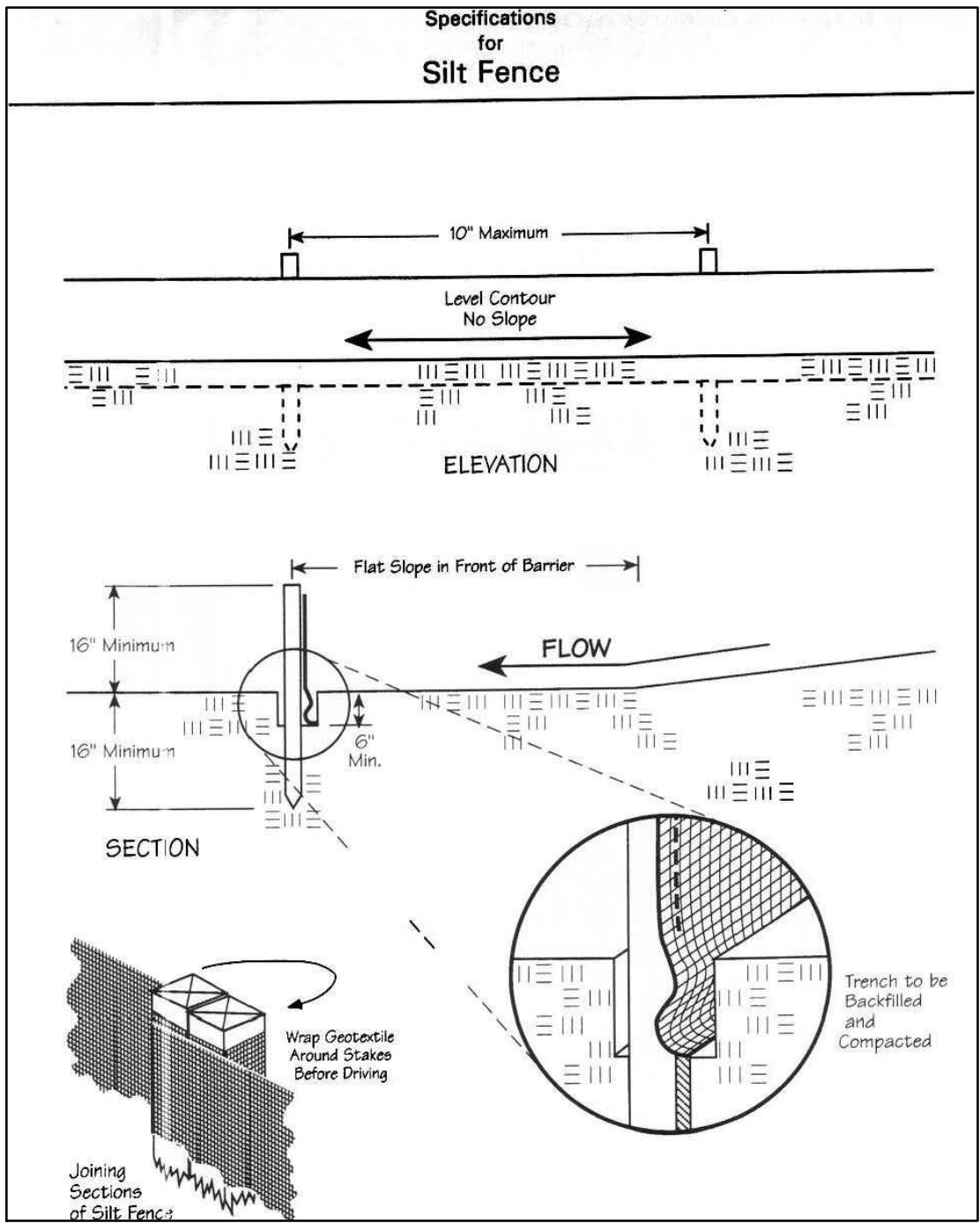




SILT FENCE SPECIFICATIONS

- 1.) Silt fence shall be constructed before upslope land disturbance begins.
- 2.) All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
- 3.) To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- 4.) Where possible, silt fence shall be placed on the flattest area available.
- 5.) Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence.
- 6.) The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
- 7.) The silt fence shall be placed in a trench cut a minimum of 6 in. deep. the trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
- 8.) The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6 in. deep trench. the trench shall be backfilled and compacted.
- 9.) Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
- 10.) Fence Posts: The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2 in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft..
- 11.) Fabric: The silt fence fabric shall be per ODOT Item 712.09, Type C Geotextile Fabric.

SEEDING AND MULCHING

- 1.) All seeding and mulching to be per ODOT Item 659, Seeding and Mulching.



BUTLER COUNTY WATER AND SEWER DEPARTMENT GENERAL NOTES GUIDELINE

- 1) Sanitary laterals shall be extended to at least ten (10) feet beyond the property / right-of-way line or to the edge of the easement whichever is greater.
- 2) Water main materials, valves, fire hydrants, fittings and appurtenances and installation shall be per Butler County specifications, using class 53 Ductile Iron as per AWWA C-151 with minimum 48over.
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- 4) Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited.
- 5) All buildings to be served by the public sewer system shall be constructed so as to provide a minimum of four feet of vertical separation between the public sanitary sewer, at the point of connection and the lowest building level served by gravity sewer connection. In addition, said building level shall be at least one (1) foot above the lowest point of free-overflow (non-sealed manhole cover) upstream of any treatment facility or wastewater pumping facility that receives the discharge from said building. Said minimum service levels shall be recorded on the Record Drawing?plans for the development, which will be kept on file in the office of the Butler County Water & Sewer Department.
- 6) Butler County Water & Sewer Department does not accept any responsibility for the relocation, repair or replacement of any other utility installed within five (5) feet of the center line of any sanitary sewer main or water main.
- 7) All water main valves shall have a minimum depth of 2.5' and a maximum depth of 4.0'. from the proposed grade to the top of the Valve Operating Nut.
- 8) Private driveways, parking lots and other paved areas, earthen berms or structures should not be constructed over private water or sewer service lines within the public road right of way or within the easement areas for the public utilities. Should this occur, the property owner shall be held responsible for the protection and repair and for providing access to any curb stops, meter pits, manholes, clean-outs, etc. installed in conjunction with these private service lines and for any damage or restoration of the paved surfaces or structures that may result from the future operation, maintenance, repair or replacement of said service lines and appurtenances.
- 9) Sanitary sewer laterals, which shall include all pipe and appurtenances from the building to the public sewer main, and the connection to the public sewer main shall be considered private and the responsibility of the property owner to maintain. The connection to the sewer main would be any piping that extends out from the main barrel to the sewer main.

WATER, SANITARY AND STORM SEWER SYSTEM NOTES

- 1) All materials, installation, specifications and inspections to be per Butler County Water and Sewer Department current regulations.
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Water Service Information:

Lot #	Curb Stop Location	Water Meter Location
1	6 ft. north of water main	1 ft. west of end 35' wide esmt.
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- 11) The contractor is to provide as built drawings of the roadway, storm sewer, sanitary sewer, water main and grading. As built data to be provided by Ohio P.S..

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- 5) The Contract Documents do not detail construction safety requirements. The construction safety is the responsibility of the CONTRACTOR.

CONSTRUCTION SEQUENCE

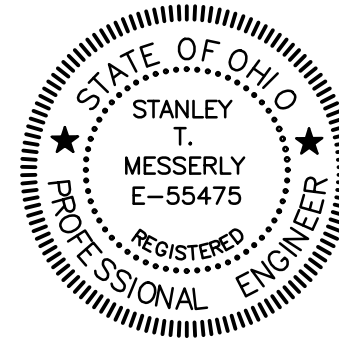
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- 2.) INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- 3.) GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
- 4.) INSTALL PROPOSED SANITARY SEWER PIPE SYSTEM.
- 5.) TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- 6.) FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- 7.) REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

TOTAL AREA DISTURBED = 0.55~ AC.

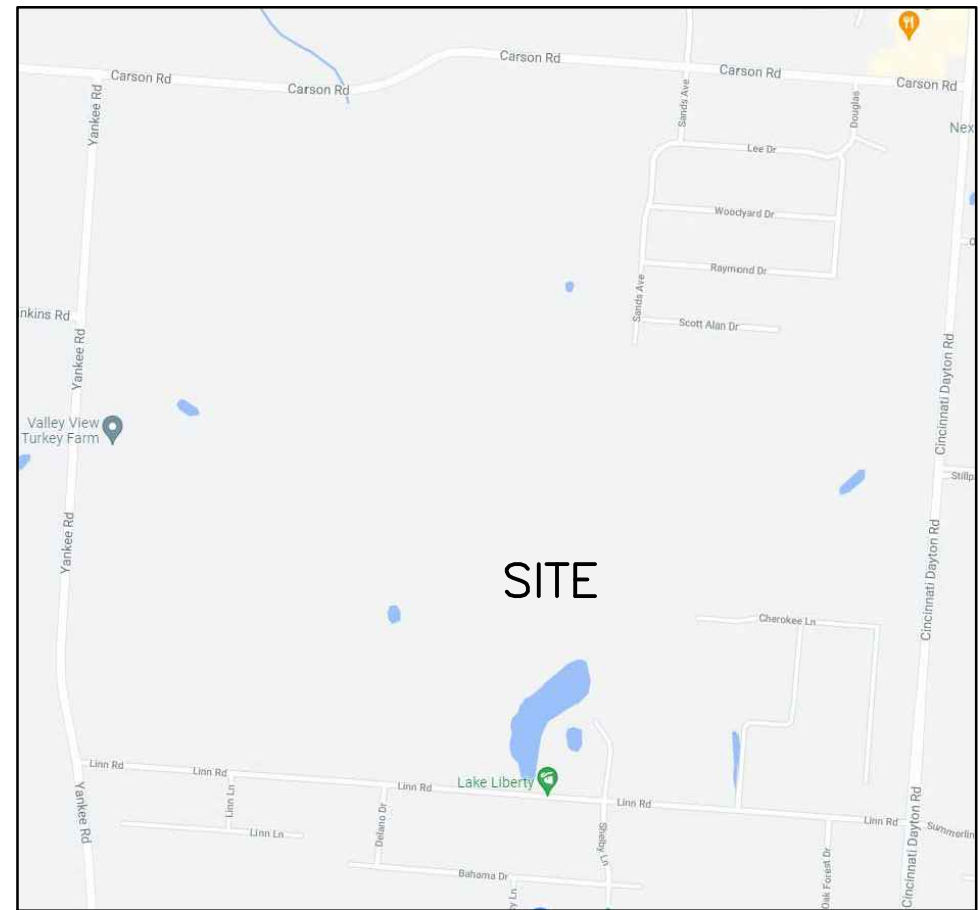
Stan Messerly

11/13/21

STANLEY T. MESSERLY



(0521 Page RD-1 11-13-21)



VICINITY MAP

NOT TO SCALE

GENERAL NOTES

- 1.) VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE STARTING CONSTRUCTION. INFORM OWNER OF ANY DISCREPANCIES.
- 2.) ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION, AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL, IN ACCORDANCE WITH THE STATE OF OHIO SPEC. ITEM 659.
- 3.) TEMPORARY EROSION, MUD AND DEBRIS CONTROL, USING THE SILT FENCING DETAIL, MUST BE PROVIDED FOR AT ALL OUTLET DITCH, SWALE, WATERCOURSE OR PIPE LOCATED AT THE LOW ENDS OF THE DEVELOPMENT.
- 4.) ALL SEWER AND SURFACE DRAINAGE CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO CONSTRUCTION AND MATERIALS SPECIFICATIONS.
- 5.) GEOTECHNICAL ENGINEERING SERVICES ARE REQUIRED AS A PART OF THIS PLAN. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WHATEVER EXPLORATIONS AND SERVICES ARE DEEMED NECESSARY; TO MONITOR THE EARTHWORK AT THE VARIOUS STAGES OF DEVELOPMENT; TO PERFORM ON SITE INSPECTION AND TESTING TO ASSURE THAT ALL WORK UNDER HIS JURISDICTION IS PERFORMED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND CONFORMS TO THE REGULATIONS OF GOVERNMENTAL AGENCIES.
- 6.) EXCESS EXCAVATION IS TO BE PLACED ON SITE, COMPACTED SO AS TO REMAIN STABLE AND SEEDED.
- 7.) ALL STRIPPED TOP SOIL IS TO REMAIN ON SITE AND BE USED FOR THE PROPOSED SITE SURFACES.
- 8.) SEE THE LANDSALE SURVEYING DRAWINGS FOR ALL PROPOSED PROPERTY LINE AND EASEMENTS INFORMATION.
- 9.) RESIDENTIAL FLOOR ELEVATIONS SHOWN ARE FOR DESIGN PURPOSES ONLY, ACTUAL FLOOR ELEVATIONS ARE TO BE DETERMINED BY THE BUILDING.

INDEX OF DRAWINGS	
RD-1	TITLE SHEET, NOTES AND DETAILS
RD-2	LANDSALE SURVEYING, INC. SURVEY FOR HANDERMANN PROPERTY DATED 8/27/21
RD-3	PLAN AND PROFILE
RD-4	NOTES AND DETAILS

