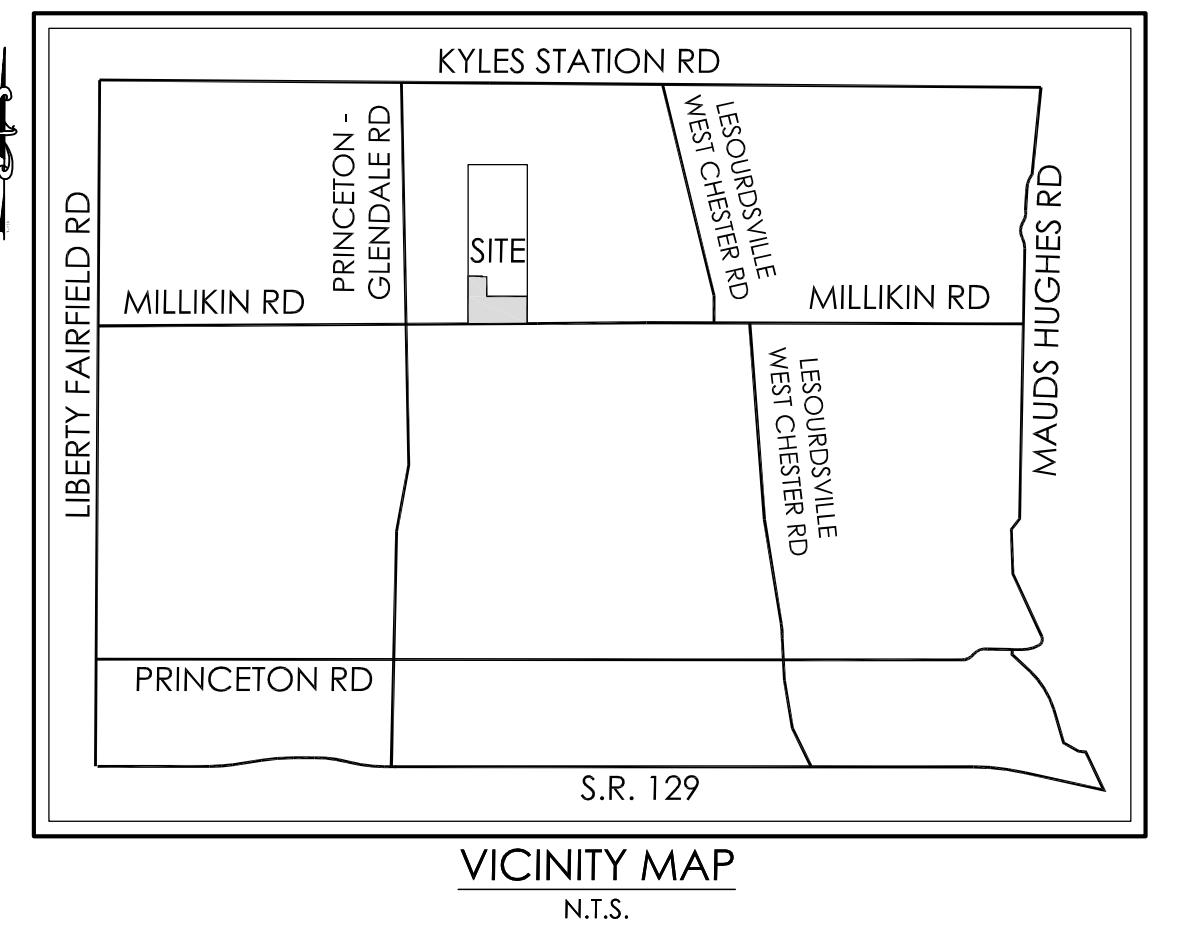




CARRIAGE MEADOWS SECTION 1

SECTION 3, TOWN 2, RANGE 3 LIBERTY TOWNSHIP BUTLER COUNTY, OHIO

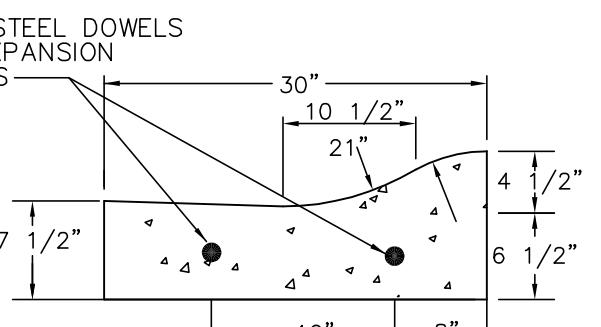


OWNER & DEVELOPER
CARRIAGE MEADOWS, LLC
7556 CENTRAL PARK BOULEVARD
MASON, OH 45040
513-310-7079

NOTE:
ALL LOTS SHALL BE SERVED BY SANITARY SEWER
AND PUBLIC WATER SYSTEMS.

