT FITTINGS ARE PERMITTED.

4. ALL WATER VALVES MUST OPEN LEFT. ALL VALVE BOX LIDS MUST BE CAST/STAMPED "WCWD" IN 1 1/2" LETTERS AND BE NEENAH NF-19130002 OR EQUAL. ALL VALVE EXTENSIONS TO HAVE SET SCREWS. 5. A CONCRETE SLAB MUST BE PROVIDED AT FINAL GRADE AROUND ALL

MAIN VALVE BOXES. THE SLABS MUST BE EIGHTEEN INCHES (18") SQUARE

/CIRCLE AND NINE INCHES (9") THICK. 6. WATER AND SEWER LINES SHALL HAVE A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION AND/ OR TWO FEET (2') VERTICAL SEPARATION. 7. NO GATE VALVE, METER PIT. BLOW OFF OR CORPORATION STOP SHALL BE LOCATED UNDER OR WITHIN THREE FEET (3') OF DRIVEWAYS, ROADWAYS OR

8. NO DRIVEWAY SHALL BE INSTALLED WITHIN FIVE FEET (5') OF A FIRE

9. A MINIMUM OF THREE FEET (3') IS REQUIRED BETWEEN CORPORATION STOPS. NO TAP SHALL BE MADE WITHIN THREE (3') OF A BELL. 10. THE LOCATION OF WATER SERVICE LATERALS MUST BE STAMPED IN THE CURB AT THE TIME THE CURB IS PLACED TO PERMANENTLY INDICATE THE

LOCATION OF SAID LATERALS. 11. THE LOCATION OF ALL WATER SERVICE LATERALS MUST BE PROVIDED ON THE AS-BUILT PLANS.

12. CONTRACTOR SHALL SUBMIT AS—BUILT PLANS OF SANITARY AND WATER LATERALS TO THE DWNER. 13. ALL WATER MAINS CROSSING UNDER STORM DRAINS SHALL BE BACK-FILLED WITH GRANULAR MATERIAL, O.D.O.T. ITEM 310.02, BETWEEN MAINS AND DRAINS.

APPROVED/REVISED JUNE, 2012

WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER

WG-1

DETAILED PROCEDURES FOR SANITARY SEWER

1. PROCEDURE FOR MAKING SEWER LATERAL CONNECTIONS TO EXISTING SEWER: A. IF ABS COMPOSITE - EXCAVATE TO POINT OF LATERAL ON MAIN; CLEAN EXISTING PIPE; ALIGN SADDLE TO PROPER POSITION AND MARK AREA TO BE CUT; CUT HOLE IN PIPE AS REQUIRED MAKING SURE THE CUT OUT DOESN'T ENTER THE MAIN; ATTACH AND SEAL SADDLE WITH STAINLESS STEEL STRAPS AND MASTIC SEALER BETWEEN SADDLE AND PIPE. INSERTA TEES ARE NOT PERMITTED.

B. IF CLAY OR CONCRETE — EXCAVATE TO POINT OF LATERAL ON MAIN; PLUG OUTLET PIPE AT UPSTREAM MANHOLE — PUMP TO DOWNSTREAM MANHOLE IF NECESSARY; REMOVE CLOSEST LENGTH OF PIPE AND REPLACE WITH TEE LATERAL SECTION OF PIPE OR CORE EXISTING PIPE IN PLACE.

2. PROCEDURE FOR MAKING SEWER EXTENSIONS FROM EXISTING MANHOLES: CONSTRUCT LINE TO WITHIN ONE JOINT OF EXISTING MANHOLE; AFTER LINE PASSES LEAKAGE TEST AND WARREN COUNTY SANITARY ENGINEER GIVES GO AHEAD - CONNECTION IS TO BE MADE; PLUG OUTLET PIPE AT UPSTREAM MANHOLE - PUMP TO DOWNSTREAM MANHOLE IF NECESSARY; A HOLE IS CUT AT THE PROPOSED INLET POINT AND THE LAST JOINT IS LAID; EXISTING BENCH AND CHANNEL OF MANHOLE IS REBUILT AND SHAPED AS REQUIRED; NEW CONNECTION IS TO BE SEALED AS REQUIRED.

3. PROCEDURE FOR MAKING NEW MANHOLES ON EXISTING SEWER MAINS: EXCAVATE AND EXPOSE EXISTING SEWER AT POINT OF NEW MANHOLE; BUILD MANHOLE OVER EXISTING LINE WHILE NOT DISTURBING EXISTING LINE; BUILD NEW LINE(S) FROM NEW MANHOLE; AFTER NEW LINE(S) PASS(ES) LEAKAGE TEST AND LINE(3) FROM NEW MAINTOLE; AF IEM NEW LINE(3) PASS(ES) LEAKAGE IEST AN WARREN COUNTY SANITARY ENGINEER GIVES GO AHEAD — PLUG OUTLET PIPE AT EXISTING UPSTREAM MANHOLE (PUMP TO EXISTING DOWNSTREAM MANHOLE IF NECESSARY); BREAKOUT TOP OF EXISTING SEWER AS REQUIRED AND FORM A BENCH AND CHANNEL AS REQUIRED.

4. STORM WATER AND EXTRANEOUS FLOWS ARE PROHIBITED FROM ENTERING THE EXISTING SYSTEM DURING CONSTRUCTION. NO OPEN CUT TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. STORM DRAINS, DIVERSION DITCHES, PUMPS ETC., SHALL BE USED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM AT ALL TIMES.

5. ALL SANITARY SEWER PIPE MUST BE BEDDED WITH NUMBER 57 STONE EXTENDING FROM A POINT NOT LESS THAN 6" BELOW THE BOTTOM OF THE PIPE TO THE SPRINGLINE OF THE PIPE. BACKFILL WITH NUMBER 9 GRITS FROM THE SPRINGLINE TO A POINT NOT LESS THAN 12" ABOVE THE CROWN OF THE PIPE. BEDDING SHALPROVIDE A UNIFORM SUPPORT ALONG THE ENTIRE PIPE BARREL, WITHOUT LOAD CONCENTRATION AT JOINT COLLARS OR BELLS. BEDDING DISTURBED BY PIPE MOVEMENT OR BY REMOVAL OF SHORING OR MOVEMENT OF THE TRENCH SHIELD OR BOX SHALL BE RECONSOLIDATED PRIOR TO BACKFILL.