OWNER/DEVELOPER

PAUL & AMY HANDERMANN
1383 GOLF CLUB DRIVE
LEBANON, OHIO 45036
515-309-3091

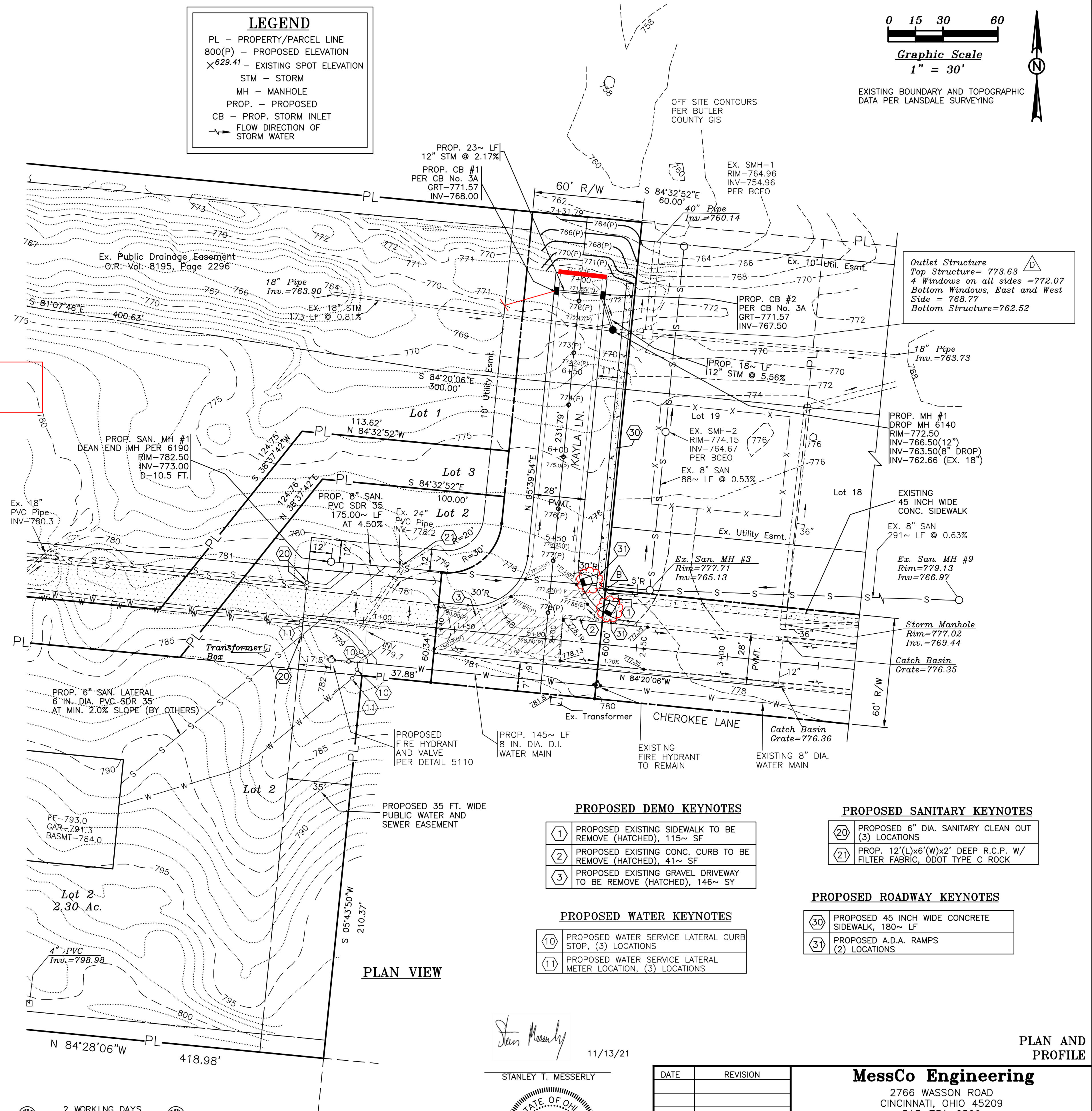
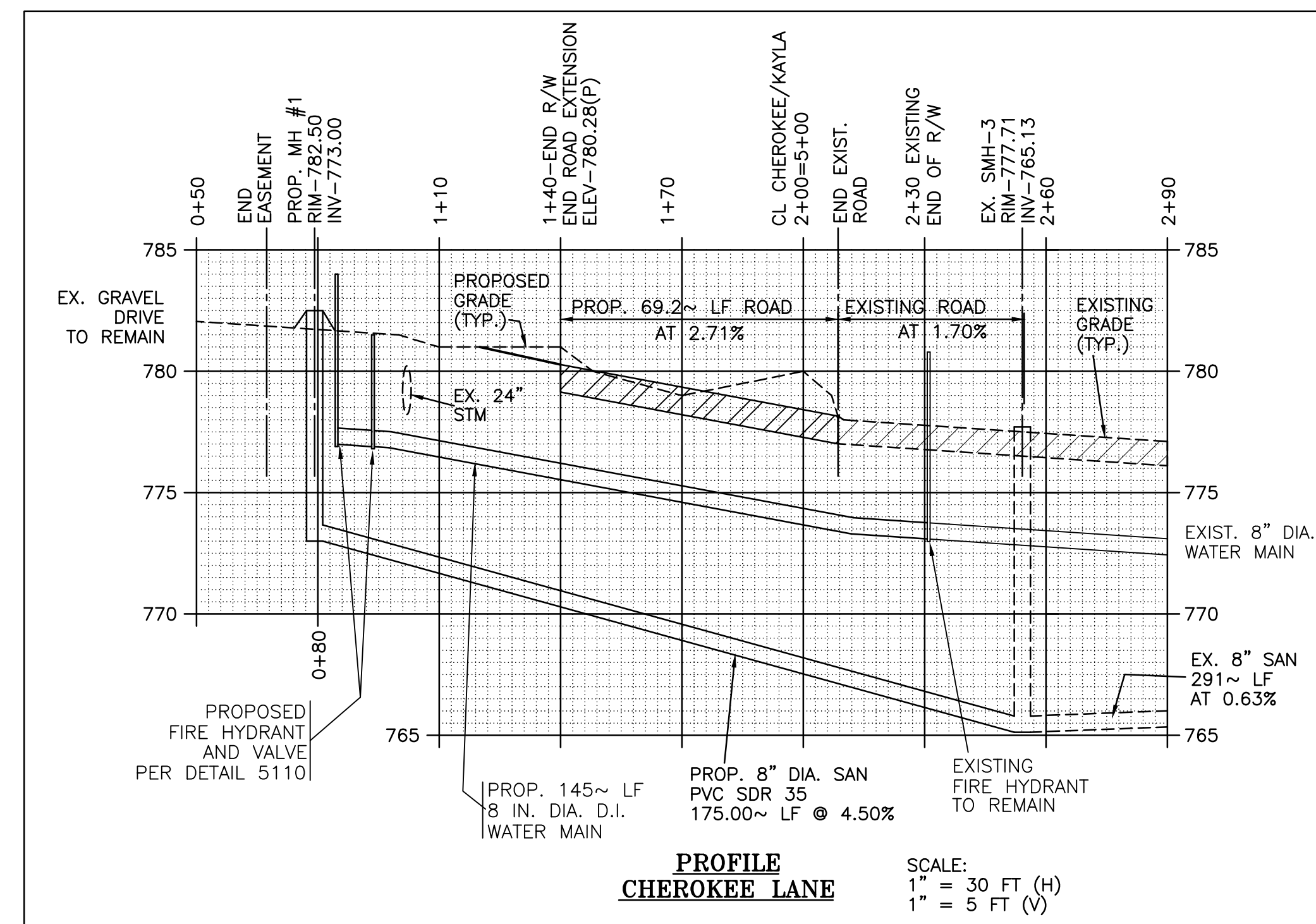
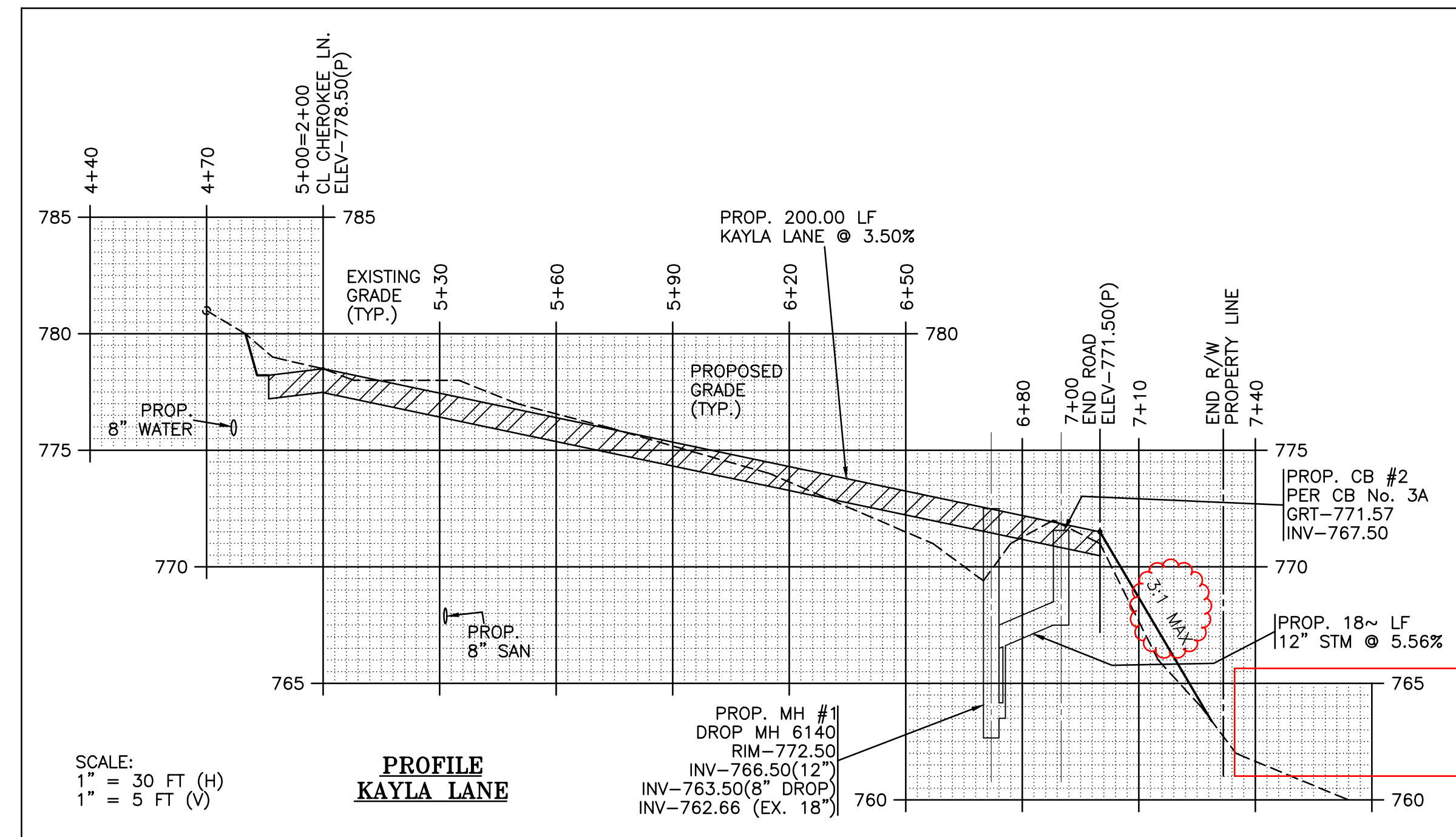
TITLE SHEET, NOTES AND DETAILS

MessCo Engineering

2766 WASSON ROAD
CINCINNATI, OHIO 45209
513-731-2500

LIBERTY RUN SUBDIVISION
PROPOSED ROADWAY
EXTENSION
7400 CHEROKEE LANE
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO

DATE: 11/13/21
SCALE: AS SHOWN
DRAWN BY: STM
PAGE: RD-1
JOB #: 0521



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

BENCHMARK NOTES

BASIS OF VERTICAL ELEVATION IS
BUTLER COUNTY CONTROL
MONUMENT #99FC66A

△ SITE BENCH MARK
TOP IRON PIN - 778.14

STANLEY T. MESSERLY

11/13/21

[illegible]

