

PLANNING COMMISSION AGENDA



**Planning Commission Meeting
6:00 PM Tuesday, April 21, 2020**

**South Lebanon Municipal Building
10 N. High Street
South Lebanon, Ohio 45065**

	Agenda Item
1.	Call to Order
2.	Pledge of Allegiance
3.	Roll Call
4.	Open Forum
5.	Review and Approval of Minutes A. None
6.	Public Hearing – None
7.	Old Business A. None
8.	New Business A. Case -20-07P: Acceptance and Dedication of Public Improvements for Riverside Phase Three Subdivision B. Case 20-08P – Application for Site Plan-for McDonalds at Rivers Crossing West Section 2
9.	Communications
10.	Adjournment

Members of the public may address the Planning Commission during the Open Forum segment of the agenda and shall be limited to five minutes each. After the speaker concludes remarks, the Planning Commission may comment or ask questions at that time. The Chairperson may at his or her discretion restrict duplicate testimony on a particular subject.

VILLAGE OF SOUTH LEBANON MEMORANDUM

TO: Planning Commission

FROM: Jerry Haddix, Village Administrator

RE: Case 20-07P, Acceptance and Dedication of Public Improvements for Riverside Phase Three Subdivision

DATE: April 16, 2020

One of the items on the agenda for the August 21st meeting is a request of the Planning Commission to find that the public improvements for the Riverside Phase Three subdivision conform to South Lebanon's standards for construction of public improvements.

Background

On January 15th, 2019, the Record Plat for Riverside Phase Three subdivision was recorded in the Warren County's Recorder's Office. This plat included thirty -four (34) single family lots in which all have been or in the process of houses constructed on them.

Code Analysis

Pursuant to Sec 15.20.7(6) Requirements for the Construction of Improvements, the Village, through formal action by the Village Council, shall accept public improvements made by a developer which meet the following conditions:

- a. Said public improvements have been made in accordance with the requirements of these Regulations; and
- b. The design standards of these Regulations have been adhered to; and
- c. Installation of said public improvements has been completed according to the requirements of the Village of South Lebanon; and
- d. All final inspections required by these Regulations have been carried out by the Village and said public improvements were found to be acceptable by the Village Administrator upon the advice (if needed and requested) by an engineer acting in the service of the Village; and
- e. Accurate "as built" construction plans have been submitted by the subdivider to the Village and release from the posted Performance Bond has been granted; and
- f. The Planning Commission has found the subdivider to be in conformance with these Regulations.

Zoning Process

Before Council may accept public improvements for a subdivision, the Planning Commission shall issue a finding that the developer is in conformance with the aforementioned regulations a – e.

Staff Review

Choice One Engineering, the Project Engineer, has inspected the public improvements by Lebanon Mason LLC (“Developer”). The Developer has completed all of the public improvements satisfactorily per the attached letter from Choice One Engineering.

Recommendation

Staff recommends that the Planning Commission issue a finding to Council that they have found the public improvements in Riverside Phase Three Subdivision, as attached, be in conformance with the regulations listed in Sec 15.20.7(6) items a – e.

Attachments

Choice One Inspection Letter

Copy of Riverside Phase Three recorded plat



Date

February 13, 2020

Attention

Jerry Haddix
Village Administrator

Address

99 N. High Street
South Lebanon, OH 45065

Subject

Riverside Subdivision Phase 3
Acceptance Letter
Village of South Lebanon, OH

Dear Mr. Haddix:

After a final punch list walkthrough on February 13, 2020, the public infrastructure and rights-of-way for the Riverside Phase 3 Subdivision have been deemed acceptable for dedication.

- The contractor has satisfactorily completed all punch list items pursuant to Sect. 15.20.7(6)(a-d).
- The acceptance and dedication of the public improvements created by this subdivision include the following streets. See attached plat for exact locations:
 - o Kelly Court and a portion of Trovillo Drive.

If you have any questions, please contact our office.

Sincerely,

A handwritten signature in blue ink that reads "Nicholas J. Selhorst".

Nicholas J. Selhorst, P.E.
Choice One Engineering

West Central Ohio
440 E. Hoewisher Rd.
Sidney, OH 45365
937.497.0200 Phone

S. Ohio/N. Kentucky
203 W. Loveland Ave.
Loveland, OH 45140
513.239.8554 Phone

Eastern Indiana
607 N. Meridian St.
Portland, IN 47371
260.766.2500 Phone



DEED REFERENCE

SITUATED IN SECTION 1 & 7, TOWN 4, RANGE 3, UNION TOWNSHIP, VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OHIO AND BEING A SUBDIVISION CONTAINING 18.2368 ACRES, (OF WHICH 6.3640 ACRES ARE IN SECTION 7 AND 11.8728 ACRES ARE IN SECTION 1) AND BEING 17.2386 ACRES OF 47.972 (DEED) ACRES AS CONVEYED TO LEBANON MASON RESIDENTIAL, LLC AS RECORDED IN DOCUMENT NO. 2016-033236, WARREN COUNTY, OHIO AND 0.9882 ACRES OF 22.971 (DEED - TRACT 2) ACRES AS CONVEYED TO LEBANON MASON, LLC AS RECORDED IN OFFICIAL RECORD 5856, PAGE 129, WARREN COUNTY, OHIO.

HOA REFERENCE

THE WITHIN SUBDIVISION IS SUBJECT TO THE DECLARATIONS OF COVENANTS, CONDITIONS, AND RESTRICTIONS AND RESERVATION OF EASEMENTS FOR RIVERSIDE SUBDIVISION WHICH IS RECORDED IN THE DEED OF RECORDS OF WARREN COUNTY, OHIO COMMENCING WITH DOCUMENT NUMBER 2018-006004, AND THE ARTICLES OF INCORPORATION AND CODE OF REGULATIONS FOR THE ASSOCIATION. SAID DECLARATION MAY BE AMENDED, SAID AMENDMENT(S) RECORDED IN THE DEED RECORDS OF WARREN COUNTY, OHIO.

DEDICATION

WE, THE UNDERSIGNED, BEING ALL THE OWNERS OF THE LANDS HEREIN PLATTED, DO HEREBY VOLUNTARILY CONSENT TO THE EXECUTION OF THE SAID PLAT AND DO DEDICATE THE STREETS, PARKS OR PUBLIC GROUNDS AS SHOWN HEREON TO THE PUBLIC USE FOREVER.

ANY "PUBLIC UTILITY EASEMENTS" AS SHOWN ON THIS PLAT ARE FOR THE PLACEMENT OF SIDEWALKS AND AND PUBLIC UTILITIES FOR THE MAINTENANCE AND REPAIR OF SAID UTILITIES. THIS EASEMENT AND ALL OTHER EASEMENTS SHOWN ON THIS PLAT, UNLESS DESIGNATED FOR A SPECIFIC PURPOSE, ARE FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR, REPLACEMENT OR REMOVAL OF WATER, SEWER, GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, OR OTHER UTILITY LINES OR SERVICES, STORMWATER DISPOSAL AND FOR THE EXPRESS PRIVILEGE OF CUTTING, TRIMMING OR REMOVING ANY AND ALL TREES OR OTHER OBSTRUCTIONS WITHIN SAID EASEMENT, OR IMMEDIATELY ADJACENT THERETO, TO THE FREE USE OF SAID EASEMENTS OR ADJACENT STREETS AND FOR PROVIDING INGRESS AND EGRESS TO THE PROPERTY FOR SAID PURPOSES AND ARE TO BE MAINTAINED AS SUCH FOREVER. NO BUILDINGS OR OTHER STRUCTURES MAY BE BUILT WITHIN SAID EASEMENTS, NOR MAY THE EASEMENT AREA BE PHYSICALLY ALTERED SO AS TO (1) REDUCE CLEARANCES OF EITHER OVERHEAD OR UNDERGROUND FACILITIES; (2) IMPAIR THE LAND SUPPORT OF SAID FACILITIES; (3) IMPAIR ABILITY TO MAINTAIN THE FACILITIES OR (4) CREATE A HAZARD.

THE ABOVE PUBLIC UTILITY EASEMENTS ARE FOR THE BENEFIT OF ALL PUBLIC UTILITY PROVIDERS INCLUDING, BUT NOT LIMITED TO DUKE ENERGY, AT&T, CHARTER COMMUNICATIONS, THE VILLAGE OF SOUTH LEBANON AND WARREN COUNTY.

ALL PERSONS INTERESTED IN THIS PLAT AS OWNERS HAVE UNITED IN ITS EXECUTION, SIGNED AND ACKNOWLEDGED IN THE PRESENCE OF:

OWNER: LEBANON MASON RESIDENTIAL LLC (47.972 ACRES)

NAME:

PRINTED NAME

STATE OF OHIO
COUNTY OF

BE REMEMBERED THAT ON THIS DAY OF 2018, BEFORE ME A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE PERSONALLY CAME LEBANON MASON RESIDENTIAL LLC, AS REPRESENTED BY , ACKNOWLEDGED THE SIGNING AND EXECUTION OF THE FOREGOING INSTRUMENT TO BE HIS VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL ON THE DAY AND YEAR AS WRITTEN ABOVE.

NOTARY PUBLIC:

MY COMMISSION EXPIRES:

OWNER: LEBANON MASON LLC (22.971 ACRES)

NAME:

PRINTED NAME

STATE OF OHIO
COUNTY OF

BE REMEMBERED THAT ON THIS DAY OF 2018, BEFORE ME A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE PERSONALLY CAME LEBANON MASON LLC, AS REPRESENTED BY , ACKNOWLEDGED THE SIGNING AND EXECUTION OF THE FOREGOING INSTRUMENT TO BE HIS VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL ON THE DAY AND YEAR AS WRITTEN ABOVE.

NOTARY PUBLIC:

MY COMMISSION EXPIRES:

LIEN HOLDER: WES BANCO BANK, INC.

NAME:

PRINTED NAME

STATE OF OHIO
COUNTY OF

BE REMEMBERED THAT ON THIS DAY OF 2018, BEFORE ME A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE PERSONALLY CAME WES BANCO BANK, INC., AS REPRESENTED BY , ACKNOWLEDGED THE SIGNING AND EXECUTION OF THE FOREGOING INSTRUMENT TO BE HIS VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL ON THE DAY AND YEAR AS WRITTEN ABOVE.

NOTARY PUBLIC:

MY COMMISSION EXPIRES:

SURVEYORS CERTIFICATION

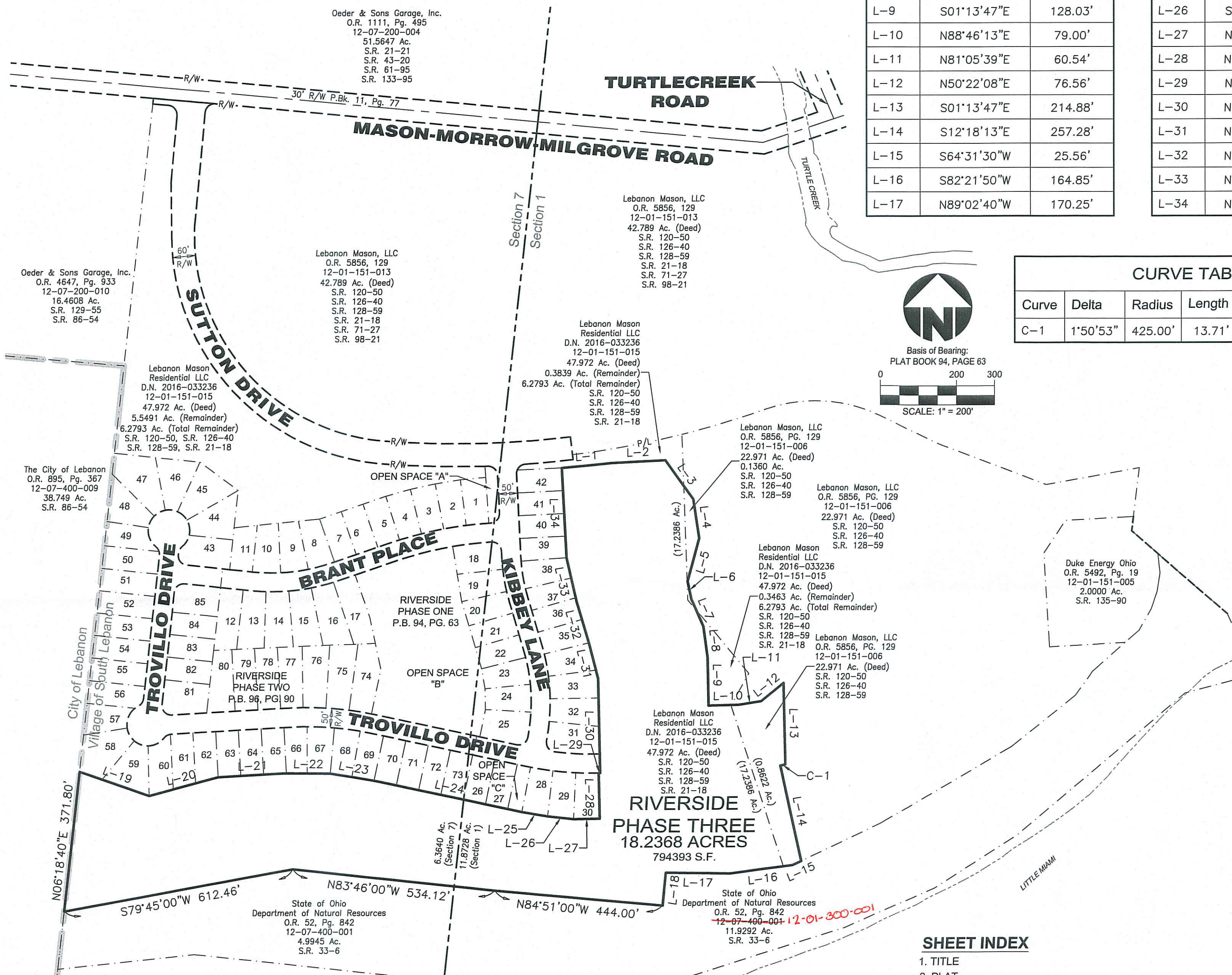
I HEREBY CERTIFY THAT THIS MAP IS A TRUE AND COMPLETE SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT ALL MONUMENTS AND LOT CORNER PINS ARE SET AS SHOWN.

BRIAN R. JOHNSON, P.S.
PROFESSIONAL SURVEYOR #9484
IN THE STATE OF OHIO

DATE



RIVERSIDE
PHASE THREE
SECTION 1 & 7, TOWN 4, RANGE 3
BETWEEN THE MIAMIS, UNION TOWNSHIP
VILLAGE OF SOUTH LEBANON
WARREN COUNTY, OHIO
DECEMBER, 2018



DRAINAGE STATEMENT

UNLESS OTHERWISE DESIGNATED ON THIS PLAT, A FIFTEEN (15) FOOT WIDE DRAINAGE EASEMENT SHALL EXIST ALONG ALL REAR LOT LINES AND A TEN (10) FOOT WIDE DRAINAGE EASEMENT SHALL EXIST ALONG ALL SIDE LOT LINES, WITH THE LINE BEING THE CENTERLINE OF SAID EASEMENT.

THE EASEMENT AREAS SHALL BE MAINTAINED CONTINUOUSLY BY THE LOT OWNER(S). WITHIN THE EASEMENTS, NO STRUCTURE, PLANTING, FENCING, CULTVERT, OR OTHER MATERIAL SHALL BE PLACED OR PERMITTED TO REMAIN WHICH MAY OBSTRUCT, RETARD, OR DIVERT THE FLOW THROUGH THE WATERCOURSE.

THE VILLAGE OF SOUTH LEBANON ASSUMES NO LEGAL OBLIGATION TO MAINTAIN OR REPAIR ANY OPEN DRAIN, DITCHES OR WATERCOURSE WITHIN THE EASEMENT AREA UNLESS NOTED OTHERWISE ON THIS PLAT. HOWEVER, WHEN THE PLATTED RIGHT-OF-WAY AREA HAS BEEN PREVIOUSLY ACCEPTED FOR PUBLIC MAINTENANCE BY RESOLUTION OF THE VILLAGE OF SOUTH LEBANON OR THEIR REPRESENTATIVES MAY ENTER UPON AND INSPECT THE EASEMENT AREAS AND, IN ACCORDANCE WITH SECTION 5589.06 OF THE OHIO REVISED CODE, MAY REMOVE OR CAUSE THE REMOVAL OF AN OBSTRUCTION ADVERSELY IMPACTING AN AREA WITHIN THE PUBLIC RIGHT-OF-WAY.

UNTIL THE EXPIRATION OF THE PUBLIC IMPROVEMENT BONDING PERIOD, THE DEVELOPER (OR THEIR AGENTS) RESERVES THE RIGHT TO ENTER UPON ALL LOTS TO ESTABLISH OR RE-ESTABLISH DRAINAGE SWALES WITHIN ALL DRAINAGE EASEMENTS FOR THE PURPOSE OF CONTROLLING AND DIRECTING STORMWATER TO COLLECTION FACILITIES OR DRAINAGE CHANNELS.

THE PUBLICLY-MAINTAINED PORTION OF THE STORM SEWER SYSTEM WILL INCLUDE STORM DRAINS, CULVERTS, AND/OR DITCHES LOCATED WITHIN EITHER THE PUBLIC RIGHT-OF-WAY OR THE PUBLIC UTILITY EASEMENT AREA ADJACENT TO THE ROAD RIGHT-OF-WAY WITH THE EXCEPTION OF SLUMP MAINS AND CULVERTS FOR PRIVATE DRIVEWAYS. WHERE, IN LIEU OF AN OPEN DITCH, A DEVELOPER, BUILDER OR LOT OWNER INSTALLS A STORM DRAIN ON PRIVATE PROPERTY, THE STORM DRAIN SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER TO ENSURE THAT NEITHER THIS PROPERTY OR ADJACENT PROPERTIES ARE NEGATIVELY IMPACTED, AND THE LOT OWNER(S) MUST NOTE THAT THEY ARE RESPONSIBLE FOR MAINTAINING THE STORM DRAIN UNLESS NOTED OTHERWISE ON THE PLAT.

THE HOME OWNER'S ASSOCIATION IS RESPONSIBLE FOR MAINTAINING ALL STORM WATER FACILITIES LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY INCLUDING SEWER, STRUCTURES, DETENTION/RETENTION BASINS, AND SLUMP MAINS.

GRANT OF UTILITY EASEMENT

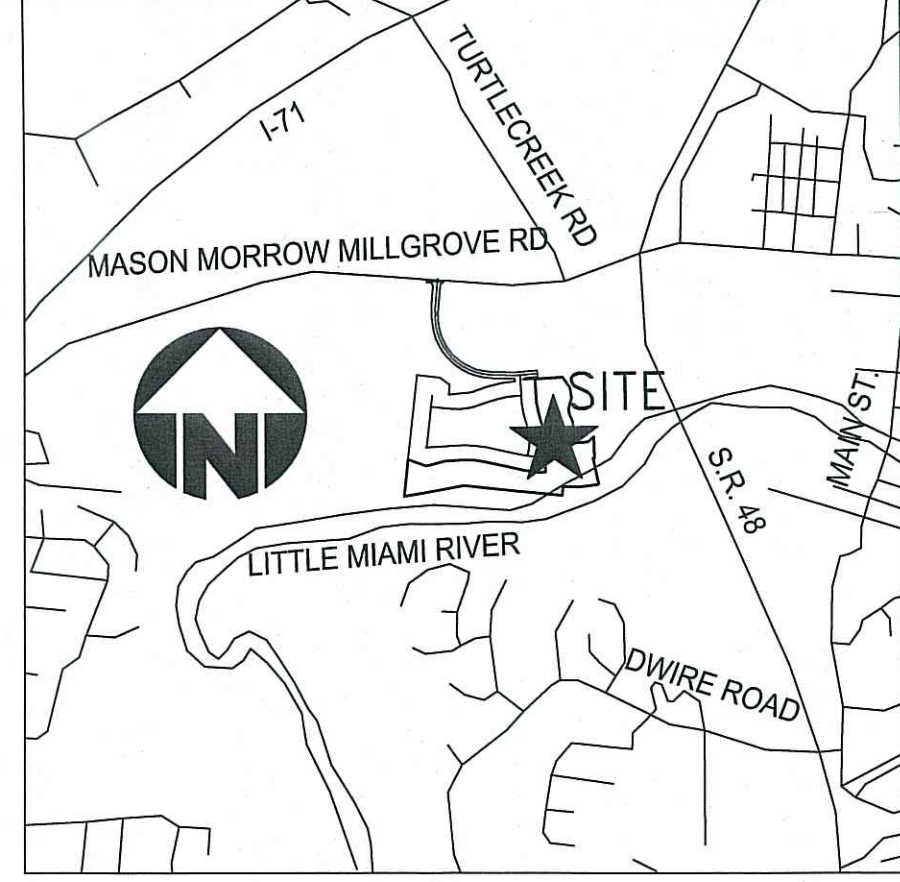
FOR VALUABLE CONSIDERATION, WE, THE UNDERSIGNED ("GRANTOR") DO HEREBY PERMANENTLY GRANT TO DUKE ENERGY OHIO/KENTUCKY, INC. AND THEIR PARENT ENTITY (OR ENTITY CONTROLLING BOTH ENTITIES), THEIR RESPECTIVE SUBSIDIARIES OR AFFILIATE ENTITIES, AND ANY OTHER PROVIDER OF UTILITY SERVICES ("GRANTEE") THEIR SUCCESSORS AND ASSIGNS, FOREVER, NON-EXCLUSIVE EASEMENTS, AS SHOWN ON THE WITHIN PLAT AND DESIGNATED AS "UTILITY EASEMENTS" FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR, OR REPLACEMENT OF ANY AND ALL NECESSARY FIXTURES FOR THE OVERHEAD OR UNDERGROUND DISTRIBUTION OF GAS, ELECTRIC, TELEPHONE, TELECOMMUNICATIONS OR OTHER UTILITIES ("GRANTEE FACILITIES" OR "FACILITIES"). THE GRANTEE SHALL HAVE THE RIGHT OF INGRESS AND EGRESS AND ALSO THE RIGHT TO CUT, TRIM, OR REMOVE ANY TREES, UNDERGROWTH, OR OVERHANGING BRANCHES WITHIN THE UTILITY EASEMENTS OR IMMEDIATELY ADJACENT THERETO. NO BUILDINGS OR OTHER STRUCTURES MAY BE BUILT WITHIN THE UTILITY EASEMENTS AREA, NOR MAY THE UTILITY EASEMENTS AREA BE PHYSICALLY ALTERED TO (1) REDUCE THE CLEARANCES OF EITHER OVERHEAD OR UNDERGROUND FACILITIES; (2) IMPAIR THE LAND SUPPORT OF GRANTEE FACILITIES; (3) IMPAIR THE ABILITY TO MAINTAIN THE FACILITIES OR; (4) CREATE A HAZARD. TO HAVE AND TO HOLD THE EASEMENT FOREVER. WE ACKNOWLEDGE HAVING THE FULL POWER TO CONVEY THIS UTILITY EASEMENT AND WILL DEFEND THE SAME AGAINST ALL CLAIMS.

ALSO HEREBY GRANTED TO DUKE ENERGY OHIO/KENTUCKY, INC. AND ITS SUBSIDIARIES, SUCCESSORS, AND ASSIGNS IS THE RIGHT TO LATERALLY EXTEND, REPAIR, AND MAINTAIN NATURAL GAS SERVICES TO SERVE INDIVIDUAL LOTS AS CONSTRUCTED BY THE ORIGINAL BUILDER ALLOWING DISTURBANCE ONLY OVER EXISTING SERVICES TO SERVICE INDIVIDUAL LOTS AS CONSTRUCTED BY THE ORIGINAL BUILDER ALLOWING DISTURBANCE ONLY OVER EXISTING SERVICE LINES NECESSARY FOR THE REPAIR ONLY ON THE LOT ON WHICH THE SERVICE IS LOCATED. RECONSTRUCTION OR RELOCATION IS PERMISSIBLE ONLY WITH THE WRITTEN PERMISSION OF THE PARCEL OWNER AND SAID UTILITY PROVIDER TO A MUTUALLY AGREEABLE LOCATION. NO PART OF THE UTILITY EASEMENTS SHALL ENCUMBER EXISTING BUILDINGS OR ADJOINING LOTS.

BOUNDARY LINE TABLE		
Line	Direction	Distance
L-1	N84°31'35"E	131.38'
L-2	N87°04'38"E	142.86'
L-3	S35°35'27"E	125.92'
L-4	S08°19'54"E	104.40'
L-5	S15°02'19"W	117.77'
L-6	S11°48'16"E	48.88'
L-7	S23°27'37"E	78.93'
L-8	S07°29'59"E	82.69'
L-9	S01°13'47"E	128.03'
L-10	N88°46'13"E	79.00'
L-11	N81°05'39"E	60.54'
L-12	N50°22'08"E	76.56'
L-13	S01°13'47"E	214.88'
L-14	S12°18'13"E	257.28'
L-15	S64°31'30"W	25.56'
L-16	S82°21'50"W	164.85'
L-17	N89°02'40"W	170.25'

BOUNDARY LINE TABLE		
Line	Direction	Distance
L-18	S05°49'00"W	87.60'
L-19	S70°29'29"E	194.06'
L-20	N75°10'36"E	188.70'
L-21	N86°53'54"E	180.00'
L-22	S89°37°24"E	115.52'
L-23	S80°10'37"E	116.32'
L-24	S77°53'43"E	398.02'
L-25	S80°33'22"E	68.75'
L-26	S83°52'46"E	68.84'
L-27	N88°46'13"E	68.43'
L-28	N01°13'47"W	120.00'
L-29	N88°46'13"E	3.94'
L-30	N01°13'47"W	249.00'
L-31	N14°33'36"W	96.96'
L-32	N16°16'26"W	115.56'
L-33	N12°38'53"W	118.46'
L-34	N02°53'29"W	237.04'

CURVE TABLE				
Curve	Delta	Radius	Length	Chord
C-1	1°50'53"	425.00'	13.71'	S76°46'21"W 13.71'



VICINITY MAP
n.l.s.

SURVEYOR

BAYER BECKER
6900 TYLERSVILLE ROAD
MASON, OH, 45040
513-336-6600

OWNER

LEBANON MASON LLC
4020 KINROSS LAKES, SUITE 200
RICHFIELD, OH 44286
513-404-6401

OWNER

LEBANON MASON RESIDENTIAL, LLC
4020 KINROSS LAKES, SUITE 200
RICHFIELD, OH 44286
513-404-6401

NOTES

- PRIOR DEED REFERENCE: DOCUMENT NUMBER 2016-033236. OFFICIAL RECORD 5856, PAGE 129
- BASIS OF BEARING: PLAT BOOK 94, PAGE 63.
- 5/8" IRON PINS ARE SET ON ALL LOT CORNERS UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- OCCUPATION IN GENERAL MATCHES SURVEY, UNLESS OTHERWISE NOTED.
- ALL EXISTING MONUMENTS ARE IN GOOD CONDITION UNLESS OTHERWISE SHOWN.
- MINIMUM PERMISSIBLE LOW FLOOR ELEVATION (INCLUDING BASEMENT). IF A FLOOR IS DESIRED BELOW THE M.O.E. ELEVATION SHOWN, THEN NO GRAVITY FLOW STORM DRAIN WILL BE PERMITTED FROM ANY DRIVEWAY, WINDOW WELL, STAIRWELL, FOUNDATION, BASEMENT, PATIO OR OTHER SOURCE TO BE DIRECTLY CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXISTING OR PROPOSED WATERCOURSE BELOW THE M.O.E. ELEVATION SHOWN. SLUMP PUMP WELLS AND SLUMP PUMPS SHALL BE INSTALLED FOR BASEMENTS OF HOMES IF THE BASEMENT ELEVATION IS BELOW THE M.O.E. ELEVATION SHOWN.

VILLAGE OF SOUTH LEBANON PLANNING COMMISSION

THIS PLAT WAS APPROVED BY THE VILLAGE OF SOUTH LEBANON PLANNING COMMISSION ON THIS DAY OF 2018.

CHAIRMAN

VILLAGE OF SOUTH LEBANON

I HEREBY CERTIFY THAT ON THE DAY OF 2018, THIS PLAT WAS APPROVED AND ACCEPTED BY RESOLUTION NO. ADOPTED BY THE COUNCIL OF THE VILLAGE OF SOUTH LEBANON, OHIO.

ATTEST:

JAMES D. SMITH, MAYOR

NICOLE ARMSTRONG, FISCAL OFFICER



COUNTY AUDITOR

TRANSFERRED ON THIS DAY OF 2018, AT M.

COUNTY AUDITOR

DEPUTY

PRINTED NAME:

COUNTY RECORDER

FILE NO. _____

RECEIVED ON THIS DAY OF 2018, AT M.

RECORDED ON THIS DAY OF 2018, AT M.

RECORDED IN PLAT BOOK NO. PAGE NO. _____

LEE: _____

COUNTY RECORDER

DEPUTY

PRINTED NAME:

RIVERSIDE
PHASE THREE
SECTION 1 & 7, TOWN 4, RANGE 3
BETWEEN THE MIAMIS, UNION TOWNSHIP
VILLAGE OF SOUTH LEBANON
WARREN COUNTY, OHIO
RECORD PLAT



Drawing:	13R050-000 RP3 TITLE
Drawn by:	PAH
Checked by:	BRJ
Issue Date:	11-09-18
Sheet:	

1/2

CURVE TABLE				
Curve	Delta	Radius	Length	Chord
C-1	1°50'53"	425.00'	13.71'	N76°46'21"E 13.71'

LOT CURVE TABLE				
Curve	Delta	Radius	Length	Chord
C-2	9°00'00"	25.00'	39.27'	S43°46'13"W 35.36'
C-3	12°13'54"	275.00'	58.71'	S07°20'44"E 58.60'
C-4	11°53'49"	275.00'	57.10'	S19°24'36"E 57.00'
C-5	1°35'22"	325.00'	9.02'	S24°33'49"E 9.02'
C-6	10°30'38"	325.00'	59.62'	S18°30'49"E 59.54'
C-7	10°34'44"	325.00'	60.00'	S07°58'08"E 59.92'
C-8	5°12'33"	325.00'	29.55'	S00°04'29"E 29.54'
C-9	5°11'04"	25.00'	22.39'	S23°07'45"E 21.65'
C-10	30°27'24"	55.00'	28.24'	S33°33'34"E 28.89'
C-11	47°48'07"	55.00'	45.89'	S05°34'11"W 44.57'
C-12	40°15'24"	55.00'	38.64'	S49°35'56"W 37.85'
C-13	43°09'35"	55.00'	41.43'	N88°41'34"W 40.46'
C-14	41°06'44"	55.00'	39.46'	N46°33'25"W 38.62'
C-15	47°00'09"	55.00'	45.12'	N02°29'59"W 43.86'
C-16	32°50'46"	55.00'	31.53'	N37°25'29"E 31.10'
C-17	5°11'04"	25.00'	22.39'	N28°11'20"E 21.65'
C-18	8°30'01"	275.00'	40.80'	N01°43'13"W 40.76'
C-19	18°25'19"	275.00'	88.42'	N15°10'53"W 88.04'
C-20	0°57'57"	275.00'	4.63'	N24°52'32"W 4.64'
C-21	9°45'38"	325.00'	55.36'	N20°28'41"W 55.30'
C-22	10°34'40"	325.00'	60.00'	N10°18'32"W 59.91'
C-23	3°47'25"	325.00'	21.50'	N03°07'30"W 21.50'
C-24	9°00'00"	25.00'	39.27'	N46°13'47"W 35.36'
C-25	5°21'41"	375.00'	35.09'	S86°05'22"W 35.08'
C-26	9°19'11"	375.00'	61.00'	S78°44'56"W 60.93'
C-27	8°08'20"	425.00'	60.00'	N81°44'27"E 59.95'
C-28	2°59'05"	425.00'	22.14'	N87°16'40"E 22.14'

CENTERLINE CURVE TABLE				
Curve	Delta	Radius	Length	Chord
CC-29	13°44'41"	400.00'	95.96'	N81°53'52"E 95.73'
CC-30	24°07'43"	300.00'	126.34'	N13°17'39"W 125.41'
CC-31	27°53'18"	300.00'	146.02'	N11°24'51"W 144.59'

EASEMENT CURVE TABLE				
Curve	Delta	Radius	Length	Chord
EC-32	5°57'17"	340.00'	35.34'	S17°29'58"E 35.32'
EC-33	8°25'07"	70.00'	10.29'	N71°21'23"W 10.28'
EC-34	8°00'29"	70.00'	9.78'	N63°08'35"W 9.78'
EC-35	4°58'20"	440.00'	38.18'	N80°10'58"E 38.17'

Parcel Table		
Parcel #	Acres	S.Ft.
86	0.2146	9346
87	0.1653	7200
88	0.1653	7200
89	0.1869	8142
90	0.1823	7941
91	0.1733	7547
92	0.2043	8898
93	0.2098	9137
94	0.1940	8451
95	0.2361	10285
96	0.3553	15478
97	0.2450	10673
98	0.2510	10934
99	0.1998	8701
100	0.1861	8105
101	0.1925	8385
102	0.1948	8487
103	0.1942	8457
104	0.1991	8672
105	0.1766	7692
106	0.1653	7200
107	0.2146	9346
108	0.1653	7200
109	0.1653	7200
110	0.1704	7423
111	0.2008	8746
112	0.1968	8572
113	0.1742	7587
114	0.1653	7200
115	0.1653	7200
116	0.1653	7200
117	0.1653	7200
118	0.1653	7200
119	0.1653	7200
*E**	10.2496	446472

*OPEN SPACE

TOTAL R/W CURVE TABLE				
Curve	Delta	Radius	Length	Chord
C-36	24°07'43"	275.00'	115.81'	S13°17'39"E 114.95'
C-37	27°53'18"	325.00'	158.19'	S11°24'51"E 156.63'
C-38	282°38'08"	55.00'	271.31'	N87°28'13"W 68.75'
C-39	27°53'18"	275.00'	133.85'	N11°24'51"W 132.54'
C-40	24°07'43"	325.00'	136.86'	N13°17'39"W 135.86'
C-41	14°40'52"	375.00'	96.09'	S81°25'47"W 95.82'
C-42	12°55'19"	425.00'	95.85'	N82°18'33"E 95.65'