APPROVED/REVISED JUNE, 2012

WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER

SG-1

SEWER TESTING

THE CONTRACTOR MUST EITHER CONSTRUCT BULK HEAD(S) OR INSTALL MECHANICAL INITIATING ANY CONSTRUCTION. THE BULK HEAD(S) OR MECHANICAL PLUG(S) SHALL REMAIN IN PLACE UNTIL THE NEW MAINS HAVE BEEN FLUSHED, CLEANED, TESTED, TELEVISED AND APPROVED FOR USE BY WARREN COUNTY. THE BULK HEAD(S) OR MECHANICAL PLUG(S) CAN ONLY BE REMOVED IN THE PRESENCE OF A WARREN

2. ALL NEW MANHOLES SHALL BE VACUUM TESTED. A VACUUM OF 10" OF MERCURY SHALL BE DRAWN ON THE MANHOLE. FOR A 4' MANHOLE LESS THAN 20' DEEP, MANHOLE SHALL HOLD 9" OF MERCURY FOR AT LEAST 1 MINUTE.

3. ALL SANITARY SEWER MAINS MUST BE AIR TESTED. THE STANDARD TEST IS AN AIR PRESSURE TEST OF 4.0 PSI FOR A FIVE (5) MINUTE PERIOD WITH NO MEASUREABLE 4. ALL NON-TRUSS PIPE SHALL BE TESTED FOR DEFLECTION AFTER BACKFILLING IS

COMPLETED (30 DAY MINIMUM REQUIRED). A DEFLECTION TEST WITH A NINE POINT MANDREL WILL BE REQUIRED. NO MECHANICAL PULLING DEVICE SHALL BE USED. A VERTICAL RING DEFLECTION GREATER THAN FIVE PERCENT (5%) WILL NOT BE ALLOWED. THIS DEFLECTION IS DEFINED AS A FIVE PERCENT REDUCTION IN THE VERTICAL BASE OR AVERAGE INSIDE DIAMETER. 5 AT THE TIME THE SANITARY SEWER IS TESTED. THE SEWER MUST BE TELEVISED AND

VIDEO DOCUMENTATION (DVD) PROVIDED TO WARREN COUNTY. THE VIDEO MUST INCLUDE AUDIO IDENTIFICATION OF PIPE SPANS FROM MANHOLE TO MANHOLE, FLOW DIRECTION, TILT AND PAN OF ALL LATERALS AND CALL OUT ANY SUSPECT PROBLEMS IN THE SYSTEM. ALL PROBLEMS MUST BE IDENTIFIED BY THE CONTRACTOR. THE NECESSARY REPAIRS MUST BE MADE AND THE SEWER MUST THEN BE RE-TESTED AND RE-TELEVISED.

6. A SECOND 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 FAILED SEWER PIPE MUST BE TESTED AND REPAIRED TO THE SATISFACTION OF THE COUNTY SANITARY ENGINEER. 7. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE

THE TELEVISING, TESTING AND REPAIRS OF THE SANITARY SEWER.

APPROVED/REVISED MARCH, 2008

WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER

STANDARD NUMBER SG-4

14. EACH SERVICE LATERAL MUST BE A CONTINUOUS PIECE OF PIPE FROM THE CORP STOP TO THE METER. COUPLINGS SHALL NOT BE ALLOWED. TYPE K COPPER SHALL BE USED FOR 3/4" AND 1" SERVICES. POLYETHYLENE 200 PSI (COPPER TUBE SIZE) MAY BE USED FOR 1 1/2" AND 2" SERVICES. TRACER

WIRE MUST BE USED WITH POLY AND SDR 21. 15. SERVICE LINES 1" AND LARGER MUST BE EITHER TYPE K COPPER, POLY 200 PSI (ASTM D-2737) OR SDR 21 (SLIP JOINT) (ASTM-2241). TRACER WIRE MUST BE TAPED EVENLY EVERY 3' ON POLY AND SDR 21 FROM THE METER PIT INTO THE STRUCTURE BEING SERVED (A 3' LEAD IS REQUIRED INSIDE THE PIT).

16. 1 1/2" AND 2" SERVICE LINES FROM THE CORP STOP TO THE METER PIT MUST BE TYPE K COPPER OR POLYETHYLENE 200 PSI. POLY MUST HAVE A

17. FIRE HYDRANTS MUST BE PROVIDED AT THE ENTRANCE TO ALL SUBDIVISIONS AND AT ALL STREET INTERSECTIONS. 18. YARD HYDRANT-MURDOCK BFHE-10 3/4", WITH BFH FEATURES AND VACUUM BREAKER PERMANENTLY ATTACHED TO OUTLET, WITH DOUBLE BALL CHECK VALVE

19. A BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON ALL WATER SERVICE LATERALS BY THE PROPERTY OWNER IMMEDIATELY UPON ENTRY TO THE STRUCTURE TO BE SERVED, PRIOR TO ANY POINT OF CONNECTION OR USAGE. THE FOLLOWING DEVICES SHALL BE REQUIRED: i) FOR RESIDENTIAL DWELLING UNITS (3 FAMILY OR LESS), A DOUBLE CHECK VALVE COMPLYING WITH A.S.S.E. NO. 1024 MUST BE PROVIDED (WATTS

REGULATOR COMPANY MODEL NO. 7 OR EQUAL). ii) FOR ALL OTHER USERS, A REDUCED PRESSURE PRINCIPAL PRESSURE REDUCING VALVE (TRIPLE CHECK VALVE) COMPLYING WITH A.S.S.E. NO. 1013 MUST BE PROVIDED (WATTS REGULATOR COMPANY MODEL NO. 909 OR EQUAL).