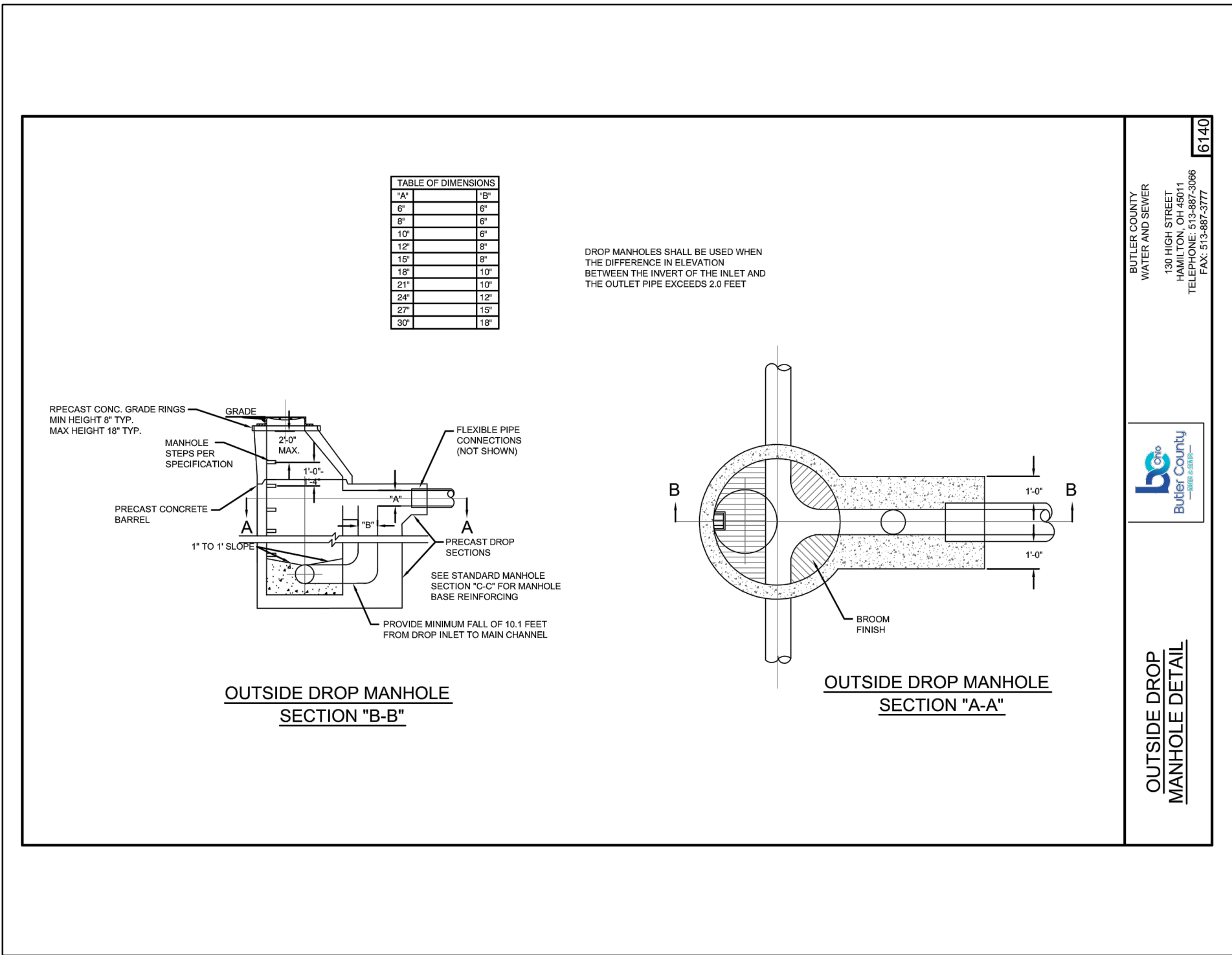
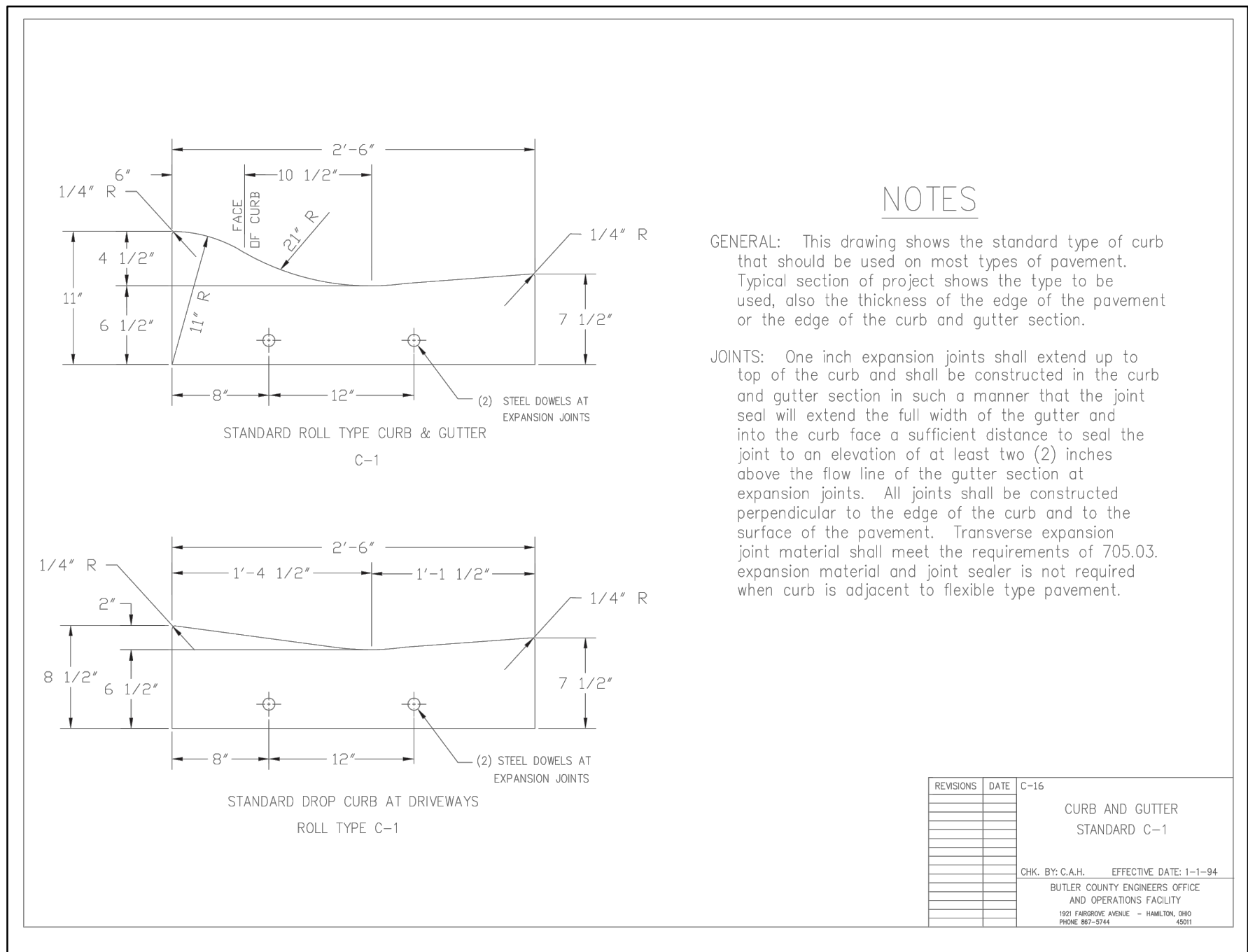
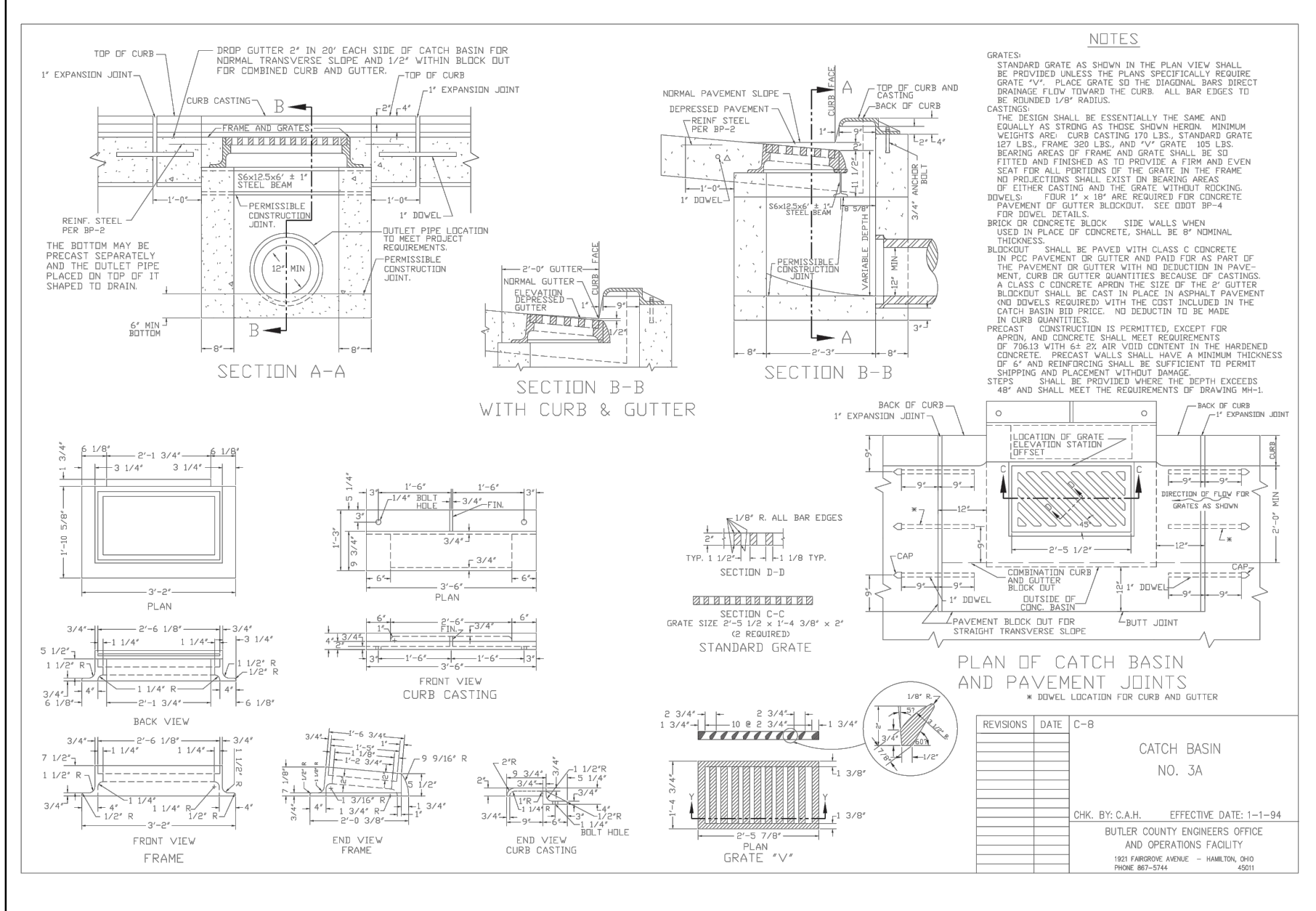
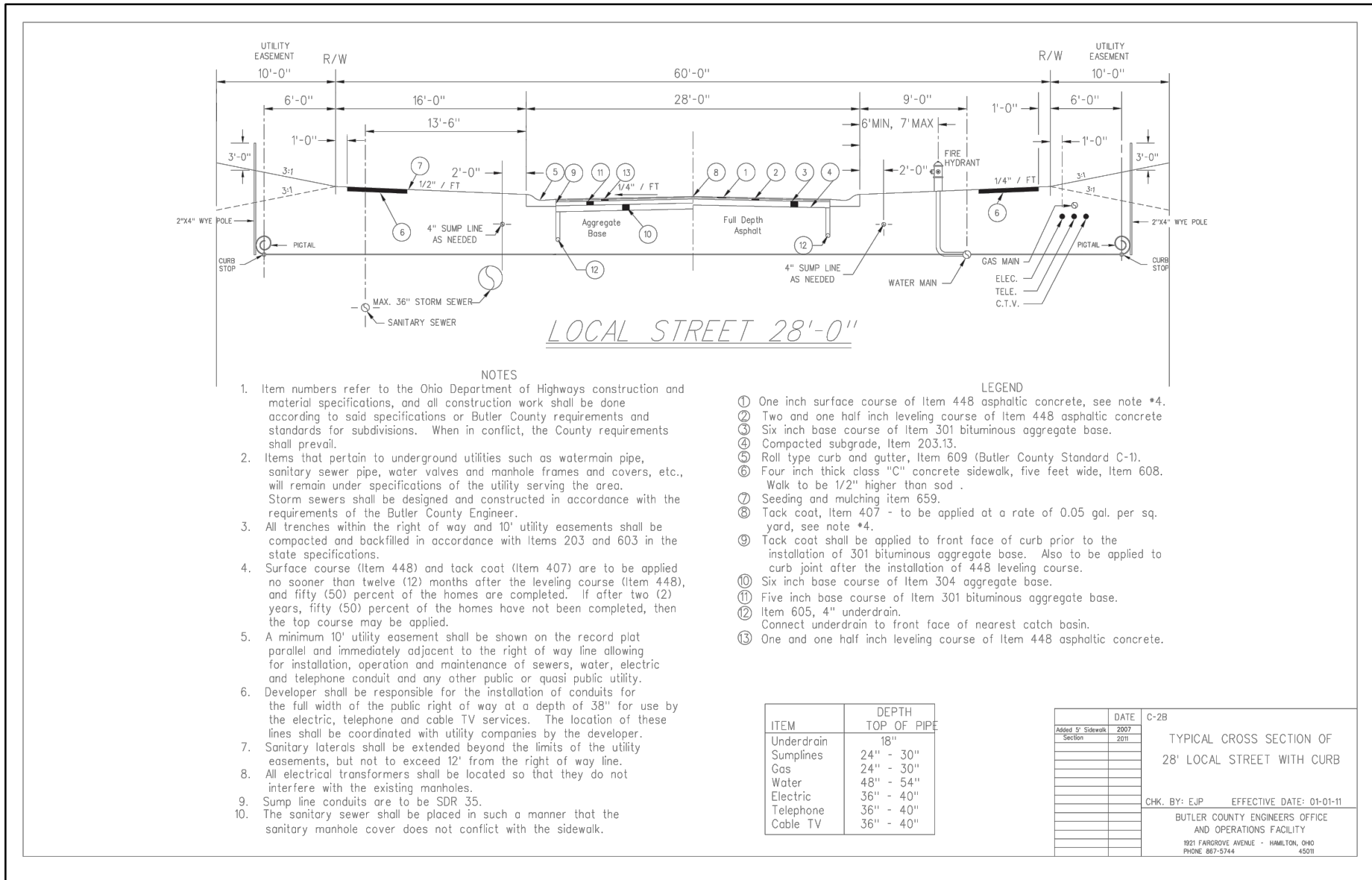
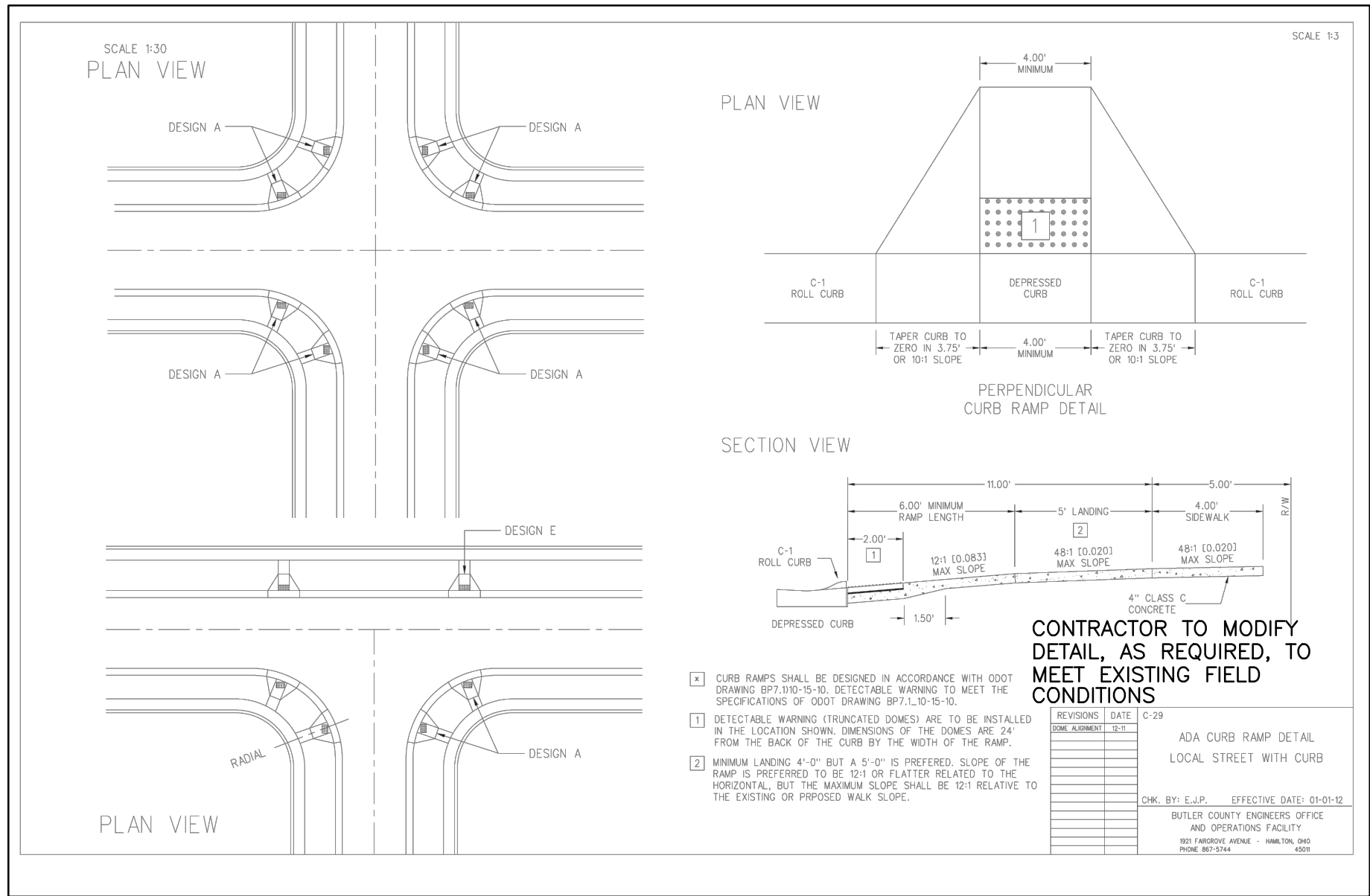
MessCo Engineering

2766 WASSON ROAD
CINCINNATI, OHIO 45209
513-731-2500

LIBERTY RUN SUBDIVISION	D
PROPOSED ROADWAY	S

7400 CHEROKEE LANE
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO

DATE:	11/13/21
SCALE:	AS SHOWN
DRAWN BY:	STM
IMAGE:	RD-3
DOB #:	0521



SUB-GRADE PREPARATION NOTES

The following notes are in addition to the ODOT Item 203 specifications and Butler County specifications.

All vegetation, topsoil, excessive organic matter, and weak fill or debris shall be removed from the project area prior to placing any natural structural fill on the site. At all areas under structural fill (i.e. below concrete, pavements, tennis courts and buildings) remove existing asphalt concrete pavement and granular base and remove existing fill material completely to expose natural soil subgrade. All area under structural fill shall be proof rolled with suitable heavy equipment, such as a fully loaded dump truck. Any unstable areas so detected shall be stabilized per recommendations of the geotechnical engineer. Stabilization measures such as drying and recompact, undercutting and replacement, geosynthetic reinforcement, or the addition of lime or other modifiers to the soil are typical measures that may be considered.

If any old foundations are encountered during the site preparation, they shall be removed to at least 1 foot below the proposed pavement subgrade level. If any debris or loosely filled basements are encountered, a geotechnical engineer shall be notified so that we may review the conditions and provide specific recommendations based on those conditions.

The upper 8"-10" sub grade in cut areas shall be disced and compacted to at least 98 percent maximum dry density as determined by the Standard Proctor test (ASTM D698). The moisture content of the sub grade shall be modified as needed to allow for adequate compaction and a stable working surface.

The site's soils should be able to be excavated with conventional earth excavating equipment and methods. Any temporary excavations required for storm sewer construction or other such excavations shall be laid back or braced in accordance with current OSHA requirements.

Recommended lift thickness of 8" when using heavy-duty self-propelled compaction equipment and 6" when hand compaction equipment is used.

Non-organic, naturally occurring soils may be used for structural fill. The fill shall be placed in horizontal lifts of uniform thickness that do not exceed that which can be adequately compacted throughout with the available equipment. The greatest dimension of any individual piece within the fill shall not exceed two-thirds of the lift thickness. No frozen material shall be present in or below the fill being placed. Structural fills shall be compacted to at least 98% of the maximum dry density as determined by the Standard Proctor test. The moisture content of the fill shall be modified as needed to allow for adequate compaction and a stable fill.

The subgrade and finished pavement surface shall be graded to promote proper subbase and surface drainage, avoiding the collection of water beneath the pavement. Proper site drainage shall also be maintained during construction.

The Contractor shall provide the geotechnical engineering testing and inspections as required by the project drawings and specifications and Butler County.

- ### GENERAL STORM NOTES
- U.N.O. ALL STORM PIPES SIX (6) INCHES IN DIA. AND LARGER SHALL BE ADS, N-12 (WATER TIGHT) HDPE OR PVC SDR 35 MATERIALS.
U.N.O. ALL STORM PIPES LESS THAN SIX (6) INCHES AND LESS IN DIAMETER SHALL BE PVC SDR 35 MATERIAL.
 - IN ADDITION TO THE "TYPICAL TRENCH DETAIL"
ALL PIPES TO BE INSTALLED PER ODOT ITEM 603.
ALL PIPE BEDDING TO BE CLASS B PER ODOT ITEM 603.06, TYPE 1.
ALL PIPE BACKFILL IT TO BE PER ODOT ITEM 603.10.
 - ALL ROCK CHANNEL PROTECTION TO BE PER O.D.O.T. 601.09
GEOTEXTILE FABRIC SHALL BE PLACED UNDER ALL R.C.P.