SIDWELLS

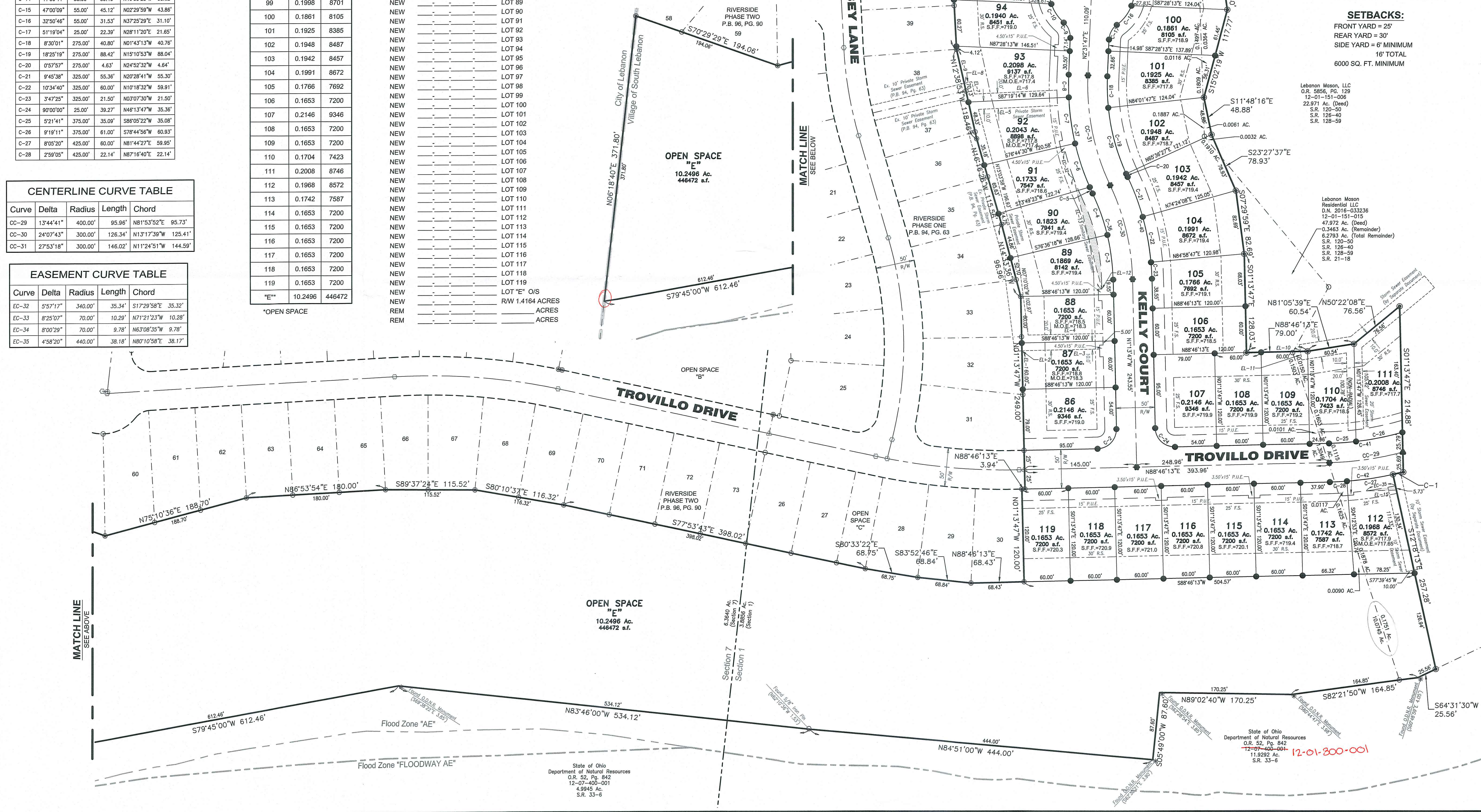
OLD # 12-01-151-006

OLD # 12-01-151-015

NEW	LOT 86
NEW	LOT 87
NEW	LOT 88
NEW	LOT 89
NEW	LOT 90
NEW	LOT 91
NEW	LOT 92
NEW	LOT 93
NEW	LOT 94
NEW	LOT 95
NEW	LOT 96
NEW	LOT 97
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NEW	LOT 101
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NEW	LOT 111
NEW	LOT 112
NEW	LOT 113
NEW	LOT 114
NEW	LOT 115
NEW	LOT 116
NEW	LOT 117
NEW	LOT 118
NEW	LOT 119
REM	LOT "E" O/S
REM	R/W 1.4164 ACRES
REM	ACRES
REM	ACRES

EASEMENT LINE TABLE		
Line	Direction	Distance
EL-1	N01°13'47"W	50.00'
EL-2	N82°49'58"E	0.02'
EL-3	N88°46'13"E	100.48'
EL-4	N88°46'13"E	96.49'
EL-5	S87°19'14"W	102.35'
EL-6	N87°19'14"E	106.39'
EL-7	N12°38'53"W	16.62'
EL-8	N76°36'39"E	10.00'
EL-9	S12°38'53"E	45.24'
EL-10	N88°46'13"E	50.59'
EL-11	S08°54'21"E	11.26'
EL-12	S01°13'47"E	0.05'
EL-13	S14°11'31"E	148.98'
EL-14	N70°18'56"E	8.01'
EL-15	N88°39'48"E	38.85'

BUILDING SETBACK LINE TABLE		
Line	Direction	Distance
SL-16	S02°31'47"W	60.24'
SL-17	N50°11'30"E	80.53'
SL-18	S88°09'13"E	61.21'
SL-19	S46°17'51"E	60.00'
SL-20	S02°31'47"W	80.92'



LEGEND:

- Found 5/8" Iron Pin (capped "Bayer Becker" unless otherwise noted)
- Found 1" Iron Pin (capped "Bayer Becker" unless otherwise noted)
- Set MAG Nail
- Set MAG Spike
- Set 5/8" Diameter x 30" Long Iron Pin Capped "Bayer Becker"
- Set 1" Diameter x 30" Long Iron Pin Capped "Bayer Becker"
- S.F.F.=Suggested Finish Floor Elevation
- M.O.E.=Minimum Opening Elevation
- Sanitary Sewer Easement
- P.U.E.=Public Utility Easement
- F.S.=Front Setback
- R.S.=Rear Setback

ACREAGE TABLE	
LOTS	6.5708 ACRES
RIGHT OF WAY	1.4164 ACRES
OPEN SPACE	10.2496 ACRES
TOTAL PHASE THREE	18.2368 ACRES

ROAD WAY DATA	
TROVILLO DRIVE	489.92 L.F.
KELLY COURT	626.00 L.F.

SETBACKS:	
FRONT YARD = 25'	
REAR YARD = 30'	
SIDE YARD = 6' MINIMUM	
6000 SQ. FT. MINIMUM	

LEGEND:

- Found 5/8" Iron Pin (capped "Bayer Becker" unless otherwise noted)
- Found 1" Iron Pin (capped "Bayer Becker" unless otherwise noted)
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SIDE YARD = 6' MINIMUM	
6000 SQ. FT. MINIMUM	

Date	Chk:	Drawn:
12-05-18	PAH	BRJ
Revision Description		
1	REVISED PER WARREN COUNTY MAP ROOM COMMENTS	
Item		
1		

RIVERSIDE PHASE THREE
SECTION 1 & 7, TOWN 4, RANGE 3
BETWEEN THE MAINS, UNION TOWNSHIP
VILLAGE OF SOUTH LEBANON
WARREN COUNTY, OHIO
RECORD PLAT

bayer becker
www.bayerbecker.com
6800 Tyersville Road, Suite A
Mason, OH 45040 - 513.336.6600

Drawing:	13R050-000 RP3
Drawn by:	PAH
Checked by:	BRJ
Issue Date:	11-09-18
Sheet:	2/2

VILLAGE OF SOUTH LEBANON MEMORANDUM

TO: Planning Commission
FROM: Jerry Haddix, Village Administrator
RE: Case 20-08P, Site Plan Review for McDonald's
DATE: April 17, 2020

On the agenda for the April 21st meeting is an application for approval of the site plan, landscape design and signage for the McDonald's restaurant to be located at Corwin Nixon Boulevard on 1.4581 acres on Lot 5 of the Rivers Crossing West Section 2 Subdivision (the "Project") submitted by Permit Solution (the "Applicant") on behalf of McDonald's.

Background

The Project that is the subject of the application is located on 1.4581 acres along the west side of State Route 48. The property is owned by Rivers Crossing Power LLC. The present zoning classification is B-2 General Business District. The proposed Project consists of a 4,073 s.f. restaurant with a drive-thru with access provided by a private access easement from Corwin Nixon Boulevard north of the existing Speedway site.

The site plan has been distributed to various agencies and, to date, we have received comments from Kim Lapensee, our Planning Consultant, and the Choice One Engineering. The Union Township relayed that he had no comments on the site plan.

Zoning Code Analysis

Upon review of the plans, it has been determined that the drawings generally satisfy the Zoning Regulations and Design Guidelines and Standards with the exceptions listed in the attached letter and accompanying site plan approval checklist.

Zoning Process

Pursuant to Article 18 of the Village Zoning Regulations, the development of any new use or construction of any new structures shall require site plan approval prior to construction and/or occupancy. At the first regular meeting at which a site plan proposal is considered, the Commission shall first determine whether to accept the plan for processing. If accepted for processing, the Commission shall review the site plan in relation to applicable standards and regulations, and in relation to the intent and purpose of the Village Zoning Regulations and Design Guidelines and Standards. The Commission shall consider the comments and recommendations from the Village Administrator, the Village Engineer, public safety officials and other reviewing agencies.

If the Commission determines that revisions are necessary to bring the site plan into compliance with applicable standards and regulations, the applicant shall be given the opportunity to submit a revised

site plan. The Commission shall review the revised site plan and application materials within 30 days after the Village received a complete revised site plan application.

The Commission shall make a determination on a site plan based on the requirements and standards in the Zoning Regulations and Design Guidelines and Standards. The Commission is authorized to grant approval, grant approval subject to conditions, or reject a site plan. If the Commission chooses to grant approval subject to conditions, the Commission may waive its right to review the revised plan, and instead authorize the Zoning Administrator, or his designee, to review and recommend approval of the resubmitted plans if all required conditions have been addressed.

If construction is not started within 18 months of final approval of the site plan, the site plan approval becomes null and void and a new application for site plan review shall be required.

Recommendation

Given the width of the lot, the parking spaces and building, the 10 foot landscape buffer is not feasible for this site. With the adjoining commercial uses, a 6-foot buffer as shown on the plans would be adequate. Also, operationally, McDonald's doesn't require a designated loading space as part of their business. Therefore, waiving of this requirement would not be detrimental to the development.

Staff recommends that the Planning Commission grant its approval of the site plan and landscape plan for McDonald's with the following conditions:

Prior to issuance of a zoning permit, the applicant must resubmit the site plan and provide the following information to the Zoning Administrator:

1. Addressing the comments of the Village Engineer and Planning Consultant to the satisfaction of the Village Administrator;
2. Provide the Storm Water Pollution Prevention Plan (SWPPP) and address any review comments from the Warren County Soil & Water Conservation District relative to the SWPPP.

Attachments

Planning Commission Application

Site Plan and Landscape Plan

Plan Review – Kim Lapensee

Choice One Engineering Review Letter

VILLAGE OF SOUTH LEBANON PLANNING COMMISSION APPLICATION

1. Application Type: (check the appropriate box) (all plans must be folded when submitted)

	Draft Plan-Discussion Only		Preliminary PUD
X	Site Plan		Final PUD
X	Landscape Plan		Rezoning
X	Construction Drawings. (Please complete Fee Schedule form on Page 2)		Lot Split
	Preliminary Plat (Please complete Fee Schedule form on Page 2)		Conditional Use
	Final Plat or Replat		Special Meeting
	Right-of-Way Dedication Plat		Other:

(See Page 3 for complete Fee Schedule and Submittal Requirement Information)

2. Development Information:

Development/Business Name: McDonald's Corporation			
Type of Business/Project Description: New Drive-Thru Restaurant			
Location: Rivers Crossing West Rt 48 and 71 South Lebanon,		Size of Building: 4073	
Current Zoning: B-2 General Business District		Rezone to: N/A	
Total Acreage: 1.4581		Acres to be Rezoned: N/A	
Number of Employees: 10-15		Number of Fleet Vehicles: N/A	
Current Owner of the Property		Project Contact (Architect, Engineer, Planner)	
Name: Rivers Crossing Power LLC		Name: Bayer Becker - Enginner	
Address: 738 Corwin Nixon Blvd.		Address: 6900 Tylersville Rd	
City: South Lebanon	State: Ohio	Zip: 45065	City: Mason
			State: Ohio
			Zip:
Telephone:	Fax:	Telephone: 513-492-9835	Fax:
Applicant(s): Permit Solutions - Vanessa Stickel - Main Contact			
Address: 5195 Hampstead Village Center Way			
City: New Albay		State: Ohio	Zip: 43054
Telephone: 330-571-3315		Fax: n/a	
Please Print Applicant's Name Here: <u>Vanessa Stickel</u>			
* Applicant's Signature: <u>Vanessa Stickel</u>			
* Applicant is responsible for payment of all fees (See Fee Schedule and Footnotes on Pages 3 and 4 respectively.)			

TO BE COMPLETED BY THE VILLAGE OF SOUTH LEBANON

Application Number: _____ Date of Planning Commission Meeting: _____

Fee Paid: _____ Drawn: _____ Check #: _____ Date: _____ Initial: _____

Legal Notices Advertised: _____ Mailed to Surrounding Property Owners: _____

3. Rezoning and Preliminary PUD Plan Requests

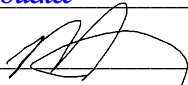
Surrounding Property Owners: Please list the names and addresses of all **Owners of Real Property** within 300 feet of any part of the property as such names and addresses appear on the most recent tax duplicate on 2 sets of mailing labels. (See submittal requirements on page 3).

4. Signatures Required

By signing this application, I attest under penalty of law that all the information given above is correct to the best of my knowledge.

Please **Print** Applicant's Name: Vanessa Stickel - Permit Solutions

Applicant's Signature: Vanessa Stickel Date: March 3, 2020

Property Owner's Signature:  Date: 3/4/20

5. Fee Determination for Construction Drawings and Preliminary Plat Submittals

Please create a detailed breakdown of the estimated infrastructure breakdown cost for the project and attach it to this application. For Construction Drawings complete Item 1 and for Preliminary Plats complete Item 2.

Total Infrastructure Cost \$ 690,279 (A)

1 – Construction Drawing Fee Breakdown

1.25% of Total Infrastructure Cost* (Line A x 0.0125) \$ 8,628.49 (B)

1.50% of Total Infrastructure Cost** (Line A x 0.015) + \$ 10,354.19 (C)

Application Fee + \$ 150.00 (D)

Total Construction Drawing Fee (Line B + C + D) \$ 19,132.68 (E)

2 – Preliminary Plat Fee Breakdown:

0.25% of Total Infrastructure Cost* (Line A x 0.0025) \$ _____ (F)

Application Fee + \$ 150.00 (G)

Total Preliminary Plat Fee (Line F + G) \$ _____ (H)

Total Paid with Application/Submittals (Line E+H) \$ _____

* Due upon submittal

** Due prior to construction

6. Fee Schedule and Submittal Requirements

Article/Ord. Reference	Item	Fees ⁽³⁾⁽⁴⁾	Submittal Requirements
Article 20 Article 14	Preliminary Plats Final PUDs	\$150 + 0.25% of estimated infrastructure construction costs ⁽¹⁾	12 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper)
Article 20	Construction Drawings	\$150 + 2.75% of estimated infrastructure construction costs ⁽¹⁾ (Include estimate with application) (1.25% due at time of submittal and 1.5% due before construction begins) ⁽²⁾	4 Copies ⁽⁵⁾ 2 Drainage Calculations 2 Detailed Spreadsheet of the Estimated Infrastructure Costs
Article 20	Final / Dedication Plats	\$350	10 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper)
Article 20	Lot Split / Minor Subdivision / Replats	\$75 per lot	3 Survey Plats ⁽⁵⁾ & Legal Descriptions 1 New Deed + 1 Original Deed
Article 18	Site Plans	\$400 + \$5 per unit Multi-family \$400 + \$20 per acre Commercial/ Office/Industrial/Institutional	12 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper)
Article 17	Landscape Plans	\$150 + \$10 per acre	12 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper)
Article 7	Zoning District Map Change Zoning Text Change	\$400 + \$10 per acre	20 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper) 1 List of Surrounding Property Owners + 2 Sets of Mailing Labels
Article 5	Variances / Appeals	\$400	8 Copies + 1 Copy (Ledger Paper) 1 List of Surrounding Property Owners + 1 Set of Mailing Labels
Article 14	Preliminary PUD Plans	\$2,500 + \$20 per acre	12 Copies ⁽⁵⁾ + 1 Copy (Ledger Paper) 1 List of Surrounding Property Owners + 2 Sets of Mailing Labels
Article 14	Final PUD Plans	Site Plan Review Fees Apply	Site Plan Review Submittal Requirements Apply
Article 6	Conditional Use / Similar Use	\$250 + applicable site plan fee	15 Copies + 1 Copy Ledger Paper ⁽⁵⁾
Article 3	Zoning Permit	\$250 + \$0.03 per square foot of building area (Village water tap and inspection fee required if utilizing Village Water [proof of payment of County tap fee if utilizing County Water]; Village sewer tap and inspection fee also required)	5 Copies
Article 3	Temporary Use Permit	\$50	5 Copies
Article 3	Certificate of Occupancy	\$50	3 Copies
Ord. No: 2008-14; Permit App.	Flood Hazard Area Development Permit	\$50	3 Copies of Permit Application w/ applicable submittal requirements (stated on Page 2 of 2 of Permit Application + Engineering "No Rise" Certification (if applicable))
	Special Meeting	\$500 + Application Fee, if any ⁽⁶⁾	Depends Upon Type of Application or Meeting Requested

FOOTNOTES TO FEE SCHEDULE

- (1) Infrastructure construction costs include all infrastructure costs associated with a development including, but not limited to, drainage facilities, sanitary sewers, waterlines, grading, excavation, and street improvements.
- (2) Any inspection conducted outside the normal eight-hour workday of Monday through Friday, excluding holidays, 8:00 a.m. until 4:30 p.m., shall be charged at one and a half (1.5) times the standard rate. The Village reserves the right to charge fees in addition to the fees specified in the table above if, due to the applicant's responsibility, excessive review and/or field inspections are necessary, and as determined by the Village Engineer. Such fees for review and field inspection by Village staff shall be charged at the standard rate of forty dollars (\$40) per hour, plus a three-fourths (.75) hour charge for travel time. Any review and inspection completed by consultants on behalf of the Village shall be charged to the applicant at the same rate charged by the consultants. Performance and maintenance bonds will not be released until payment of all fees is received.
- (3) Any review and inspection completed by consultants on behalf of the Village shall be charged to the applicant at the same rate charged by the consultants. The applicant shall pay the difference when consultant fees charged to the Village are in excess of the established Fee Schedule base amounts. Final approvals will be held until all fees charged by consultants are paid-in-full by the applicant.
- (4) The fee for review of a revised application shall be sixty (60) percent of the fee specified for the initial or first review of such application.
- (5) All plans must be folded to fit a legal sized file folder with the title showing in the lower right-hand corner.
- (6) Special meetings that require one or more of the Village's consultants to attend shall require payment of the special meeting fee before the meeting is scheduled. Examples of special meetings include staff meetings and non-scheduled Planning Commission meetings requested by an applicant and/or developer.

1. Complete applications submitted by the deadlines posted above will be processed and placed on the next regularly scheduled Planning Commission meeting.
2. Incomplete applications or applications that do not comply with the minimum Village Zoning Ordinance and/or Subdivision Regulations or applications that are not submitted by the above posted deadlines will not be placed on the next regularly scheduled Planning Commission meeting agenda.
3. The applicant will be notified if his or her application is not accepted for processing. The Village Administrator and/or Zoning Administrator will discuss the reasons why the application was not accepted and the necessary steps required to meet the next meeting deadline.
4. Applicants may request a special Planning Commission meeting. Requests should be made with the Village Administrator at least two weeks in advance of the requested special meeting date. The meeting will be set if approved by the Planning Commission chairperson and if a quorum can be present. A \$500 fee plus applicable application fee must be paid in advance of the meeting (See Fee Schedule and Footnotes to Fee Schedule).
5. Meeting dates are subject to change due to unforeseen scheduling conflicts and holidays. Applicants should call the Village to check meeting dates in advance of the application deadlines.



Location: McDonald's New Build - Rivers Crossing West Rt 48 and 71 South Lebanon

Infrastructure Cost Breakdown

Div 22 Plumbing Site	\$9,450
Div 26 Electrical	\$53,387
Div 31 Earthwork	\$15,750
Div 32 Exterior Improvements	\$297,982
Div 33 Utilities	\$313,710
Total	\$690,279

Staff Report for McDonalds Site Plan

Project Description

McDonalds has submitted a site plan for the property located on Corwin Nixon Blvd, South Lebanon, Ohio. Lot 5 is 1.458 acres in size. They are proposing to build a McDonalds that will be 3,960 sf in size (90 X 44). The restaurant will have two drive-thru stack lanes (as you wrap around the building) on the north side of the building and three drive-up windows on the south side of the building.

Parcel Description

The parcel number is 12023350040 and is located in the Kings School District. This is an existing vacant parcel that was split into 4 lots – this being lot 5 of the River Crossing West Section 2 Subdivision. This parcel is located along the west side of State Route 48 just south of the I-71 ramp.

Zoning

The parcel is zoned B-2 General Business District which allows for general business uses such as the following:

- Animal Hospitals/Kennels;
- Automotive, mobile home, farm implement, sales, service, rental or lease establishments;
- Building and related trades, including sales areas;
- Business or professional offices;
- Car washes;
- Churches and similar places of worship;
- Financial institutions;
- Home furnishings sales/rental/repair;
- Medical clinics;
- Motels and hotels;
- Motion picture theaters, indoor or outdoor printing, copying and publishing establishments;
- **Restaurants;**
- Retail stores including those which sell petroleum products and may do on-site servicing or repair work;
- Service businesses which may do on-site installation or repair work;
- Studios, salons and health clubs;

Existing Requirements B-2 District

- Max height – 35'-0". **Height shown on the plans – 19'-0".**
- Front Yard – 20'-0"; **Front yard 205'-0".**
- Side Yard – 10'-0"; **Side yard 54'-0" on the south, 60'-0" north side.**
- Rear Yard – 20'-0"; **Rear yard 105'-0".**
- Min Lot Size – 8,000 sf; **The lot is 1.458 acres in size (63,515 sf).**
- Frontage – 60'-0". **The lot has 160 feet of frontage on SR48 and 160 feet on the private drive.**

Parking Requirements

- All parking spaces must be at least 162 sf in size. **The spaces measure 9 X 20 = 180 sf.**
- Parking lots can be no closer than 3 feet to the property line. **The parking areas are setback 5'-0" on both sides of the lot and 30'-0" to the east facing SR48.**
- Parking lots can be located in required yards with property screening. **There is screening provided down both sides of the parking lot and along the frontage of SR48.**
- Parking lots must be a hard surface, graded and drained with parking barriers.
- If more than 20 spaces, they must be marked.
- Circulation signage is permitted.
- If the parking lot is lighted, it must be illuminated away from any residential districts. **There are 8 proposed lights surrounding the perimeter of the paved area.**
- 15.12.5; Off-Street Storage Area for Drive-In Services – restaurants with drive-up windows that can serve customers in 3 minutes or less shall provide no less than 3 storage space per window. **There are 15 spaces required. There are one/two areas that can hold approximately 16 cars as it wraps around the building with 3 additional spaces after the drive-up windows.**
- 15.12.7; Required parking spaces – 1 for each 200 sf and 1 for each 2 employees. **51 parking spaces are shown on the plan. The building is 3,960 sf and 20 spaces would be required + parking for employees.**
- 15.12.8; Handicapped parking spaces – 1 space per 25 spaces. **2 spaces are required and there are 3 shown on the plan.**
- 15.12.10; Off-street loading – 1 space is required if the building is over 3,000 sf. plus one additional if over 10,000. **There is one loading space required. Loading space must be 12 wide, 65 feet in length and have a vertical clearance of 14 feet. There is none shown on the plans; however, one could be accommodated between the drive-up**

stack area and the last window near the handicapped parking area.

Signage

- Signs can be illuminated. **There is one monument sign along SR48 shown on the site plan.**
- No flashing lights are permitted.
- Signs must be setback at least 10'-0" from the ROW. **Signs are located outside the ROW and setback 30'-0" from SR48 and 10'-0" from the side yard on the south side of the building.**
- Building signs must be within the wall space.
- Free-standing signs cannot exceed 28'-0" in height in the business district. **There are no free-standing signs.**
- Ground signs cannot exceed 8'-0" in height. **Monument sign proposed will be 11'-7" X 5 and will be an electronic message board. The base cannot exceed 3'-0" in height.**
- Businesses and other permitted uses having street frontage of 100 linear feet or more shall not exceed 150 square feet of sign surface area. **The surface area of the monument sign totals 58 sf. The directional signage totals 12 sf. It is unclear how many feet the ordering boards (4) will be in size around the drive-thru area.**
- Businesses and other permissible uses may include variable message centers on the freestanding sign, provided that running copy is not displayed and maximum flash rate shall not exceed one (1) line in four (4) seconds, or two (2) lines in seven (7) seconds, or three (3) or more lines in ten (10) seconds. **There are 2 electronic message boards shown on the site plan that will be located in the drive-thru areas along with 2 additional menu signs.**
- Building signs: Any business or other permissible uses shall be permitted 1.5 square foot of building sign surface area for each foot or building frontage as measured along the length of the building façade that fronts the principal dedicated street, or the façade that contains the main entrance to the building. For other building frontage, signs may not exceed 75 square feet of sign surface area. **There are 5 building signs shown on these plans that total 108 sf. Total building frontage is 160 lf X 1.5 = 240 sf permitted wall signs.**

Landscaping

- All unpaved areas must be planted with grass, ground cover, trees or shrubs. 5% of the lot must be landscaped – 3,175 sf. **7,010 sf of area will be landscaped with trees and bushes and the remaining areas outside of the parking areas will be lawn.**

- 15.17.5; All parking lots must be screened and the screen must be 10'-0" wide with a 30" continuous screen planting or decorative wall. There must be 1 deciduous tree per 30 lineal feet. There is 230 linear feet by 6'-0" area along the parking lot side of the lot (south) shown on the plans for landscaping. **8 trees are needed with a continuous screen – 8 trees (Sweet Gum and Honey Locust) and 38 shrubs that are shown along the south side of the parking lot. There are 15 total trees and 40 shrubs shown on the north side with roughly the same length of parking lot. The width of the screening is 4'-0" less than required.**
- 15.17.8; Commercial landscaping adjacent to the ROW. Arterials "A" – 20'-0" width, 30" high – must contain 1 tree and 6 shrubs for every 30 lineal feet of frontage. **6 trees and 36 shrubs are required along State Route 48 – 8 trees are shown with 33 bushes across State Route 48 but they are located along the sides of the parking areas and not along the entire frontage.**
- Dumpsters must be screened and must be located in the side or rear yard with 6'-0" tall screen. **Site plan indicates that the dumpster is located in the front yard and is screened on all 3 sides with a gate.**
- 1 deciduous shade tree is required for every 300 sf of required interior parking lot landscaping area. 1 tree shall be planted and included in each landscaping island and 1 shrub shall be provided for every 250 sf of required interior landscaping area. **There are 3 trees and 23 shrubs shown next to the building. The island between the stack lane/order areas is planted with 9 bushes.**

Items to Consider

- Sidewalks along State Route 48 for pedestrian safety and a crosswalk at the light.
- Cross access easements for access on the private drive and a maintenance document that determines who pays for maintenance.
- It is recommended that all lots share one large sign for the lots being developed or have the same size signage along State Route 48 for uniformity.
- It is recommended that all lots (businesses) along SR48 have similar landscaping features so that it draws your eye to the buildings and there is a uniformity along SR48 that is unique to South Lebanon.



Date

March 23, 2020

Attention

Jerry Haddix
Village Administrator

Address

Village of South Lebanon
99 High Street
South Lebanon, OH 45065

Subject

Summary of Review #1 Rivers Crossing West – McDonald's
South Lebanon, Ohio

Dear Mr. Haddix:

Enclosed is a summary of our review of the McDonald's Site Plan.

Site Plan

1. Loading space will subtract 8 parking spaces. Clarify when loading space will be in use.

Utility Plan

1. It appears there is a typo on the proposed 4" sanitary sewer lateral. 695.50 would put it 26' above the building elevation.
2. Show 100-year overland flood routing on this sheet or on grading plan.

SWPPP

1. Site disturbance is over 1 acre. Provide Village copy of approved NOI.
2. Standalone SWPPP is required. Erosion control notes/details on site plan/grading plan are not acceptable.

Lighting Plan

1. Foot-candles at adjacent property lines exceed allowable limits. Per Section 15.18.21.14 of Village zoning code, exterior lighting shall be decided so that it is deflected away from adjoining properties.

Storm Sewer

1. Storm pipes are to have a minimum inside diameter of 12" (not including downspout lines). Pipes from structure 5 and 7 need upsized from 8" to 12"
2. UG Detention callout lists 100-yr elevation at 662.06, where it should be 666.06.
3. Has an MR505 been obtained from ODOT for the outlet of the storm system into SR 48 R/W and the grading modifications?

Thank you for the opportunity to review the plans and suggest our comments.

Sincerely,

Nicholas J. Selhorst, P.E.

West Central Ohio
440 E. Hoewisher Rd.
Sidney, OH 45365
937.497.0200 Phone

S. Ohio/N. Kentucky
203 W. Loveland Ave.
Loveland, OH 45140
513.239.8554 Phone

Eastern Indiana
607 N. Meridian St.
Portland, IN 47371
260.766.2500 Phone



McDONALD'S USA, LLC

L/C# 34-2068

RIVERS CROSSING WEST VILLAGE OF SOUTH LEBANON WARREN COUNTY, OHIO



VICINITY MAP - NTS

SITE SUMMARY

BOUNDARY AND TOPOGRAPHIC INFORMATION ARE BASED ON FIELD SURVEY PERFORMED BY BAYER BECKER 9-16-19.

LOT ACREAGE: 43720 SF (1.0037 ACRES)

EXISTING ZONING: "B-2" (General Business)

MINIMUM LOT AREA: 8,000 S.F.

MINIMUM LOT FRONTAGE: 60'

MINIMUM FRONT YARD DEPTH: 20'

SIDE YARD DEPTH: 10'

MINIMUM REAR YARD DEPTH: 20'

MAXIMUM BUILDING HEIGHT: 35'

PRIVATE ACCESS DRIVE TO BE BUILT AT 29' WIDE B/C TO B/C

LANDSCAPE AREA REQUIRED: 5% OF TOTAL LOT AREA = 2,186 SF

1 TREE PER 400 SF OF REQUIRED

1 SHRUB PER 250 SF OF REQUIRED

LANDSCAPING ADJACENT TO SR 48 RIGHT OF WAY MAY REQUIRE A 30' WIDE SCREEN BUFFER, 3' HIGH, WITH 1 TREE AND 6 SHRUBS EVERY 30' ALONG FRONTAGE.