20. SWAB PIPE WITH 50 PPM CHLORINE SOLUTION BEFORE INSTALLATION. 21. ALL NEW WATER MAINS SHALL BE PRESSURE TESTED FOR 2 HOURS AT 1.5 ALLOWABLE LEAKAGE SHALL BE PER TABLE 6A OF AWWA C-600.

22. DEDUCT METERS SHALL NOT BE ALLOWED. 23. NO IRRIGATION CONNECTIONS SHALL BE ALLOWED IN THE METER PIT. 24. BACK FLOW PREVENTER TO BE INSTALLED AHEAD OF ANY SPRINKLER BUT

25. ALL MATERIALS USED SHALL BE DOMESTIC, MADE IN THE UNITED STATES OF

APPROVED/REVISED MARCH, 2008

WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER

STANDARD NUMBER WG-1A

1. ALL SANITARY PIPE SHALL CONFORM TO ASTM D-2680 FOR ABS/PVC GASKETED COMPOSITE PIPE (TRUSS), ASTM D-3034 FOR SDR 26 GASKETED 4" - 15" DIAMETER OR ASTM F-679 FOR SDR 26 GASKETED 18" - 30" DIAMETER. PIPE LARGER THAN 15" SHALL CONFORM TO ASTM F-949 (A2000) OR ASTM F-1803. CERAMIC COATED CLASS 53 DUCTILE IRON PIPE OR EQUAL MUST BE USED WHERE SPECIFIED BY THE

ON TYPES WITH RUBBER GASKETS. PIPE ENDS SHALL NOT BE BEVELED. PIPE ENDS 2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER STORM WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

COUNTY SANITARY ENGINEER. JOINTS FOR PVC GRAVITY SEWER PIPE SHALL BE PUSH-

3. NO MANHOLE, OR ANY PORTION OF THE MANHOLE, SHALL BE LOCATED UNDER A 4. SANITARY SEWER LATERALS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS: A) ABS PIPE - ASTM D-2751 WITH SDR 23.5 (4" OR 6" GLUE JOINT) B) PVC PIPE - ASTM D-3034 WITH SDR 23.5 (4" OR 6" GLUE OR GASKET JOINT) ASTM D-2665 SCHEDULE 40 (4" CNLY). ASTM D-3034 WITH SDR 35 (6" ONLY)

C) DUCTILE IRON - CLASS 53 (4" OR 6") 5. ON THE WATER MAIN SIDE OF THE ROAD, SEWER LATERALS MUST BE EXTENDED TWENTY-THREE FEET (23") BEHIND CURB, ON THE SIDE OF THE ROAD OPPOSITE THE WATER MAIN. SEWER LATERALS MUST BE EXTENDED TO THE HOUSE SIDE OF UTILITY EASEMENTS AND SHALL BE MARKED BY TWO INCHES (2") BY FOUR INCHES (2" X 4") OR LARGER POSTS. POSTS SHALL BE PAINTED RED. A SIX FOOT (6')
LENGTH OF #6 REINFORCED BAR SHALL BE INSTALLED AGAINST THE POST. END OF SEWER LATERAL SHALL NOT EXCEED 12' IN DEPTH UNLESS APPROVED BY COUNTY SANITARY ENGINEER.

6. ONLY SANITARY WYES OR TEES WITH 45' BENDS SHALL BE USED FOR SANITARY LATERAL INSTALLATION. ALL WYES TO BE GLUE JOINTS ON TRUSS AND COMPOSITE PIPE. ALL SANITARY LATERALS MUST BE SIX INCHES (6") IN DIAMETER WITHIN THE RIGHT-OF-WAY AND MAY BE REDUCED TO FOUR INCHES (4") FROM THE RIGHT-OF-WAY TO THE STRUCTURE. NO CONNECTION SHALL BE MADE TO THE CROWN OF THE SEWER MAIN.

7. FOR ALL STRUCTURES OTHER THAN DETACHED SINGLE FAMILY RESIDENTIAL UNITS, SEWER LATERALS MUST BE NOT LESS THAN SIX INCHES (6") INTERNAL DIAMETER. FOR DETACHED SINGLE-FAMILY RESIDENTIAL UNITS, SEWER LATERALS MUST BE SIX INCHES (6") IN DIAMETER WITHIN THE RIGHT-OF-WAY AND MAY BE REDUCED TO FOUR INCHES (4") FROM THE RIGHT-OF-WAY TO THE STRUCTURE.

8. THE LOCATION OF SEWER LATERALS MUST BE STAMPED IN THE CURB AT THE TIME THE CURB IS PLACED TO PERMANENTLY INDICATE THE LOCATION OF SAID LATERALS.