DATE	REVISION

MessCo Engineering

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513-731-2500

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EXTENSION**

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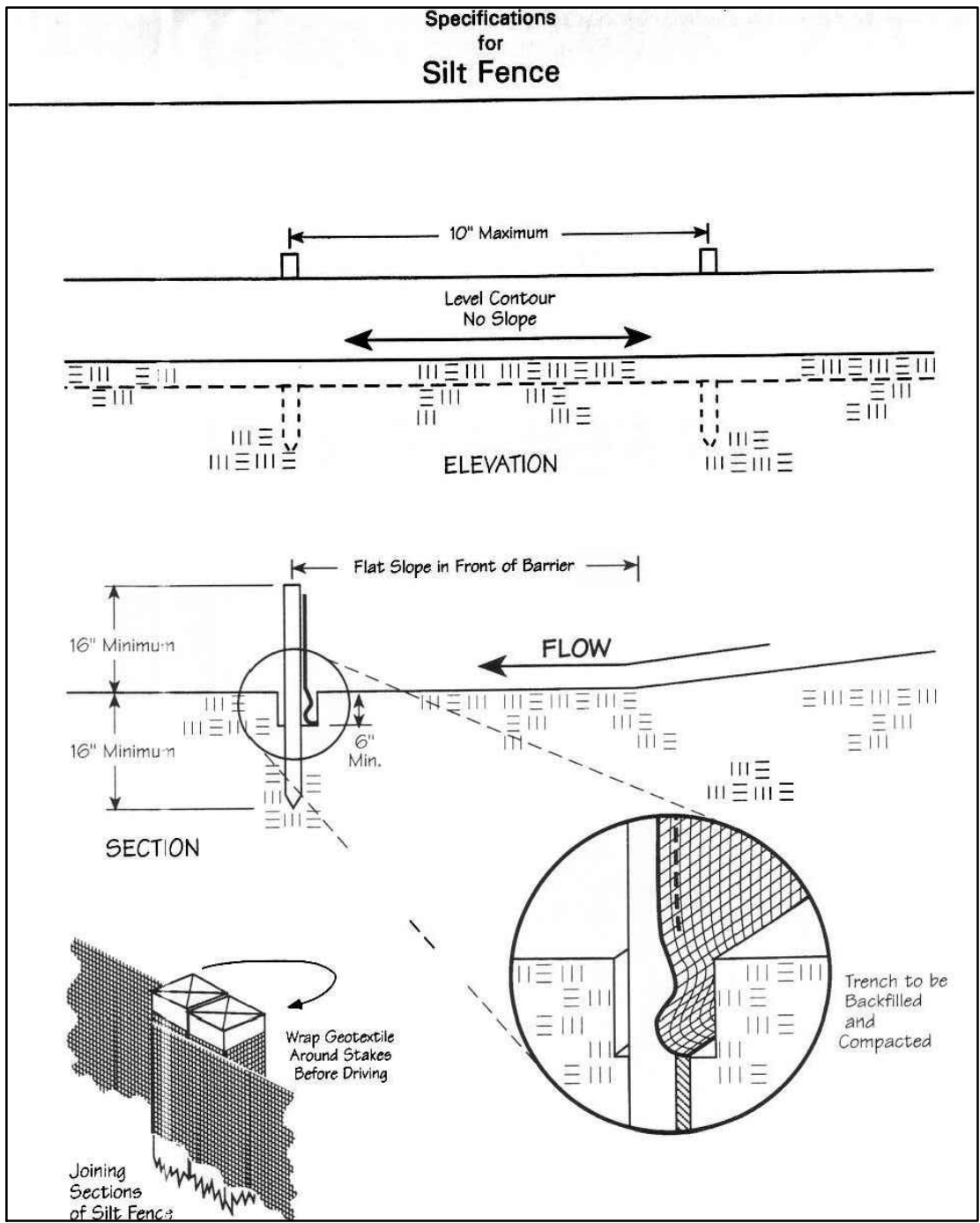
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JOB #: 0521



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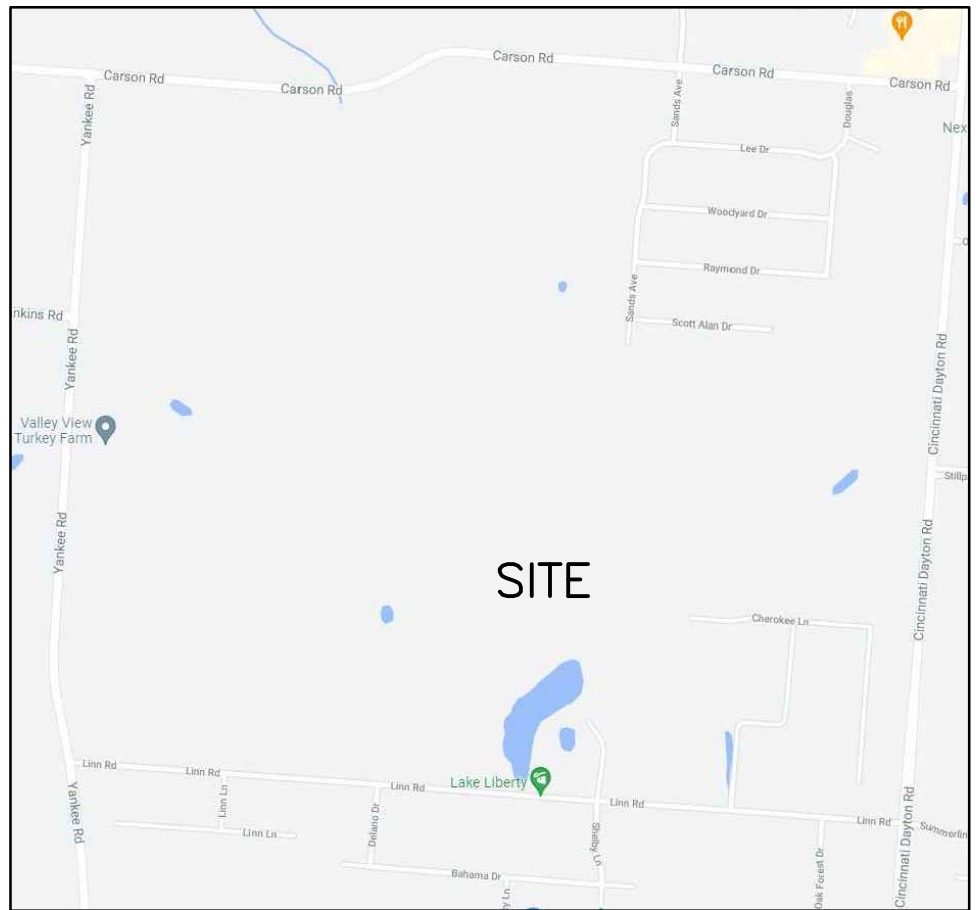
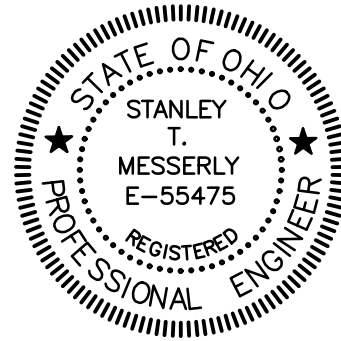
APPROVED: CHIEF ENGINEER, BCWS Dept.

DATE: _____

Stan Messerly

11/13/21

STANLEY T. MESSERLY



VICINITY MAP

NOT TO SCALE

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SAN-2	LANDSDALE SURVEYING, INC. SURVEY FOR HANDERMANN PROPERTY DATED 8/27/21
SAN-3	PLAN AND PROFILE
SAN-4	NOTES AND DETAILS

OWNER/DEVELOPER

PAUL & AMY HANDERMANN
1383 GOLF CLUB DRIVE
LEBANON, OHIO 45036
515-309-3091

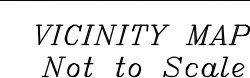
TITLE SHEET, NOTES
AND DETAILS

MessCo Engineering

2766 WASSON ROAD
CINCINNATI, OHIO 45209
513-731-2500

LIBERTY RUN SUBDIVISION
PROPOSED SANITARY MAIN
EXTENSION
7400 CHEROKEE LANE
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO

DATE: 11/13/21
SCALE: AS SHOWN
DRAWN BY: STM
PAGE: SAN-1
JOB #: 0521



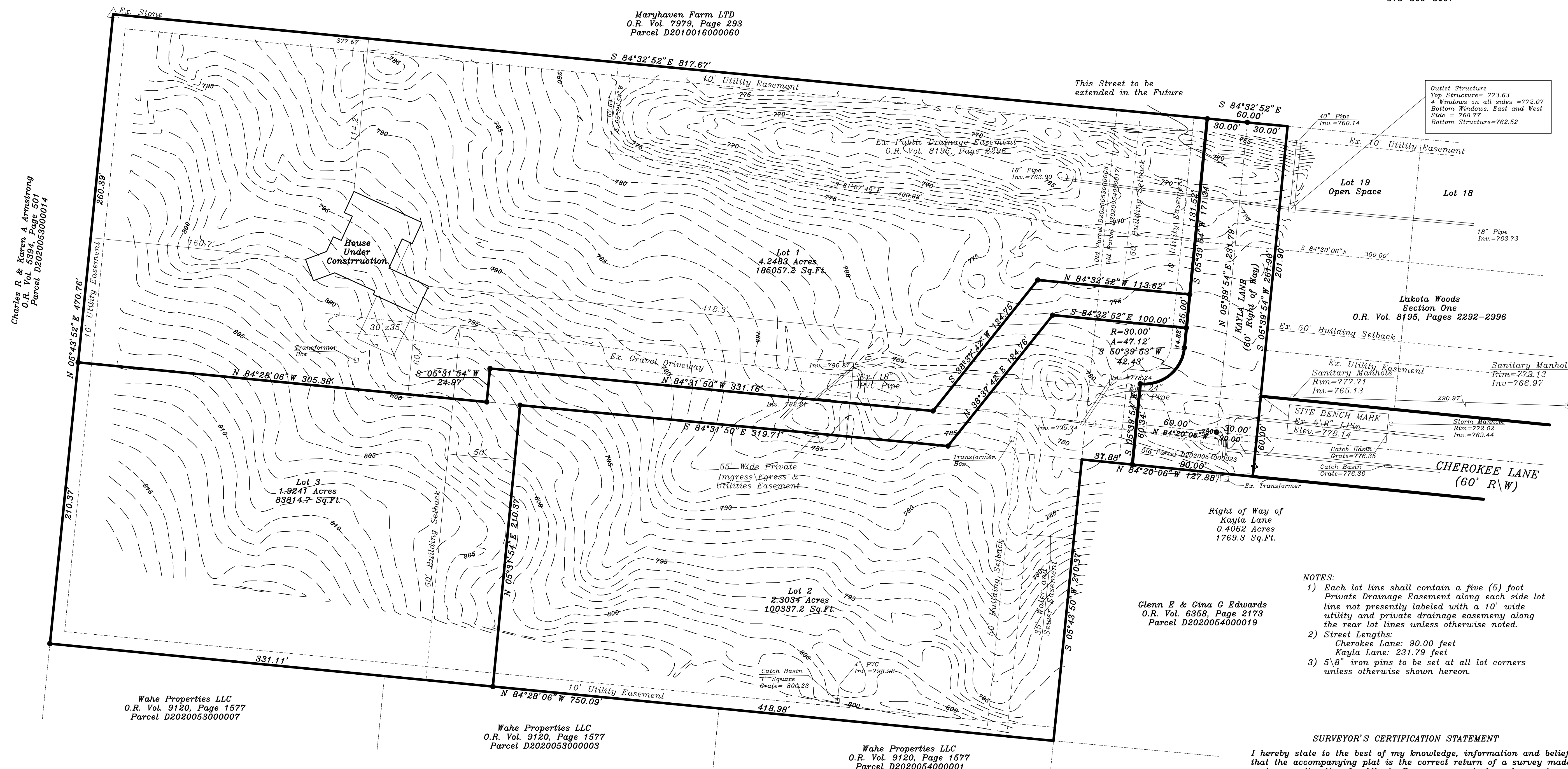
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LIBERTY RUN SUBDIVISION
RE-PLAT
OF PART OF LOT 10
MONROVIA ON THE DIXIE
PLAT BOOK 8, PAGE 4

SECTION 16, TOWN 3, RANGE 3
LIBERTY TOWNSHIP
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PROPERTY OWNERS INFORMATION
Paul Joseph & Amy Sue Handermann
O.R. Vol. 9380, Page 877
8.8821 Acres
386902.7 sq.ft.
Parcel D2020053000008
Parcel D2020054000017
Parcel D2020054000023

PROPERTY OWNERS
Paul Joseph & Amy Sue Handermann
1383 Golf Club Drive
Lebanon, Oh 45036
513-309-3091



NOTE: The professional surveyor or Lansdale Surveying, Inc. has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, or any other facts that an accurate and current title search may disclose. No abstract of title, nor title commitment, or results of a title search were furnished to the surveyor or Lansdale Surveying, Inc.

AREA BREAKDOWN
Parcel D2020-053-000-008
O.R. Vol. 9380, Page 875
8.115 Acres (Deed)
8.1152 Acres (Survey)
8.1152 Acres (Remainder)

AREA BREAKDOWN
Parcel D2020-054-000-023
O.R. Vol. 9380, Page 875
0.075 Acres (Deed)
0.0743 Acres (Survey)
-0.0524 (Right of Way)
0.0214 Acres (Remainder)

AREA BREAKDOWN
Parcel D2020-054-000-017
O.R. Vol. 9380, Page 875
0.694 Acres (Deed)
0.6930 Acres (Survey)
-0.3542 (Right of Way)
0.3388 Acres (Remainder)

LEGEND
● Set 5\8" Iron Pin

NOTES:

- 1) Each lot line shall contain a five (5) foot Private Drainage Easement along each side lot line not presently labeled with a 10' wide utility and private drainage easement along the rear lot lines unless otherwise noted.
- 2) Street Lengths:
Cherokee Lane: 90.00 feet
Kayla Lane: 231.79 feet
- 3) 5/8" iron pins to be set at all lot corners unless otherwise shown hereon.

SURVEYOR'S CERTIFICATION STATEMENT

I hereby state to the best of my knowledge, information and belief that the accompanying plat is the correct return of a survey made under my direction for Liberty Run, monuments have been set and their location and size are correct as shown on the plat and that The Butler County Subdivision Regulations have been complied with to the best of my knowledge.