PROPOSED USE: FAST FOOD RESTAURANT WITH DRIVE THRU

PROPOSED SITE:
GROSS FLOOR AREA: 4073 SQUARE FEET

PARKING CALCULATIONS:

PARKING SETBACKS:
FRONT: 3' REAR: 3'
LEFT: 0' RIGHT: 0'

PROVIDED PARKING = 51 SPACES (INCLUDING 3 ACCESSIBLE)

REQUIRED ACCESSIBLE SPACES FOR 51 TO 75 TOTAL SPACES = 3 SPACES

UTILITY COMPANIES

Gas
Duke Energy
Contact: Tony Giska
Tony.Giska@duke-energy.com
5445 Audio Drive
Cincinnati, OH 45247
513-287-4667

Sanitary Sewer
Village of South Lebanon
Contact: Jerry Haddix
10 N High Street
South Lebanon, OH 45065
513-770-4871

Water Main
Village of South Lebanon
99 High Street
South Lebanon, OH 45065
513-4942296

Storm
Village of South Lebanon
99 High Street
South Lebanon, OH 45065
513-4942296

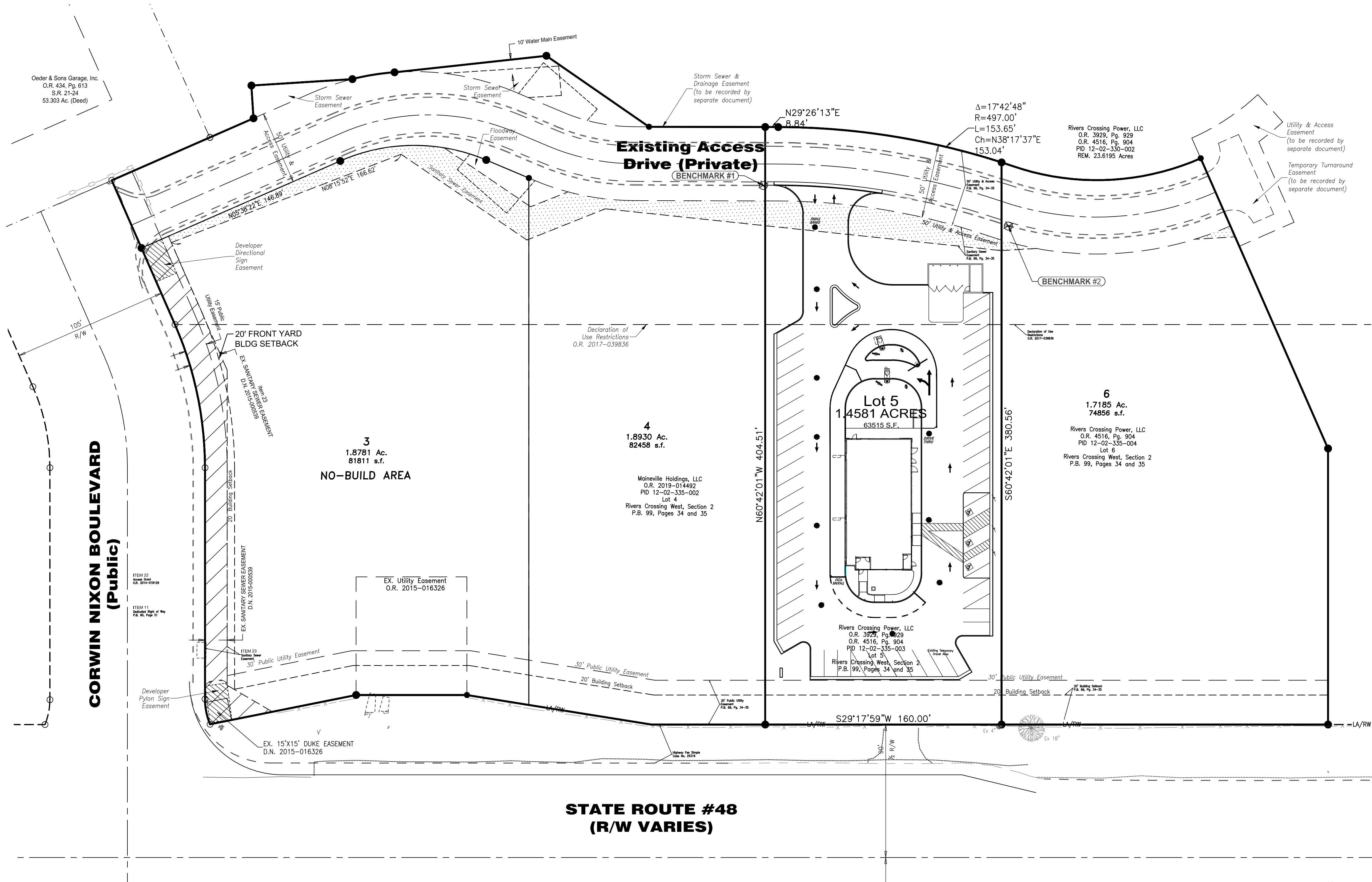
Electric
Duke Energy
Contact: Greg Finley
Gregory.Finley@duke-energy.com
5445 Audio Drive
Cincinnati, OH 45247
513-287-1104

Telephone
AT&T
3233 Woodman Drive
Dayton, OH 45420
937-296-7066

Cable TV
Time Warner Cable
11254 Cornell Park Drive
Cincinnati, OH 45242
513-489-5957

SHEET INDEX

C1.0	TITLE SHEET
C2.0	DEMOLITION PLAN
C3.0	SITE PLAN
C3.1	SITE DETAILS
C3.2	SITE DETAILS
C3.3	DRIVE THRU DETAILS
C4.0	UTILITY PLAN
C4.1	UTILITY DETAILS
C4.2	UTILITY DETAILS
C5.0	GRADING PLAN
C5.1	EROSION DETAILS
L1.0	PLANTING PLAN
L2.0	PLANTING NOTES & DETAILS



CIVIL ENGINEER, SURVEYOR & LANDSCAPE ARCHITECTURE

BAYER BECKER
6900 TYLERSVILLE ROAD, SUITE A
MASON, OHIO 45040
513-336-6600

OWNER

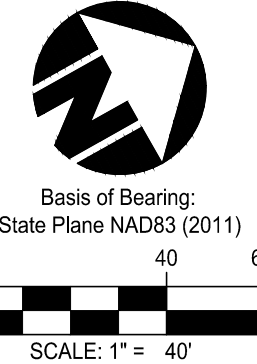
McDONALD'S CORPORATION
2 EASTON OVAL, SUITE 200
COLUMBUS, OHIO 43219

BENCHMARK #1

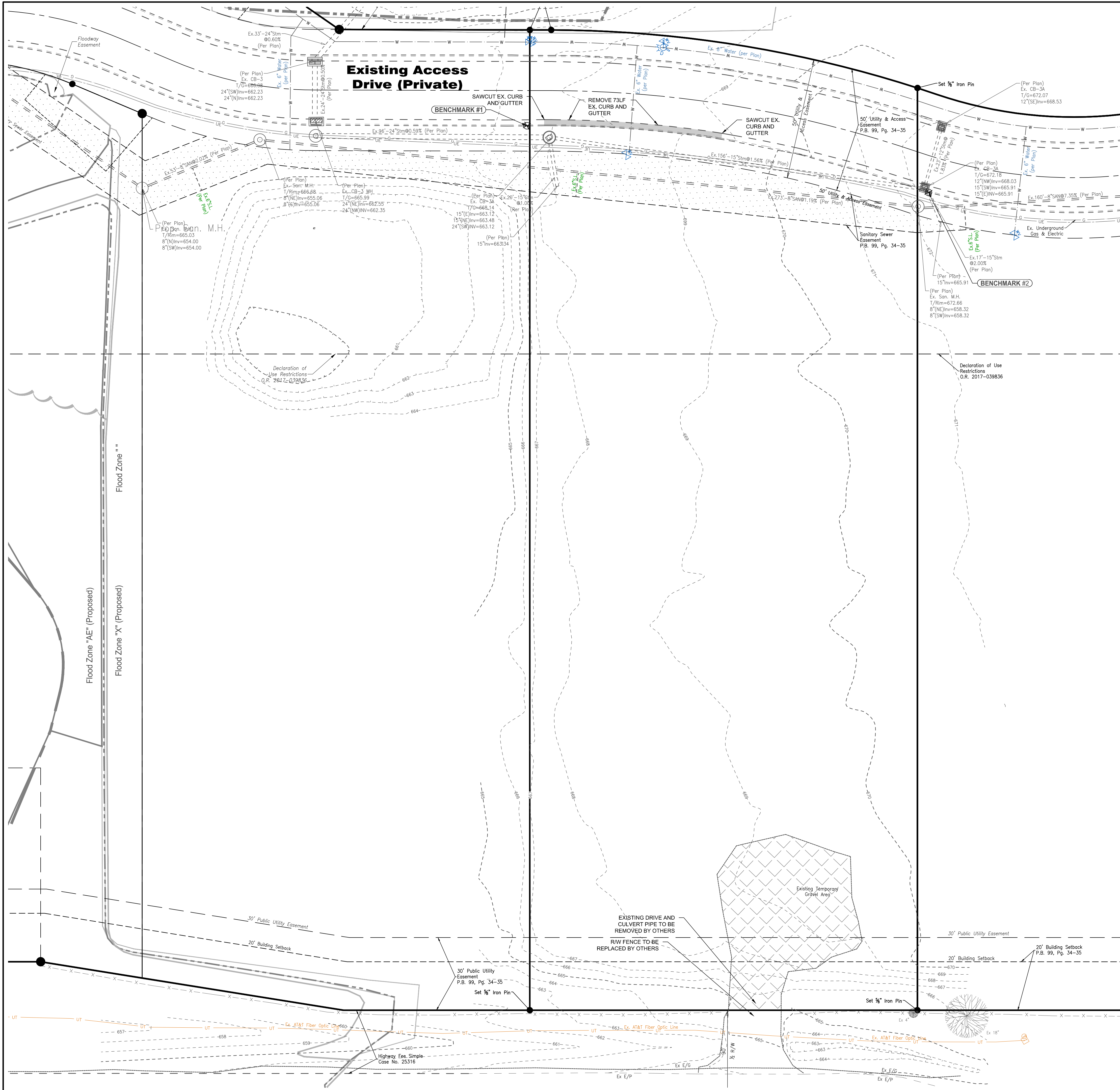
A cross notch located along the back of existing curb on the east side of the existing private access drive, 10.4' southwest of an existing storm manhole and 42.8' southwest of an existing water valve.
Elevation=667.81

BENCHMARK #2

A cross notch located along the back of existing curb on the east side of the existing private access drive, 2.3' north of the center of an existing catch basin and 7.3' northwest of an existing sanitary manhole.
Elevation=672.88



Plot time: Mar 12, 2020 - 4:58pm - Login Name: gregloch
Drawing name: J:\2019\19-0175\CV DWG\19-0175 CD.dwg - Layout Tab: CD'S



DEMOLITION LEGEND

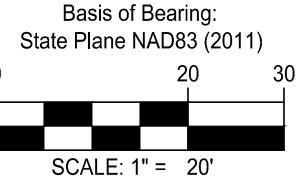
- EXISTING CONCRETE CURB, CONCRETE WALK, CONCRETE PAVEMENT, AND ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED BY OTHERS

LEGEND

- Ex Sanitary M.H.
- Ex Sanitary Clean Out
- Ex Storm M.H.
- Ex Storm Catch Basin
- Ex Storm Floor Drain
- Ex Storm Clean Out
- Ex Storm Down Spout
- Ex Fire Hydrant
- Ex Water Valve
- Ex Water Meter
- Ex Fire Connection
- Ex Spigot
- Ex Deciduous Tree
- Ex Evergreen Tree
- Found Iron Pipe
- Found MAG Spike
- Found P.K. Nail
- Found Conc. Mon.
- Found Stone
- Found Man. Box
- Found Axel
- Ex Tele. Box
- Ex Gas Box
- Ex Gas Meter
- Ex Sign
- Ex Post
- Ex Flag Pole
- Ex Signal Pole
- Ex Elec. Box
- Ex Elec. Meter
- Ex Light Pole
- Ex Utility Pole
- Ex Guy Wire
- Ex Deciduous Bush
- Set Spike
- Set Cross Notch
- Set Conc. Mon.
- Set 1" Iron Pin
- Set MAG Spike
- Set Benchmark

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL NECESSARY PERMITS/APPROVALS ARE IN PLACE BEFORE BEGINNING CONSTRUCTION.
- LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, THROUGHOUT ALL PHASES OF CONSTRUCTION.
- SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING FROM THE SITE ALL ITEMS SHOWN TO BE DEMOLISHED UNLESS OTHERWISE INDICATED OR NOTED. ALL MATERIALS SHALL BE REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE DEMOLISHED SHALL REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
- THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS, AND SIDEWALKS AT NEW PAVEMENT, CURB, AND SIDEWALK JUNCTURES. NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED.
- ALL NECESSARY EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO CONSTRUCTION/DEMOLITION. EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND IN WORKING CONDITION AT ALL TIMES.



Know what's below.
Call before you dig.

CAUTION!!!
ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

BY	DESCRIPTION	DATE	REV
G/K <td>REVISE UNDERGROUND DETENTION & UTILITIES<td>03-12-20<td>1</td></td></td>	REVISE UNDERGROUND DETENTION & UTILITIES <td>03-12-20<td>1</td></td>	03-12-20 <td>1</td>	1

L/C# 34-2068

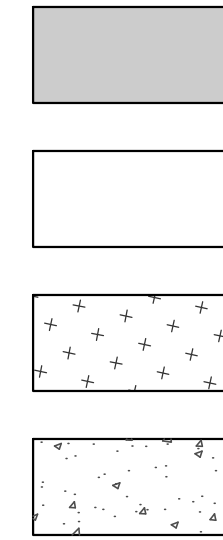
McDonald's
THESE ARE AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

PROPOSED McDONALD'S RESTAURANT AT:
RIVERS CROSSING WEST
VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OH

JOB NO. 19-0175
DATE: 12/5/19
SCALE: 1"=20'
DEMOLITION PLAN
SHEET: C2.0



LEGEND



PROPOSED LIGHT DUTY ASPHALT PAVEMENT

PROPOSED HEAVY DUTY ASPHALT PAVEMENT

PROPOSED CONCRETE PAVEMENT

PROPOSED CONCRETE SIDEWALK

PARKING COUNT

PROPOSED SITE LIGHTING

KEY NOTES

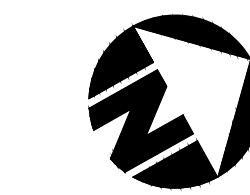
- 1 PROPOSED ADA PARKING
(PAINTED HANDICAP SYMBOL)
- 2 DIRECTIONAL ARROW (WHITE)
- 3 DRIVE THRU PAVEMENT
MARKINGS (YELLOW)
- 4 PROPOSED PARKING, 4' WIDE SOLID
WHITE STRIPE, TYP.
- 5 4" PAINTED WHITE STRIPE
- 6 PROPOSED 6" CONCRETE CURB
- 7 PROPOSED 6" CURB & SIDEWALK
- 8 "THANK YOU" (YELLOW)
- 9 6" PAINTED YELLOW STRIPE
- 10 12" PAINTED WHITE STRIPE

SITE LAYOUT NOTES

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS," AND PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT STANDARD APPLIES.
3. WHERE CONNECTING TO EXISTING ASPHALT PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING EDGE OF PAVEMENT TO PROVIDE A CLEAN EDGE. ITEM 407 TACK COAT SHALL BE APPLIED TO THE ENTIRE CUT FACE OF THE EXISTING PAVEMENT PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT.
4. WHERE CONNECTING TO EXISTING CONCRETE WALK, THE CONTRACTOR SHALL SAWCUT THE EXISTING WALK AT AN EXISTING JOINT IF POSSIBLE, TO PROVIDE A SOUND & CLEAN EDGE. ADDITIONAL PAVEMENT/CURB WORK DUE TO EXTENTS OF DEMO OR REWORK SHALL BE INCLUDED AS PART OF THE CONTRACTORS SCOPE OF WORK.
6. ALL CURB RAMPS TO HAVE DETECTABLE WARNING SURFACE THAT MEETS ODOT'S APPROVED PRODUCTS LIST (APL) SURFACE APPLIED, STAMPED AND BRICK PRODUCTS ARE NOT PERMITTED.
7. ALL STOP SIGNS SHALL BE 30"x30".
8. ALL RADI ARE 3:00' UNLESS NOTED OTHERWISE ON THE PLANS.
9. SEE SHEET C3.1 FOR PAVEMENT SECTIONS.

SITE QUANTITIES

DEPRESSED CURB DRIVE APRON @ ENTRANCE	73 LF
6" CURB (ODOT TYPE 6)	776 LF
2' CONC. CURB	561 LF
1'-6" ROLL CURB	69 LF
HEAVY DUTY PAVEMENT	1891 SY
LIGHT DUTY PAVEMENT	989 SY
CONCRETE PAVEMENT (DRIVE THRU & ISLAND)	376 SY
ADA CONCRETE PAVEMENT	115 SY
TRASH ENCLOSURE PAD	109 SY
CONCRETE WALK	1252 SF



Basis of Bearing:
State Plane NAD83 (2011)

0 20

SCALE: 1" = 20'



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REV	DATE	DESCRIPTION	BY
1	02-14-20	REVISE PER SOUTH LEBANON COMMENTS	GJK
2	03-12-20	REVISE UNDERGROUND DETENTION & UTILITIES	GJK



www.bayerbecker.com
6900 Tylersville Road, Suite A
Mason, OH 45040 - 513.336.6600

L/C# 34-2068

McDonald's®

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

PROPOSED McDONALD'S RESTAURANT AT:

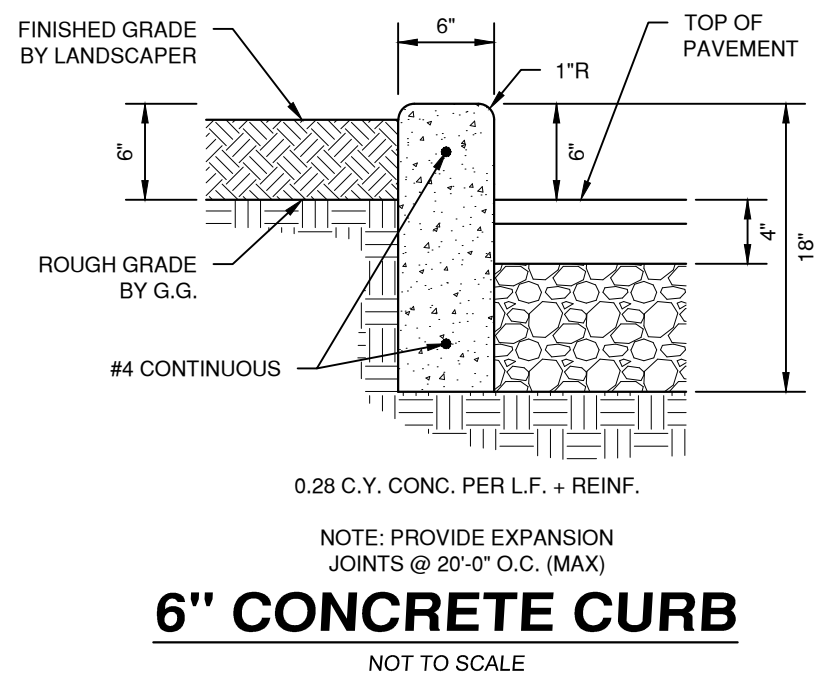
JOB NO. 19-0175

DATE: 12/5/19

SCALE: 1"=20'

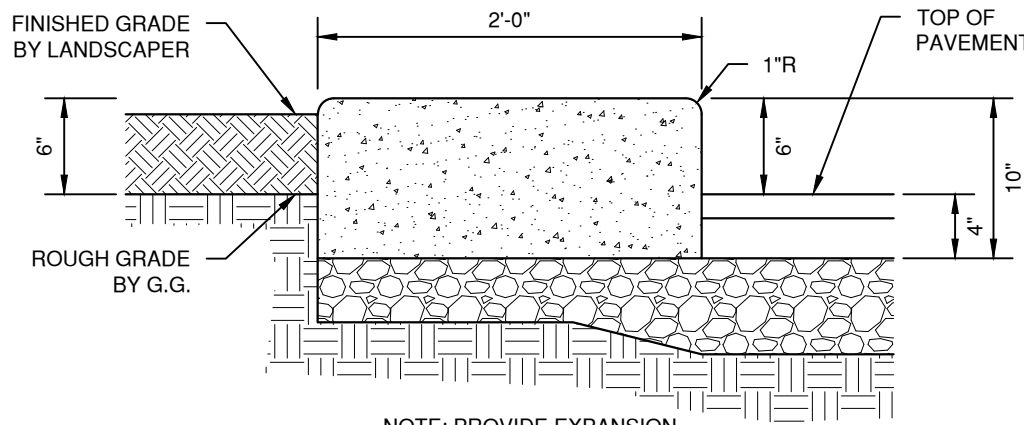
SITE PLAN

SHEET: C3.0



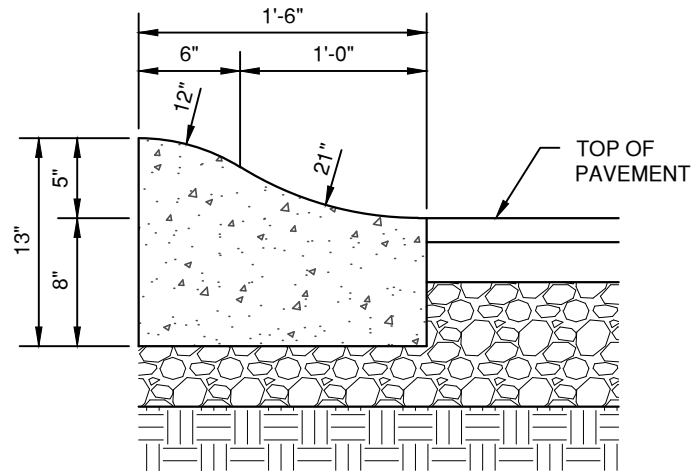
6" CONCRETE CURB

NOT TO SCALE



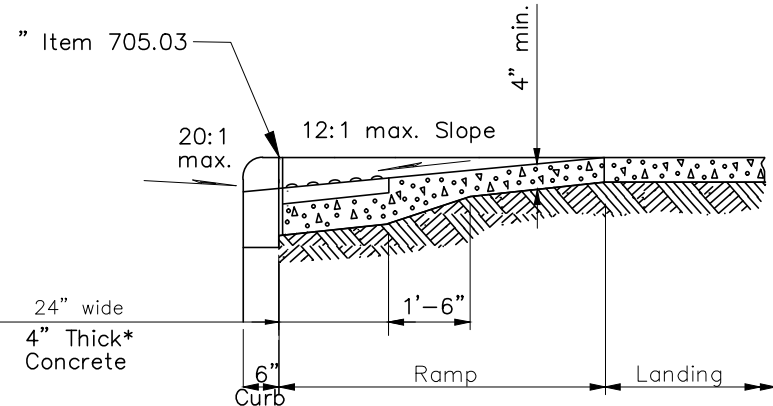
24" CONCRETE CURB

NOT TO SCALE

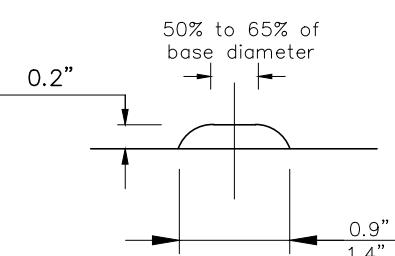


1'-6" CONCRETE ROLL CURB

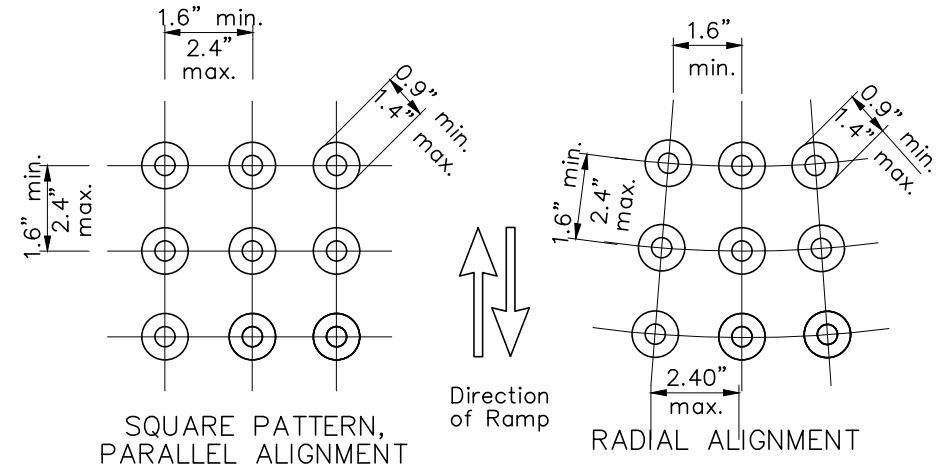
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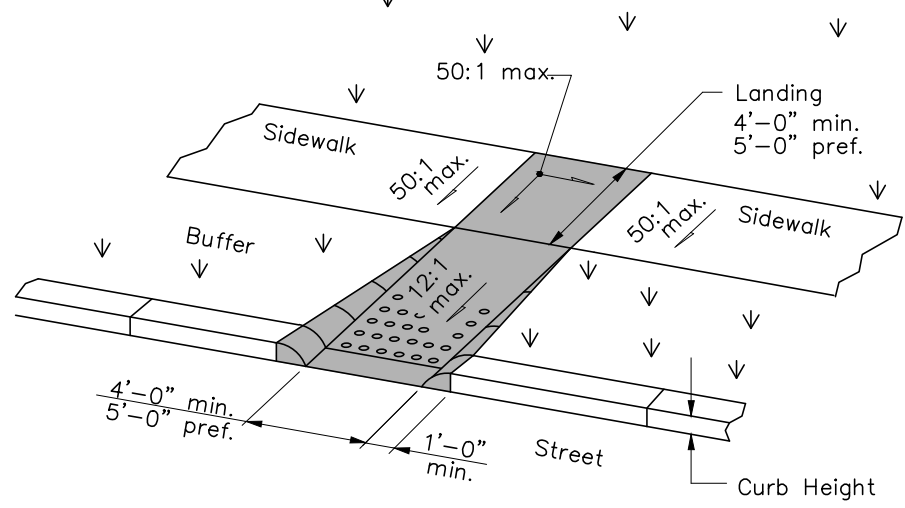
SECTION A-A
NORMAL DETAIL



HEIGHT AND DIAMETER



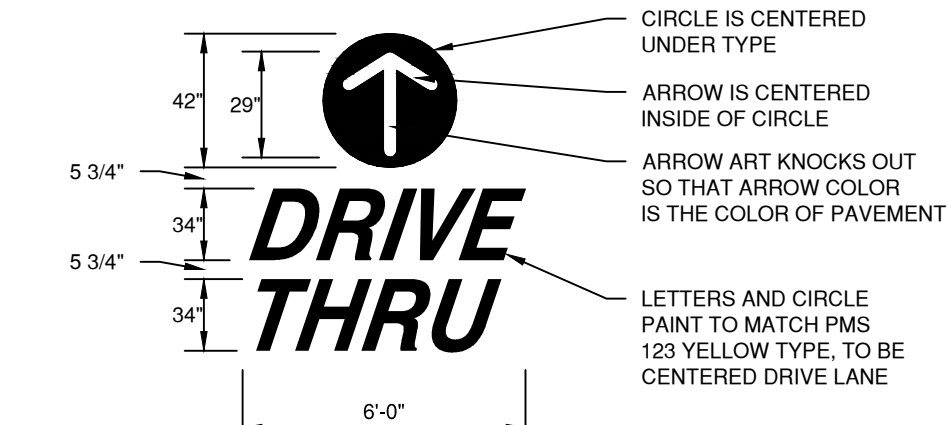
TRUNCATED DOMES DETAILS



Type A2 (Perpendicular with returned curb)

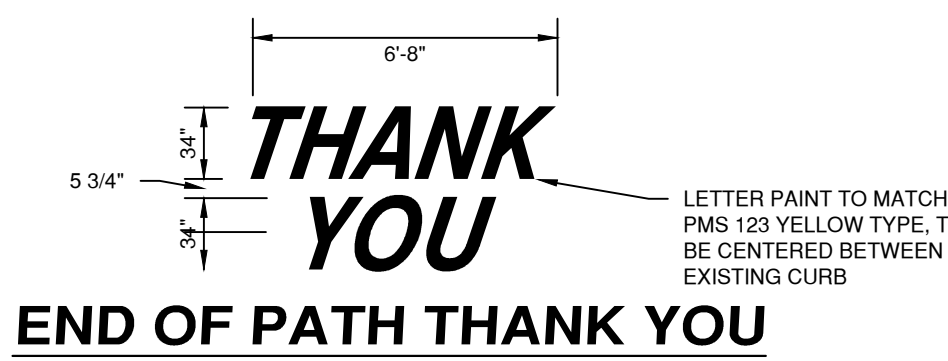
PERPENDICULAR CURB
RAMP DETAILS

NOT TO SCALE



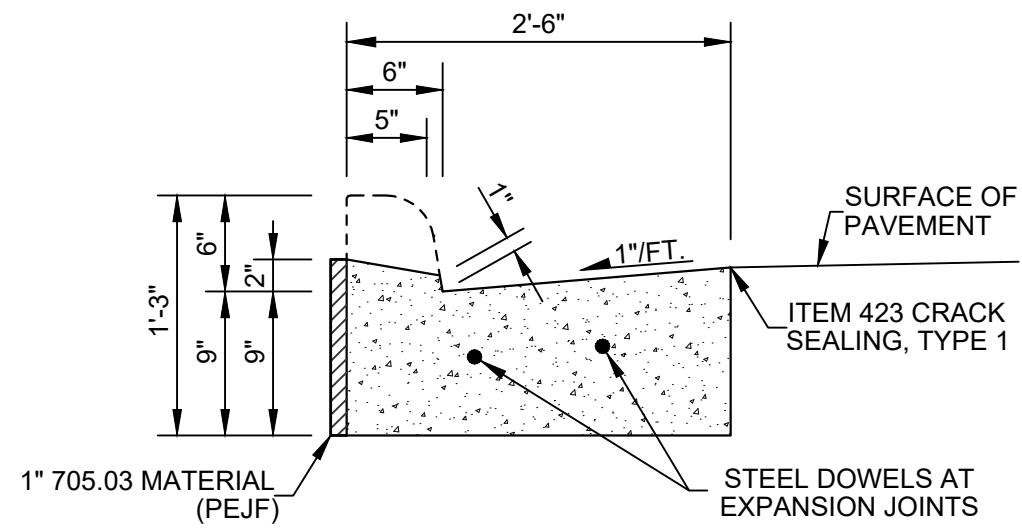
DRIVE THRU WITH ARROW

NOT TO SCALE



END OF PATH THANK YOU

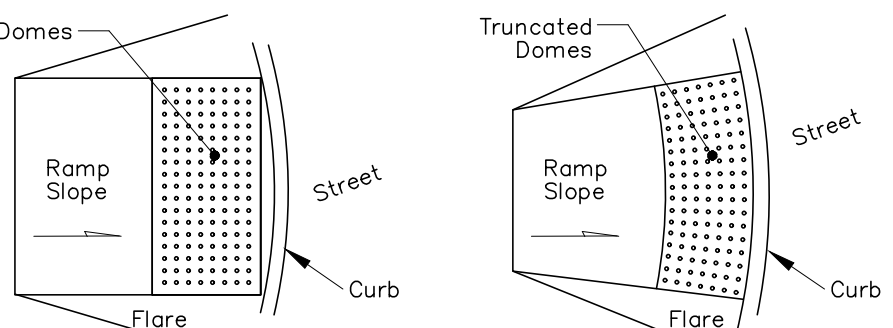
NOT TO SCALE



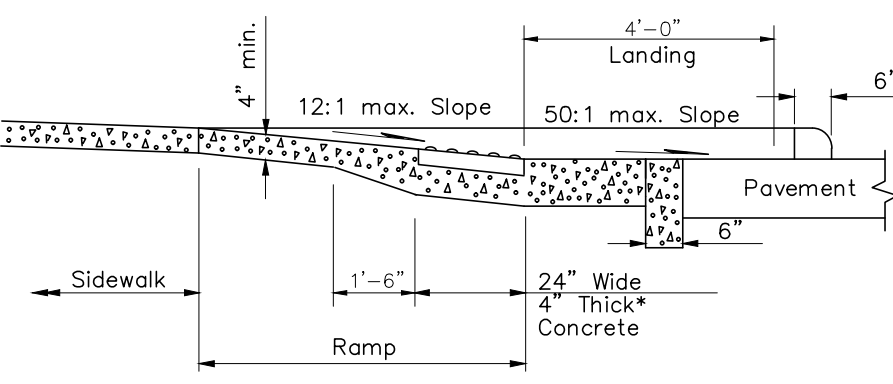
DEPRESSED 30" WIDE CURB DETAIL

NOT TO SCALE

NOTE:
TRANSITION FROM STANDARD CURB SECTION TO BE
MADE 18" FROM THE BEGINNING AND END OF THE
DEPRESSED CURB LOCATIONS MARKED ON THE PLAN.

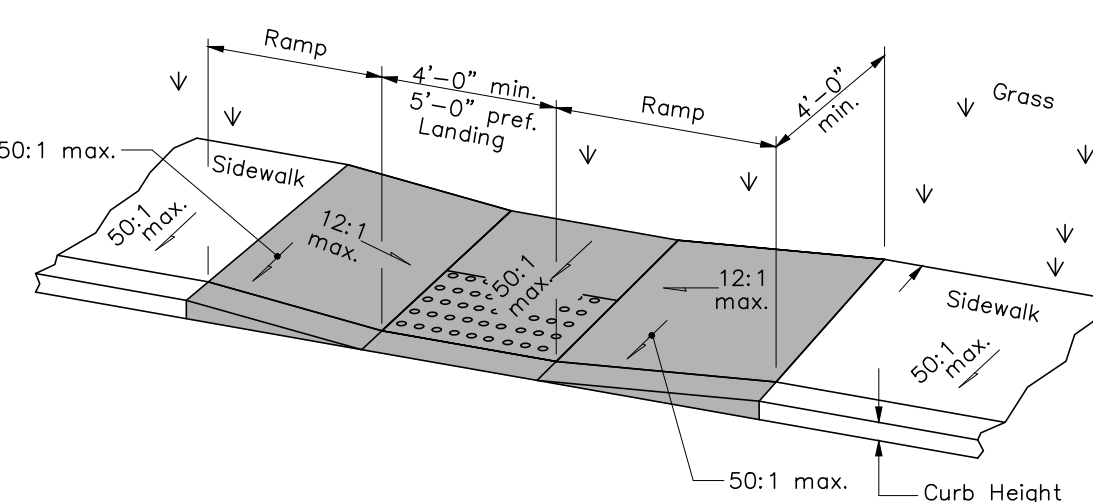


HOME ALIGNMENT ON RADIUS CURB



SECTION D-D

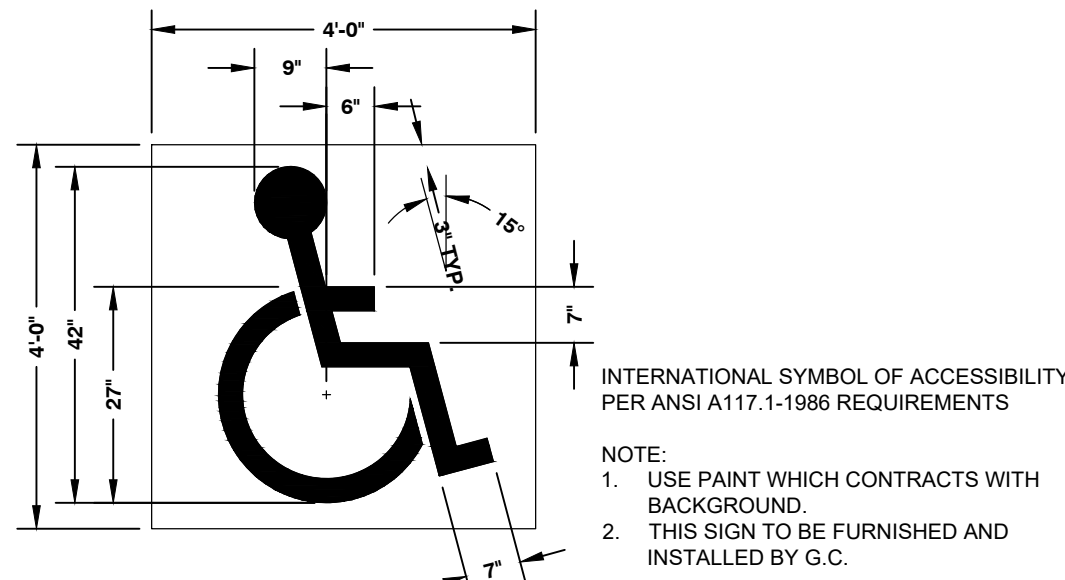
*Where possible, pour ramp area integral with the curb, otherwise use 6 inch thick walk.