APPROVED/REVISED JUNE, 2012

WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER

STANDARD NUMBER SG-2A

> 01 C903

PROCEDURE FOR CONNECTION TO EXISTING WATER SYSTEM 1. MUST NOTIFY WARREN COUNTY WATER DEPARTMENT THRÉE (3) DAYS IN ADVANCE OF ANY SHUT DOWN. WARREN COUNTY WILL ISSUE THE SHUT DOWN NOTIFICATION AND/OR BOIL ADVISORY TO AFFECTED CUSTOMERS PER OHIO EPA REQUIREMENTS IF DETERMINED NECESSARY BY WARREN COUNTY. 2. EXPOSE EXISTING MAIN AT PROPOSED CONNECTION POINT. NO WET TAP SHALL BE MADE WITHIN THREE (3) FEET OF A BELL OR PIPE CONNECTION. 3. COUNTY PERSONNEL TO OPERATE CLOSING OF APPROPRIATE VALVES TO ISOLATE LINE TO BE TAPPED. 4. INSTALL PROPER TAPPING SLEEVE AND TAPPING VALVE. THE TAPPING SLEEVE AND VALVE SHALL BE TESTED AT 200 PSI FOR A PERIOD OF AT LEAST 5. IF THE TAPPING SLEEVE AND VALVE WILL BE UNDER FUTURE PAVEMENT, THE BURIED VALVE MUST BE LEFT OPEN AND A NEW VALVE SET OUT OF PAVEMENT. 6. FIELD CUT EXISTING MAIN AS NECESSARY TO ACCOMMODATE TEE AND CLOSE COUPLED VALVES AT EACH END OF TEE. CARE IS TO BE TAKEN SO AS NOT TO GET DIRT IN EXISTING MAIN. 7. THOROUGHLY CLEAN AND DISINFECT PIPE AND APPURTENANCES TO BE 8. INSTALL TEE AND VALVES — DRESSER COUPLINGS CAN BE USED IF NECESSARY. PROPOSED MAIN VALVE IS TO BE CAPPED AND SHUT OFF. EXISTING MAIN IS THEN TO BE RETURNED TO SERVICE BY COUNTY PERSONNEL. 9. CONSTRUCTION OF PROPOSED MAIN IS TO BE COMPLETED WITHIN A JOINT OF CONNECTION TO TEE AND VALVES INSTALLED ABOVE. 10. ENTIRE LINE IS TO BE PRESSURE TESTED AND DISINFECTED TO COUNTY 11. ENTIRE LENGTH OF PIPE IS TO BE THOROUGHLY CLEANED AND DISINFECTED PRIOR TO INSTALLATION. PERMATEX CHLORINE TABLETS TO BE USED FOR DISINFECTION. DOSAGE SHALL BE PER MANUFACTURER'S SPECIFICATIONS BASED ON PIPE MATERIAL. 12. NEW MAIN IS TO BE PUT INTO SERVICE BY COUNTY PERSONNEL, 13. TAPPING SLEEVES/SADDLES TO BE TWO-PIECE CAST IRON. SIZE ON SIZE TAPPING SLEEVES ARE NOT PERMITTED. WARREN COUNTY STANDARD DETAILS STANDARD NUMBER APPROVED/REVISED DEPARTMENT OF WATER & SEWER WG-2 JUNE, 2012

SEWER (CONTINUED) 9. THE LOCATION OF ALL SEWER LATERALS MUST BE PROVIDED ON THE AS-BUILT 10. MANHOLE LATERALS SHALL HAVE AN INVERT TWO INCHES (2") ABOVE MAIN-LINE 11. EXISTING MANHOLE CASTINGS ARE TO BE RAISED BY EITHER A MANHOLE ADJUSTING RING OR A BARREL SECTION ADDED. IF THE HEIGHT OF NECESSARY ADJUSTMENT IS OVER ONE FOOT (1') OR THERE IS ALREADY AN EXISTING ADJUSTMENT RING BEING USED, THE CONTRACTOR IS TO USE A NEW BARREL SECTION ONLY. EXTRA CARE IS TO BE TAKEN TO INSURE A PROPER AND TIGHT SEAL AT ALL NEW JOINTS. 2. THE CONTRACTOR MUST EITHER CONSTRUCT BULK HEAD(S) OR INSTALL MECHANICAL PLUGS(S) AT THE POINT(S) OF CONNECTION TO THE EXISTING SEWER PRIOR TO INITIATING ANY CONSTRUCTION. THE BULK HEAD(S) OR MECHANICAL PLUG(S) SHALL REMAIN IN PLACE UNTIL THE NEW MAINS HAVE BEEN FLUSHED, CLEANED, TESTED TELEVISED AND APPROVED FOR USE BY WARREN COUNTY. THE BULK HEAD(S) OF MECHANICAL PLUG(S) CAN ONLY BE REMOVED IN THE PRESENCE OF A WARREN 13. TRENCH SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST INSURE THAT ALL APPLICABLE OSHA OPEN TRENCH SAFETY REQUIREMENTS ARE FOLLOWED. IT IS NOT WARREN COUNTY'S RESPONSIBILITY TO INSPECT EACH 14. HDPE PIPE MAY BE USED FOR DIRECTIONAL BORING OF FORCE MAINS WITH APPROVAL FROM THE COUNTY SANITARY ENCINEER. ALL DIRECTIONAL DRILLING SHOULD BE ACCOMAPNIED BY DRILLING LOGS AT 25' STATION INCREMENTS, PVC PIPE SHALL BE PERMITTED FOR FORCE MAINS SIX INCHES (6") OR SMALLER IN DIAMETER. FORCE MAINS EIGHT INCHES (8") OR LARGER MUST BE CLASS 53 DUCTILE IRON WITH AN INTERIOR LINING OF EPOXY OR CERAMIC. PVC SHALL CONFORM TO AWWA C900 REQUIREMENTS AND HAVE AN EQUIVALENT OUTSIDE DIAMETER OF DR 14. 15. MINIMUM SLOPE SHALL BE AS FOLLOWS: PIPE SIZE 16. ALL MATERIALS USED SHALL BE DOMESTIC, MADE IN THE UNITED STATES OF AMERICA. WARREN COUNTY STANDARD DETAILS STANDARD NUMBER APPROVED/REVISED SG-2B DEPARTMENT OF WATER & SEWER JUNE, 2012

PROCEDURE FOR RELOCATING OR LOWERING SERVICE LATERAL AND RELOCATING OR BRINGING TO GRADE METER PITS ALL AFFECTED USERS MUST BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE AS TO THE TIME AND DURATION OF THE SHUTOFF. ANY DISCONTINUANCE OF SERVICE MUST BE COORDINATED THROUGH WARREN COUNTY PRIOR TO ANY SHUT 2. ALL WORK MUST BE PERFORMED ACCORDING TO ALL WARREN COUNTY SPECIFICATIONS, PARTICULARLY W+10, W+10A AND W+12. 3. EACH SERVICE LATERAL MUST BE A CONTINUOUS PIECE OF PIPE FROM THE CORP STOP TO THE METER. COUPLINGS SHALL NOT BE PERMITTED. TYPE K COPPER SHALL BE USED FOR 3/4" AND 1" SERVICES. POLYETHYLENE 200 PSI MAY BE USED FOR 1 1/2" AND 2" SERVICES. 4. METER PITS MUST BE ADJUSTED TO GRADE USING RING RISERS OR PIT RISERS. METERS MUST BE ADJUSTED WITH METER RESETTERS (FORD V42). ALL PROCEDURES MUST BE DISCUSSED AT A PRECONSTRUCTION MEETING PRIOR TO THE INITIATION OF CONSTRUCTION. APPROVED/REVISED WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER WG-3