Jay S. Olberding P.S.
Ohio Registered Surveyor #S-7188

[illegible]

Survey for
Handerman Property
7400 Cherokee

LIBERTY RUN
SUBDIVISION



LANSDALE SURVEYING, INC.
 1008 MAIN STREET - (ST.RT.28)
 MILFORD OHIO, 45150 PHONE (513) 631-9870

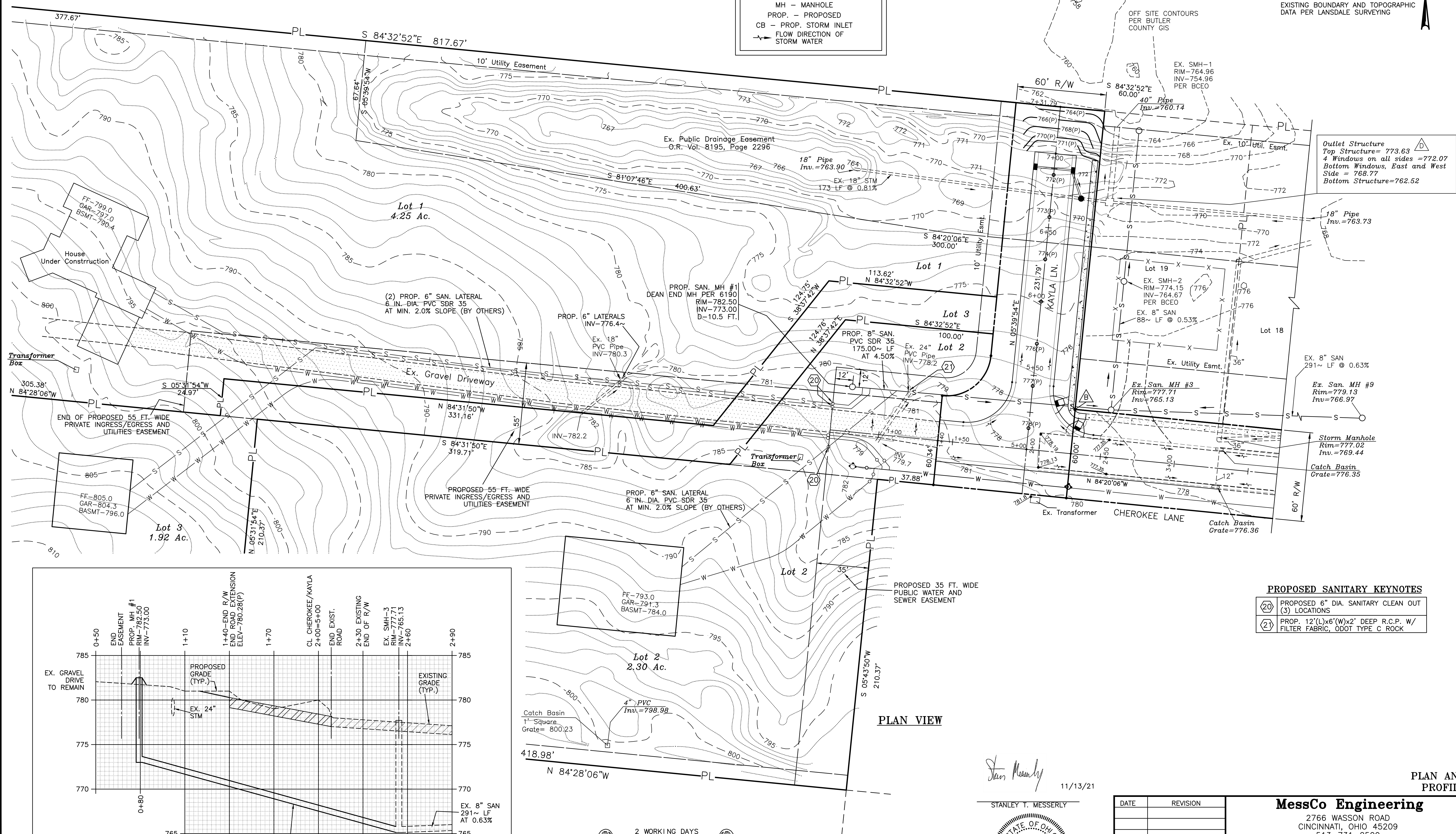
DRAWING NUMBER	DATE: 8/27/2021	DRAWN BY: mrr
21 - 046		

LEGEND

PL - PROPERTY/PARCEL LINE
800(P) - PROPOSED ELEVATION
X 629.41 - EXISTING SPOT ELEVATION
STM - STORM
MH - MANHOLE
PROP. - PROPOSED
CB - PROP. STORM INLET
→ FLOW DIRECTION OF STORM WATER

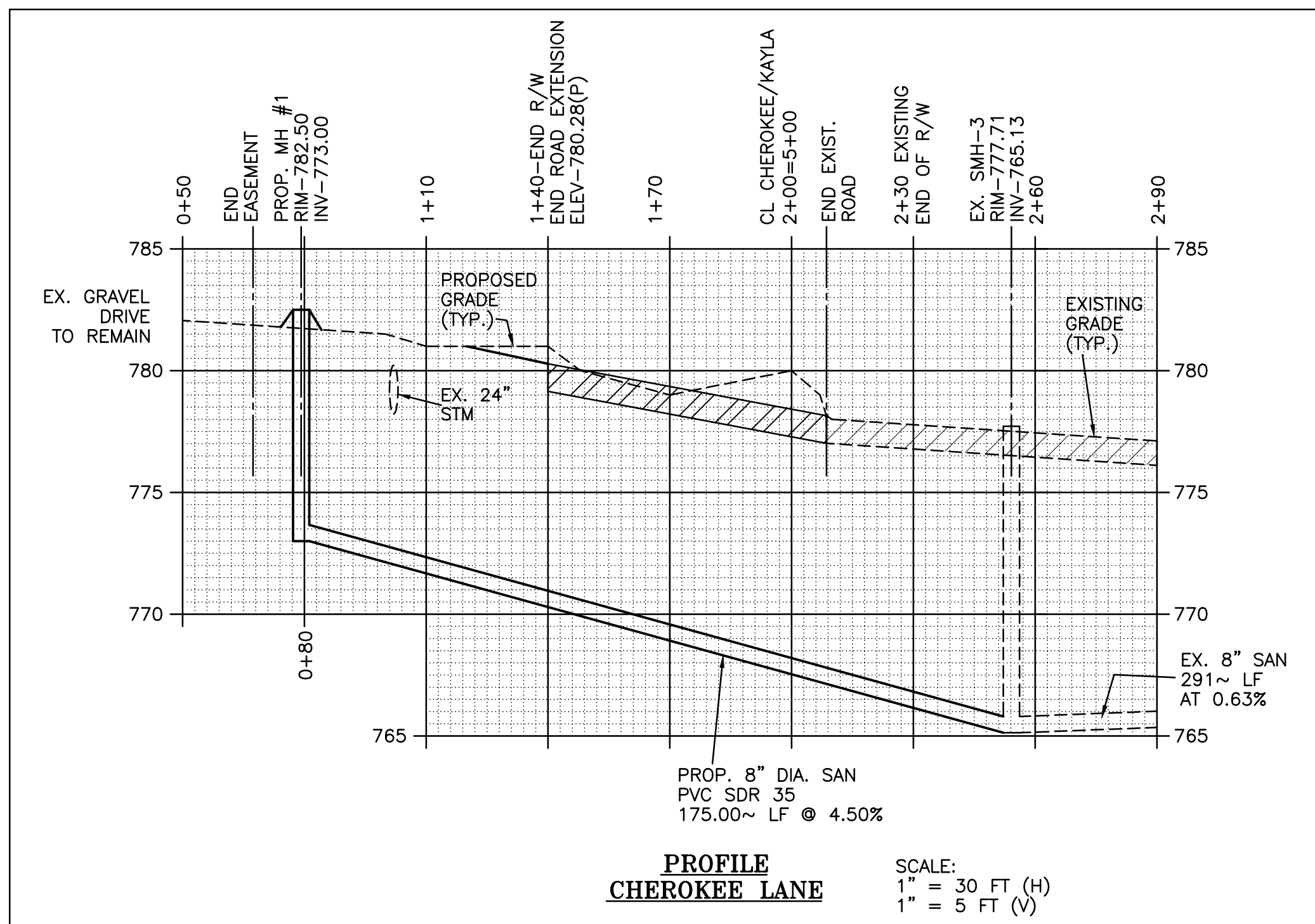
0 15 30 60
Graphic Scale
1" = 30'

EXISTING BOUNDARY AND TOPOGRAPHIC DATA PER LANSDALE SURVEYING



PROPOSED SANITARY KEYNOTES

(20) PROPOSED 6" DIA. SANITARY CLEAN OUT (3) LOCATIONS
(21) PROP. 12'(L)x6'(W)x2' DEEP R.C.P. W/ FILTER FABRIC, ODOT TYPE C ROCK



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

BENCHMARK NOTES

BASIS OF VERTICAL ELEVATION IS BUTLER COUNTY CONTROL MONUMENT #99FC66A
SITE BENCH MARK TOP IRON PIN - 778.14

11/13/21
STANLEY T. MESSERLY
STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
(0521)PLAN39 SAN 11-13-21

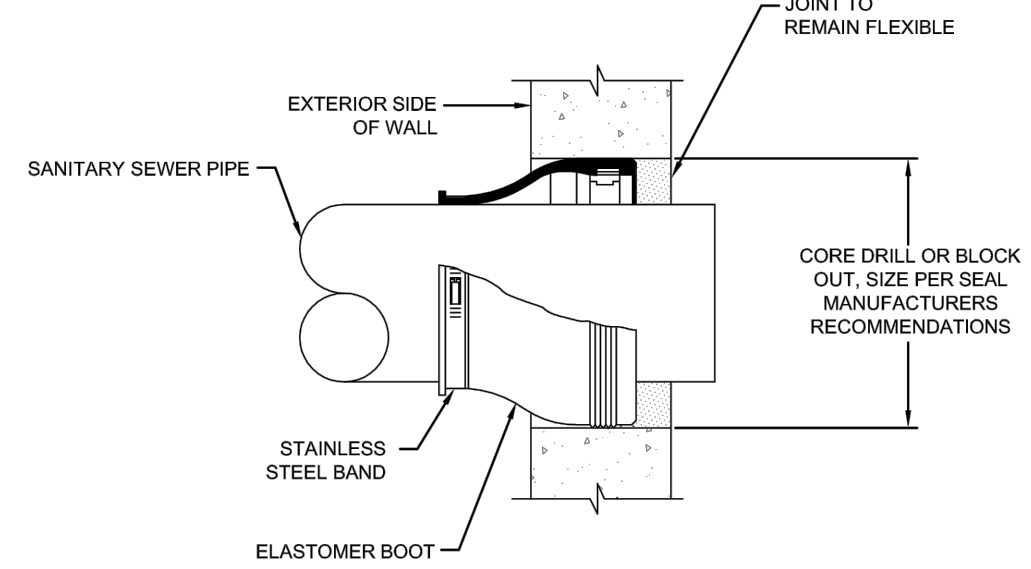
DATE	REVISION

MessCo Engineering
2766 WASSON ROAD
CINCINNATI, OHIO 45209
513-731-2500

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PROPOSED SANITARY MAIN
EXTENSION**
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BUTLER COUNTY, OHIO

DATE: 11/13/21
SCALE: AS SHOWN
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JOB #: 0521