Type B2 (Double sided Parallel)

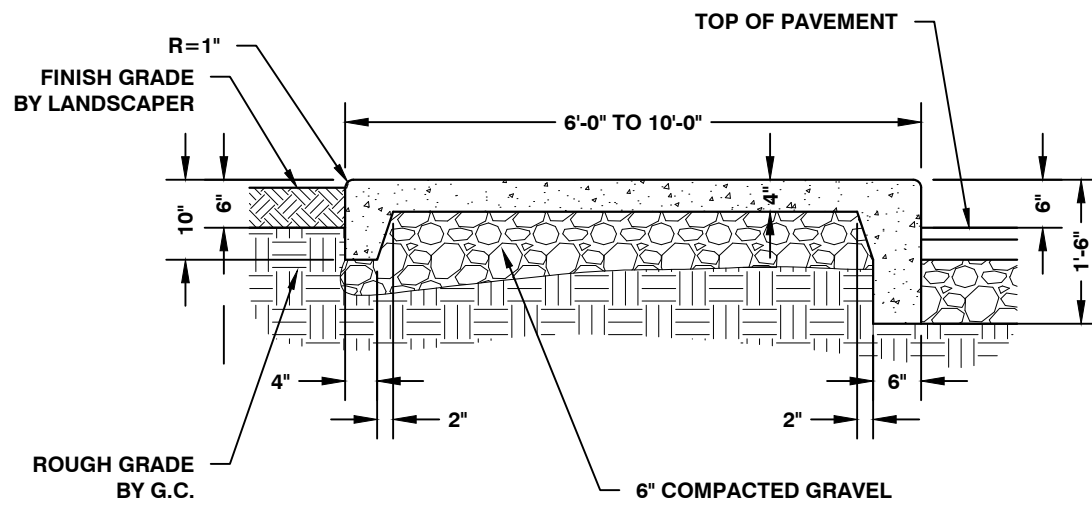
PARALLEL CURB
RAMP DETAILS

NOT TO SCALE



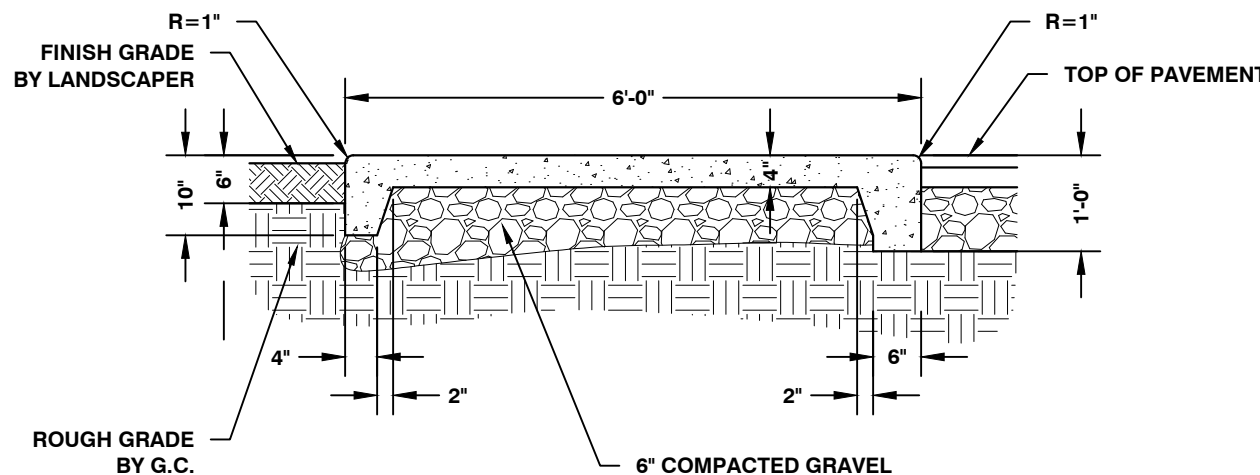
PAINTED HANDICAP
PARKING SYMBOL

NOT TO SCALE



CONCRETE WALK & CURB DETAIL

NOT TO SCALE



FLUSH WALK & CURB DETAIL

NOT TO SCALE

CURB RAMP NOTES

DRAINAGE: Contractor is to ensure the base of each constructed curb ramp allows for proper drainage, without exceeding allowable cross slope or ramp slopes. Vertical change in level exceeding 4" between the 1) pavement and gutter, and 2) gutter and ramp, are not allowed. See C7.0-C7.4 for Intersection Details.

SURFACE TEXTURE: Texture concrete surfaces by coarse brooming transverse to the ramp slopes to be rougher than the adjacent walk.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

DETECTABLE WARNINGS NOTES

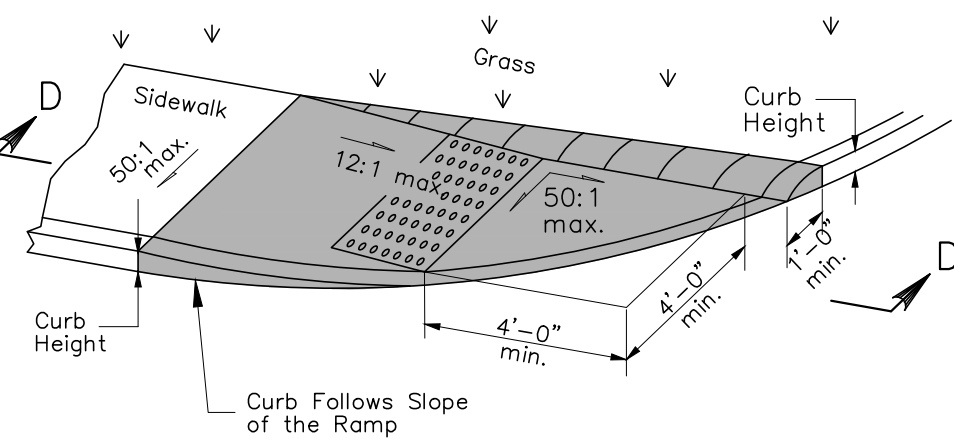
GENERAL: Detectable Warnings are a distinctive surface pattern of truncated domes which are detectable by cane or underfoot to alert people with vision impairments of their approach to streets and hazardous drop-offs.

PLACEMENT: Detectable warnings are to be installed at any location where pedestrians might cross paths with vehicular traffic lanes, such as the base of curb ramps or at blended curbs. A 24" strip of domes is to be installed for the full width of the ramp or walk. See plan locations of curb ramps.

The depth of concrete underneath detectable warning products shall be a minimum of 4". See SECTION A.

ALIGNMENT: Truncated domes should be aligned with the primary direction of the ramp as shown on the DETECTABLE WARNING ALIGNMENT Detail. Normally the detectable warnings should be flush with the back of the curb, but in skewed conditions at least one corner of the 24" strip should be adjacent to the back of curb. For non-standard layouts, detectable warning materials may have to be mitered and placed segmentally.

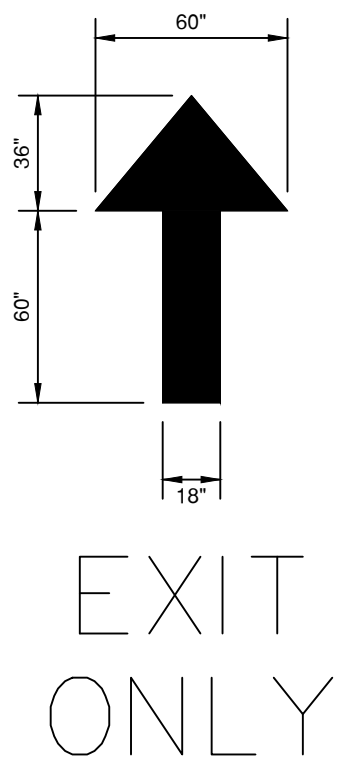
PRODUCTS & COLORS: Color of the detectable warnings should contrast with surrounding concrete walk and ramp. Black is not an acceptable color. Contractor to submit Armor-Tile Detectable/Tactile Warning Surface Cast In Place Tile or approved equal cut sheets for color selection approval to Owner. Install as per manufacturer's printed instructions.



Type B3 (Single sided Parallel)

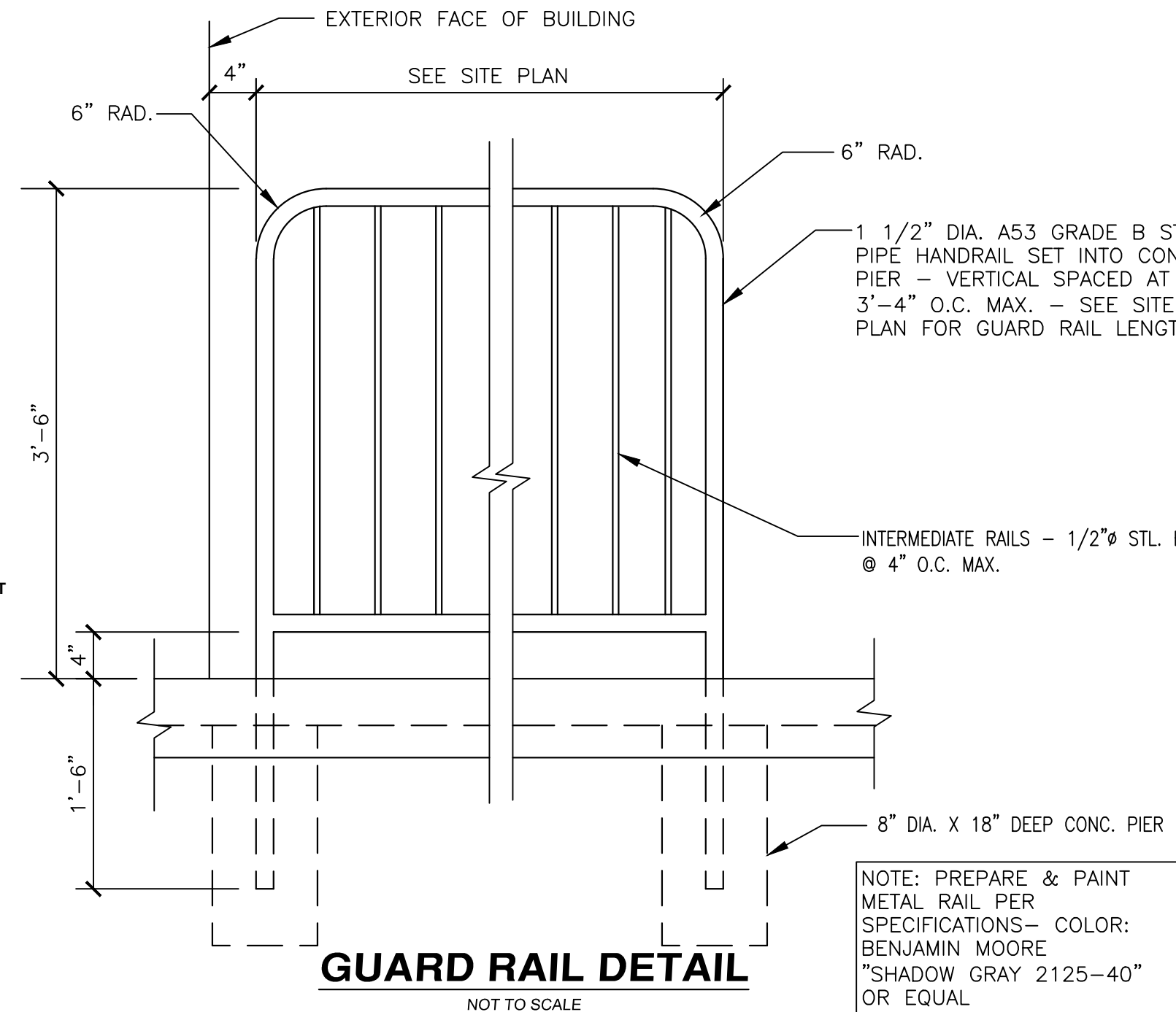
PARALLEL CURB
RAMP DETAILS

NOT TO SCALE



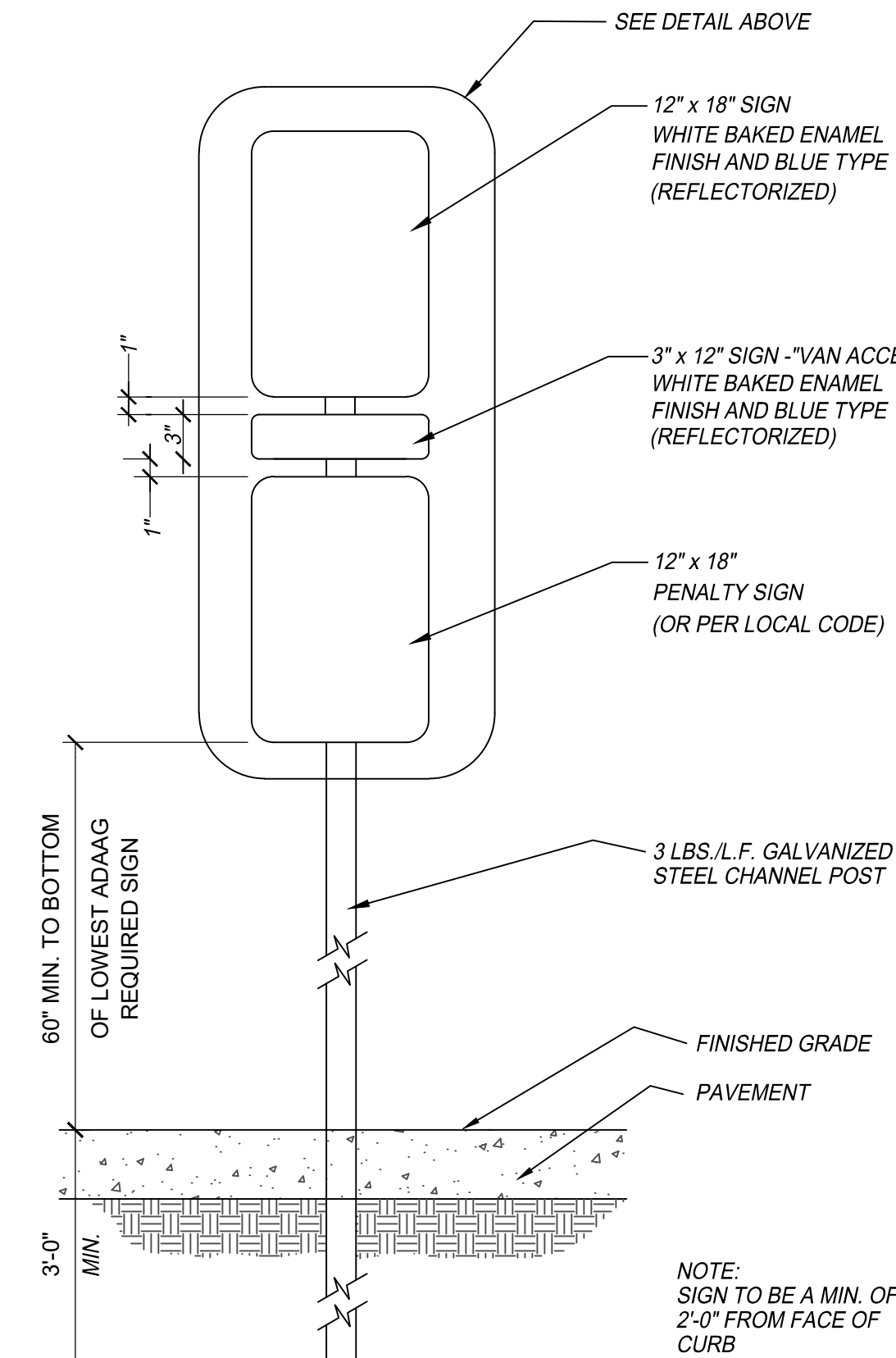
LANE ARROWS

NOT TO SCALE



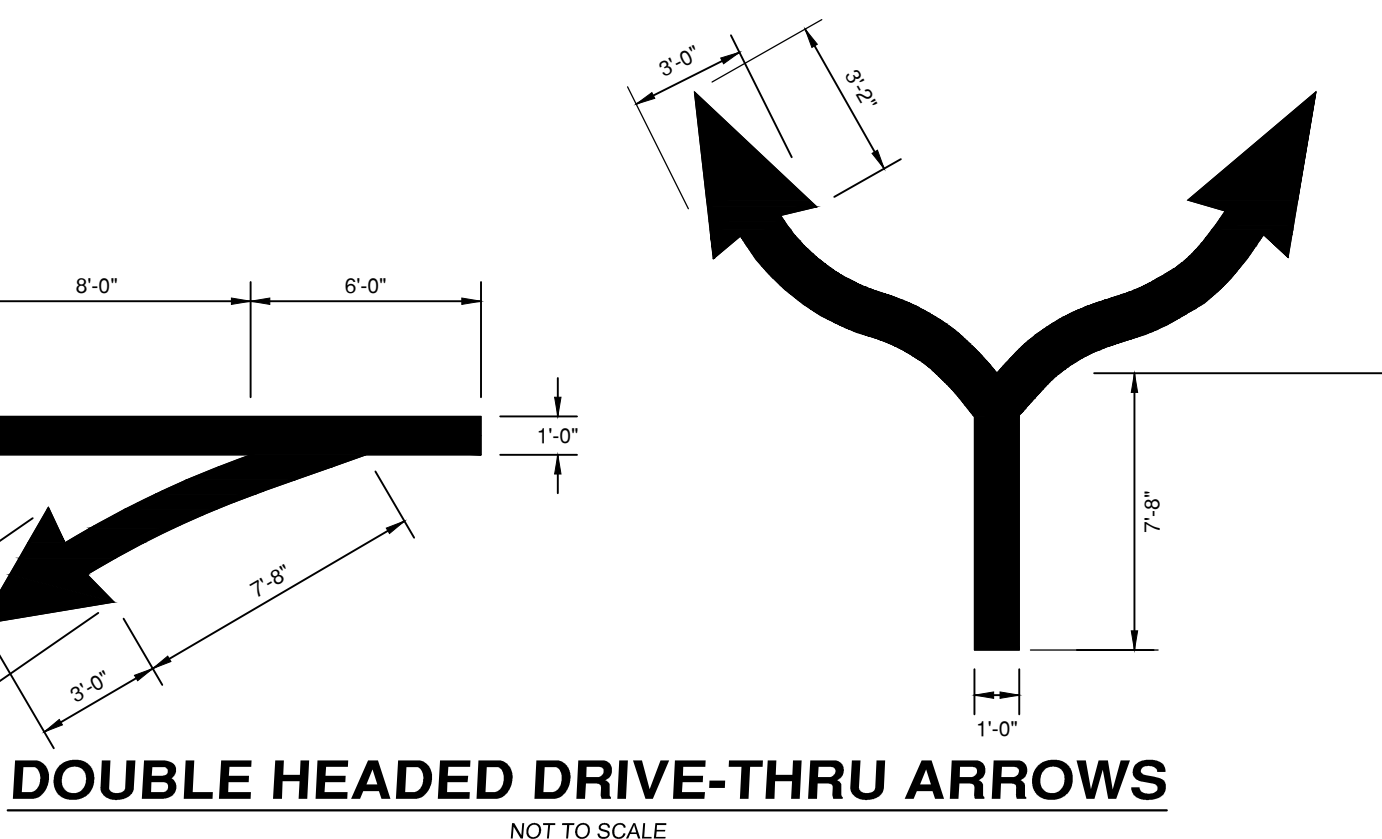
GUARD RAIL DETAIL

NOT TO SCALE



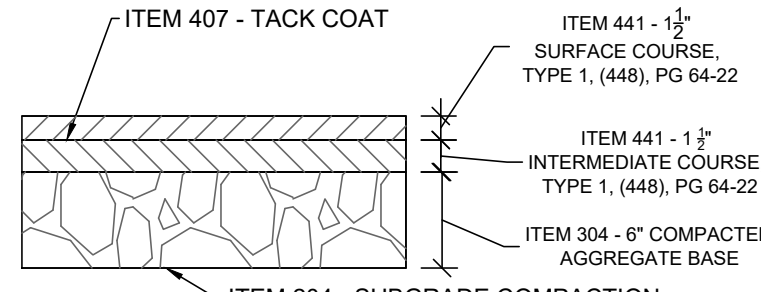
ACCESSIBLE PARKING SIGN

NOT TO SCALE



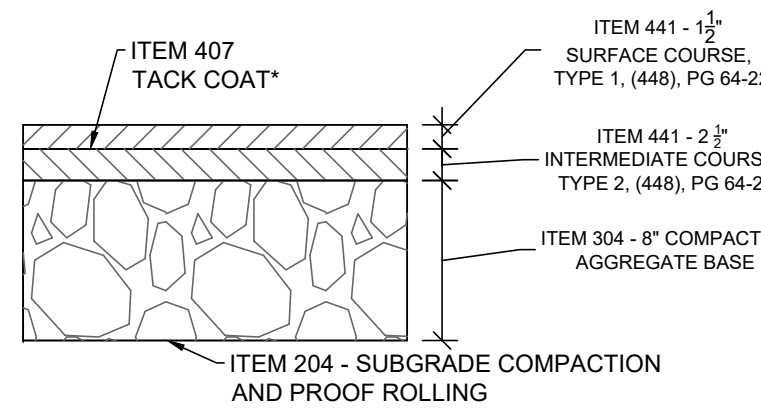
DOUBLE HEADED DRIVE-THRU ARROWS

NOT TO SCALE



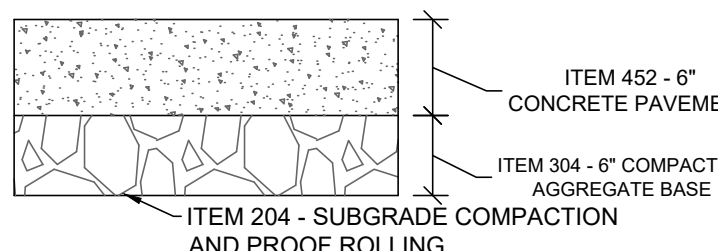
LIGHT DUTY ASPHALT

* ITEM 407 - TACK COAT TO BE PLACED BETWEEN ASPHALT LAYERS WHEN PAVEMENT HAS BEEN SUBJECTED TO TRAFFIC BEFORE UPPER LAYERS OF ASPHALT ARE PLACED. APPLICATION RATE TO BE A MINIMUM OF 0.100 GAL/SQ YD.

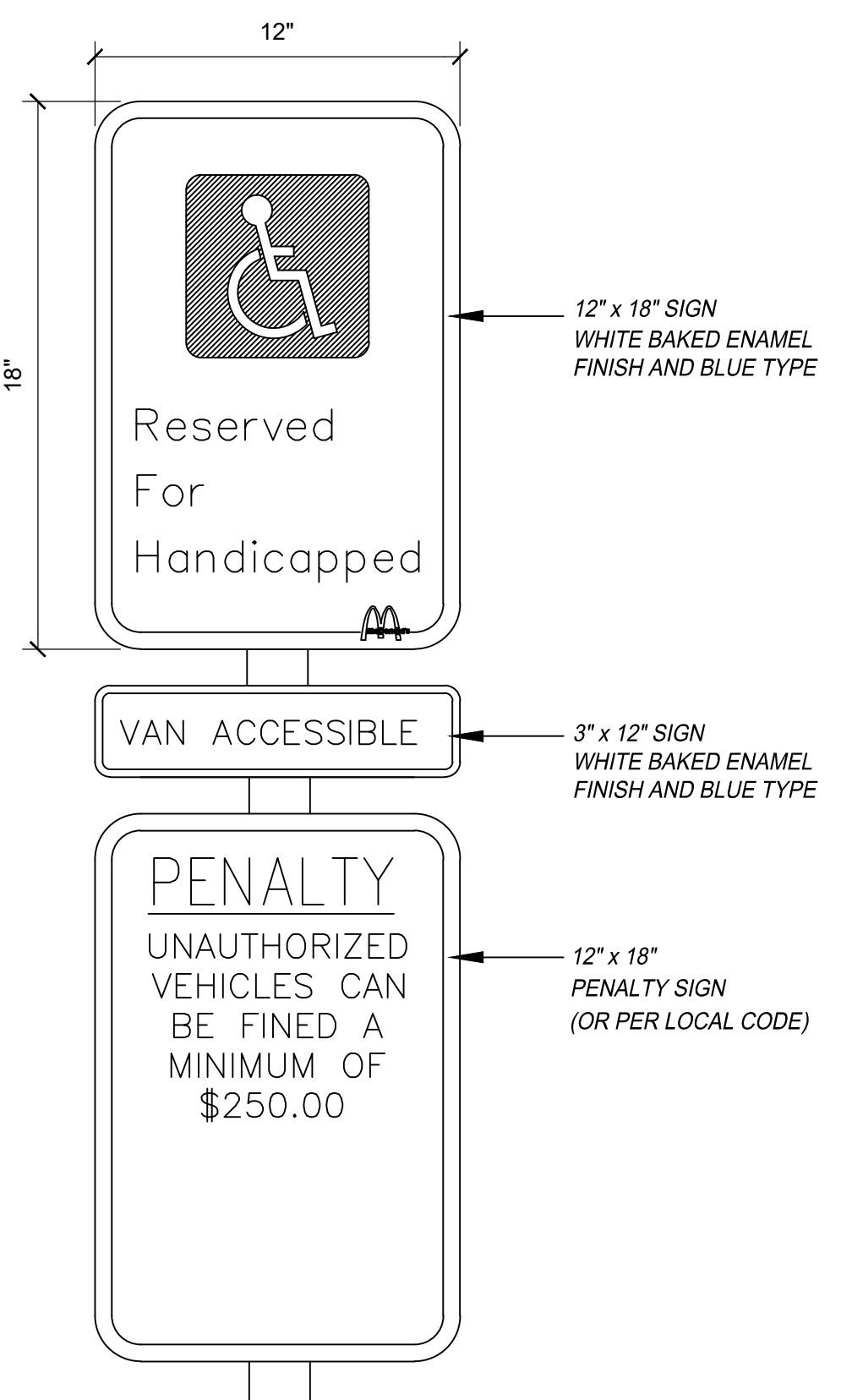


HEAVY DUTY ASPHALT

* ITEM 407 - TACK COAT TO BE PLACED BETWEEN ASPHALT LAYERS WHEN PAVEMENT HAS BEEN SUBJECTED TO TRAFFIC BEFORE UPPER LAYERS OF ASPHALT ARE PLACED. APPLICATION RATE TO BE A MINIMUM OF 0.100 GAL/SQ YD.



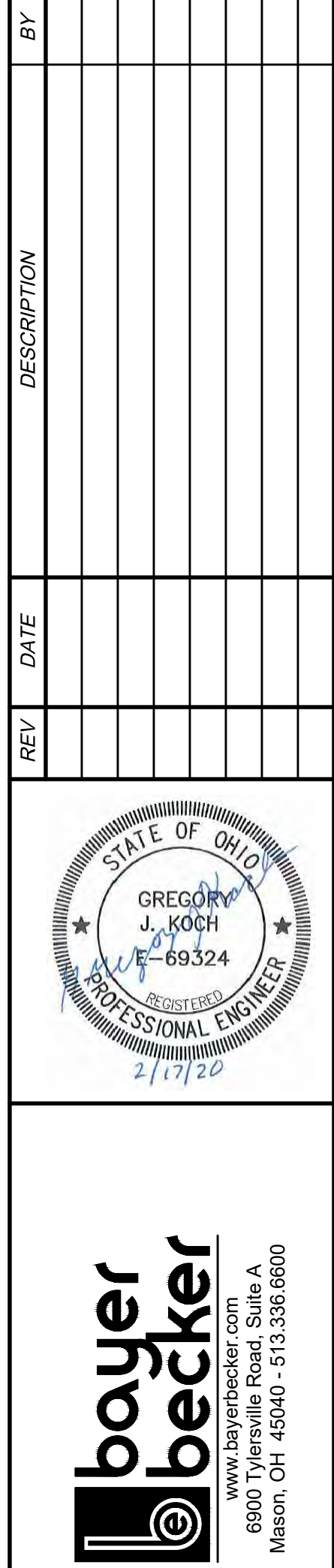
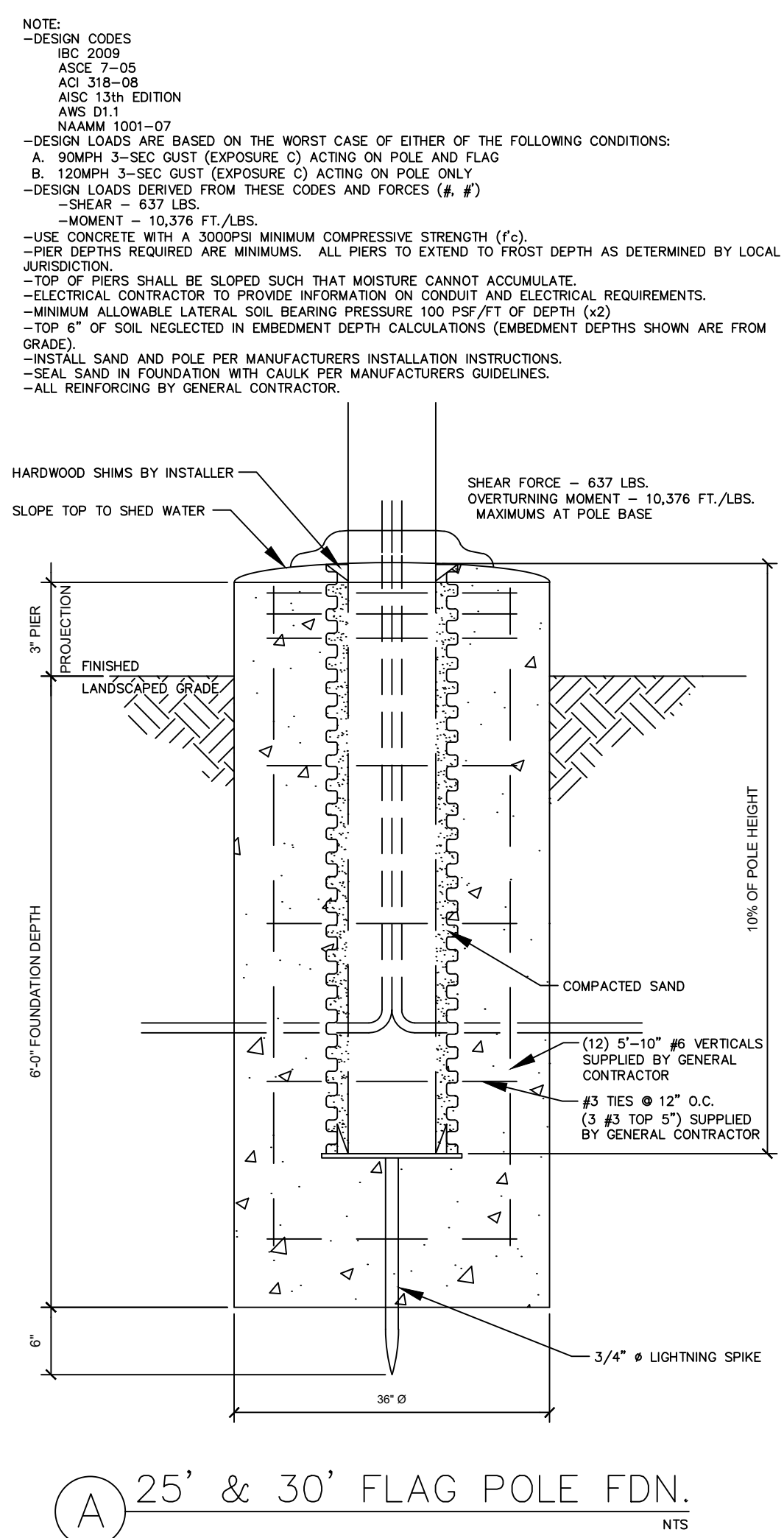
CONCRETE PAVEMENT



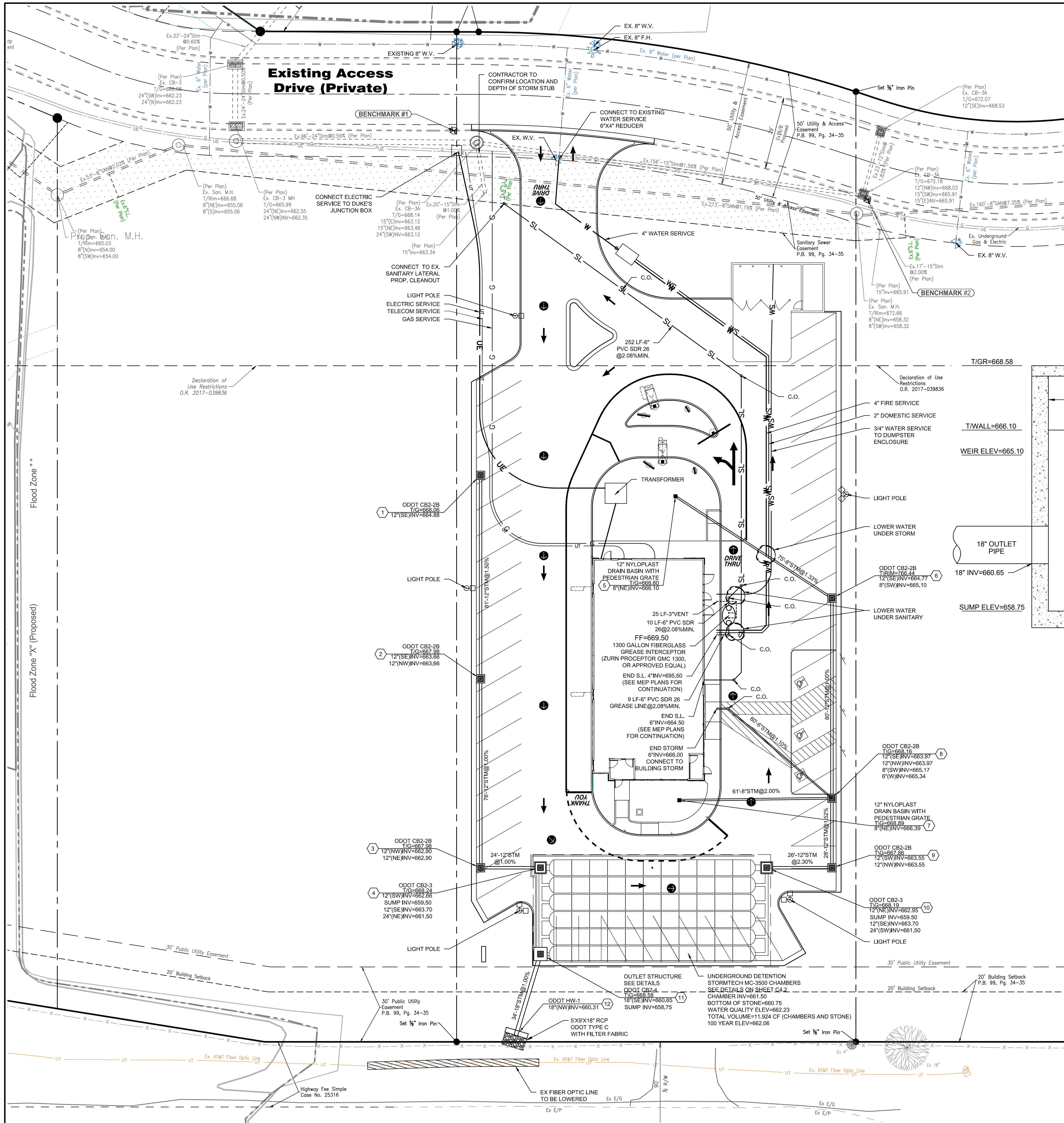
ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE

BY	
DATE	
REV	
L/C# 34-2068	
JOB NO. 19-0175	
DATE: 12/5/19	
SCALE: 1"= NTS	
SITE DETAILS	
SHEET: C3.1	



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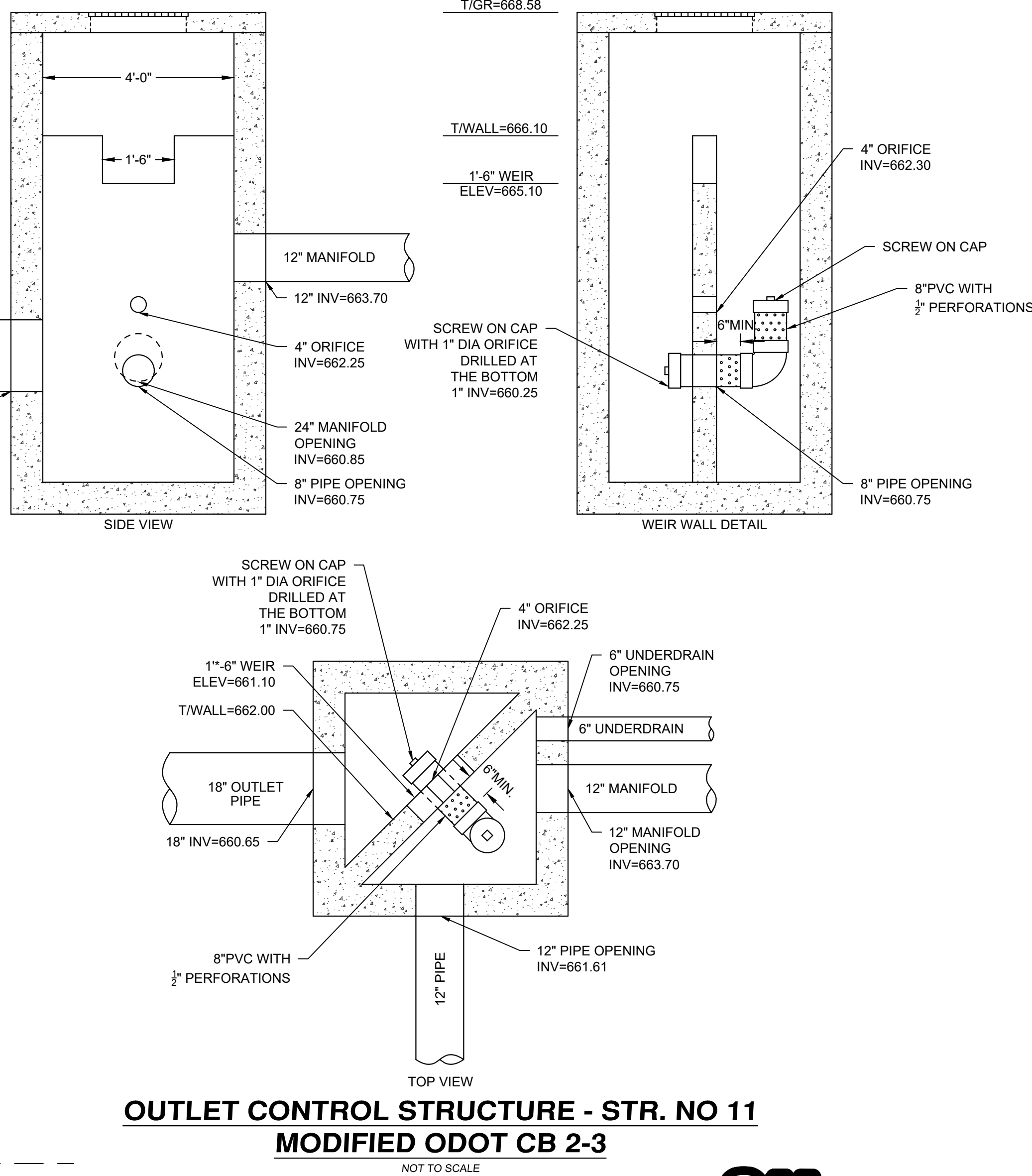


POST CONSTRUCTION WATER QUALITY

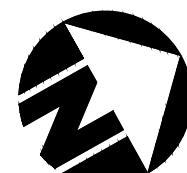
1. THE OWNER IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE PERMANENT WATER QUALITY SYSTEM ON THE SITE PER THE APPROVAL AND WILL COMPLETE ANY NECESSARY REPAIRS AND/OR PREVENTIVE MAINTENANCE PROCEDURES IN A TIMELY MANNER TO ENSURE PROPER FUNCTIONING OF THE SYSTEM AS A STORM WATER MANAGEMENT DEVICE.

UTILITY NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL CONFORM TO ALL APPLICABLE CITY OF FAIRFIELD REQUIREMENTS FOR STREETS, SIDEWALKS, ALLEYS AND ROADWAY DESIGN (LATEST EDITION).
2. LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
4. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PERMANENT CONSTRUCTION.
5. ALL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE MECHANICAL AND ELECTRICAL PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL INSTALL ANY BENDS, FITTINGS, ETC. IN THE WATER LINE AS REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES (NO SEPARATE PAY).
7. NO WATER JETTING TO BACK FILL TRENCHES WILL BE ALLOWED ON THIS PROJECT.
8. STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE, SDR 26. FITTINGS AND JOINTS SHALL CONFORM TO COMPATIBLE SDR 26 PIPE, WITH THE EXCEPTION THE SOLVENT CEMENT JOINTS SHALL NOT BE USED.
9. THE CONTRACTOR SHALL INSTALL THE SANITARY SEWER SYSTEM OUTSIDE OF THE BUILDING IN ACCORDANCE WITH PROCEDURES SPECIFIED BY CITY OF FAIRFIELD.
10. ALL SPOIL AND OTHER UNSUITABLE MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
11. ALL SERVICES ARE BROUGHT TO WITHIN 5 FEET OF THE BUILDING. BUILDING CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST TO CONNECT ALL SERVICES TO THE BUILDING.
12. CLEAN OUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE AND AS DIRECTED BY CITY INSPECTOR. ALL CLEAN OUT TOPS SHALL BE INSTALLED AT LEAST 2" ABOVE FINISHED GRADE OUTSIDE PAVEMENT AND FLUSH WITH FINISHED GRADE WITHIN THE PAVEMENT AREAS.
13. CLEAN OUT TOPS WITHIN THE PAVEMENT AREAS SHALL BE TRAFFIC RATED.
14. THE SANITARY SEWER SERVICE FOR 5211 PLEASANT AVENUE SHALL REMAIN IN SERVICE. IF A SHUTDOWN IS NEEDED, CONTRACTOR SHALL COORDINATE WITH THE BUSINESS OWNER AND THE CITY OF FAIRFIELD.
15. THE FIRE LINE PIPE MATERIAL:
 - 15.1. FROM CONNECTION TO EXISTING 8" MAIN TO METER PIT SHALL BE DUCTILE IRON, CLASS 55.
 - 15.2. FROM METER PIT TO THE BUILDING SHALL BE C900 PVC PIPE.
16. THE DOMESTIC WATER SEWER SHALL BE POLYETHYLENE PIPE FROM THE METER PIT TO THE BUILDING.



**OUTLET CONTROL STRUCTURE - STR. NO 11
MODIFIED ODOT CB 2-3**



Basis of Bearing:
State Plane NAD83 (2011)
0 20 30
SCALE: 1" = 20'



CAUTION!!!

ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

BY	DESCRIPTION	DATE	REV
G/K	REVISE PER SOUTH LEBANON COMMENTS	02-14-20	1
G/K	REVISE UNDERGROUND DETENTION & UTILITIES	03-12-20	2

STATE OF OHIO
GREGORY J. KOCH
69324
PROFESSIONAL ENGINEER
3/12/20

bayer becker
www.bayerbecker.com
6900 Tylersville Road, Suite A
Mason, OH 45040 - 513.336.6600

L/C# 34-2068

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PROPOSED McDONALD'S RESTAURANT AT:
RIVERS CROSSING WEST
VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OH