PIPE CONNECTIONS INTO MANHOLES SEWER PIPE TO MANHOLE CONNECTIONS ON ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. SEWER PIPE SHALL BE SEALED IN THE MANHOLE SECTION PIPE OPENINGS WITH A RESILIENT CONNECTOR MEETING THE REQUIREMENTS OF ASTM C923. THE CONNECTION MAY BE ANY OF THE 1. RUBBER SLEEVE WITH STAINLESS STEEL BANDING A) KOR-N-SEAL AS MANUFACTURED BY POLLUTION CONTROL SYSTEMS, B) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERSPACE CORPORATION C) OR EQUAL 2. RUBBER GASKET COMPRESSION A) PRESS WEDGE II AS MANUFACTURED BY PRESS—SEAL GASKET CORPORATION B) DURA-SEAL MANUFACTURED BY DURA TECH, INC. C) OR EQUAL RESILIENT CONNECTOR SHALL BE CAST INTEGRALLY INTO THE WALL OF THE MANHOLE SECTION AT TIME OF MANUFACTURE OR SHALL BE INSTALLED BY MECHANICAL MEANS IN OPENINGS CUT INTO MANHOLE WALL PER ASTM C923. ANY CONNECTION TO AN EXISTING MANHOLE MUST BE MADE BY CORING THE MANHOLE. ANY CORE TO A MANHOLE MUST BE CENTERED IN THE BARREL SECTION. NO CORE SHALL BE MADE ALONG THE SEAM OF THE BARREL STANDARD NUMBER APPROVED/REVISED WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER SG-3 MARCH, 2008

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For Information Only

HUNKLER

E- 60805

Revision

Date Description 1 | 01.16.2019 | CITY COMMENTS

WARREN COUNTY STANDARD DETAILS

40831.24

This Line Is 3 Inches When Printed Full Size

November 29, 2018

WATER AND SEWER NOTES

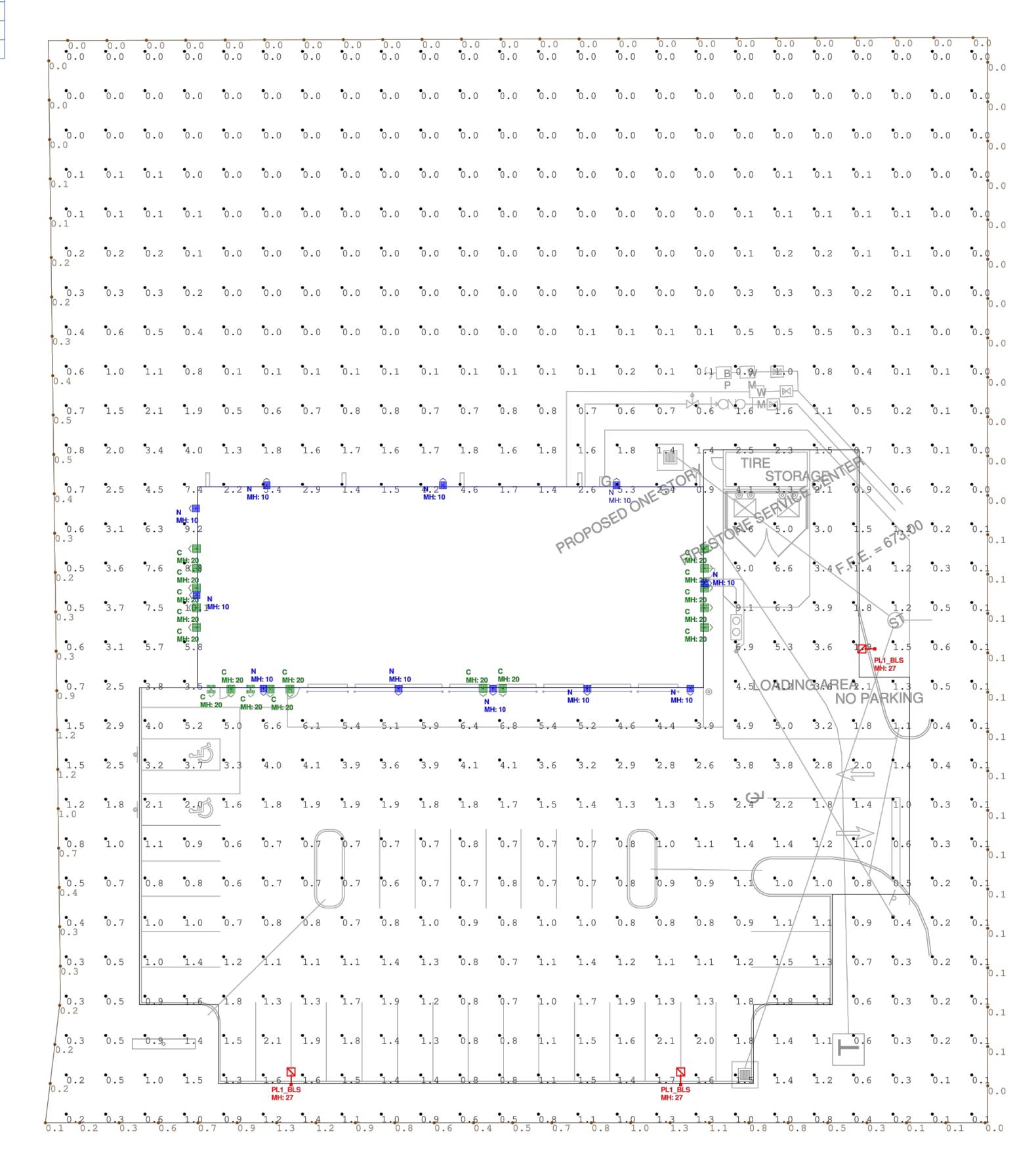
Luminaire Schedule							
Symbol Qty Label Arrangement LMF Lum. Lumens Lum. Watts Part Number		Part Number					
₽—✓	3	PL1_BLS	SINGLE	1.000	8950	86	OSQ-A-NM-4ME-B-57K-UL-BK (Area Light)
>	17	С	SINGLE	1.000	2490	19	XSPW-B-WM-2ME-2L-40K-UL-BK
	11	N	WALL MOUNT	1.000	2490	19	XSPW-B-WM-3ME-2L-57K-UL-BK