TYPE-4



NOTES:
WALL PENETRATIONS SHALL BE LOCATED WITHIN
A RISER SECTION AND NOT A WALL JOINT

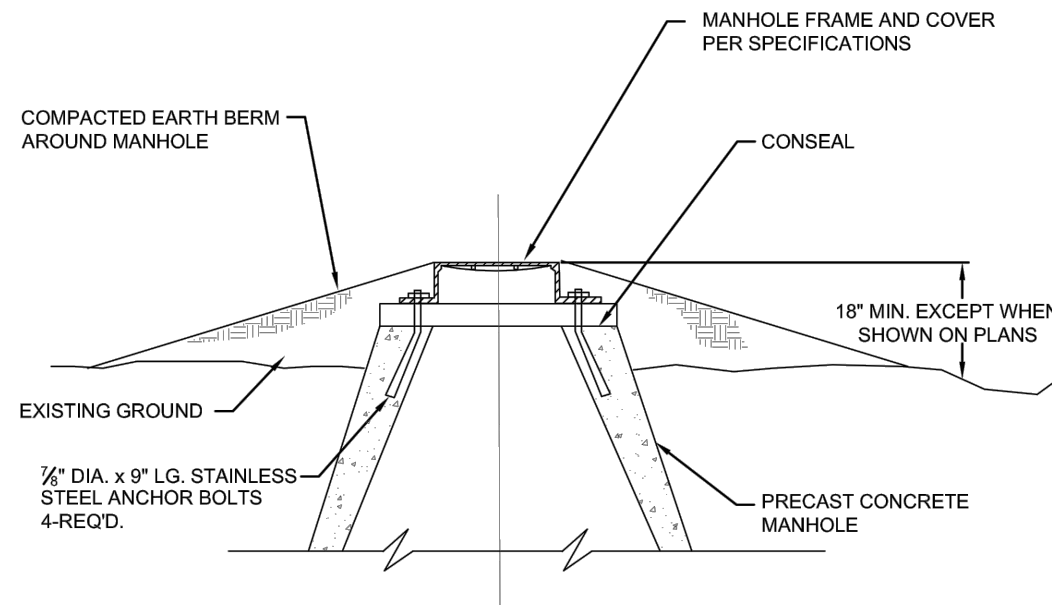
CONNECTION TO
EXISTING MANHOLE



BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6150

SECTION A - A

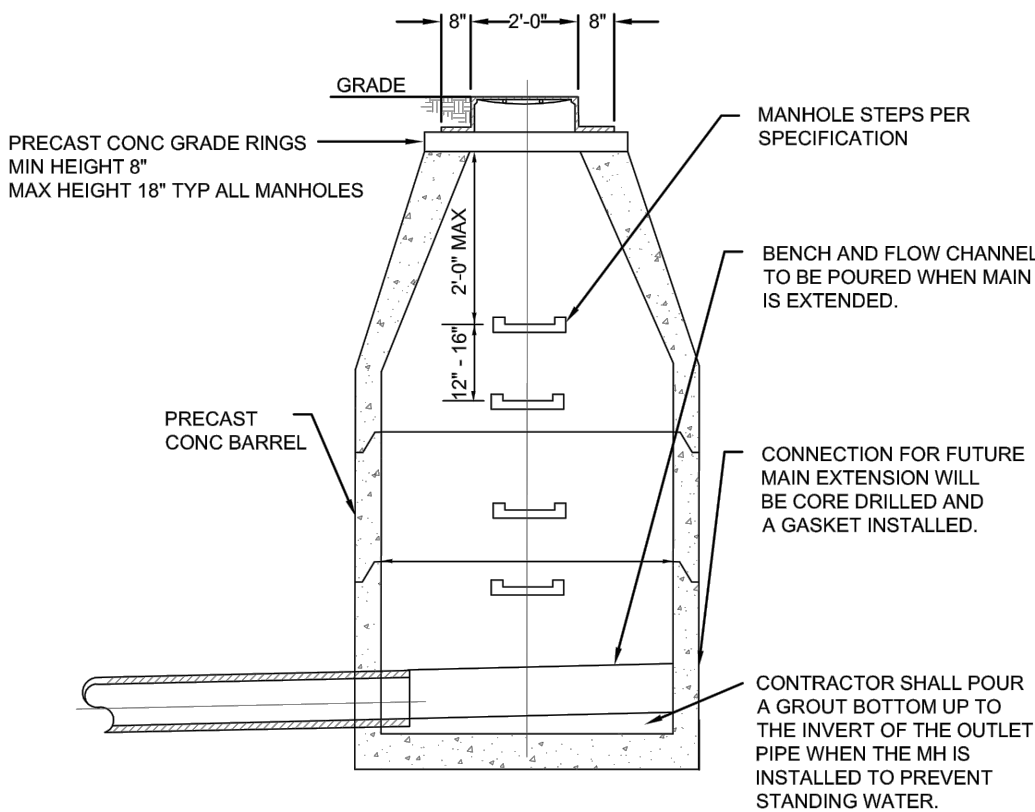


ELEVATED
MANHOLE DETAIL



BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6170

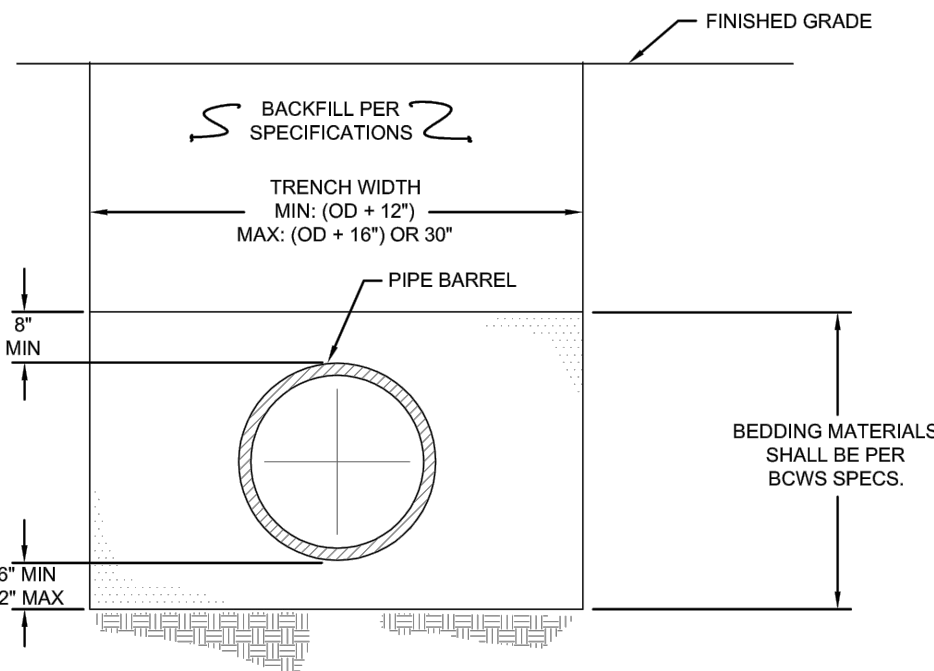


DEAD END
MANHOLE DETAIL



BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6190

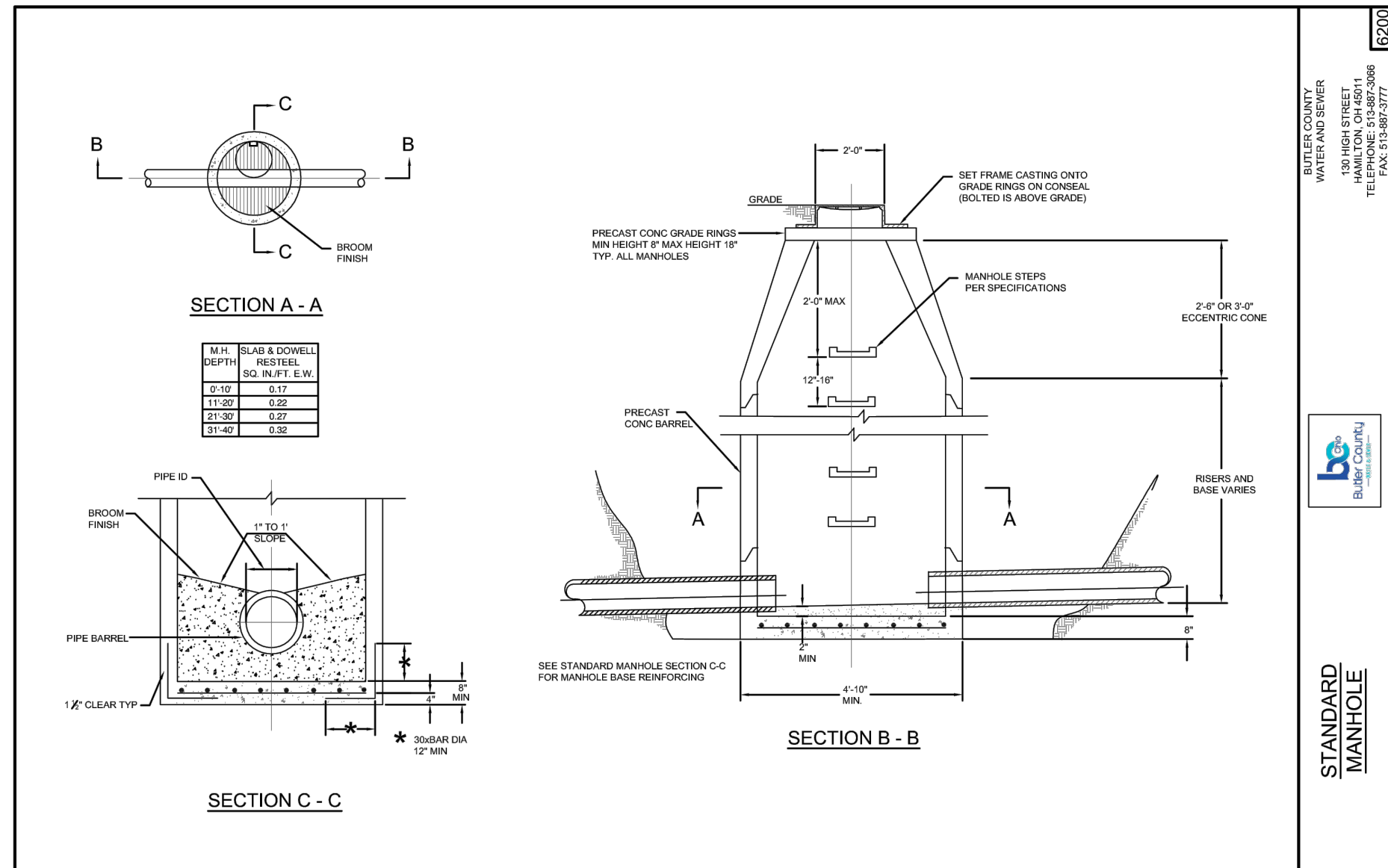


TYPICAL TRENCH
DETAIL
SEWER INSTALLATION



BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6270



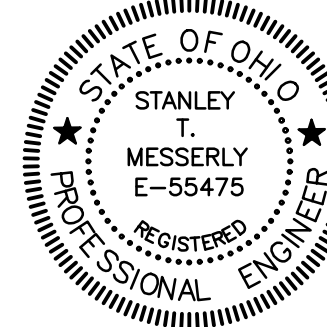
BUTLER COUNTY
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STANDARD
MANHOLE

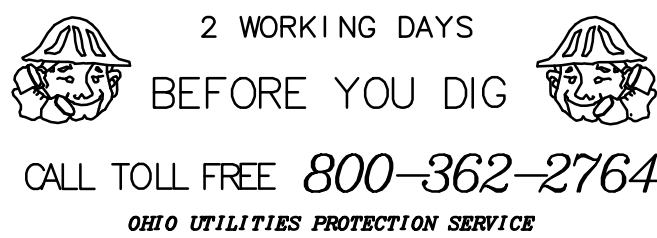
Stanley T. Messerly

11/13/21

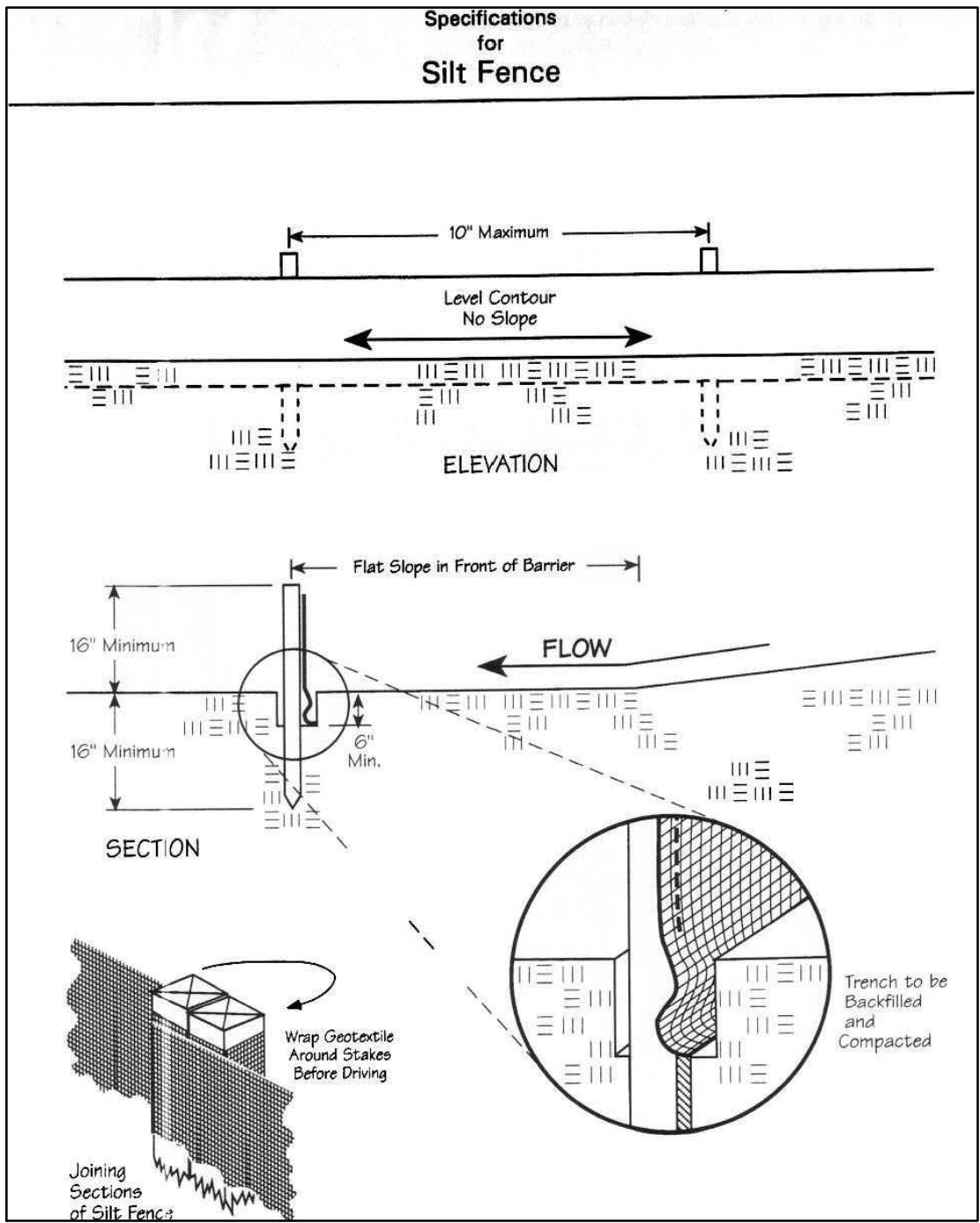
STANLEY T. MESSERLY



NOTES AND
DETAILS



DATE	REVISION	MessCo Engineering 2766 WASSON ROAD CINCINNATI, OHIO 45209 513-731-2500	
		LIBERTY RUN SUBDIVISION PROPOSED SANITARY MAIN EXTENSION 7400 CHEROKEE LANE LIBERTY TOWNSHIP BUTLER COUNTY, OHIO	
		DATE: 11/13/21	
		SCALE: AS SHOWN	
		DRAWN BY: STM	
		PAGE: SAN-4	
		JOB #: 0521	

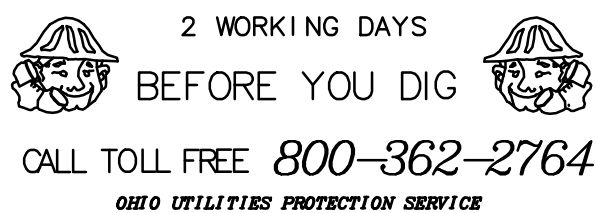


SILT FENCE SPECIFICATIONS

- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- Where possible, silt fence shall be placed on the flattest area available.
- Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence.
- The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
- The silt fence shall be placed in a trench cut a minimum of 6 in. deep. the trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6 in. deep trench. the trench shall be backfilled and compacted.
- Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
- Fence Posts: The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2 in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft..
- Fabric: The silt fence fabric shall be per ODOT Item 712.09, Type C Geotextile Fabric.

SEEDING AND MULCHING

- All seeding and mulching to be per ODOT Item 659, Seeding and Mulching.



BUTLER COUNTY WATER AND SEWER DEPARTMENT GENERAL NOTES GUIDELINE

- Sanitary laterals shall be extended to at least ten (10) feet beyond the property / right-of-way line or to the edge of the easement whichever is greater.
- Water main materials, valves, fire hydrants, fittings and appurtenances and installation shall be per Butler County specifications, using class 53 Ductile Iron as per AWWA C-151 with minimum 48over.
- Sanitary sewer materials and installation shall be per Butler County Water and Sewer specifications, using: Section 3110 for PVC, SDR-35 & 26 pipe; Section 3140 for ABS or PVC composite pipe; Section 3410 for manholes.
- Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited.
- All buildings to be served by the public sewer system shall be constructed so as to provide a minimum of four feet of vertical separation between the public sanitary sewer, at the point of connection and the lowest building level served by gravity sewer connection. In addition, said building level shall be at least one (1) foot above the lowest point of free-overflow (non-sealed manhole cover) upstream of any treatment facility or wastewater pumping facility that receives the discharge from said building. Said minimum service levels shall be recorded on the Record Drawing?plans for the development, which will be kept on file in the office of the Butler County Water & Sewer Department.
- Butler County Water & Sewer Department does not accept any responsibility for the relocation, repair or replacement of any other utility installed within five (5) feet of the center line of any sanitary sewer main or water main.
- All water main valves shall have a minimum depth of 2.5' and a maximum depth of 4.0'. from the proposed grade to the top of the Valve Operating Nut.
- Private driveways, parking lots and other paved areas, earthen berms or structures should not be constructed over private water or sewer service lines within the public road right of way or within the easement areas for the public utilities. Should this occur, the property owner shall be held responsible for the protection and repair and for providing access to any curb stops, meter pits, manholes, clean-outs, etc. installed in conjunction with these private service lines and for any damage or restoration of the paved surfaces or structures that may result from the future operation, maintenance, repair or replacement of said service lines and appurtenances.
- Sanitary sewer laterals, which shall include all pipe and appurtenances from the building to the public sewer main, and the connection to the public sewer main shall be considered private and the responsibility of the property owner to maintain. The connection to the sewer main would be any piping that extends out from the main barrel to the sewer main.

WATER, SANITARY AND STORM SEWER SYSTEM NOTES

- All materials, installation, specifications and inspections to be per Butler County Water and Sewer Department current regulations.
- All sanitary main to be PVC SDR 35, per ASTM D3034. Pipe joints per ASTM 3212. Maximum deflection to be 1/16th inch/LF in accordance with ASTM D2122. All pipe shall be tested for deflection per Section 3820 and air tested for leakage per Section 3810.
- Existing sewers and water mains shall be maintained and left in a condition equal to or better than its existing conditions. Any change in the condition resulting from the contractor's operations shall be corrected by the contractor to the satisfaction of the owner.
- Manhole structures shall be 48 inch diameter unless noted otherwise.
- All sanitary sewer joints shall be water-tight, resilient and flexible compression joints per BCWS Dept. specifications.
- Provide bedding and backfill in accordance with the BCWS Dept. and BCE0 standard specifications.
- Contractor shall maintain a minimum of 18-inch vertical and 10-feet horizontal clearance from all water utilities, except as noted on the drawings or approved by BCWS Dept..
- Existing sewers and water mains shall be maintained and left in a condition equal to or better than its existing conditions. Any change in the condition resulting from the contractor's operations shall be corrected by the contractor to the satisfaction of the owner.
- All water main to be ductile iron push-on joint type. Pipe shall conform to AWWA C151 (ANSI A21.51). The interior of the pipe shall be cement-mortar lined with asphaltic seal coating in accordance with latest AWWA C104 (ANSI A21.4). Fittings shall be Class 350 in accordance with AWWA C153 (ANSI A21.53) or AWWA C110 (ANSI A21.10). Fittings shall have all bell ends (unless approved otherwise) with mechanical joints meeting AWWA C111 (ANSI A21.11). The joints shall be push-on type per AWWA C111 (ANSI A21.11). All water mains shall be tested per Section 2610. At a minimum, all water mains shall be tested in accordance with the Hydrostatic Testing Requirements of AWWA C600. All water mains shall be disinfected per Section 2620 and thoroughly disinfected in accordance with the requirements in AWWA C651-14 and to the satisfaction of BCWS Dept.
- The proposed sanitary and water laterals are shown for design purposed only, the exact location and size of water service to be determined by others.

Water Service Information:

Lot #	Curb Stop Location	Water Meter Location
1	6 ft. north of water main	1 ft. west of end 35' wide esmt.
2	4 ft. south of water main	2 ft. south of end 55' wide esmt.
3	6 ft. north of water main	1 ft. west of end 35' wide esmt.

- The contractor is to provide as built drawings of the roadway, storm sewer, sanitary sewer, water main and grading. As built data to be provided by Ohio P.S..