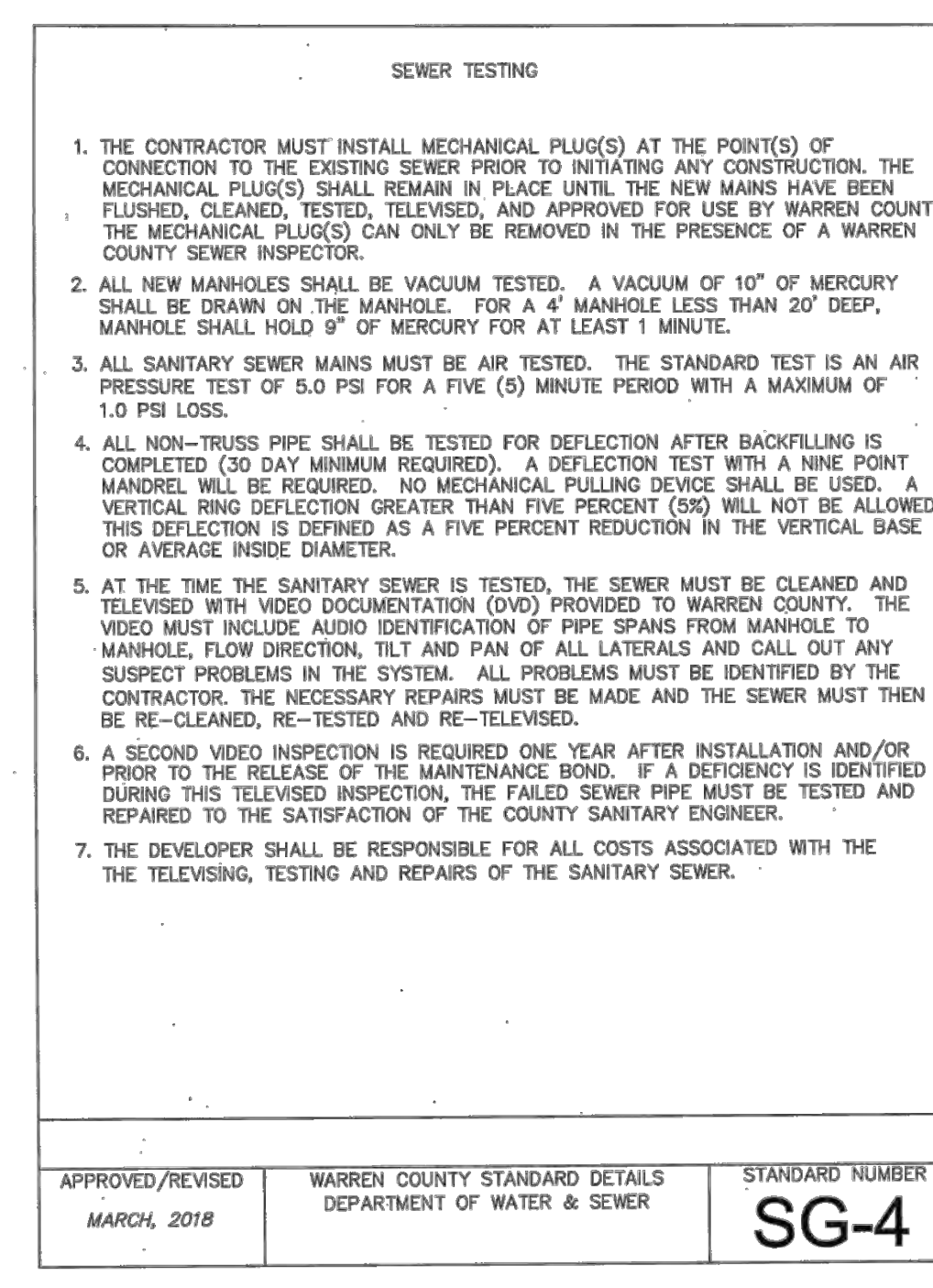
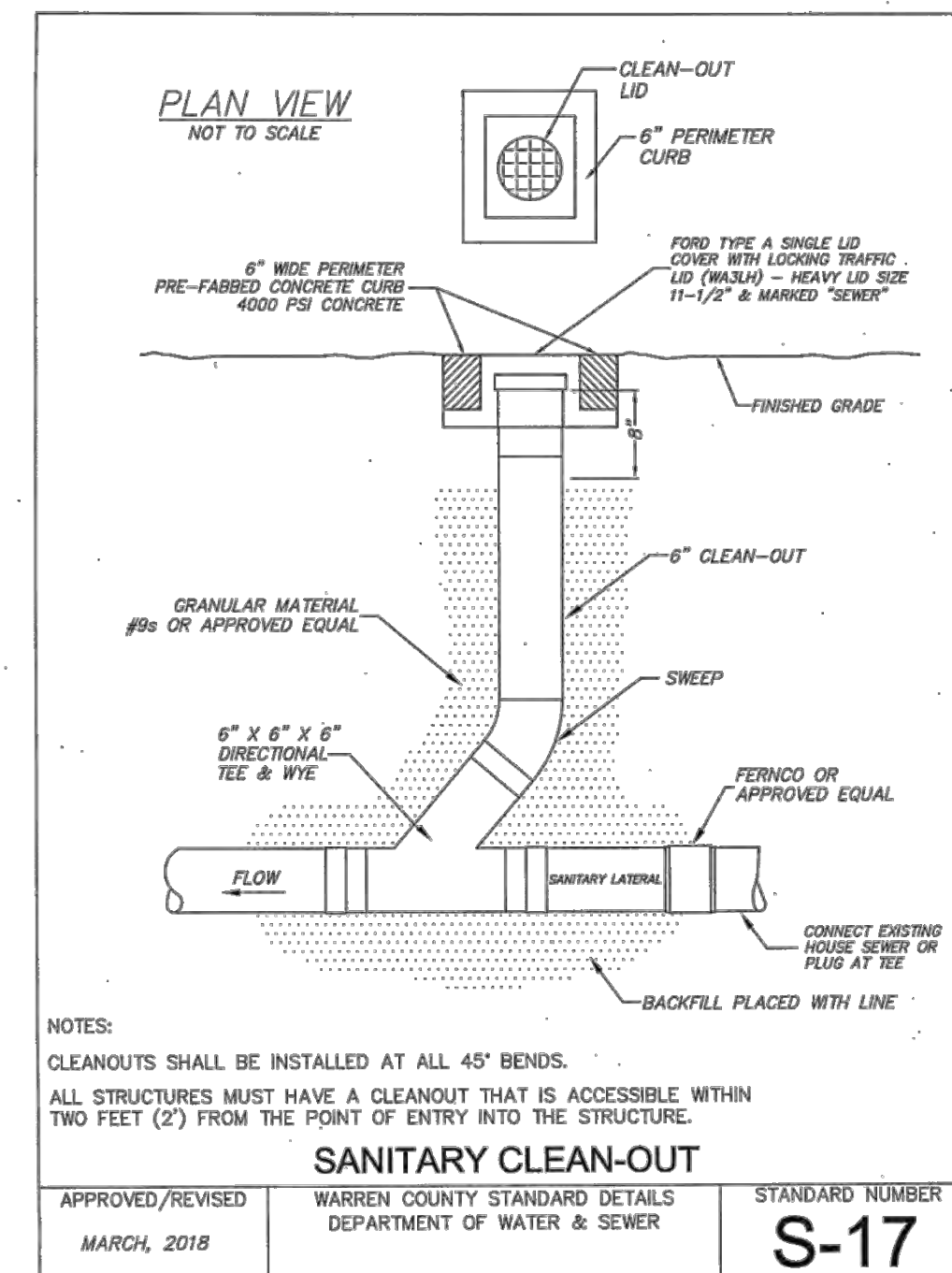
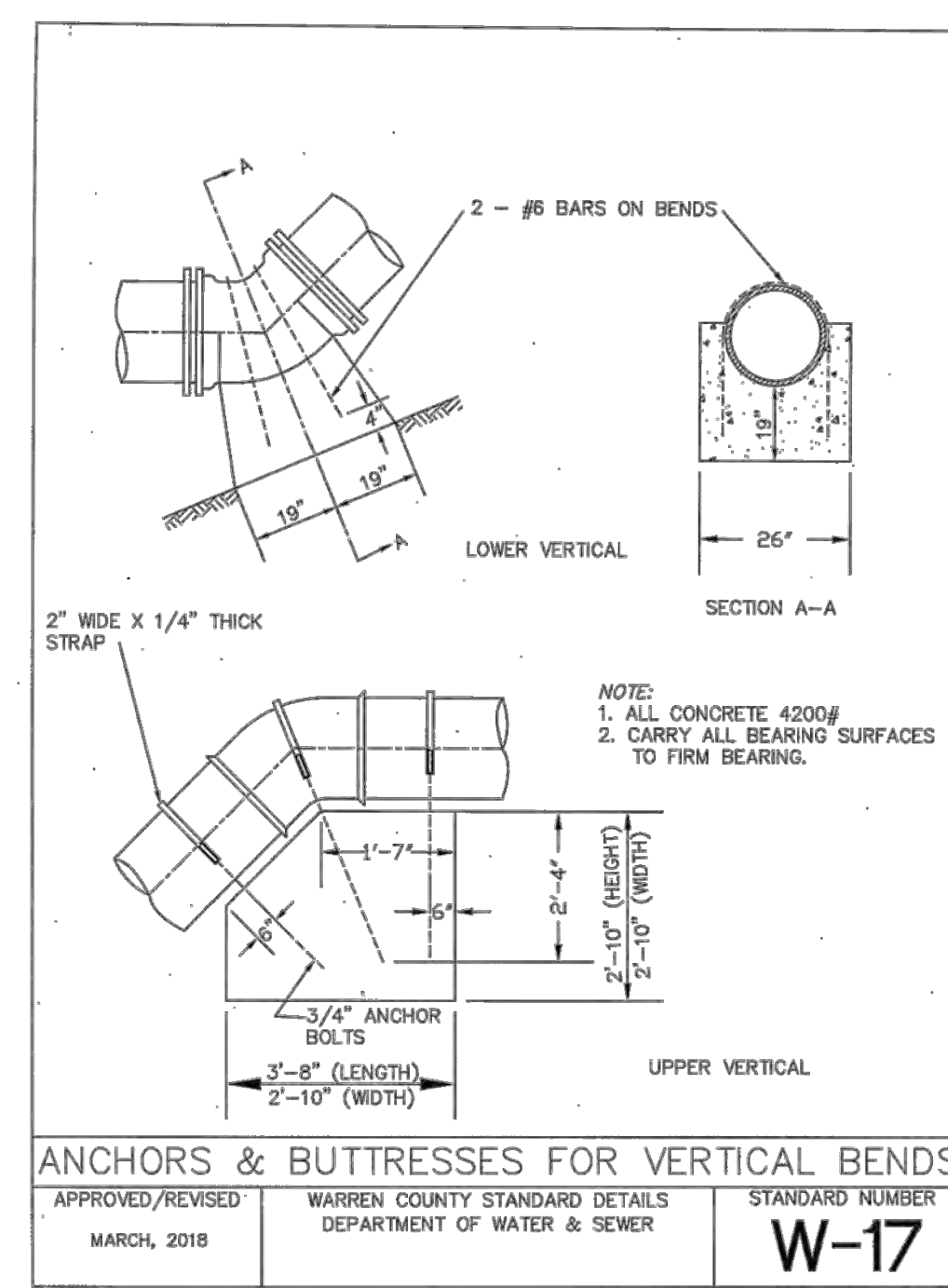
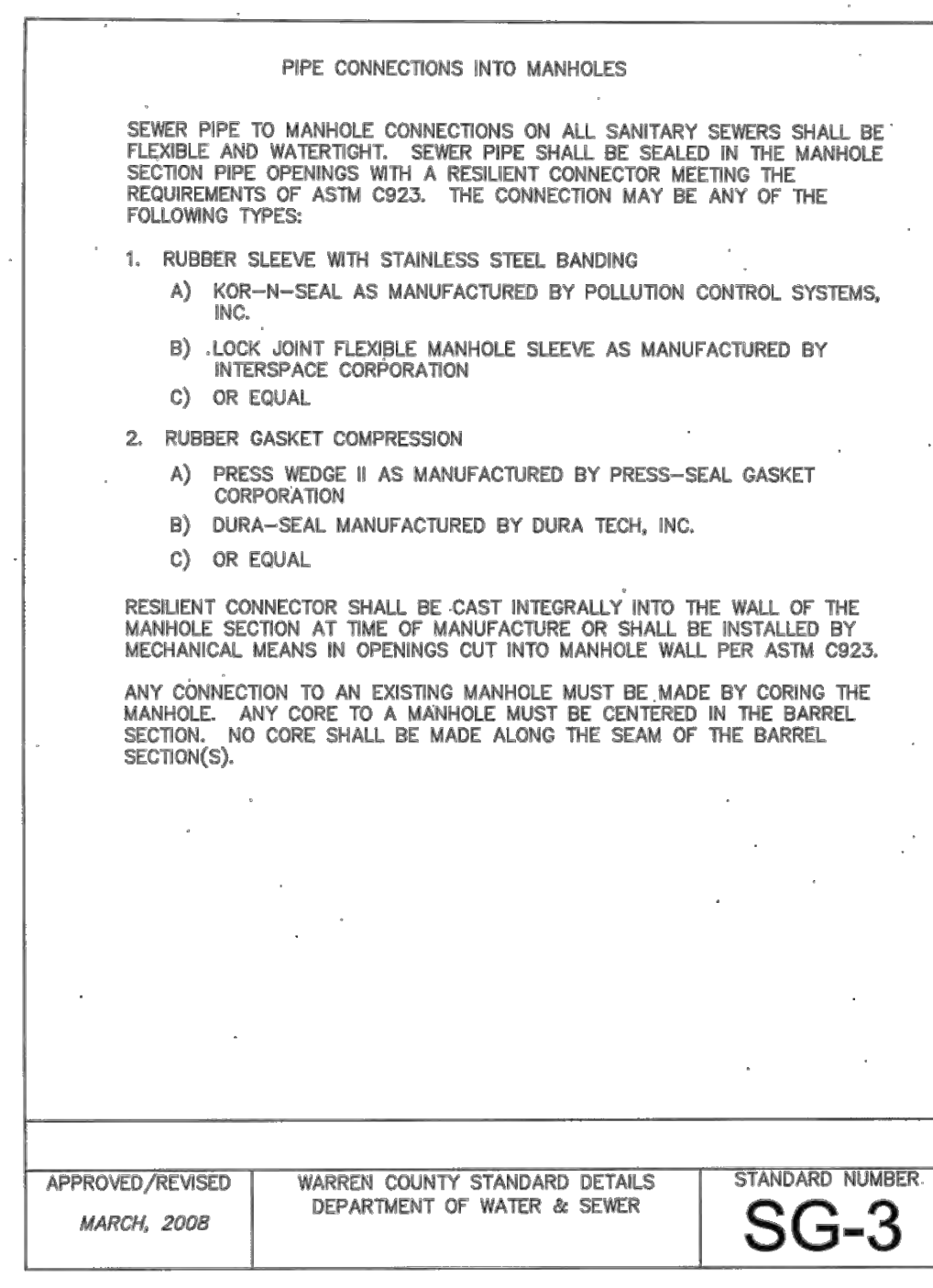
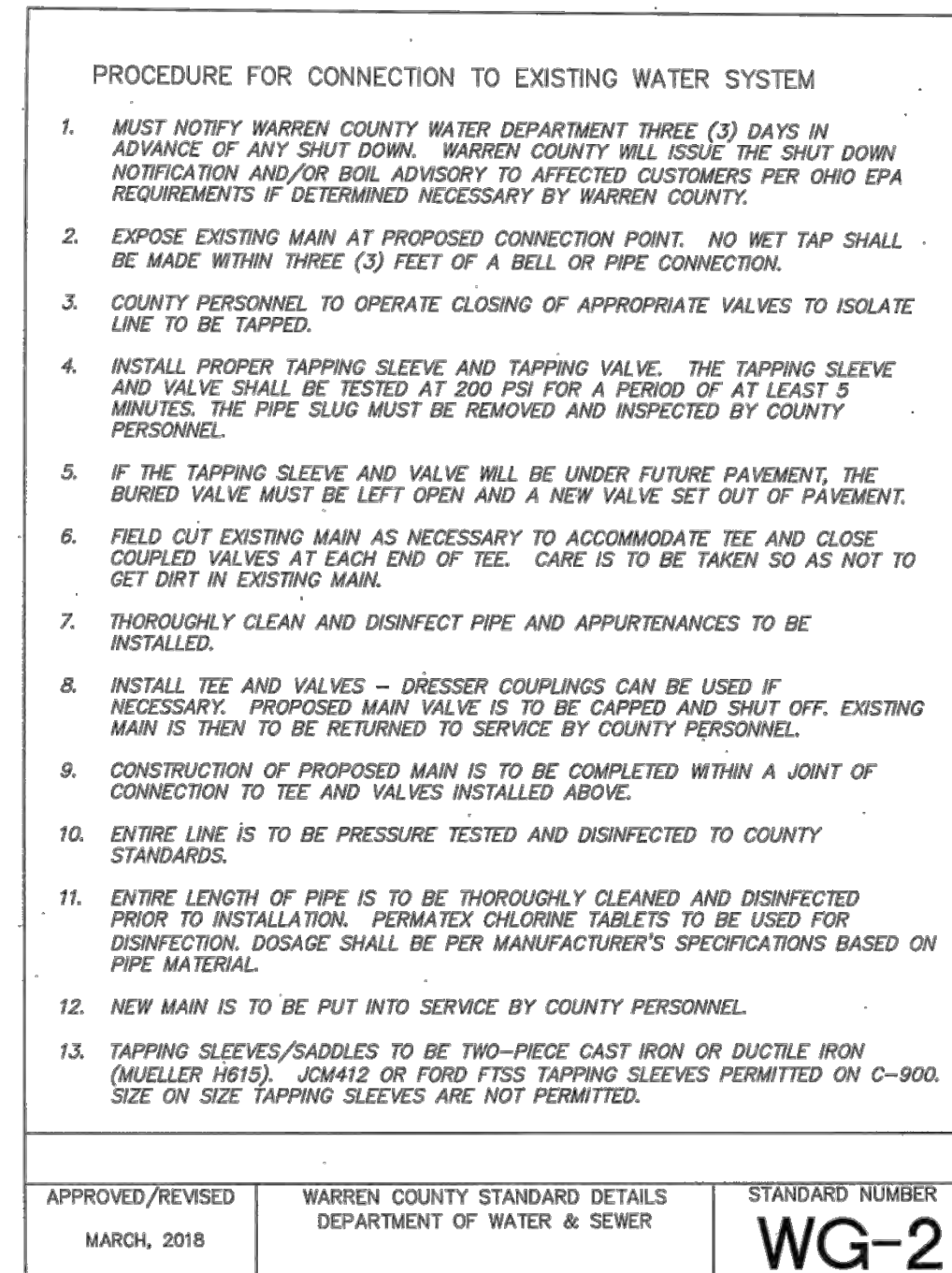
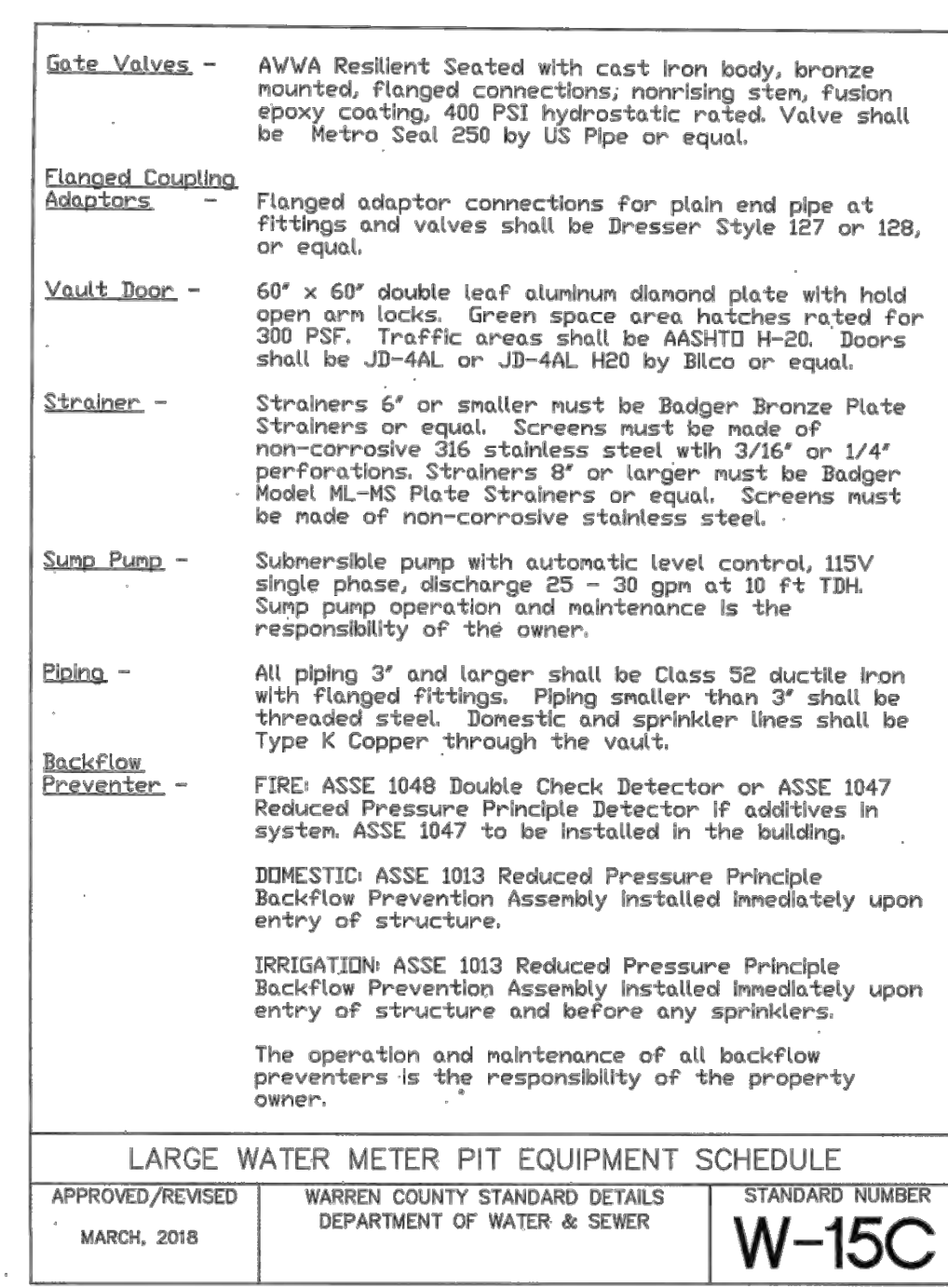
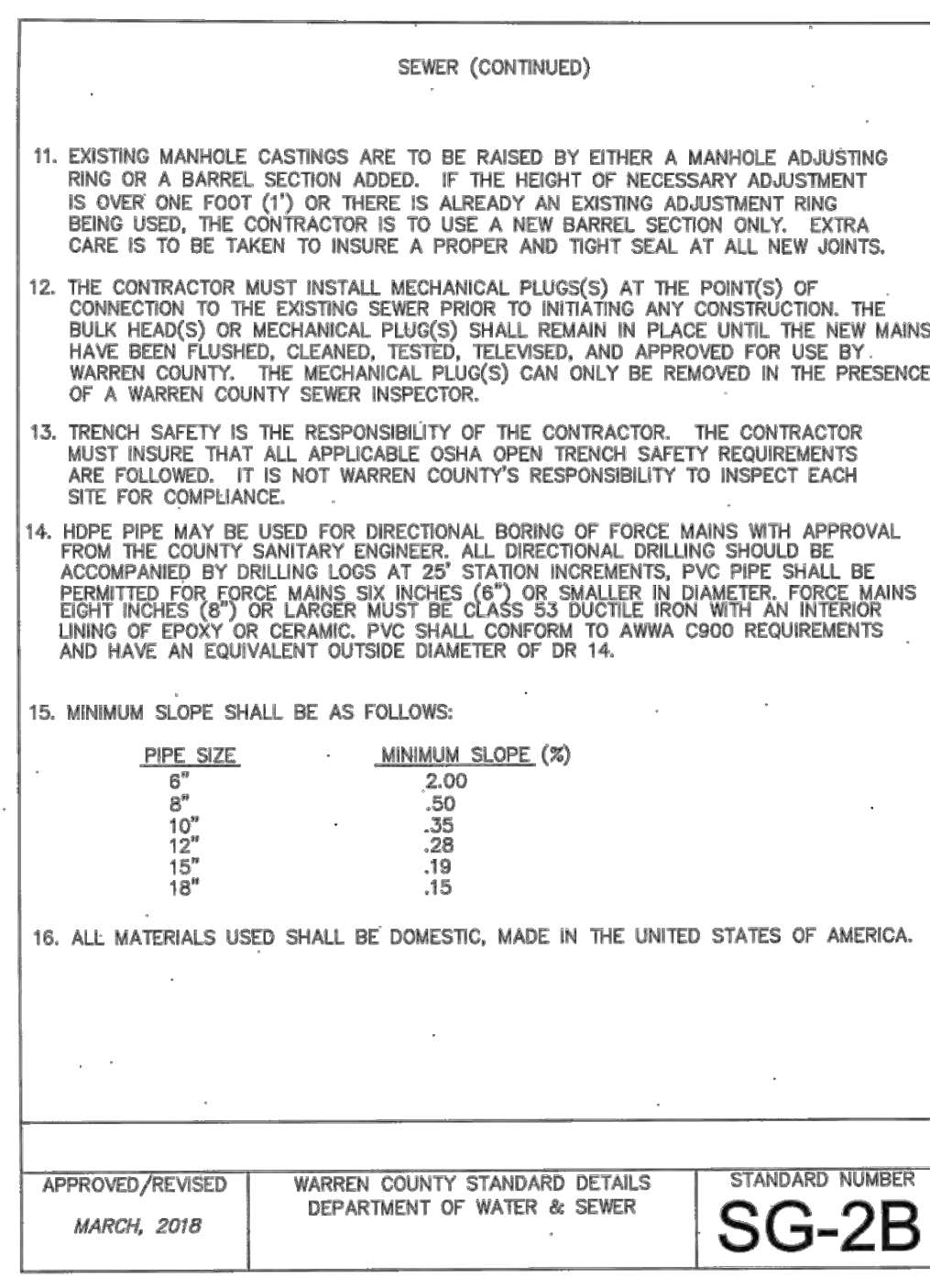
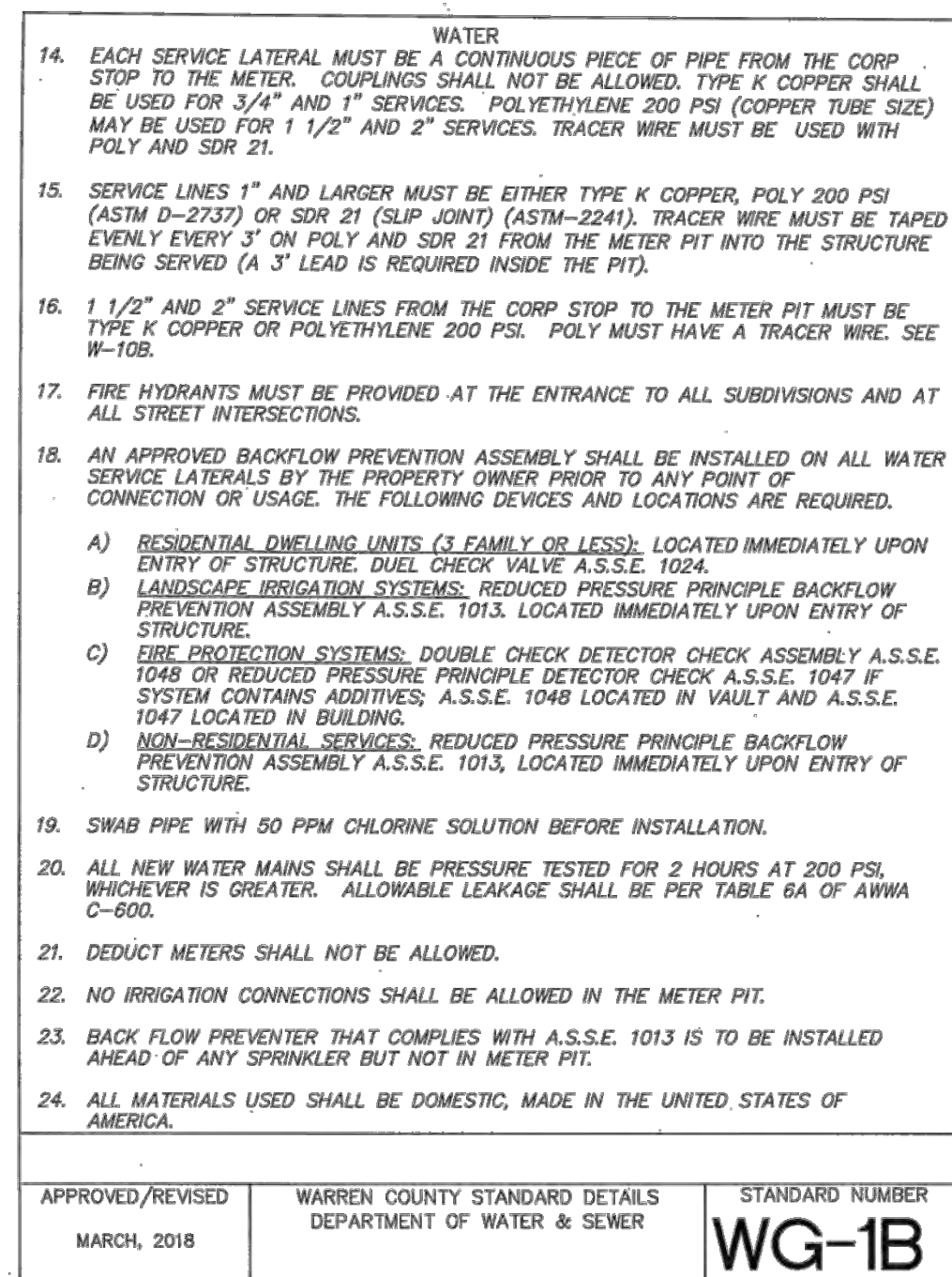
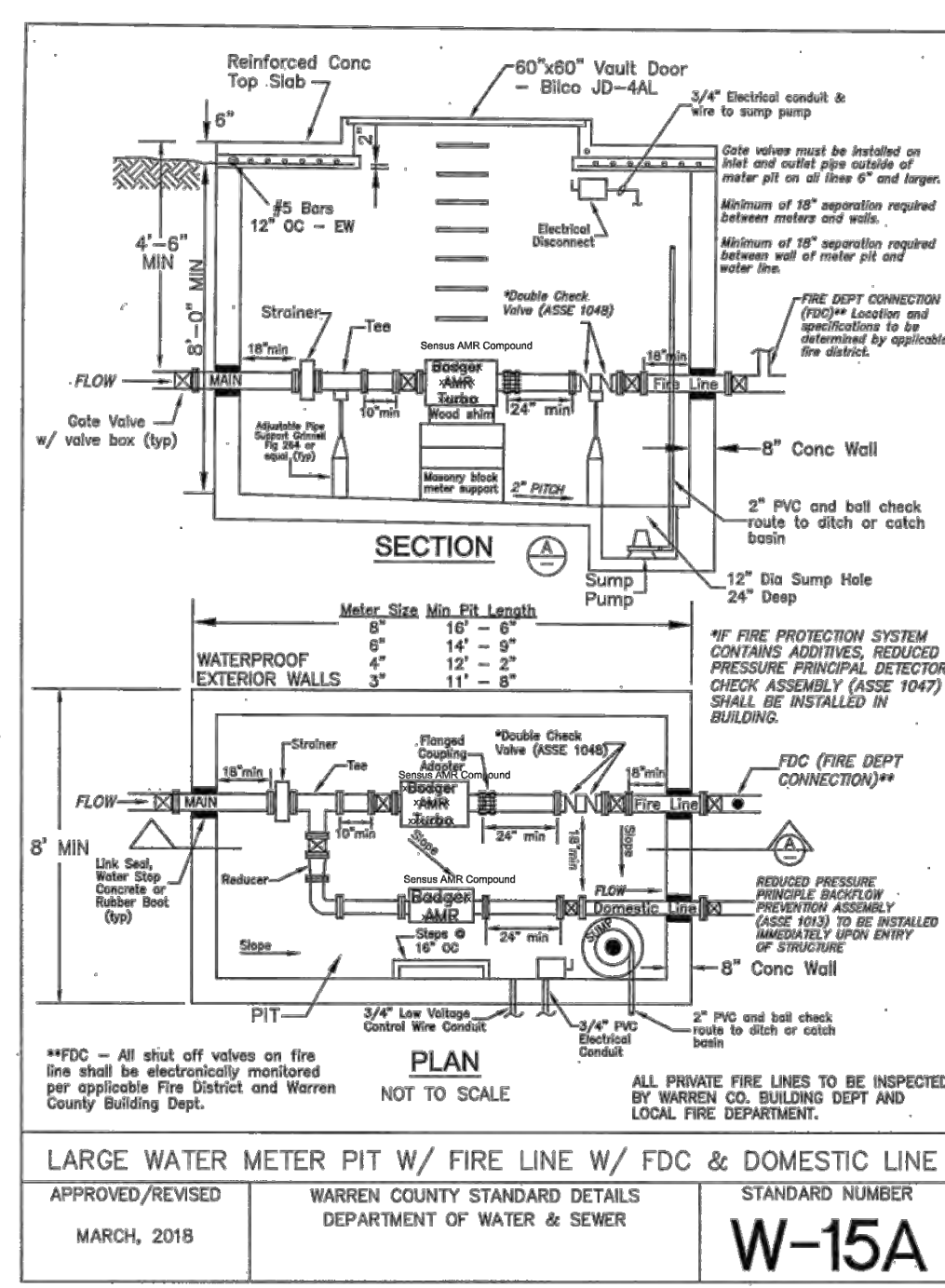
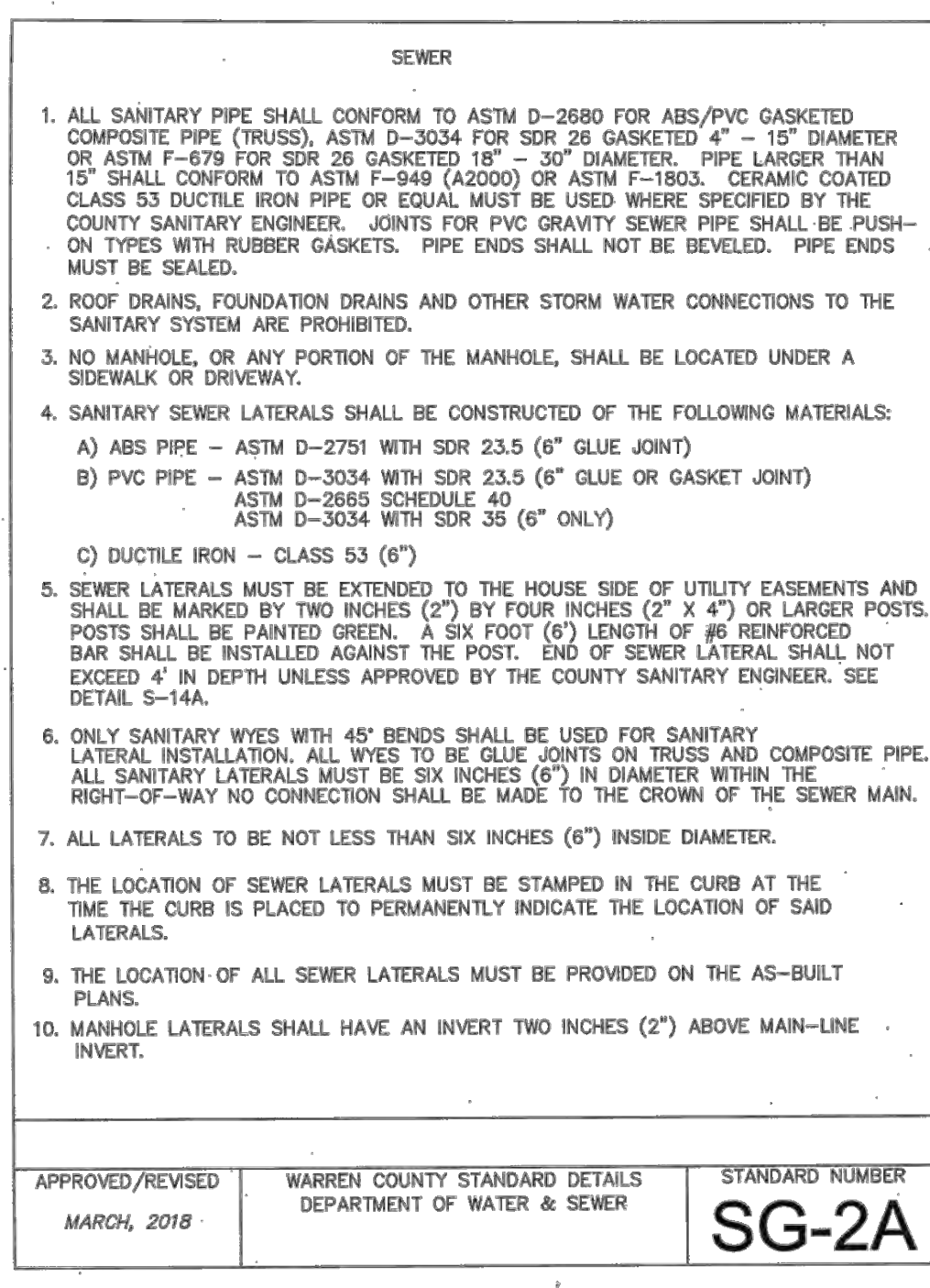
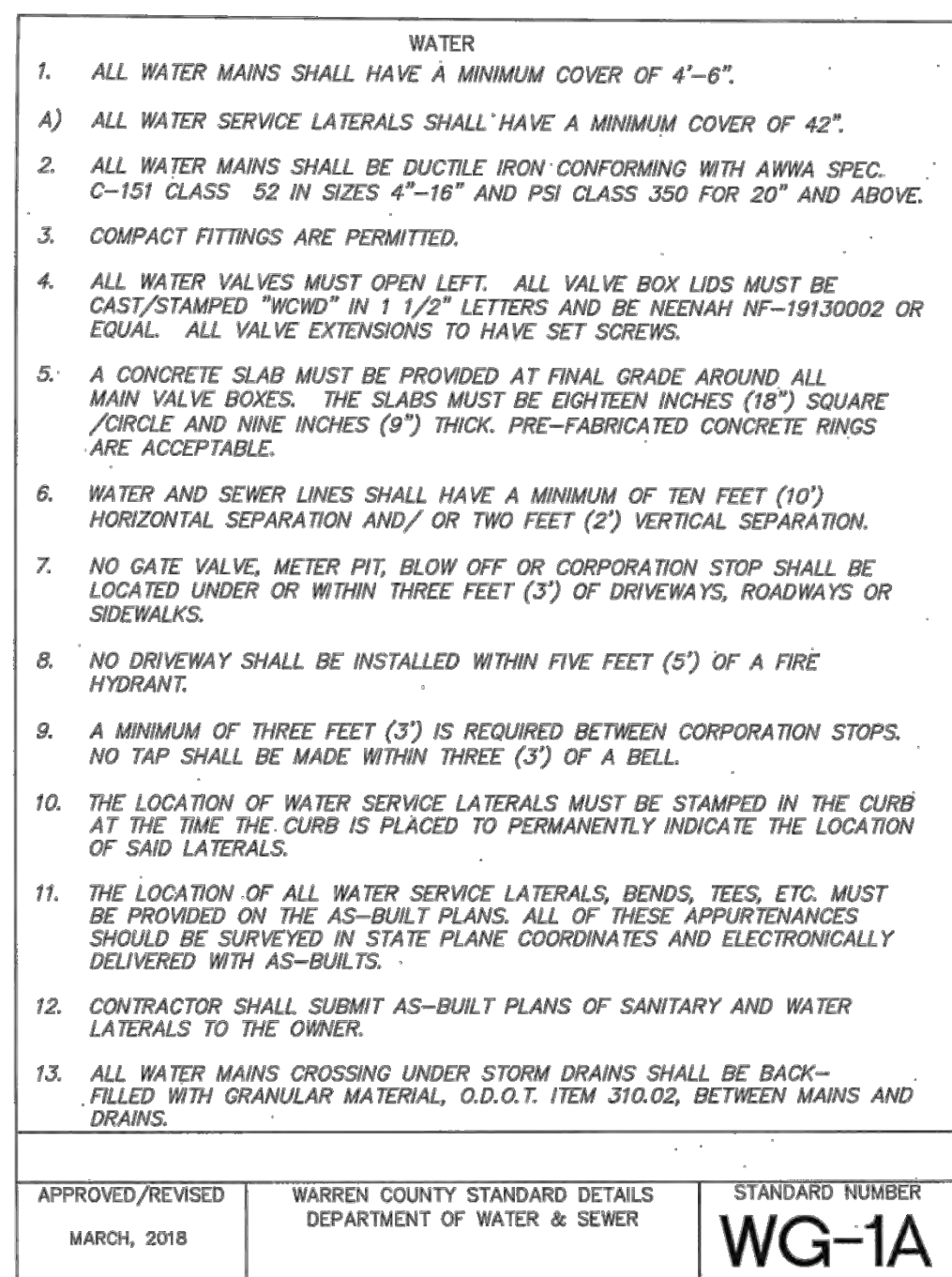
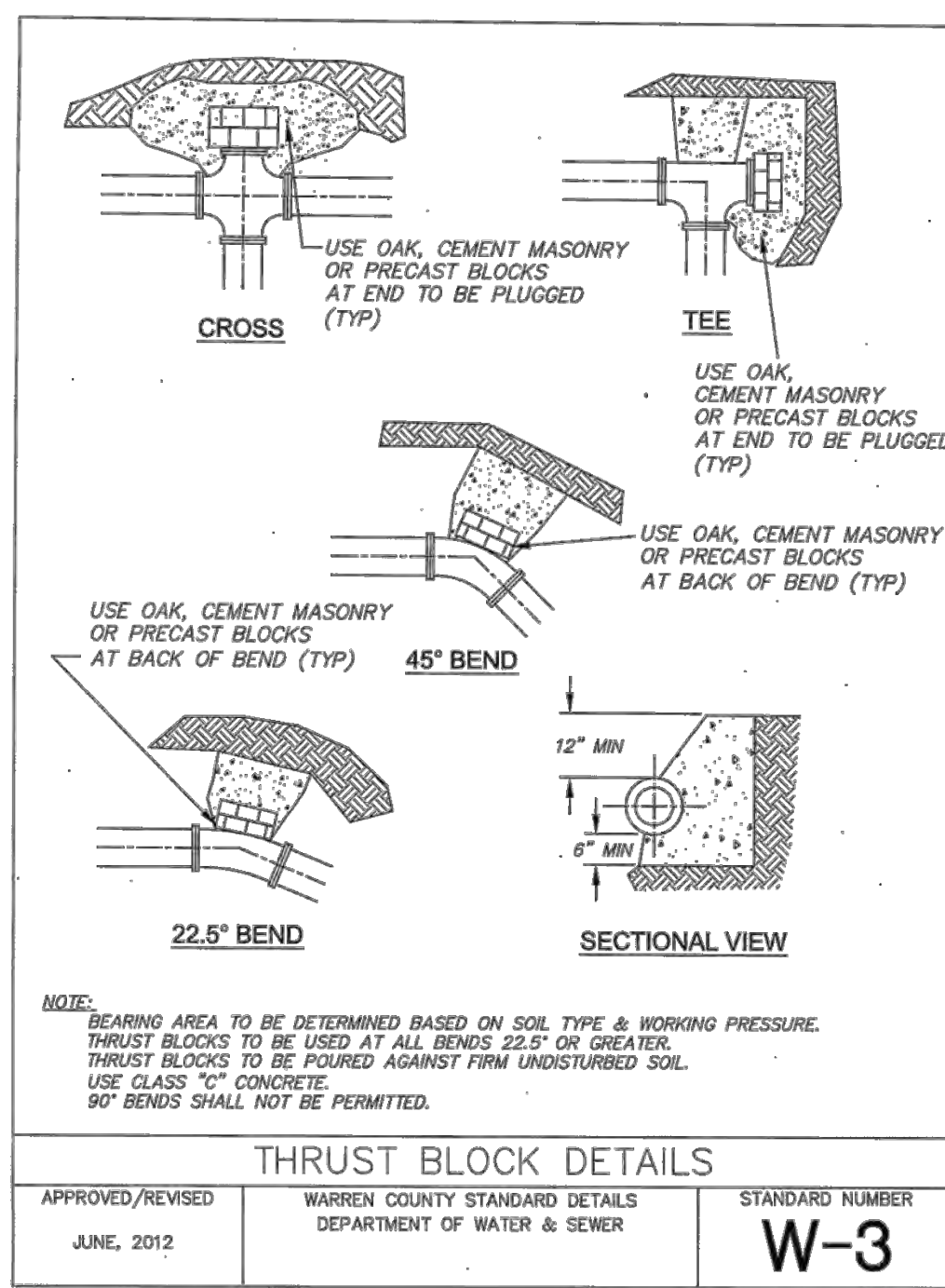
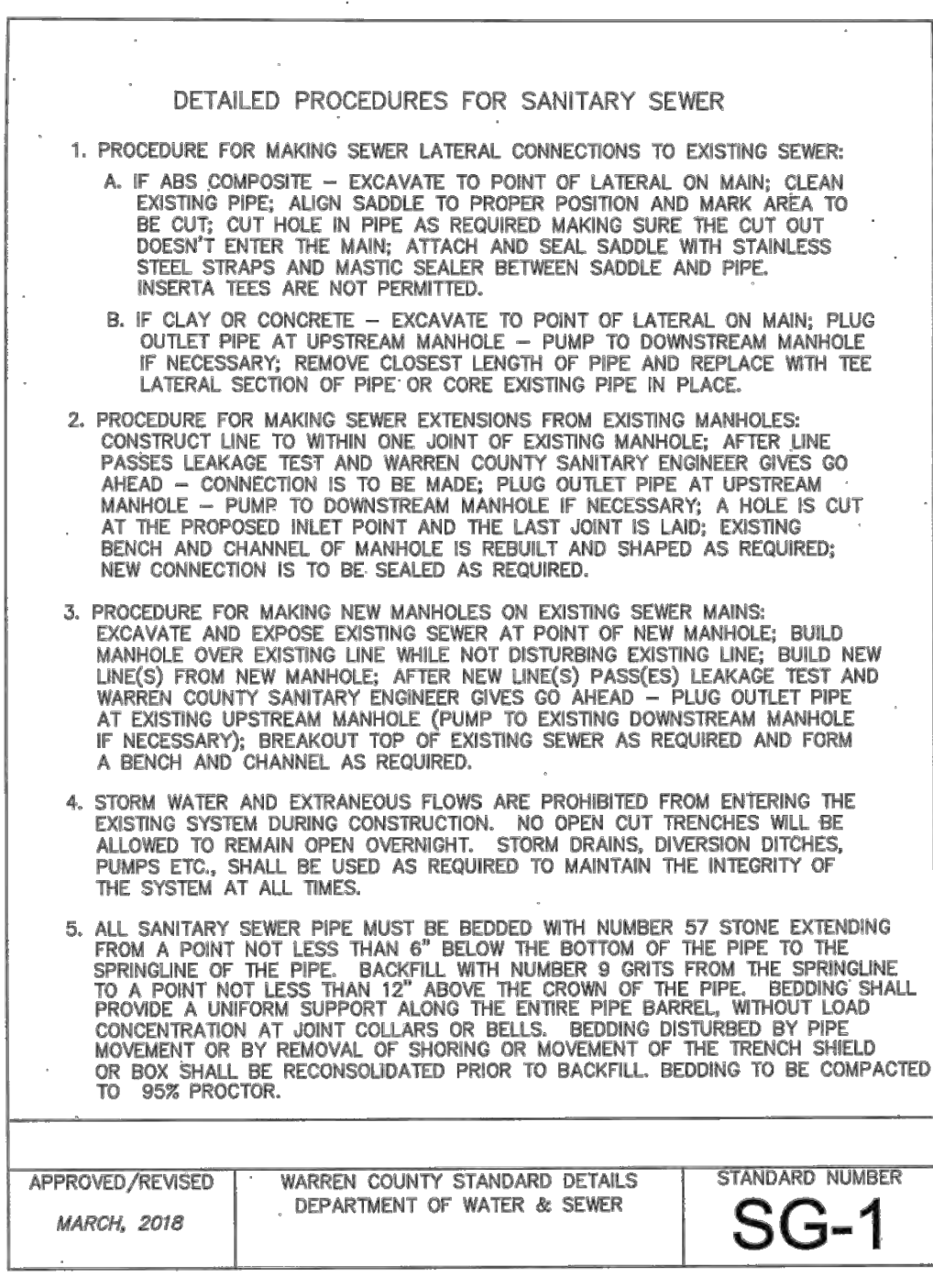
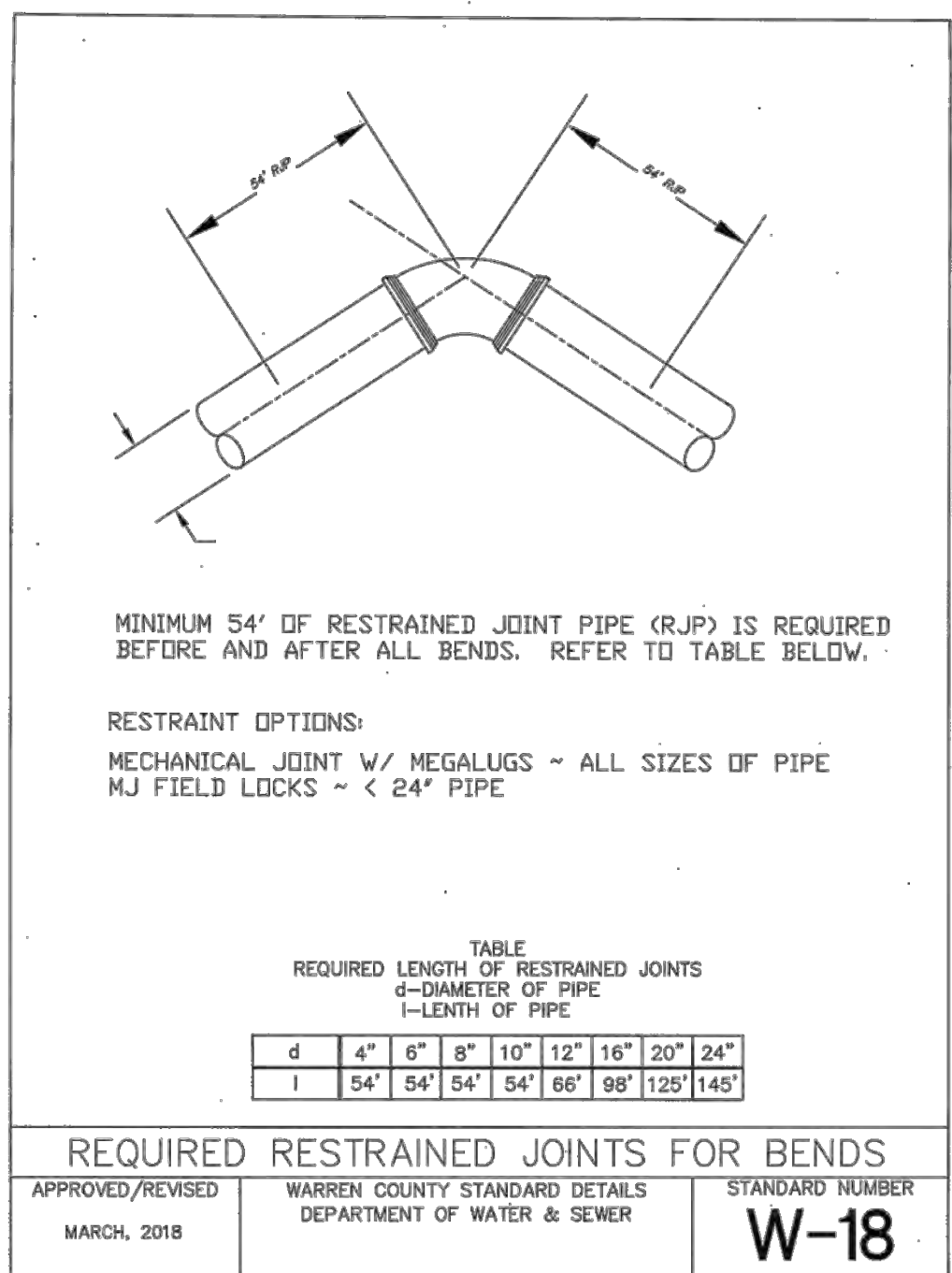
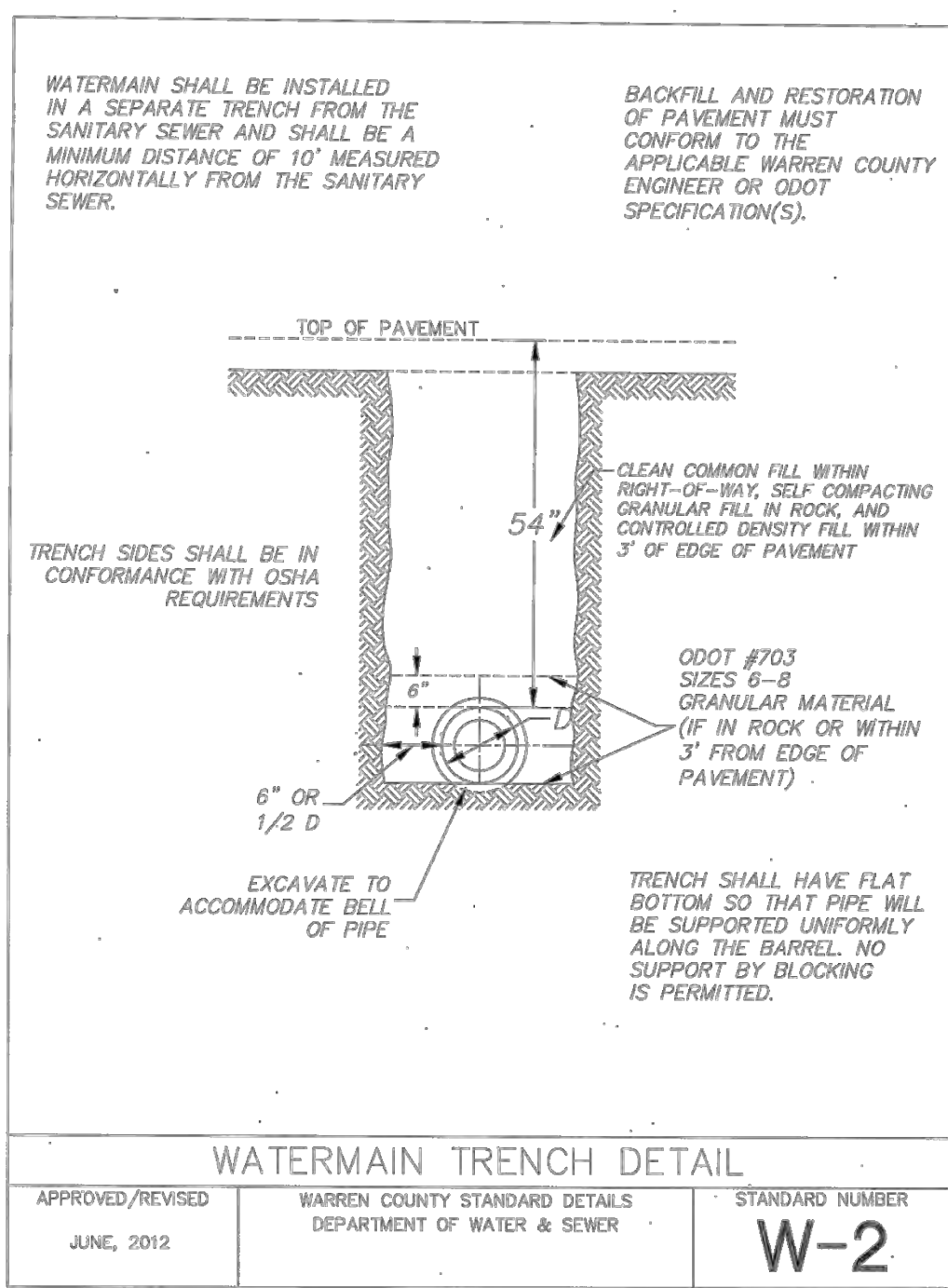
JOB NO. 19-0175

DATE: 12/5/19

SCALE: 1"=20'

UTILITY PLAN

SHEET: C4.0



PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	KEVIN HENDRICKSON 513-497-5953 KEVIN.HENDRICKSON@ADS-PIPE.COM
ADS SALES REP:	JUSTIN MEYER 513-325-9139 JUSTIN.MEYER@ADS-PIPE.COM
PROJECT NO:	S159G13



MCDONALDS SOUTH LEBANON
SOUTH LEBANON, OH

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- [illegible]

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STONE/CHUCK-M3000 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A VISUAL INSPECTION WITH THE INSTALLER.
2. STONE/CHUCK-M3000 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STONE/CHUCK-M3000-4000 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SURROUNDING THEM WITH THE CHAMBERS.
 - a. STONE/CHUCK LOCATED AT THE CHAMBER END
 - b. BACKFILL AS PROVIDED SHALL BE TYPED AS SPECIFIED ON THE FOUNDATION STONE OR SURGRADE
4. THE FOUNDATION STONE SHALL BE DELIVERED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE BRICKER'S STAPLE PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM .8" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANHOLES MUST BE INSERTED A MINIMUM OF (120 mm) INTO CHAMBER END.
8. EMBANKMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO HAS DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER, ANCHOR THE CHAMBERS IN PLACE AND RESERVE ROW SPACING.
10. CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BARRING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. AAS RECOMMENDS THE USE OF "FLEXOSTACK" OR "INERTS" DURING CONSTRUCTION FOR ALL INERTS TO PROTECT THE SURBURFACE DRAINAGE MANAGEMENT SYSTEMS.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-802-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT

PROPOSED LAYOUT	
NO.	DATE

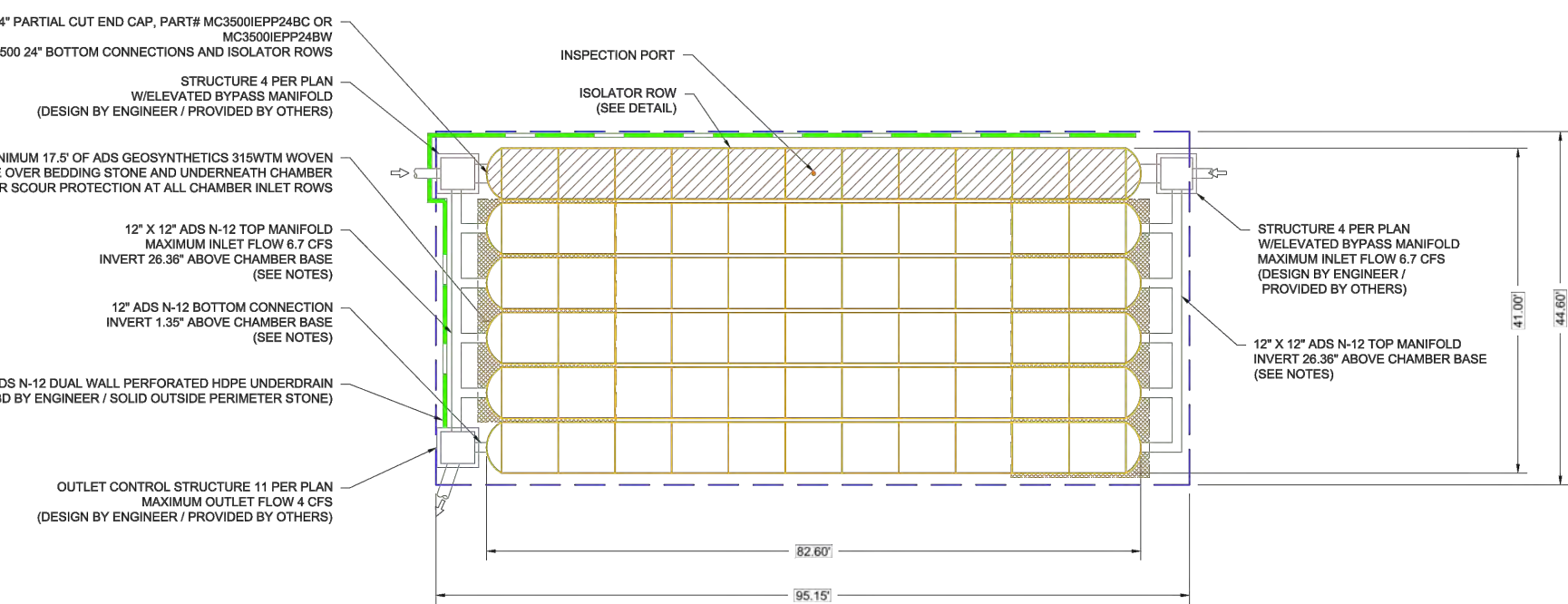
- | | |
|--------|---|
| 06 | STORMTECH MC-3500 CHAMBERS |
| 12 | STORMTECH MC-3500 END CAPS |
| 12 | STONE ABOVE (n) |
| 9 | STONE BELOW (n) |
| 30 | % STONE VOID |
| 12,208 | INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) |
| 4,244 | SYSTEM AREA (ft²) |
| 279 | SYSTEM PERIMETER (ft) |

PROPOSED ELEVATIONS

- | | |
|--------|---|
| 607.25 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 606.75 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 606.75 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 606.75 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 606.25 | TOP OF STONE |
| 605.25 | TOP OF MC-3500 CHAMBER |
| 603.70 | 12" TOP MANHOLE INVERT |
| 601.67 | 24" ISOLATOR RIGID CONNECTION INVERT |
| 601.67 | 12" BOTTOM CONNECTION |
| 601.50 | BOTTOM OF MC-3500 CHAMBER |
| 600.75 | UNDERDRAIN INVERT |
| 600.75 | BOTTOM OF STONE |

NOTES

- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THE CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL, AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

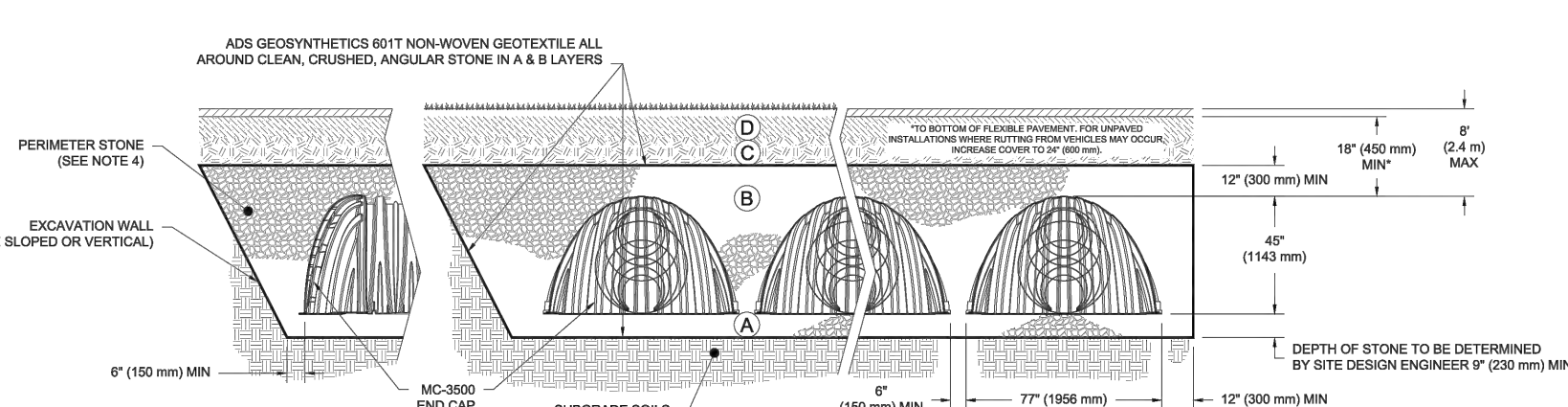


ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	ASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL (LAYER 1) STARTS FROM THE TOP OF THE "C" LAYER TO THE BOTTOM OF FLOORSLAB. UNPAVED UNFINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE "D" LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOIL, OR PER OTHER ENGINEER CHECK PLAN FOR PAVEMENT SUBBASE REQUIREMENTS.	NA	PREPARE FOR SITE DESIGN ENGINEERS PLANS. PAVED INSTALLATIONS MAY HAVE STABILIZATION AND PREPARATION REQUIREMENTS.
	INITIAL FILL: FILL MATERIAL (LAYER 2) STARTS FROM THE TOP OF THE EMBANKMENT STONE (LAYER 2) TO 600 (mm) OF THE TOP OF THE CHAMBERS THAT PAVEMENT SUBBASE MAY BE A PART OF THE "C" LAYER.	GRAVELLY AND/OR GRADED SLAGGOLAGGREGATE, 100% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO #4445 A-1, A-2, A-3 ASHTO #445 A-1, A-2, A-3 3, 397, 4, 407, 6, 66, 9, 9, 45, 68, 7, 8, 78, 8, 89, 9, 10	BEGIN CHAMBERS AT ABOUT 2' (600 mm) OF THE TOP OF THE CHAMBERS IS REACHED. COMPACTION ADDITIONAL LAYER OF 100 (mm) MAX LIFTS TO A MIN. 95% PROCEEDMENT FOR OR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
E	EMBANKMENT STONE: FILL BURROUGHSING THE CHAMBERS FROM THE FOUNDATION STONE (X LAYER) TO THE "C" LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	ASHTO #445 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE TO THE FOOT OF THE CHAMBERS	CLEAN, CRUSHED, ANGULAR STONE	ASHTO #445	PLATE COMPACTION OR ROLL TO ACHIEVE A FLAT SURFACE 1"

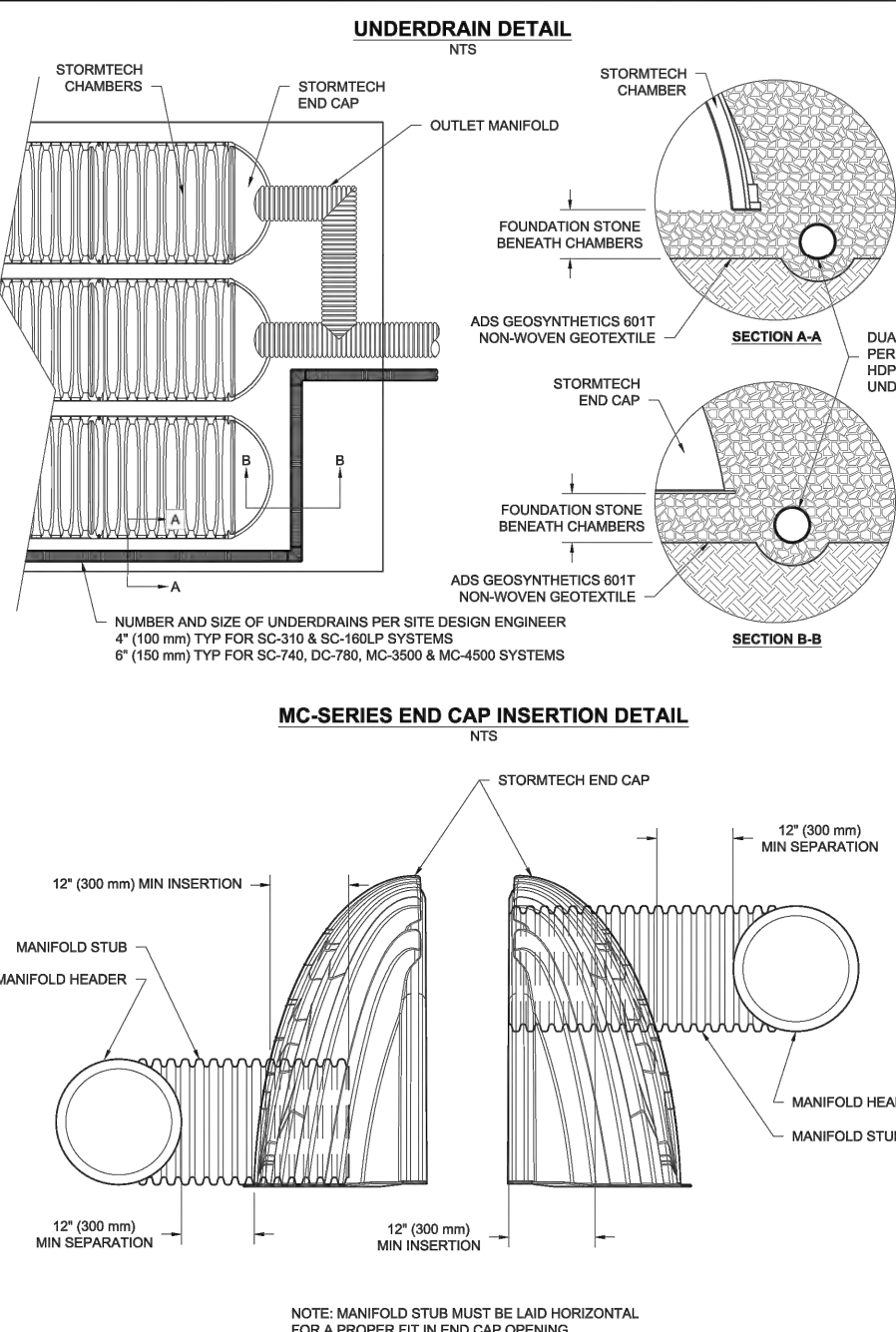
PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMWATER COMPACTOR REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 4" (250 mm) MAX) LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
3. PLACEMENT SURFACES MAY BE COMPROMISED BY COMPACTION FOR STANDARD DESIGN LOAD CONDITIONS. A FLAT SURFACE MAY BE ACHIEVED BY RAVING OR DRAGGING WITH COMPACTOR EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMWATER FC FOR COMPACTOR REQUIREMENTS.
4. ONCE LAYER "C" IS PLACED, ANY SOLID MATERIAL CAN BE PLACED IN LAYER "D" UP TO THE FINISHED GRADE. MOST PAVEMENT SUBGRADE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER "C" OR "D" AT THE SITE DESIGN ENGINEERS DISCRETION.

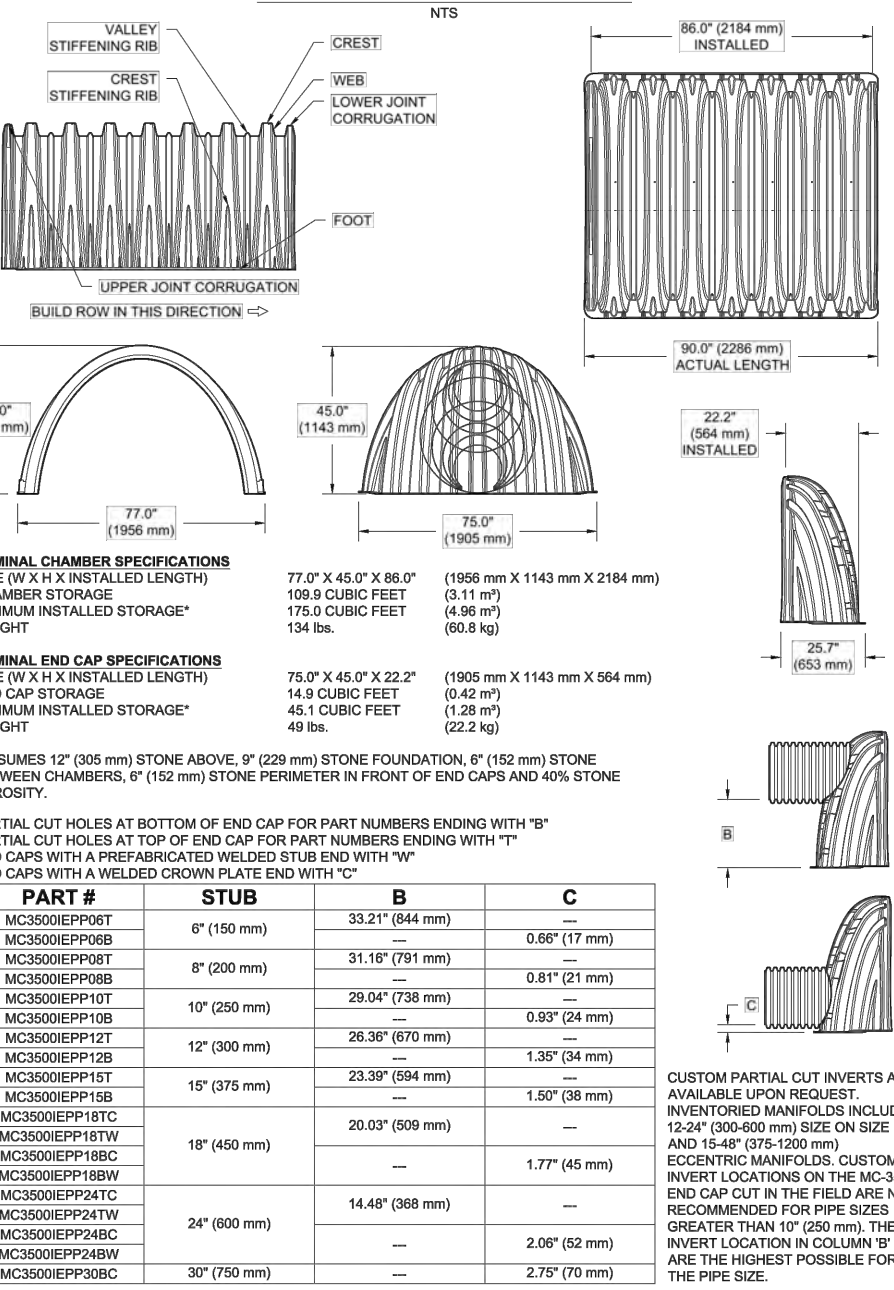


NOTES

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2116-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL, STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 40/9 DESIGNATION SHALL BE:
1. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2117 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL, STORMWATER COLLECTION CHAMBERS". THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
2. PERIMETER STONE SHALL BE EXTENDED HORIZONTAL TO THE EXCAVATION WALLS FOR BOTH VERTICAL AND SLOPED EXCAVATIONS.
3. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKED STAKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBERT JOINT SHALL NOT BE LESS THAN 7".
 - TO MAINTAIN THE INTEGRITY OF THE CHAMBERS DURING HANDLING AND INSTALLATION, THE WEIGHT OF EACH CHAMBER SHALL BE GREATER THAN OR EQUAL TO 100 LBS/PIECES.
4. TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES ABOVE 73° F (22° C), CHAMBERS SHALL BE PURCHASED FROM REPUTABLE GOOD OR YELLOW COLORS.



MC-3500 TECHNICAL SPECIFICATION

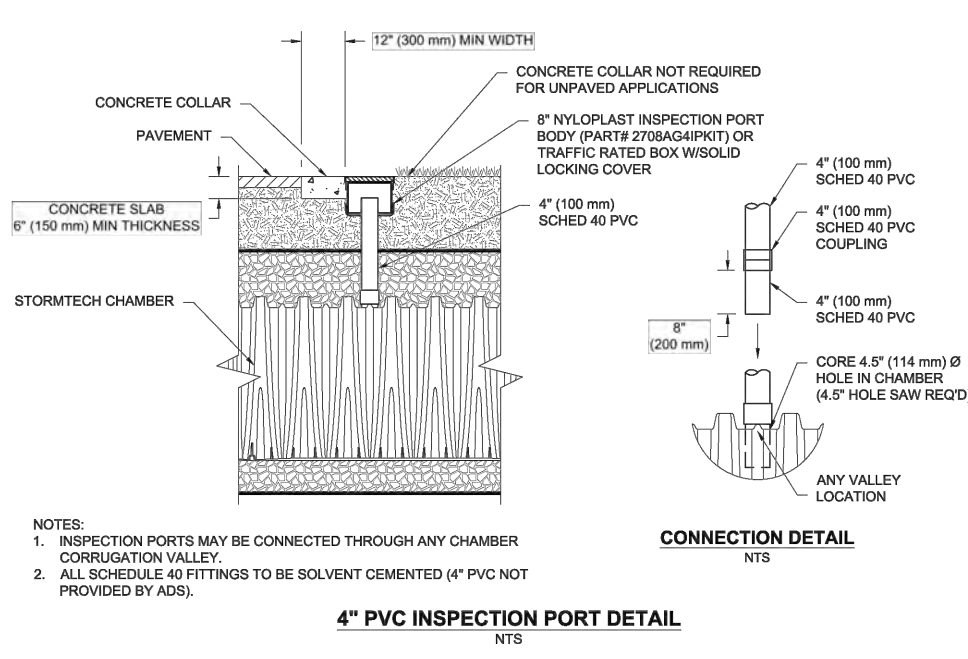


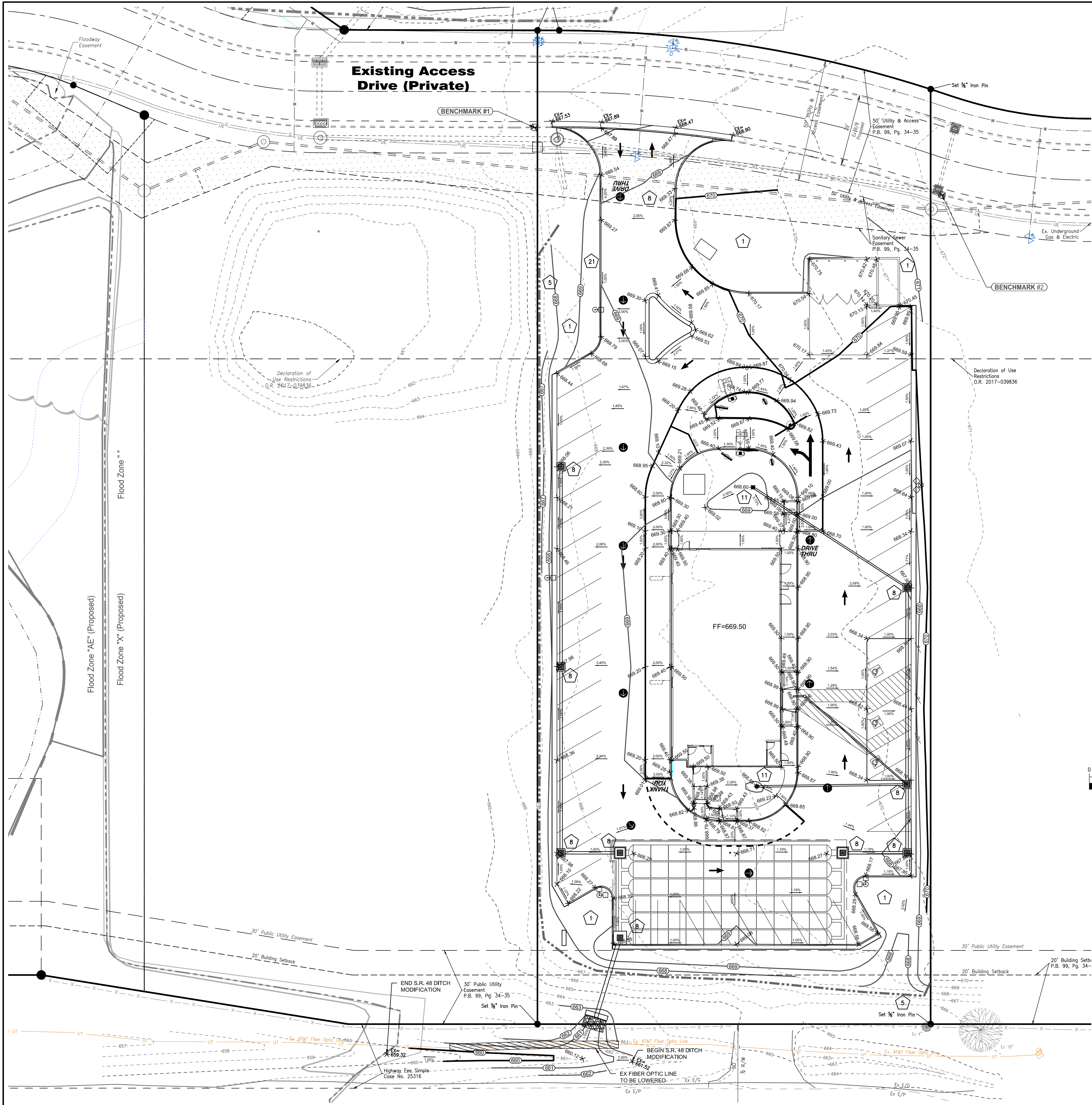
INSPECTION & MAINTENANCE

- | | |
|--------|--|
| STEP 1 | INSPECT ISOLATOR ROW FOR SEGMENT |
| | INSPECTION POINT IF PRESENT |
| | 1. REMOVE COVER ON IN-PAVEMENT NEARING DRIVE |
| | 2. REMOVE AND CLEAN FLEXPORTER IF INSTALLED |
| | 3. INSPECT SEGMENT FOR CRACKS, DISPLACEMENT, OR SEGMENT AND RECORD ON MAINTENANCE LOG |
| | 4. REMOVE A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEGMENT LEVELS (OPTIONAL) |
| | 5. IF CRACKS ARE PRESENT, PROCEED TO STEP 3 |
| | 6. IF ALL CRACKS GONE |
| | 7. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW |
| | 8. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE |
| | 9. RECORD ON LOGS OR FOLDER |
| | 10. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE |
| | 11. IF SEGMENT AT 5' OR ABOVE, 5' (90) FROM PROCEED TO STEP 2, NOT PROCEED TO STEP 3 |
| STEP 2 | CLEAN OUT ISOLATOR ROW USING THE JETVAC METHOD |
| | 1. FLOOD THE VERY LAST CLEANED SECTION OF ISOLATOR ROW TO A DEPTH OF 12" (11) OR MORE IS PREFERRED |
| | 2. APPLY MULTIPLE PASSES OF THE JETVAC METHOD, UNTIL BACKFLOW WATER IS CLEAN |
| | 3. VACUUM STRUCTURE DRY |
| STEP 3 | REPLACE ALL COVERS, GRATES, FILTERS, AND LOGS, RECORD OBSERVATIONS AND ACTIONS |
| STEP 4 | INSPECT AND CLEAN GRATES AND MANHOLE BOTTOMS FOR DEBRIS AND OIL CONTAMINATION |

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

[illegible]



GRADING NOTES

1. LOCATION OF EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO BEGINNING WORK.
2. THE GRADING PLAN IS TO BE USED FOR GRADING PURPOSES ONLY.
3. CONTRACTOR SHALL OBTAIN A COPY OF THE COMPLETE GEOTECHNICAL REPORT AND ALL ADDENDUMS PRIOR TO BIDDING THE PROJECT.
4. CONTRACTORS SHALL SET UP AN ONSITE PRE-CONSTRUCTION MEETING WITH THE OWNER, EARTHWORK CONTRACTOR, AND SITE CIVIL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY ALL EARTHWORK QUANTITIES PRIOR TO AWARD OF CONTRACT. PAY QUANTITIES ARE FINAL EXCEPT FOR DOCUMENTED UNDERCUT APPROVED BY DEVELOPER PRIOR TO COMPLETION OF THE EXTRA WORK. UPON REQUEST, CONTRACTORS MAY HAVE ACCESS TO THE SITE TO FIELD CHECK TOPOGRAPHY. ALL PROPOSED CONTOURS & SPOT ELEVATIONS ARE INTENDED TO BE FINAL GRADES AND REFLECT PAVEMENT, FINISH FLOOR OR TOP SOIL PLACEMENT UNLESS OTHERWISE SPECIFIED. ALL SPOT ELEVATIONS IN PAVEMENT AREAS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL EARTHWORK AND CONSTRUCTION ACTIVITY SHALL BE PERFORMED PER THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER AS DESCRIBED IN THE GEOTECHNICAL EXPLORATION REPORT AND ALL ADDENDUMS.

SWPPP NOTES

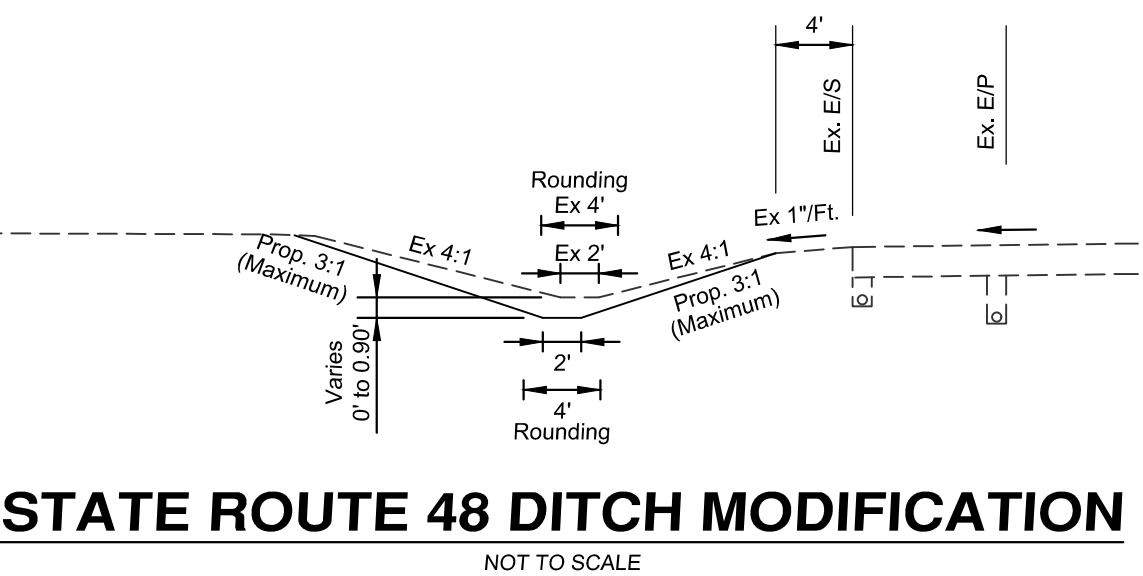
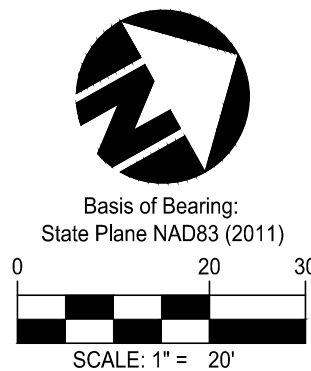
1. THE CONSTRUCTION ACTIVITY WILL CONSIST OF DEMOLITION OF EXISTING BUILDING, CURB, WALK AND PAVEMENT, MASS EARTHWORK, UTILITY INSTALLATION, CURB AND PAVEMENT CONSTRUCTION, AND THE PROPOSED BUILDING CONSTRUCTION.
2. ACREAGE:
 - LOT 1.57 ACRES
 - DISTURBED AREA 1.17 ACRES
 - PRIOR LAND USE McDonald's RESTAURANT
3. IMPERVIOUS CALCULATIONS:
 - IMPERVIOUS AREA 0.11 ACRES
 - PRE-DEVELOPED 0.98 ACRES
 - POST-DEVELOPED 0.98 ACRES
 - IMPERVIOUS PERCENTAGE 7.0 %
 - PRE-DEVELOPED 62.4 %
 - POST-DEVELOPED 62.4 %
4. EXISTING SOIL DATA:
 - SYMBOL SOIL NAME HSG
 - Gn GENESSEE LOAM B
 - Oa OCKLEY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 0 TO 2 PERCENT SLOPES B
 - Rn ROSS LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED B
5. POSSIBLE PREVIOUS CONTAMINATIONS: FERTILIZER AND CHEMICALS TO CONTROL WEEDS.
6. THE DEVELOPMENT DRAINS TOWARD STORM SEWER ALONG NILES ROAD.
7. RUNOFF COEFFICIENT:
 - PRE-CONSTRUCTION 0.45
 - POST-CONSTRUCTION 0.90
8. OHIO EPA NPDES PERMIT NUMBER: XXXX

EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.
2. BEST MANAGEMENT PRACTICES (BMPs) SHOWN ON PLANS SHALL BE REVISED OR IMPLEMENTED AS REQUIRED. CONTRACTOR SHALL MONITOR CONSTRUCTION BMPs AND PROVIDE ADDITIONAL BMPs AS REQUIRED TO PREVENT SEDIMENT RUNOFF FROM CONSTRUCTION SITE ONTO PAVEMENT AND NON-WORK AREAS.
3. AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. QUALIFIED INSPECTION PERSONNEL, (THOSE WITH KNOWLEDGE AND EXPERIENCE IN THE INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS) SHALL CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE EROSION CONTROL IS ADEQUATE AND PROPERLY IMPLEMENTED OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.
4. SITE STABILIZATION SHALL BEGIN WITHIN 7 DAYS ON AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED FOR 14 DAYS.
5. ALL MUD OR DEBRIS TRACKED ON EXISTING STREETS AND PARKING LOT PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAY OR AS DIRECTED BY THE OWNER. PERIODIC STREET SWEEPING MAY BE REQUIRED.
6. IN ADDITION TO ANY TEMPORARY EROSION, MUD, AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHOULD PLACE TEMPORARY OR PERMANENT SEEDING, MULCHING AND/OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD, AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONSTRUCTED OR EXISTING ROADS, OR INTO EXISTING SEWERS OR NEW SEWERS WITHIN THE DEVELOPMENT. THE CONTRACTOR SHOULD CONTINUALLY MONITOR THE CONSTRUCTION PROGRESS AND MAKE ANY NECESSARY TEMPORARY ADJUSTMENTS TO MAINTAIN THIS CONTROL.
7. AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, TEMPORARY EROSION AND SEDIMENT CONTROLS CAN BE REMOVED.
8. DISCHARGE FROM DEWATERING OF FLOODED FOOTER OR FOUNDATION AND UTILITY TRENCHES CONTAINING SEDIMENT MUST BE DIRECTED TO A SEDIMENT CONTROL PRACTICE PRIOR TO DISCHARGE FROM THE SITE. A DE-WATERING PLAN SHALL BE DEVELOPED PRIOR TO THE COMMENCEMENT OF ANY PUMPING ACTIVITIES.
9. NON-SEDIMENT POLLUTANT SOURCES, WHICH MAY BE PRESENT ON A CONSTRUCTION SITE, INCLUDE PAVING OPERATIONS, CONCRETE WASHOUT, STRUCTURE PAINTING, STRUCTURE CLEANING, DEMOLITION DEBRIS DISPOSAL, DRILLING AND BLASTING OPERATIONS, MATERIAL STORAGE, SLAG, SOLID WASTE, HAZARDOUS WASTE, CONTAMINATED SOILS, SANITARY AND SEPTIC WASTES, VEHICLE FUELING AND MAINTENANCE ACTIVITIES, AND LANDSCAPING OPERATIONS. NON-SEDIMENT POLLUTANT SOURCES SHALL NOT BE DISCHARGED TO STORM SEWERS OR NATURAL STREAM/DRAINAGE WAYS. SEE PLAN FOR CONCRETE WASHOUT LOCATION.

POST CONSTRUCTION WATER QUALITY NOTES

1. THE OWNER IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE PERMANENT WATER QUALITY SYSTEM ON THE SITE PER THE APPROVAL AND WILL COMPLETE ANY NECESSARY REPAIRS AND/OR PREVENTIVE MAINTENANCE PROCEDURES IN A TIMELY MANNER TO ENSURE PROPER FUNCTIONING OF THE SYSTEM AS A STORM WATER MANAGEMENT DEVICE.