Calculation Summary (Footcandles calculated using initial lumens @25℃)							
Label	Units	Avg	Max	Min	Avg/Min	Max/Min	
Property Line	Fc	0.00	1.3	0.0	N.A.	N.A.	
Site	Fc	1.18	10.1	0.0	N.A.	N.A.	
Pavement	Fc	2.10	9.1	0.5	4.20	18.20	

FIXTURE MOUNTING HEIGHTS AS SHOWN POLES ON 2' BASE

ADDITIONAL EQUIPMENT REQUIRED:
(3) CL-SSP-4011-25-D6-BK-AB (25' x 4" POLE)
(3) OSQ-DABK DIRECT ARM MOUNT
(3) OSQ-BLSMF BACKLIGHT SHIELD
PROPOSED POLES MEET 120MPH SUSTAINED WIND LOA

*** CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER ***





shown on this lighting design of parameters provided to onjunction with luminaire test sted under laboratory project conditions differing parameters may affect field mer is responsible for nal accuracy along with any applicable electrical,

Project Name: BSRO South Lebanon OH

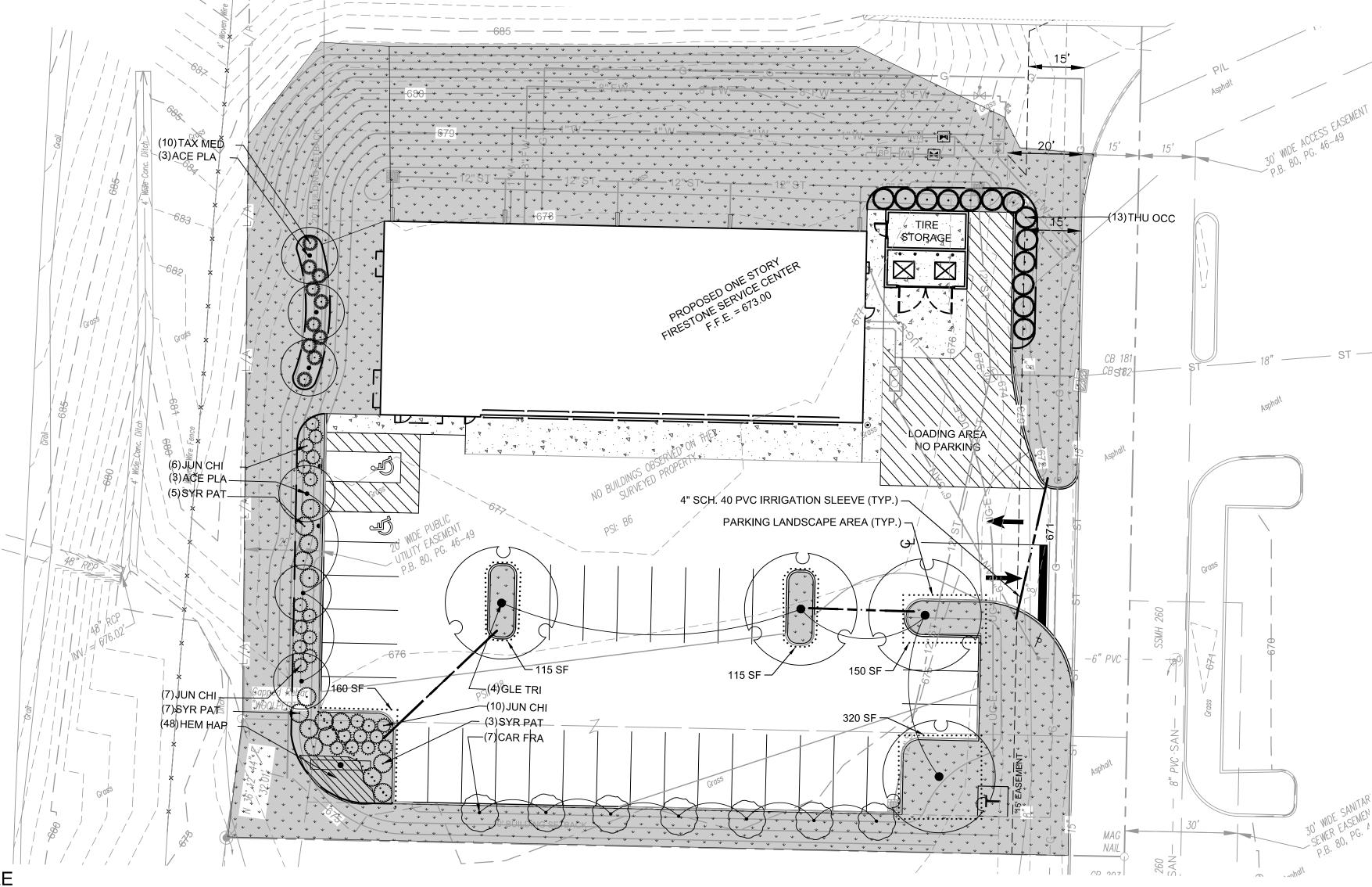
SR-34369

Footcandles calculated at grade

Layout By:
JACOB EDLER
Filename: FRS-181204LBOHJEER3. AGIate:1/16/2019

Scale 1" = 16'