COORDINATION WITH UTILITIES

- CONTRACTOR shall be responsible for coordinating all work with utility companies.
- CALL BEFORE YOU DIG: Call Ohio Utilities Protection Service (OUPS), at 1-800-362-2764, at least 48 hours prior to excavation.

MAINT., PROTECTION AND RESTORATION OF ROAD

- The CONTRACTOR shall be fully and solely responsible for any and all damage to the existing roadway including pavement, shoulder, ditching and culverts etc., caused by his construction activity. Restoration of the damaged roadway facilities shall be to the satisfaction of roadway owner.
- All ditches/curbs shall be kept open and free flowing at all times.
- The closure of any roadway lane shall be approved by the owner of the roadway. All private drive closures shall be approved by the appropriate owner.

VERIFICATION OF QUANTITIES AND DIMENSIONS

- Quantities and dimensions shown on the drawings, (including these notes) or tabulated in the specifications, are estimates only and may have no other basis than scaling from drawings. Actual quantities will be confirmed in the field during construction.
- All construction layout stakes are to be provided under the supervision of an Ohio Professional Surveyor.
- At the owner's/County's discretion, the CONTRACTOR is responsible for providing the owner with one copy of all material delivery tickets and material test results.

DESIGN AND CONSTRUCTION STANDARDS

- All construction shall meet the current Butler County Water & Sewer Department, Butler County Engineer, Ohio EPA, Ohio Basic Building Code, and ODOT Specifications.
- All work involving public roadways shall be acceptable to the owner of the roadway.
- The Contractor is responsible to be familiar with, and retain a copy of, the current State of Ohio Department of Transportation, Construction and Material Specifications.
- CONTRACTOR is responsible for meeting all O.S.H.A. regulations.
- The Contract Documents do not detail construction safety requirements. The construction safety is the responsibility of the CONTRACTOR.

CONSTRUCTION SEQUENCE

- CLEARING AND GRUBBING OF THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
- INSTALL PROPOSED SANITARY SEWER PIPE SYSTEM.
- TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

TOTAL AREA DISTURBED = 0.55~ AC.

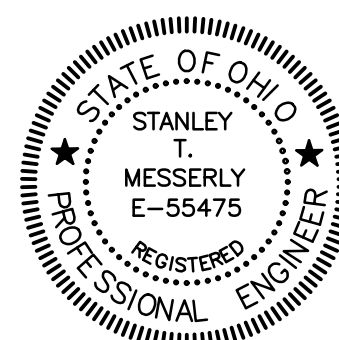
APPROVED: CHIEF ENGINEER, BCWS Dept.

DATE: _____

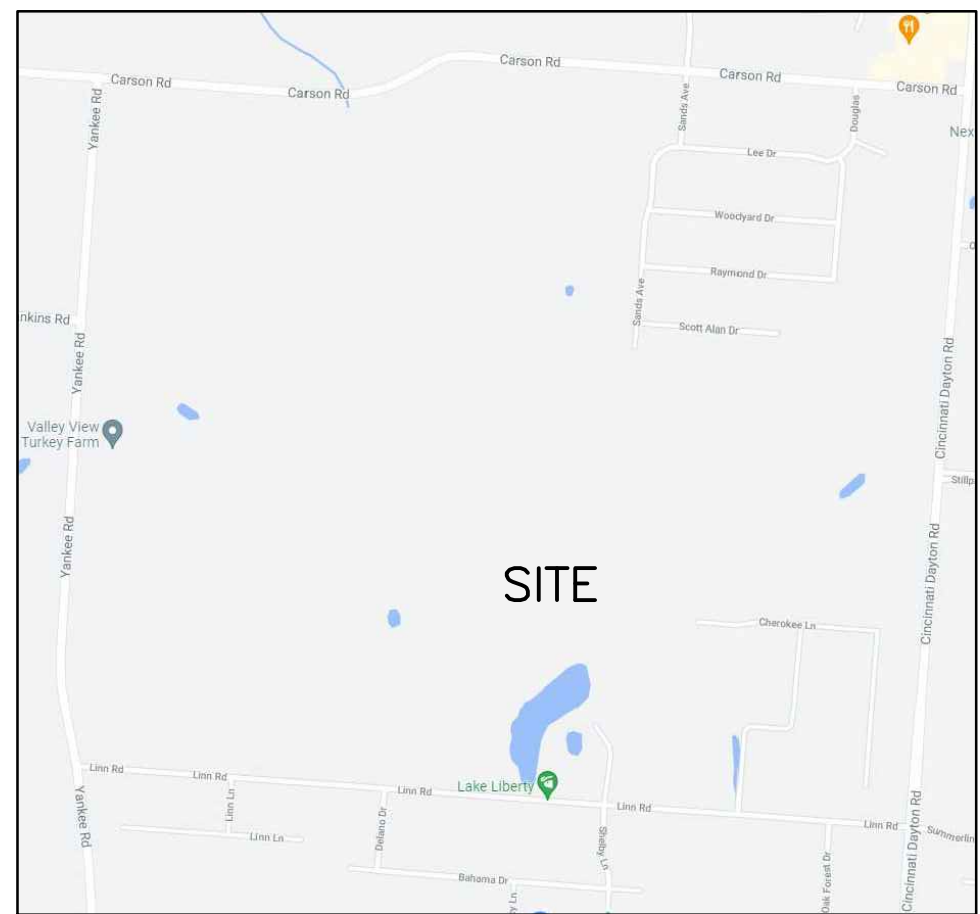
Stan Messerly

11/13/21

STANLEY T. MESSERLY



(0521 Page WTR-1 11-13-21)



VICINITY MAP

NOT TO SCALE

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LEBANON, OHIO 45036
515-309-3091

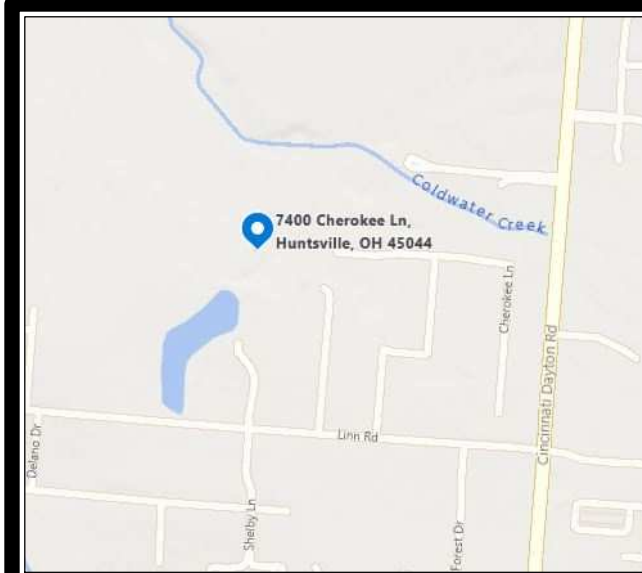
TITLE SHEET, NOTES AND DETAILS

MessCo Engineering

2766 WASSON ROAD
CINCINNATI, OHIO 45209
513-731-2500

LIBERTY RUN SUBDIVISION
PROPOSED WATER MAIN
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7400 CHEROKEE LANE
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO

DATE: 11/13/21
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VICINITY MAP
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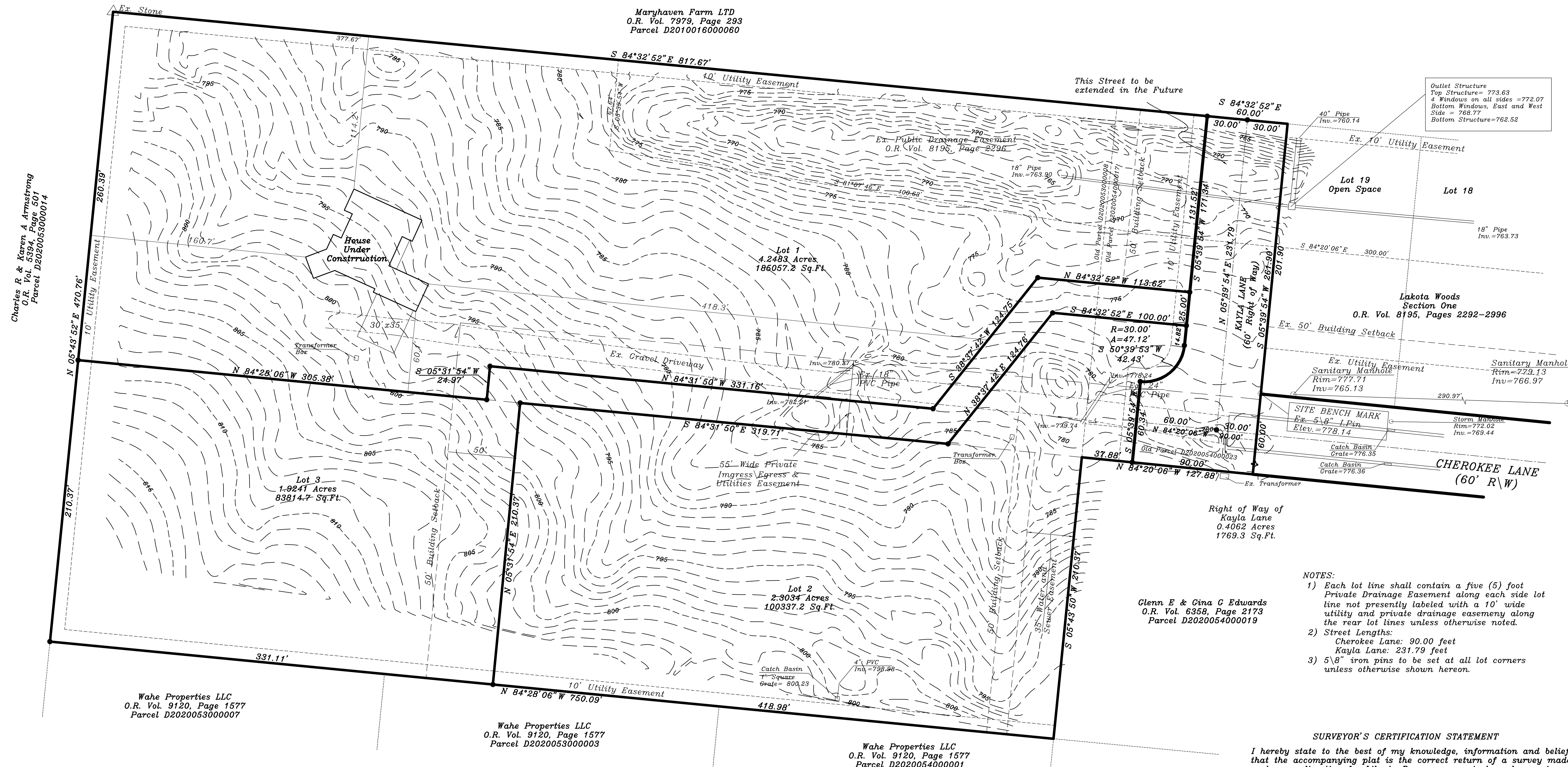
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RE-PLAT
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Paul Joseph & Amy Sue Handermann
1383 Golf Club Drive
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Jay S. Oiberding P.S.
Ohio Registered Surveyor #S-7188

NOTE: The professional surveyor or Lansdale Surveying, Inc. has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, or any other facts that an accurate and current title search may disclose. No abstract of title, nor title commitment, or results of a title search were furnished to the surveyor or Lansdale Surveying, Inc.

AREA BREAKDOWN
Parcel D2020-053-000-008
O.R. Vol. 9380, Page 875
8.115 Acres (Deed)
8.1152 Acres (Survey)
8.1152 Acres (Remainder)