LEGEND

- 1 SEEDING & MULCHING
- 5 SILT FENCE OR MULCH BERM
- 8 DANDY BAG (OR APPROVED EQUAL)
- 11 INLET PROTECTION
- 21 CONSTRUCTION ENTRANCE
- F.F. FINISHED FLOOR ELEVATION
- Ex xxx.xx EXISTING SPOT GRADE
- Prop xxx.xx PROPOSED TOP OF PAVEMENT
- Prop xxx.xx PROPOSED CONTOURS
- Ex xxx.xx EXISTING CONTOURS



CAUTION!!!
ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

BY: GJK

DESCRIPTION: REVISE UNDERGROUND DETENTION & UTILITIES

DATE: 03-12-20

REV: 1

STATE OF OHIO
GREGORY J. KOCH
L-69324
REGISTERED PROFESSIONAL ENGINEER
3/12/20

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L/C# 34-2068

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THESE TRADE MARKS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

PROPOSED McDONALD'S RESTAURANT AT:
RIVERS CROSSING WEST
VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OH

JOB NO. 19-0175

DATE: 12/5/19

SCALE: 1"=20'

GRADING PLAN

SHEET: C5.0

PERMANENT SEEDING

Permanent seeding includes the seedbed preparation, seeding, and the establishment of perennial vegetation used to permanently stabilize soil, prevent sediment pollution, reduce runoff by promoting infiltration, and provide storm water quality benefits offered by dense vegetation.

CONDITIONS WHERE PRACTICE APPLIES

Permanent seeding should be applied to:

- Areas or portions of construction-sites which can be brought to final grade. Applications of permanent seeding should not be delayed while construction on limited portions of the site being completed.
- Areas on that will be degraded, but will be dormant for a year or more.

PLANNING CONSIDERATIONS

Healthy dense turf will have a dramatic long lasting effect on stormwater quality as well as promoting infiltration and reducing the amount of runoff. To establish quality vegetation, careful preparation of the seedbed, soil, even subsoil is highly encouraged.

Soil Compaction--Stormwater quality and the amount of runoff both vary significantly with soil compaction. Non-compacted soils improve stormwater by promoting:

- dense vegetation
- high infiltration & lower runoff rates
- pollutant filtration, deposition & absorption, and
- beneficial biologic activity in the soil.

Construction activity can cause highly compacted soils but also offers the opportunity to improve soil condition. The best time for improving soil condition is during the establishment of permanent vegetation. It is highly recommended that subsoilers, plows or other implements be specified as part of final seedbed preparation. Use discretion in slip-prone areas.

Minimum Soil Conditions--Vegetation cannot be expected to stabilize soil that is unstable due to its texture, structure, water movement or excessively steep slope. The following minimum soil conditions are needed for the establishment and maintenance of a long-lived vegetation cover. If these conditions cannot be met, see the Standards and Specifications for Re seeding.

- Soils must include enough fine-grained material to hold at least a moderate amount of available moisture.
- The soil must be free from material that is toxic or otherwise harmful to plant growth.

Permanent Seeding				
Seed Mix	Seeding Rate		Notes:	
	lb./ac.	lb./1,000 ft. ²		
General Use				
Creeping Red Fescue	20-40	1/2-1		
Ryegrass	10-20	1/4-1/2		
Kentucky Bluegrass	10-20	1/4-1/2		
Tall Fescue	40	1		
Dwarf Fescue	40	1		
Steep Banks or Cut Slopes				
Tall Fescue	40	1		
Crown Vetch	10	1/4	Do not seed later than August	
Tall Fescue	20	1/2		
Flat Pea	20	1/2	Do not seed later than August	
Tall Fescue	20	1/2		
Road Ditches and Swales				
Tall Fescue	40	1		
Dwarf Fescue	90	2 1/4		
Kentucky Bluegrass	5			
Lawns				
Perennial Ryegrass	60	1 1/2		
Kentucky Bluegrass	60	1 1/2		
Creeping Red Fescue	60	1 1/2	For shaded areas	
Kentucky Bluegrass	60	1 1/2		
Note: Other approved seed species may be substituted.				

Maintenance for Permanent Seedings					
Fertilization and Mowing					
Mixture	Formula	lb./ac.	lb./1,000 sq. ft.	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12		Not closer than 3"
Tall Fescue	10-10-10	500	12	Fall, yearly or as needed	Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 yrs. thereafter	Do not mow
Flat Pea Fescue	0-20-20	400	10		Do not mow
Note: Following soil test recommendations is preferred to fertilizer rates shown above.					

SITE PREPARATION

- A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.
- The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.
- Resoil shall be applied where needed to establish vegetation.

SEEDBED PREPARATION

- Little-Agricultural grade limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac.
- Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10 or 12-12-12 analysis.
- The time and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or August 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

MULCHING

- Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.
- Materials
 - Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq. ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
- Straw Mulch Anchoring Methods
 - Straw mulch shall be anchored immediately to minimize loss by wind or water.
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped by, generally, be left longer than 6 in.

PERMANENT SEEDING

MAINTENANCE

- Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation conditions. It may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.

DORMANT SEEDINGS

- Seeding shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.
- The following methods may be used for "Dormant Seeding":
 - From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
 - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilizer, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
 - Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
 - Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.
 - Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction-site prone to erosion and should be used everywhere the sequence of construction operations allow vegetation to be established.
 - Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - Synthetic Binders--Synthetic binders such as Acrylic DLR (Agni-Tac), DAC-70, Petrosol, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood Cellulose Fiber--Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 60 lb./100 gal. of wood cellulose fiber.

IRRIGATION

- Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed germination and plant growth.
- Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion and damage from runoff.

TEMPORARY SEEDING

Temporary seeding provides erosion control on areas in between construction operations. Grasses which are quick growing are seeded and usually mulched to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction-site prone to erosion and should be used everywhere the sequence of construction operations allow vegetation to be established.

CONDITIONS WHERE PRACTICE APPLIES

Temporary seeding should be applied on exposed soil where additional work (grading, etc.) is not scheduled for more than 21 days. Permanent seeding should be applied if the areas will be idle for more than a year.

PLANNING CONSIDERATIONS

This practice has the potential to drastically reduce the amount of sediment eroded from a construction-site. Control efficiencies greater than 90% will be achieved with proper applications of temporary seeding. Because practices usually much less effective, temporary seeding is to be used even on areas where runoff is treated by sediment trapping practices. Because temporary seeding is highly effective and practical on construction-sites, its liberal use is highly recommended.

Temporary Seeding Species Selection

Seeding Dates	Species	Lb./1,000 ft. ²	Per Acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
August 16 to November 1	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
November 1 to Spring Seeding	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Use mulch only, sodding practices or dormant seeding.		
Note: Other approved seed species may be substituted.			

- Structural erosion- and sediment-control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction-site.
- Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical construction projects.
- The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
- Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.
- Seeding Method--Seed shall be applied uniformly with a cyclone seeder, drill cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

MULCHING TEMPORARY SEEDING

- Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.
- Materials:
 - Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
- Straw mulch shall be anchored immediately to minimize loss by wind or water. Anchoring Methods:
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in.
 - Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentration runoff and on critical slopes.
 - Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - Synthetic Binders--Synthetic binders such as Acrylic DLR (Agni-Tac), DAC-70, Petrosol, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal.

SILT FENCE

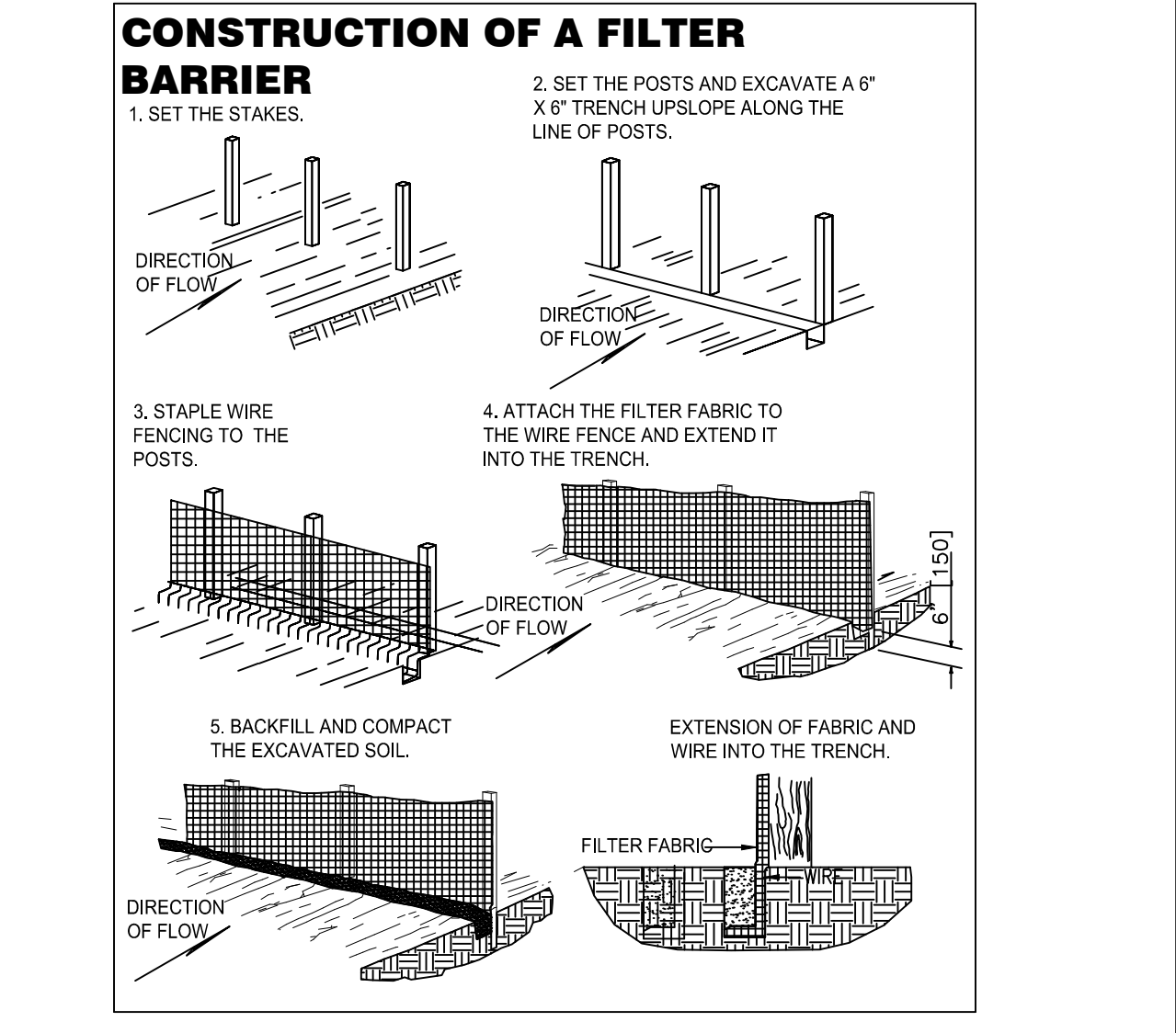
INSTALLATION

- PUT UP BEFORE ANY OTHER WORK IS DONE.
- INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP SIDESLOPES A SHORT DISTANCE.
- PLACE PARALLEL TO THE CONTOUR OF THE LAND AND AT THE FLATTEST AREA AVAILABLE TO ALLOW WATER TO POND BEHIND FENCE.
- STAKE TO BE A MINIMUM OF 32 INCHES LONG
- MINIMUM HEIGHT SILT FENCE 16 INCHES ABOVE ORIGINAL GROUND SURFACE
- LEAVE NO GAPS BETWEEN SECTIONS OF SILT FENCE INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE HEIGHT.
- MAXIMUM DISTANCE FROM TOE OF THE SLOPE, LEAVING AT LEAST 5' DISTANCE.
- STAKE ON DOWNHILL SIDE OF GEOTEXTILE WITH 8" OF CLOTH CLOTH BELOW THE GROUND SURFACE; EXCESS MATERIAL TO LAY ON THE BOTTOM OF 6" TRENCH
- ODOT TYPE "C" GEOTEXTILE FABRIC OR EQUAL
- MAINTAIN UNTIL A LAWN IS ESTABLISHED.

MATERIALS: FILTER FABRIC SHALL MEET THE REQUIREMENTS OF CMS 712.09, TYPE C, SUPPORT STAKES SHALL BE A MINIMUM OF 1 1/2 X 1 1/2 (3X3X3) NOMINAL, AND SHALL BE HARDWOOD OF SOUND QUALITY. THE STAKES SHALL BE DRIVEN A MINIMUM OF 6" (150) BELOW THE BOTTOM OF THE FILTER FABRIC. THE MAXIMUM SPACING BETWEEN SUPPORT STAKES SHALL BE 10' (3 M).

CONSTRUCTION: THE BOTTOM OF THE FABRIC SHALL BE BURIED 6" (150) BELOW THE GROUND. THE ENDS OF ADJACENT SECTIONS OF FENCE SHALL BE OVERLAPPED WITH THE END STAKE OF EACH SECTION WRAPPED TOGETHER PRIOR TO INSTALLATION. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED UPSLOPE TO PREVENT FLOW AROUND THE END OF THE FENCE. MAINTENANCE: THE FILTER FABRIC FENCE SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR, AND REPLACEMENT OF THE FILTER FABRIC. THE MAINTENANCE OR REPLACEMENT COST WILL BE PAID FOR BY THE DEPARTMENT UNDER UNIT BID PRICES, AGREED UNIT PRICES, OR CMS 109.04.

PAYMENT: THE COST OF ALL MATERIALS, CONSTRUCTION AND REMOVAL SHALL BE PAID FOR UNDER ITEM 207-TEMPORARY PERIMETER FILTER FABRIC FENCE OR TEMPORARY DITCH CHECK FILTER FABRIC FENCE, LINEAR FOOT (METER).



INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

11

2"x4" Frame

Geotextile Over Wire Mesh Backing

Compact Backfill Around Inlet

DANDY BAGS DETAIL

5

DANDY BAG®

STORM SEWER GRATE

VELCRO CLOSURE

LIFT STRAPS USED FOR EASY MOVEMENT AND INSPECTION OF UNIT

STORM SEWER GRATE

DANDY BAG®

DETAIL OF INLET SEDIMENT CONTROL DEVICE

PROJECT: DATE: DR. BY: CITY/STATE: DATE: DR. NO:

Erosion Prevention and Sediment Control Site Inspection Form

Introduction: By using some simple Best Management Practices (BMP's) developers and contractors can do their share to protect water resources from the harmful effects of sediment. The topography of the site and the extent of the construction activities will determine which of these practices are applicable to any given site, but the BMP's listed here are applicable to most construction sites. For details on the installation and maintenance of these BMP's, please refer to the approved plans and or the Rainwater and Land Development, Ohio's Standards for Storm Water Management, Land Development and Urban Stream Protection (ODNR, 1996).

Temporary Stabilization is the most effective BMP. All disturbed areas that will lie dormant for 14 days or more must be stabilized within 7 days of the date the area becomes inactive. The goal of temporary stabilization is to provide cover quickly. Areas within 50 feet of a stream must be stabilized within 2 days of reaching final grade. This is accomplished by seeding with fast-growing grasses, then covering with straw mulch. See the Rainwater and Land Development Manual for seasonally adjusted seeding specifications. To minimize your costs of temporary stabilization, leave natural cover in place for as long as possible by only disturbing areas worked within the next 14 days.

Construction Entrances are installed to minimize off-site tracking of sediments. A rough stone access drive underlain with woven geotextile shall be installed at every point where vehicles enter or exit the site. Every individual lot should also have its own drive once construction on the lot begins. Maintenance is performed by top dressing with stone and/or street sweeping.

Sediment Basins/Traps are the sediment control of choice for areas, which exceed the design capacity of silt fence (see page 119 of the Rainwater manual) or to control concentrated flows or runoff. There are two types: sediment basins and sediment traps. A trap is appropriate where the contributing drainage area is 10 acres or less. The outlet is an earthen embankment with a simple stone spillway underlain with woven geotextile. A sediment basin is appropriate for drainage areas larger than 10 acres. The outlet is an engineered riser pipe. Often a permanent storm water management pond, such as a retention or detention basin, can be retrofitted to act as a sediment basin during construction. All sediment ponds, regardless of whether they are a trap or a basin, or whether they will become a permanent storm water pond, must provide a minimum storage of 67 cubic yards per acre of total contributing drainage area. Sediment ponds must be installed prior to mass clearing and grading. Maintenance must be performed once the basin loses 40% of capacity, and 30% for storm water basins retrofitted as sediment basins.

Silt Fence or Mulch Berms are typically used at the perimeter of a disturbed area. They are only for small drainage areas on relatively flat slopes or around small soil storage piles; not suitable where runoff is concentrated in a ditch, pipes or through streams. For large drainage areas where flow is concentrated, collect runoff in diversion berms or channels and pass it through a sediment pond prior to discharging it from the site. Combination barriers constructed of silt fence supported by welded wire fencing, mulch berms supported by rock check dams, or silt fence embedded within rock check dams may be effective within small channels. As with all sediment controls, silt fence or mulch berms must be capable of ponding runoff so that sediment can settle out of suspension. These must be installed within 7 days of first grubbing the area it controls. Whenever practical they should be installed before clearing or grubbing the area it controls.

Inlet Protection must be installed on all yard drains and curb drains when these inlets do not drain to a sediment trap or basin. Even if there is a sediment trap or basin, inlet protection is still recommended, as it will reduce the amount of sediment entering the basin and increase the overall sediment removal efficiency. Best used on roads with little or no traffic. If working properly, inlet protection will cause water to pond. If used on curb inlets, streets will flood temporarily during heavy storms, (overflow should be built-in.) Check with the authority that has jurisdiction over the roads before installing. They may prefer an alternate BMP. Care should be taken when placing inlet protection so that the runoff is not diverted to public roads or other areas where it could cause a hazard.

Permanent Stabilization must occur on areas at final grade within 7 days of reaching final grade. This is usually accomplished by using seed and mulch, but special measures are sometimes required. This is particularly true in drainage ditches or on steep slopes. These measures include the addition of topsoil, erosion control matting, rock riprap or retaining walls. See the Rainwater and Land Development Manual for seasonally adjusted seeding specifications. At all times of the year, the area should be temporarily stabilized until a permanent seeding can be applied.

Inspections shall be performed at least once a week and within 24 hours after a storm event greater than 1/2 inch of rainfall within a 24-hour duration using the enclosed Inspection Form. Inspections can be tracked using the enclosed Inspection Log. These shall be maintained throughout the development process and kept on file for three years per OEPa requirement. Erosion prevention and sediment control (EP&SC) measures shall be observed to ensure correct operation. Discharge locations shall be inspected to determine effectiveness of EP&SC measures in preventing significant impacts to the receiving waters. Where practices require repair or maintenance, it must be accomplished within three days of the inspection or as soon as site conditions allow. Repairs to sediment ponds shall be completed within 10 days or as soon as site conditions allow. Most of these BMP's are easy to implement with a little bit of planning and go a long way toward keeping your site clean and organized if they are properly installed and maintained. Please be sure to inform all parties on site how these BMP's affect their operations on the site, particularly those that will be working near a stream.

Erosion Prevention and Sediment Control Site Inspection Form

Inspector: _____ Date: _____

General:

Amount of rainfall since last inspection: _____ inches

Overall site conditions: _____

Construction Entrances:

Is the entrance installed correctly according to the approved plan? YES NO N/A

(Check for mud in stones/street, runoff diverted from street, etc.)

Action Needed: _____

Sediment Basins/Traps:

Are all Basins installed correctly according to the approved plan? YES NO N/A

(Check for runoff directed to basin, down slope areas stabilized, riser pipe wrapped with wire fence/filter fabric, emergency overflow, accumulated sediment more than 40% of volume, etc.)

Action Needed: _____

Silt Fence/Mulch Berms:

Are all Silt Fence/Mulch Berm (SF/MB) installed correctly according to the approved plan? YES NO N/A

(Check for fabric trenched in, follow contour, turned upslope at ends, silt accumulated, broken stakes, tight fabric, installed in all areas where sediment could leave the site)

Action Needed: _____

Inlet Protection:

Are all Inlet Protections installed correctly according to the approved plan? YES NO N/A

(Check for runoff ponding, in good shape, silt accumulated, etc.)

Action Needed: _____

Temporary Stabilization:

Are all disturbed areas that will lie dormant for 14 days or more stabilized with seed/straw or mulch? (stockpiles, hillsides, etc.) YES NO N/A

Are all areas stabilized still in good condition and not eroding? YES NO N/A

Permanent Stabilization:

Have areas that achieved final grade within the last 7 days been stabilized? YES NO N/A

Do all storm water outflow areas have riprap or concrete to prevent scouring? YES NO N/A

Stream Crossing:

Are the Stream Crossings installed correctly according to the approved plan? YES NO N/A

(Check for stabilized edges, runoff diverted from stream, mud over stones, end of useful life, etc.)

Action Needed: _____

Erosion Prevention and Sediment Control Site Inspection Form

If you answered "no" to any of the above questions, note any corrective action needed above, and note on the Inspection Log when the action was completed.

Inspection Log

The site shall be inspected before and after storm events with 0.5 inches or greater predicted or actual precipitation, and documented on the Construction Site Inspection Form. Incidents of noncompliance must be reported to the Engineer. A log of all inspections, as shown below, shall be kept current.

Date:	Inspector:	Actions Performed/Date:

CONSTRUCTION ENTRANCE

21

75 ft. (or 30' for Access to Individual House)

10 ft. Min. and not less than width of Ingress/Egress

RW Diversion as Needed

Road or Other Existing Paved Surface

Culvert as Needed

18" or Sufficient to Divert Runoff

BY

DESCRIPTION

DATE

REV

STATE OF OHIO
GREGORY J. KOCH
REGISTERED PROFESSIONAL ENGINEER
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PROPOSED McDONALD'S RESTAURANT AT:
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VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OH

JOB NO. 19-0175

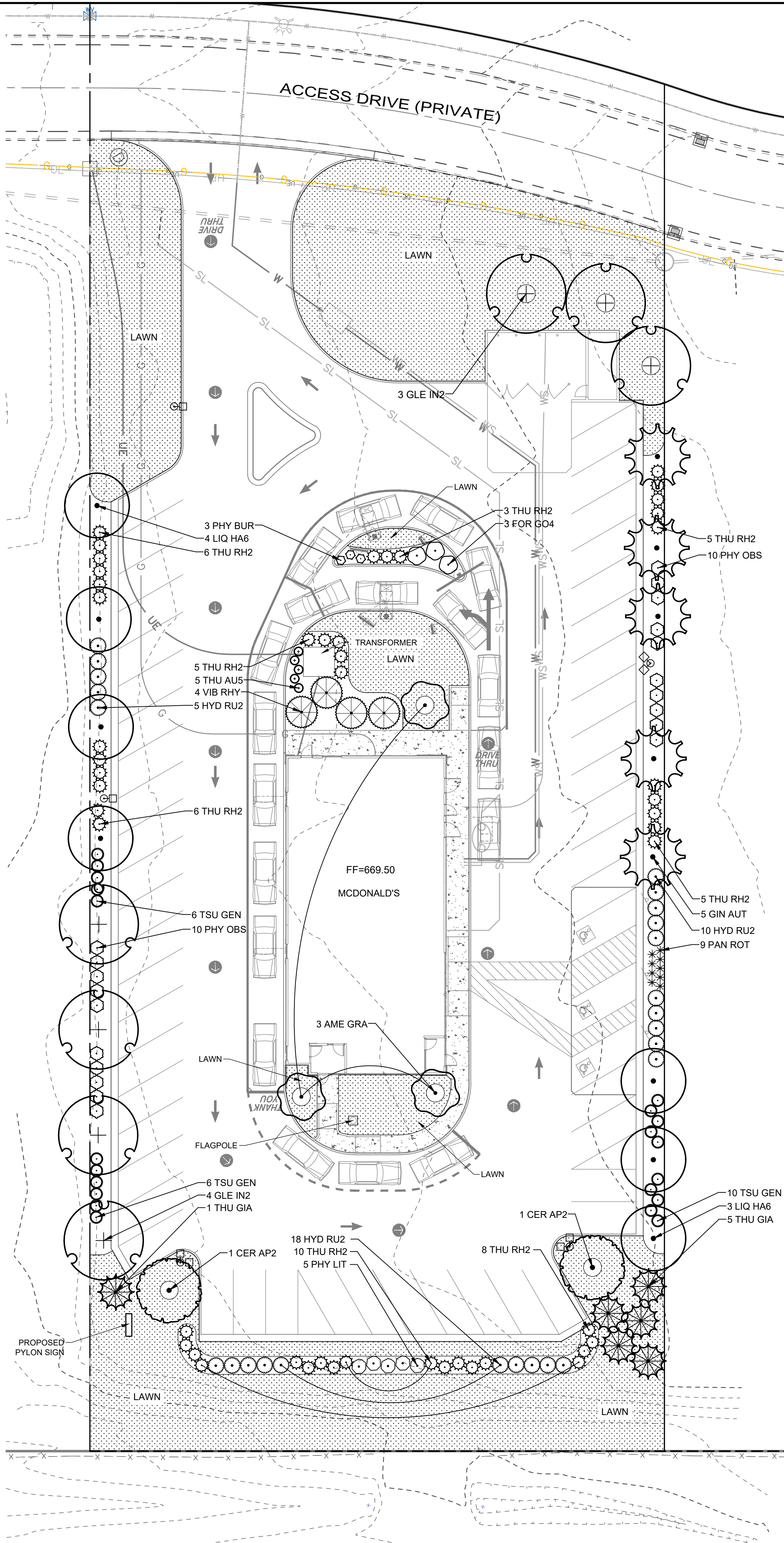
DATE: 12/5/19

SCALE: 1"=20'

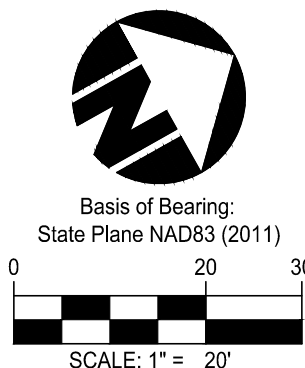
EROSION DETAILS

SHEET: C5.1

Plot time: Mar 12, 2020 - 5:02pm - Login Name: gregloch
Drawing name: J:\2019\19-0175\LA DWG\19-0175 LA.dwg - Layout Tab: L1.0



STATE ROUTE #48



ZONING CALCULATIONS

REQUIRED PARKING LOT SCREENING (SECTION 15.17.5)
ALL PARKING LOTS WITH FIVE (5) OR MORE PARKING SPACES, INCLUDING VEHICULAR SALES LOTS, THAT FACE ANY PROPERTY IN ANY ZONE OR ANY PUBLIC OR PRIVATE STREET RIGHT-OF-WAY OR ACCESS ROAD OR SERVICE ROAD SHALL PROVIDE A LANDSCAPE SCREEN AS FOLLOWS:

1. THE BUFFER WIDTH SHALL BE A MINIMUM OF 10' WIDE
2. A 30" HIGH CONTINUOUS SCREEN CONSISTING OF AN EARTH MOUND, PLANTING, HEDGE OR DECORATIVE WALL OR ANY COMBINATION THEREOF, SHALL BE PROVIDED.
3. ONE DECIDUOUS TREE SHALL BE REQUIRED FOR EVERY 30 LF OF THE REQUIRED BUFFER ZONE
4. THE PLANNING COMMISSION MAY MODIFY OR WAIVE THE PARKING LOT PERIMETER LANDSCAPING REQUIREMENTS IF THE PROVIDED BUFFER STRIP LANDSCAPING ADJACENT TO RIGHTS-OF-WAY AND BETWEEN LAND USES ADEQUATELY SCREENS THE PARKING LOT FROM VIEW FROM ADJACENT PROPERTIES AND ROADS

SOUTH BUFFER
A 4' TALL CONTINUOUS SHRUB BUFFER IS PROVIDED IN LIEU OF TREES TO SCREEN THE PARKING LOT AND ALLOW VIEWS OF THE BUILDING FROM STATE ROAD 48

EAST BUFFER
232.62 LF / 30 = 8 DECIDUOUS TREES

WEST BUFFER
216.5 LF / 30 = 8 DECIDUOUS TREES

ON-SITE LANDSCAPING (SECTION 15.17.9)
FOR EVERY NEW NON-RESIDENTIAL DEVELOPMENT, THERE SHALL BE INTERIOR LANDSCAPING AREAS EXCLUSIVE OF ANY OTHER REQUIRED LANDSCAPING CONSISTING OF AT LEAST 5% OF THE TOTAL LOT AREA. THIS LANDSCAPED AREA SHOULD BE GROUPED NEAR BUILDING ENTRANCES, ALONG BUILDING FOUNDATIONS, ALONG PEDESTRIAN WALKWAYS, AND ALONG SERVICE AREAS. ALL INTERIOR LANDSCAPING SHALL CONFORM TO THE FOLLOWING:

1. ONE DECIDUOUS TREE OR ORNAMENTAL TREE OR EVERGREEN TREE SHALL BE PROVIDED FOR EVERY 400 SF OF REQUIRED INTERIOR LANDSCAPING AREA
2. ONE SHRUB SHALL BE PROVIDED FOR EVERY 250 SF OF REQUIRED LANDSCAPING AREA
3. THE INTERIOR LANDSCAPING AREA SHALL CONTAIN GRASS, GROUND COVER, 4" DEEP SHREDDED BARK MULCH, AND SHALL BE CURVED OR EDGED AS NECESSARY

TOTAL LOT AREA = 63,515 SF
63,515 SF X 5% = 3,175.75 SF OF REQUIRED LANDSCAPING AREA

3,175.75 / 400 SF = 8 REQUIRED TREES
3,175.75 / 250 SF = 13 REQUIRED SHRUBS

INTERIOR PARKING LOT LANDSCAPING (SECTION 15.17.10)
WITHIN EVERY PARKING AREA CONTAINING AT LEAST 5 PARKING SPACES, AT LEAST 5% OF THE TOTAL PARKING LOT AREA SHALL BE LANDSCAPED, IN ADDITION TO ANY OTHER LANDSCAPING REQUIREMENTS. THIS LANDSCAPING SHALL MEET THE FOLLOWING STANDARDS:

1. ONE DECIDUOUS TREE SHALL BE PLANTED FOR EVERY 300 SF OF REQUIRED INTERIOR PARKING LOT LANDSCAPING AREA
2. LANDSCAPING SHALL BE DISPERSED THROUGHOUT THE PARKING LOT IN ORDER TO BREAK UP LARGE EXPANSES OF PAVEMENT AND HELP DIRECT SMOOTH TRAFFIC FLOW WITHIN THE LOT. A MINIMUM OF 1 TREE SHALL BE PLANTED AND INCLUDED IN EACH LANDSCAPING ISLAND OR REQUIRED LANDSCAPING AREA PURSUANT TO THE CALCULATIONS OF THIS SECTION.
3. LANDSCAPING SHALL BE INSTALLED SUCH THAT WHEN MATURE, IT DOES NOT OBSCURE TRAFFIC SIGNS OR LIGHT, OBSTRUCT ACCESS TO FIRE HYDRANTS NOR INTERFERE WITH ADEQUATE MOTORIST SIGHT DISTANCE.
4. ALL LANDSCAPE ISLANDS SHALL BE CURBED. DIMENSIONS OF ISLANDS SHALL BE SHOWN ON THE SITE PLAN. MINIMUM ISLAND WIDTH SHALL BE 10'; MINIMUM RADIUS SHALL BE 10' AT ENDS FACING MAIN ISLES AND A MINIMUM 1' FOR RADIUS NOT ADJACENT TO MAIN CIRCULATION AISLES. THE LENGTH OF THE ISLANDS SHALL BE 2' SHORTER THAN ADJACENT PARKING SPACE TO IMPROVE MANEUVERING

VUA = 31,618 SF
31,618 SF X 5% = 1,580.9 SF OF REQUIRED LANDSCAPING AREA

1,580.9 / 300 SF = 6 REQUIRED TREES

PLANT SCHEDULE					
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	TYPE	MIN. SIZE
GIN AUT	5	Ginkgo biloba 'Autumn Gold' TM	Maidenhair Tree	B & B	2.0" Cal
GLE IN2	7	Gleditsia triacanthos inermis 'Sunburst'	Sunburst Common Honeylocust	B & B	2.0" Cal
LIQ HA6	7	Liquidambar styraciflua 'Happdell'	Happidaze Sweet Gum	B & B	2.0" Cal
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	TYPE	MIN. SIZE
THU GIA	6	Thuja plicata 'Green Giant'	Western Red Cedar	B & B	6" Ht.
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	TYPE	MIN. SIZE
AME GRA	3	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry Tree Form	B & B	2.0" Cal
CER AP2	2	Cercis canadensis 'Appalachian Red'	Appalachian Red Eastern Redbud	B & B	2.0" Cal
DECIDUOUS SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT
FOR GO4	3	Forsythia x 'Gold Tides'	Golden Tide Forsythia	3 gal	15" Ht.
HYD RU2	25	Hydrangea quercifolia 'Ruby Slippers'	Ruby Slippers Hydrangea	5 gal	24" Ht.
PHY BUR	3	Physocarpus opulifolius 'Burgundy Candy'	Burgundy Candy Ninebark	3 gal	15" Ht.
PHY LIT	5	Physocarpus opulifolius 'Little Devil' TM	Dwarf Ninebark	B&B	24" Ht.
PHY OBS	20	Physocarpus opulifolius 'Obsidian'	Obsidian Ninebark	3 gal	24" Ht.
EVERGREEN SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT
THU AU5	5	Thuja occidentalis 'Aurea'	Golden Globe Arborvitae	B & B	18" Ht.
THU RH2	48	Thuja occidentalis 'Rheingold'	Rheingold Arborvitae	5 gal	24" Ht.
TSU GEN	22	Tsuga canadensis 'Gentsh White'	Gentsh White Hemlock	B & B	18" Ht.
VIB RHY	4	Viburnum x rhytidophylloides 'Alleghany'	Alleghany Viburnum	B & B	36" Ht.
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT
PAN ROT	9	Panicum virgatum 'Rotstrahlbusch'	Rotstrahlbusch Switch Grass	5 gal	Clump



Know what's below.
Call before you dig.

CAUTION!!!
ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

BY

LES

DESCRIPTION

UPDATED UTILITIES

DATE

03-12-20

REV

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PROPOSED McDONALD'S RESTAURANT AT:

RIVERS CROSSING WEST

VILLAGE OF SOUTH LEBANON, WARREN COUNTY, OH

JOB NO. 19-0175

DATE: 2/7/2020

SCALE: 1"=20'

PLANTING PLAN

SHEET: L1.0



SHEET: L2.0