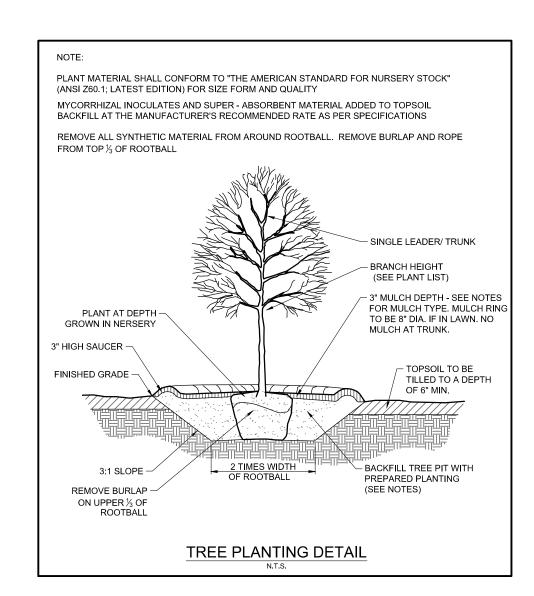
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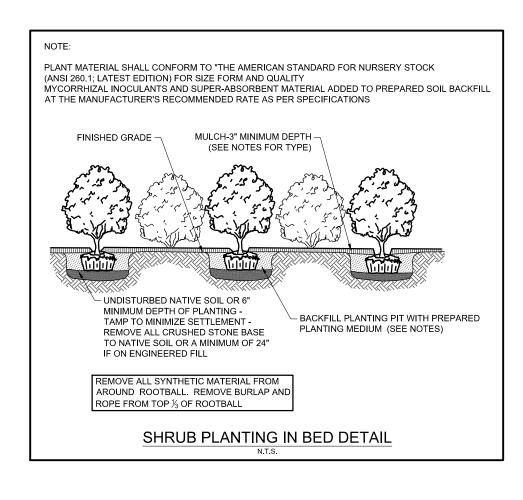


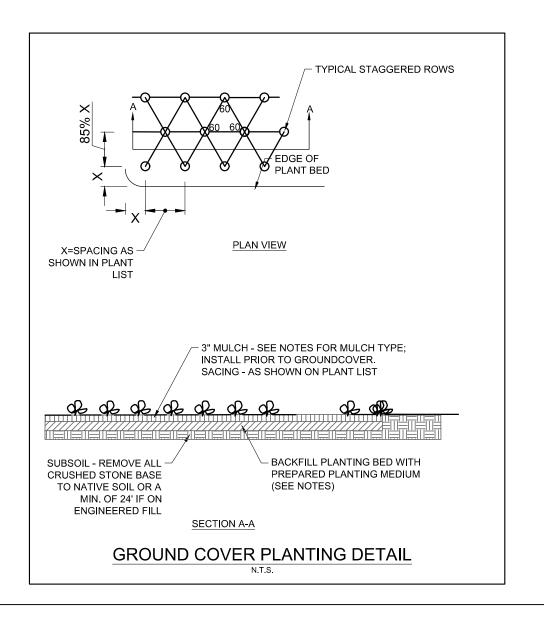
PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	QTY	REMARKS
ACE PLA	Acer platanoides `Columnare`	Columnar Norway Maple	B & B	2"Cal	6	6` clear trunk
CAR FRA	Carpinus betulus `Franz Fontaine`	Columnar Hornbeam	B & B	2"Cal	7	6` clear trunk
GLE TRI	Gleditsia triacanthos `Skyline`	Skyline Honey Locust	B & B	2"Cal	4	6` clear trunk
THU OCC	Thuja occidentalis `Techny`	Techny Arborvitae	B & B	5` ht.	13	full to base
SHRUBS	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	<u>QTY</u>	REMARKS
JUN CHI	Juniperus chinensis 'Nick's Compact'	`Nick`s Compact` Juniper	5 gal	24" spr.	23	full
SYR PAT	Syringa patula `Miss Kim`	Miss Kim Lilac	5 gal	24" ht.19	15 full	full
TAX MED	Taxus x media `Densiformis`	Dense Yew	B & B	18" spr.	10	full, clay grown
GROUND COVERS	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	QTY	REMARKS
HEM HAP	Hemerocallis x `Happy Returns`	Happy Returns Daylily	cont.	#1	44	plant 24" o.c.

LANDSCAPE CALCULATIONS SITE TREES REQUIRED @ 1 PER 3,000 S.F. (65,259 S.F.): 22 SITE TREES PROVIDED: 30 PARKING PERIMETER TREES REQUIRED @ 1 PER 30 L.F. (330 L.F.): 11 PARKING PERIMETER TREES PROVIDED: 11 PARKING LANDSCAPE AREA REQUIRED (5% OF 15,790 S.F.): 790 S.F. PARKING LANDSCAPE AREA PROVIDED: 860 S.F. PARKING AREA TREES REQUIRED @ 1 PER 300 S.F. OF REQUIRED LANDSCAPE AREA: 3 PARKING AREA TREES PROVIDED: 3







- 1. WHEN APPLICABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING TREES TO REMAIN. NO HEAVY EQUIPMENT SHOULD BE PERMITTED TO OPERATE OR BE STORED, NOR ANY MATERIALS TO BE HANDLED OR STORED, WITHIN THE DRIPLINES OF TREES OUTSIDE THE LIMIT OF GRADING
- 2. THE QUANTITIES INDICATED ON THE PLANT LIST AND PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- 3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, UNLESS OTHERWISE NOTED AND SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z-60.1; LATEST EDITION, FOR SIZE AND QUALITY.
- 4. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 5. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT UTILITIES THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE
- 6. ALL AREAS DISTURBED BY UTILITY TRENCHING, SITE AND BUILDING CONSTRUCTION SHALL BE STABILIZED WITH SODDING AS SHOWN BY THE PLAN.

ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY

- 7. SOIL USED FOR PLANTING SHALL CONSIST OF 5 PARTS TOPSOIL, 1 PART SAND AND 2 PARTS ORGANIC MATTER, MIXED WITH I POUND OF FERTILIZER PER CUBIC YARD.
- A. SAND SHALL BE CLEAN MASONRY SAND.
- B. ORGANIC MATTER SHALL BE PEAT MOSS, OR WELL COMPOSTED PINE BARK, OR APPROVED EQUAL AND SHALL BE FINELY GROUND AND FREE OF WEEDS.
- C. ALL FERTILIZER SHALL BE 10-10-10 WITH MINOR ELEMENTS. FERTILIZER SHALL HAVE 40-50% OF ITS TOTAL NITROGEN IN A WATER INSOLUBLE FORM.
- 8. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AND SOD AREAS PRIOR TO INSTALLATION. TREFLAN OR AN APPROVED EQUAL SHALL BE USED.
- 9. ALL PLANT BEDS SHALL HAVE A MINIMUM OF 3" DEEP MULCH. MULCH SHALL BE SHREDDED HARDWOOD.
- 10. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST.
- 11. PRIOR TO FINAL PAYMENT, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON PROPER CARE OF ALL SPECIFIED PLANT MATERIALS.
- 12. THE LANDSCAPE INSTALLATION SHALL BE COORDINATED WITH THE IRRIGATION INSTALLATION WHEN APPLICABLE.
- 13. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AND TAKE SPECIAL CARE TO INSURE THAT BED PREPARATION DOES NOT INHIBIT DRAINAGE.
- 14. ALL LAWN AREAS SHALL BE CULTIVATED TO A DEPTH OF 4" PRIOR TO SODDING. PREPARED
- LAWN BEDS SHALL BE FREE FROM STONES OVER 2" DIAMETER AND OTHER DELETERIOUS MATERIAL. 15. THE LANDSCAPE CONTRACTOR SHALL RAKE SMOOTH ALL SOD AREAS PRIOR TO
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND THE CURB SO GRADE
- IS LEVEL WITH TOP OF CURB. 17. SODDED AREAS SHALL HAVE NO BARE SPOTS.
- 18. CUT AWAY ROPES OR WIRES FROM B&B PLANTS. PULL BACK BURLAP FROM TOP OF ROOT BALL. DO NOT ALLOW BURLAP TO BE EXPOSED AT SURFACE. TOTALLY REMOVE BURLAP IF IT IS SYNTHETIC.
- 19. IF CONTAINER GROWN PLANTS SHOW SIGNS OF BEING ROOT BOUND, SCORE ROOTS VERTICALLY.
- 20. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. 21. ALL REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE, AND QUALITY AS SPECIFIED ON
- THE PLANT LIST, UNLESS APPROVED OTHERWISE IN WRITING BY THE LANDSCAPE ARCHITECT.
- 22. ANY MATERIAL THAT IS DEEMED TO BE 25% DEAD OR MORE SHALL BE CONSIDERED DEAD, AND MUST BE REPLACED AT NO CHARGE. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK, OR MORE THAN 25% OF THE CROWN IS DEAD.
- 23. REPLACEMENTS SHALL BE MADE DURING THE NEXT PLANTING SEASON UNLESS THE LANDSCAPE CONTRACTOR AGREES TO AN EARLIER DATE. PLANTING DATES

SPRING: MARCH 15 - MAY 15 FALL: OCTOBER 1 - NOVEMBER 30

24. THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, RELOCATION, WILDLIFE, THEFT, OR OTHER ACTIVITIES

IRRIGATION NOTES

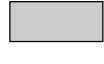
- 1. ALL LATERAL AND SUPPLY LINES SHALL BE CLASS 200 PVC, SIZED FOR FLOW VELOCITIES OF 5 FT./SEC. OR LESS.
- 2. PROVIDE TWO $\frac{3}{4}$ " QUICK COUPLING VALVES ON SUPPLY LINE.
- 3. PROVIDE AUTOMATIC DRAIN VALVES AT ALL LOW POINTS ON SUPPLY AND LATERAL LINES.
- 4. PROVIDE TWO PLASTIC SUPPLY LINE MANUAL DRAIN VALVES.
- 5. ACCEPTABLE SYSTEM COMPONENTS:

BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.

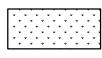
- A. SYSTEM CONTROLLER: HUNTER X-CORE SERIES, TOR0 TMC-212 SERIES, RAIN BIRD RZX SERIES
- B. ZONE CONTROL VALVES: HUNTER PGV SERIES, TORO 250/260 SERIES, RAIN BIRD DV/DVF SERIES
- C. SPRINKLER HEADS: HUNTER SRM AND PRO SPRAY SERIES, TORO

570Z AND 300 SERIES, RAIN BIRD 1800 AND 3500 SERIES

D. RAIN/FREEZE SENSORS: HUNTER RAIN CLIK PLUS HUNTER FREEZE CLIK, TORO TWRFS RAIN/FREEZE SENSOR OR RAIN BIRD WR2 WIRELESS RAIN/FREEZE SENSOR.

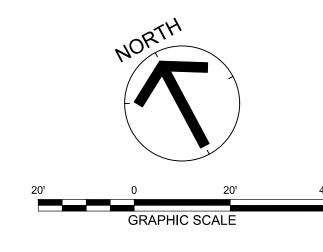


IRRIGATION COVERAGE AREA (18,960 S.F.)



AREA TO BE SODDED WITH KY-31 FESCUE OR ENGINEER APPROVED EQUAL. (17,070 S.F.)

CONTRACTOR SHALL PROVIDE A FULLY AUTOMATIC IRRIGATION SYSTEM FOR THE AREAS SHOWN BY THE PLAN





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Nashville, TN 37201



Revision

No. Date Description

1 | 1/16/19 | CITY COMMENTS

LANDSCAPE PLAN

November 29, 2018