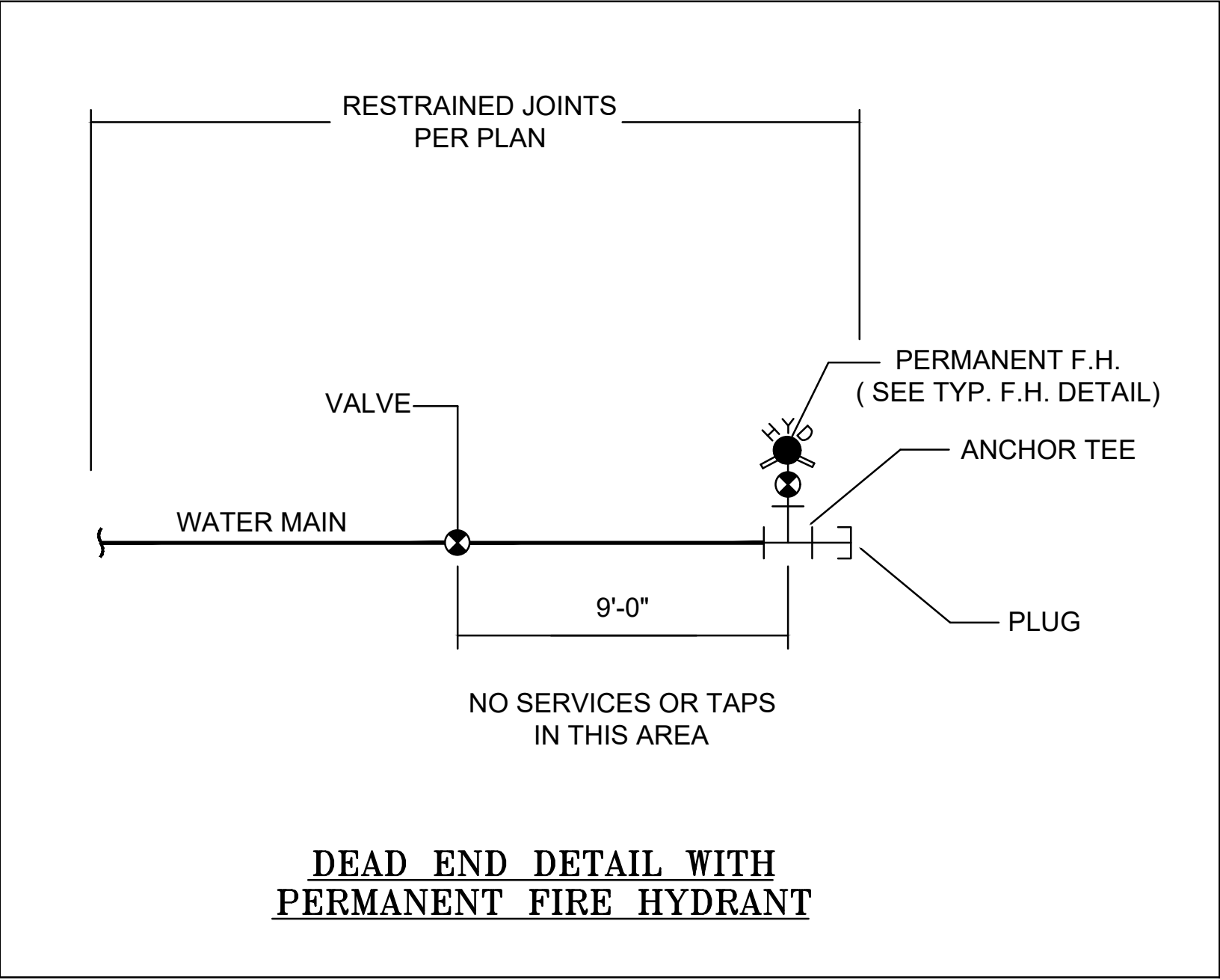
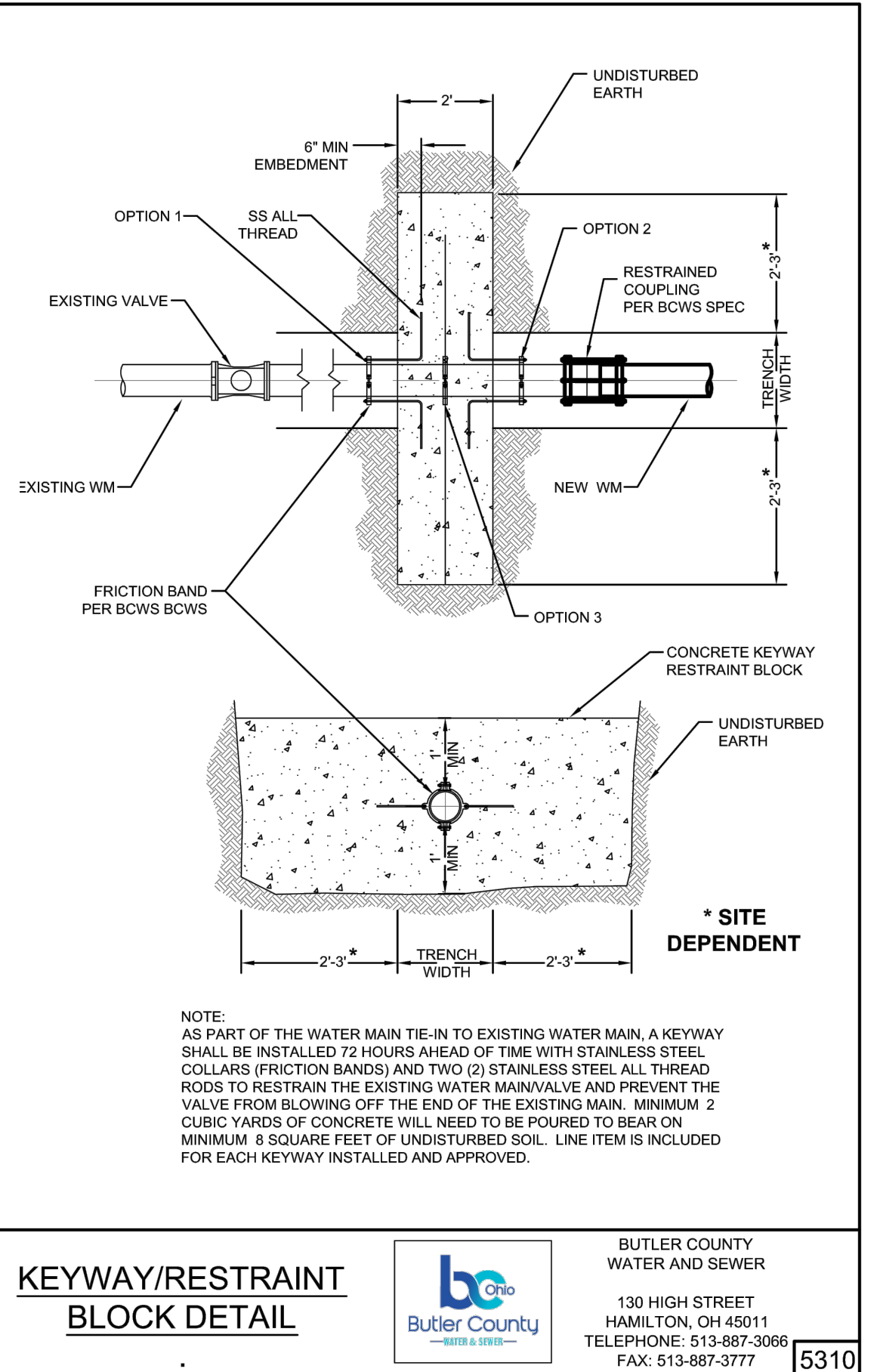
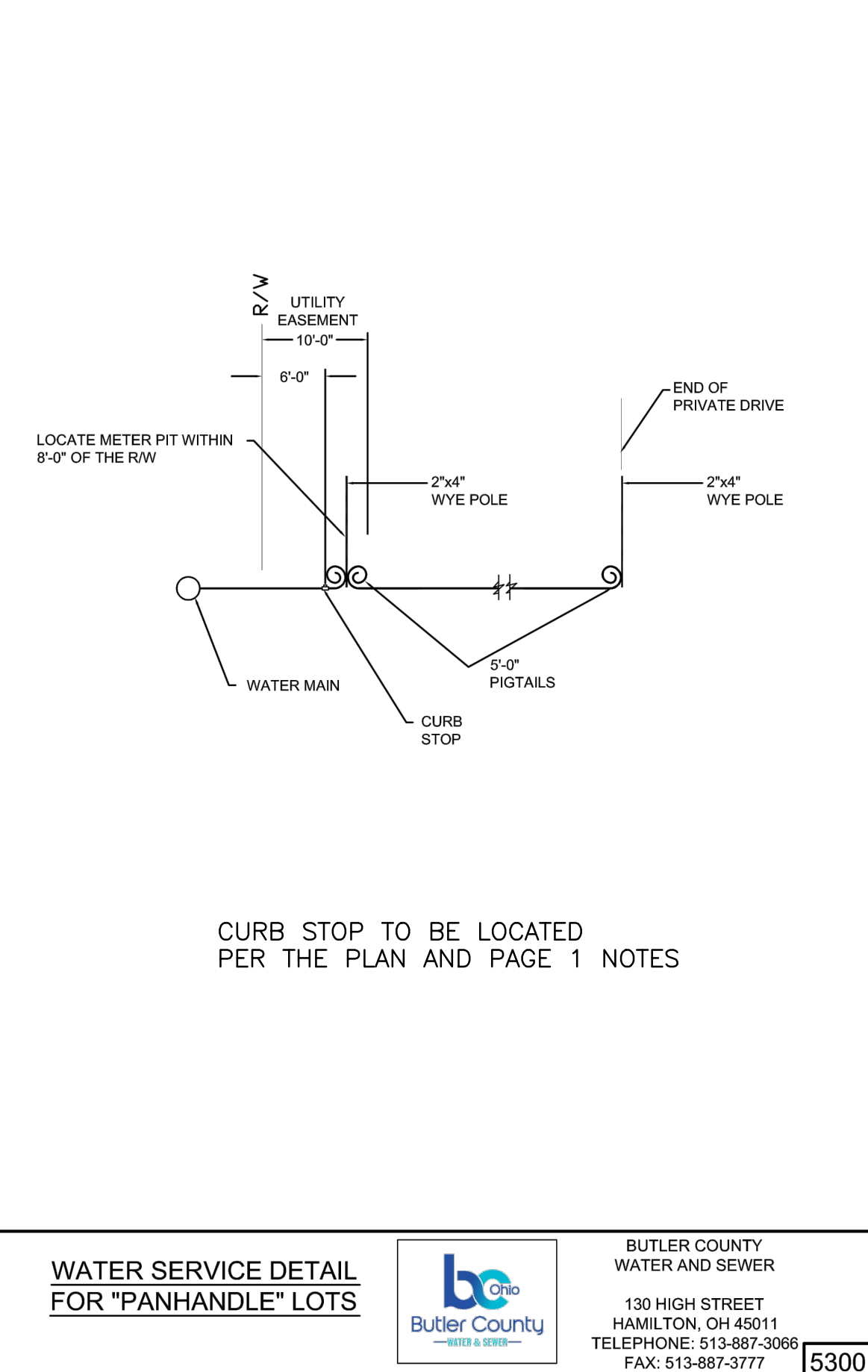
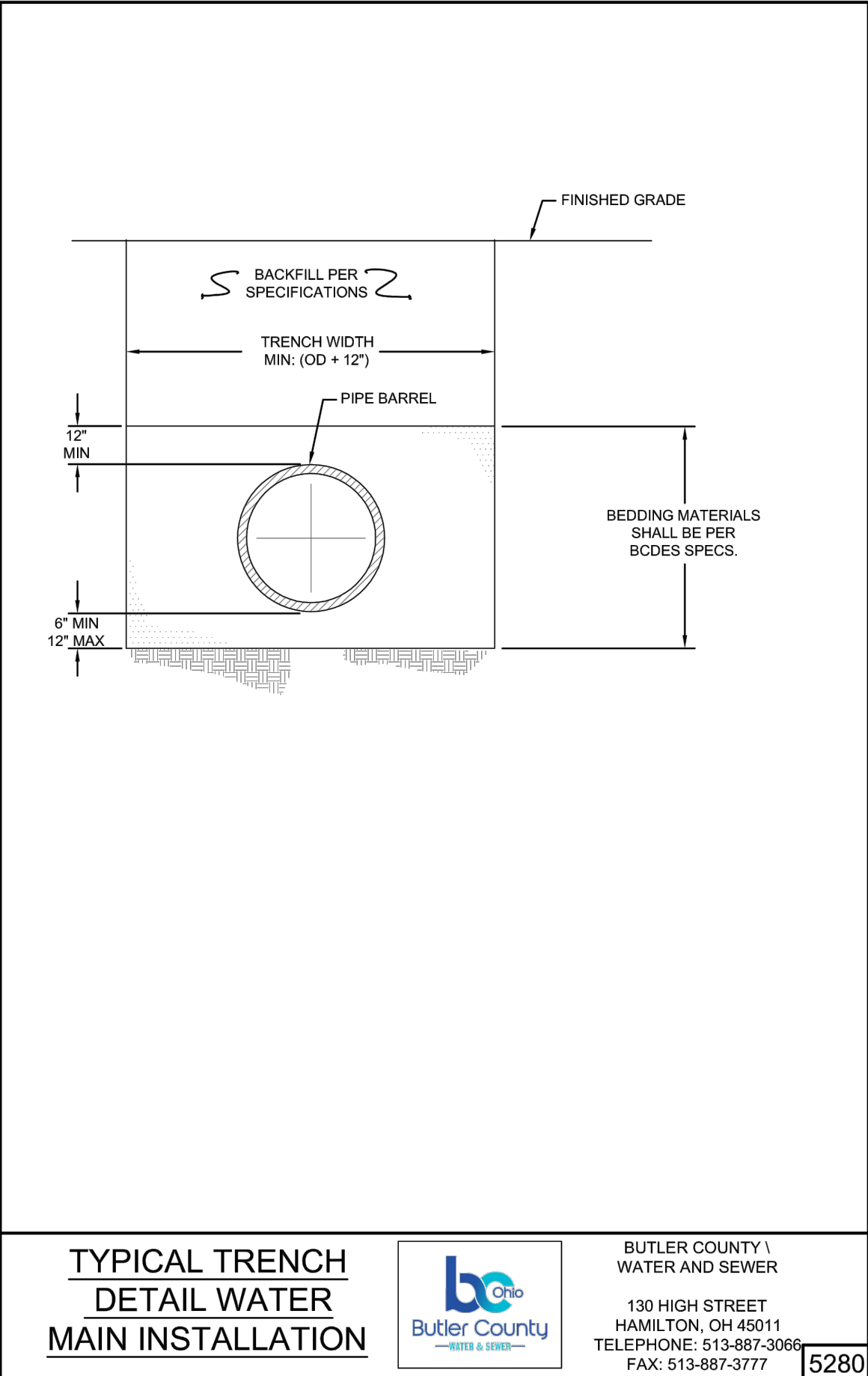
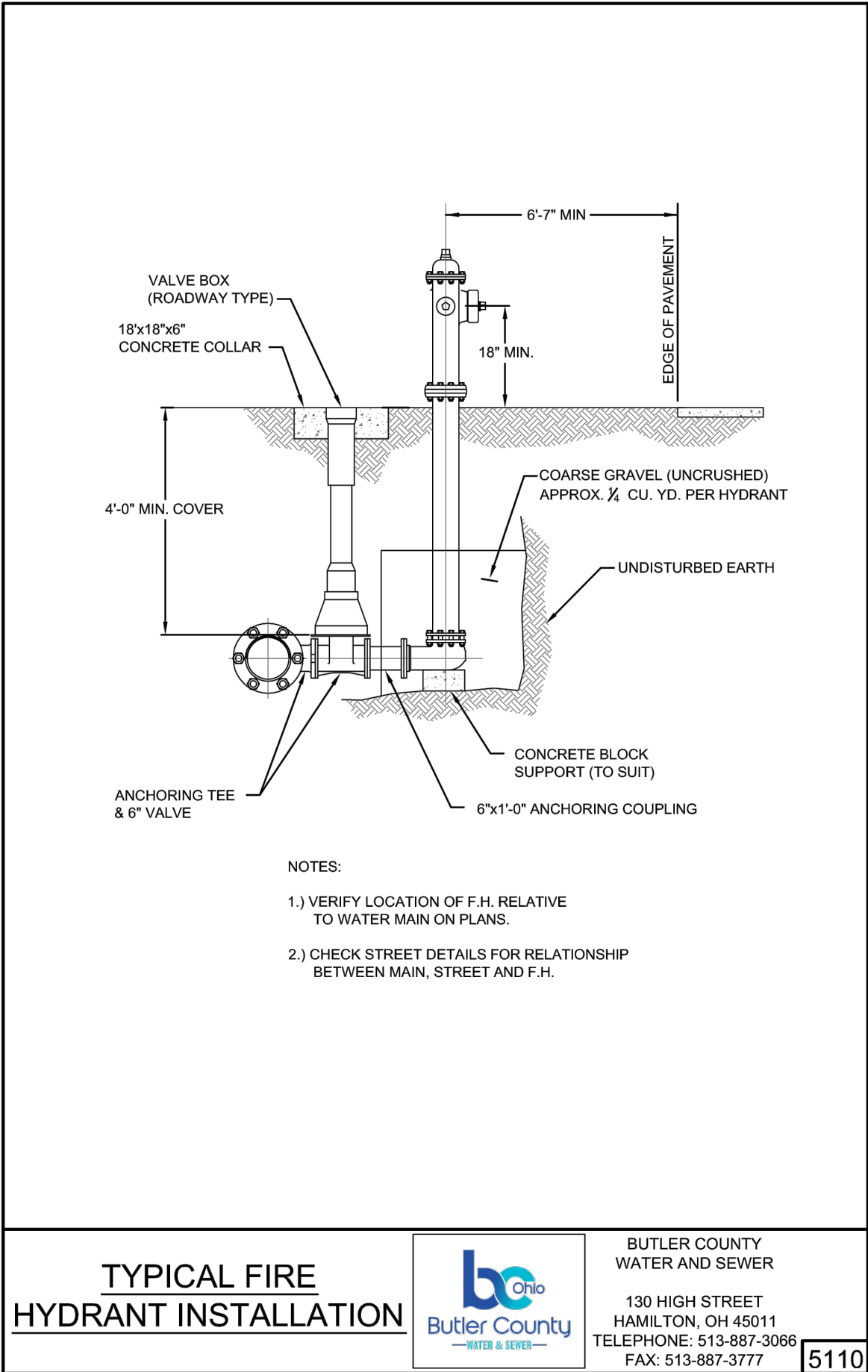
AREA BREAKDOWN
Parcel D2020-054-000-023
O.R. Vol. 9380, Page 875
0.075 Acres (Deed)
0.0743 Acres (Survey)
=0.0524 (Right of Way)
0.0214 Acres (Remainder)

AREA BREAKDOWN
Parcel D2020-054-000-017
O.R. Vol. 9380, Page 875
0.694 Acres (Deed)
0.6930 Acres (Survey)
=0.3542 (Right of Way)
0.3388 Acres (Remainder)

LEGEND
● Set 5/8" Iron Pin



DATE: BY: REASON:	
Survey for Handerman Property 7400 Cherokee	
LIBERTY RUN SUBDIVISION	
LANSDALE SURVEYING, INC. 1008 MAIN STREET - (ST. RT. 28) MILFORD, OHIO, 45150 PHONE (513) 831-9970	
DRAWING NUMBER 21-046	DATE: 8/27/2021 DRAWN BY: nrh
SCALE: 1"=40'	
SHEET 2 OF 2	



2 WORKING DAYS
BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

11/13/21

STANLEY T. MESSERLY

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
E-55475

(0521 Water Details 11-13-21)

DATE	REVISION	MessCo Engineering 2766 WASSON ROAD CINCINNATI, OHIO 45209 513-731-2500	
LIBERTY RUN SUBDIVISION PROPOSED WATER MAIN EXTENSION 7400 CHEROKEE LANE LIBERTY TOWNSHIP BUTLER COUNTY, OHIO		DATE:	11/13/21
		SCALE:	AS SHOWN
		DRAWN BY:	STM
		PAGE:	WTR-4
		JOB #:	0521

NOTES AND
DETAILS