PROJECT BENCHMARK = CENTERLINE NAIL LOCATED AT
THE INTERSECTION OF CARRIAGE HOUSE BOULEVARD
AND STAGECOACH WAY. ELEVATION = 790.52

TOTAL LENGTH OF STREETS: 1,334 L.F.



NOTES:
GENERAL: THIS DRAWING SHOWS THE STANDARD TYPE OF
CURB THAT SHOULD BE USED ON MOST TYPES OF PAVEMENT.
TYPICAL SECTION OF PROJECT SHOWS THE TYPE TO BE USED.
ALSO THE THICKNESS OF THE EDGE OF THE PAVEMENT OR THE
EDGE OF THE CURB AND GUTTER SECTION.

JOINTS: ONE INCH EXPANSION JOINTS SHALL EXTEND UP TO
TOP OF THE CURB AND SHALL BE CONSTRUCTED IN THE CURB
AND GUTTER SECTION IN SUCH A MANNER THAT THE EXPANSION
JOINT WILL EXTEND THE FULL WIDTH OF THE GUTTER AND INTO
THE CURB FACE A SUFFICIENT DISTANCE TO SEAL THE JOINT TO
AN ELEVATION OF AT LEAST TWO (2) INCHES ABOVE THE FLOW
LINE OF THE GUTTER SECTION AT EXPANSION JOINTS. ALL
JOINTS SHALL BE CONSTRUCTED PERMANENTLY. THE EDGE
OF THE CURB AND TOP SURFACE OF THE PAVEMENT
TRANSVERSE EXPANSION JOINT MATERIAL SHALL MEET THE
REQUIREMENTS OF 705.03. EXPANSION MATERIAL AND JOINT
SEALER IS NOT REQUIRED WHEN CURB IS ADJACENT TO
FLEXIBLE TYPE PAVEMENT.

NOTES

- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF HIGHWAYS CONSTRUCTION AND MATERIALS SPECIFICATIONS AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO THESE SPECIFICATIONS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.
- ITEMS THAT PERTAIN TO UNDERGROUND UTILITIES SUCH AS WATERMAIN PIPE, SANITARY SEWER PIPE, WATER VALVES AND MANHOLE FRAMES AND COVERS, ETC. WILL REMAIN UNDER SPECIFICATIONS OF THE UTILITY SERVING THE AREA. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUTLER COUNTY ENGINEER.
- ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND 10' UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEMS 203 AND 603 IN THE STATE SPECIFICATIONS.
- SURFACE COURSE (ITEM 448) AND TACK COAT (ITEM 407 ARE TO BE APPLIED NO SOONER THAN NINE (9) MONTHS AFTER THE LEVELING COURSE (ITEM 448), AND FIFTY (50) PERCENT OF THE HOMES ARE COMPLETED. IF AFTER TWO (2) YEARS, FIFTY (50) PERCENT OF THE HOMES HAVE NOT BEEN COMPLETED, THEN THE TOP COURSE MAY BE APPLIED.
- A MINIMUM 10' UTILITY EASEMENT SHALL BE SHOWN ON THE RECORD PLAT PARALLEL AND IMMEDIATELY ADJACENT TO THE RIGHT OF WAY LINE ALLOWING FOR INSTALLATION, OPERATION AND MAINTENANCE OF SEWERS, WATER, ELECTRIC, WATER CONDUIT AND ANY OTHER PUBLIC OR QUASI PUBLIC UTILITY.
- DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS FOR THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY AT A DEPTH OF 38" FOR USE BY THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY. THE LOCATION AND LOCATION OF THESE LINES SHALL BE COORDINATED WITH UTILITY COMPANIES BY THE DEVELOPER.
- SANITARY LATERALS SHALL BE EXTENDED BEYOND THE LIMITS OF THE UTILITY EASEMENTS, BUT NOT TO EXCEED 12' FROM THE RIGHT OF WAY LINE.
- ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE EXISTING MANHOLES.
- ALL SUMP LINE CONDUITS ARE TO BE SDR 35.
- THE SANITARY SEWER SHALL BE PLACED IN SUCH A MANNER THAT THE SANITARY MANHOLE COVER DOES NOT CONFLICT WITH THE SIDEWALK.

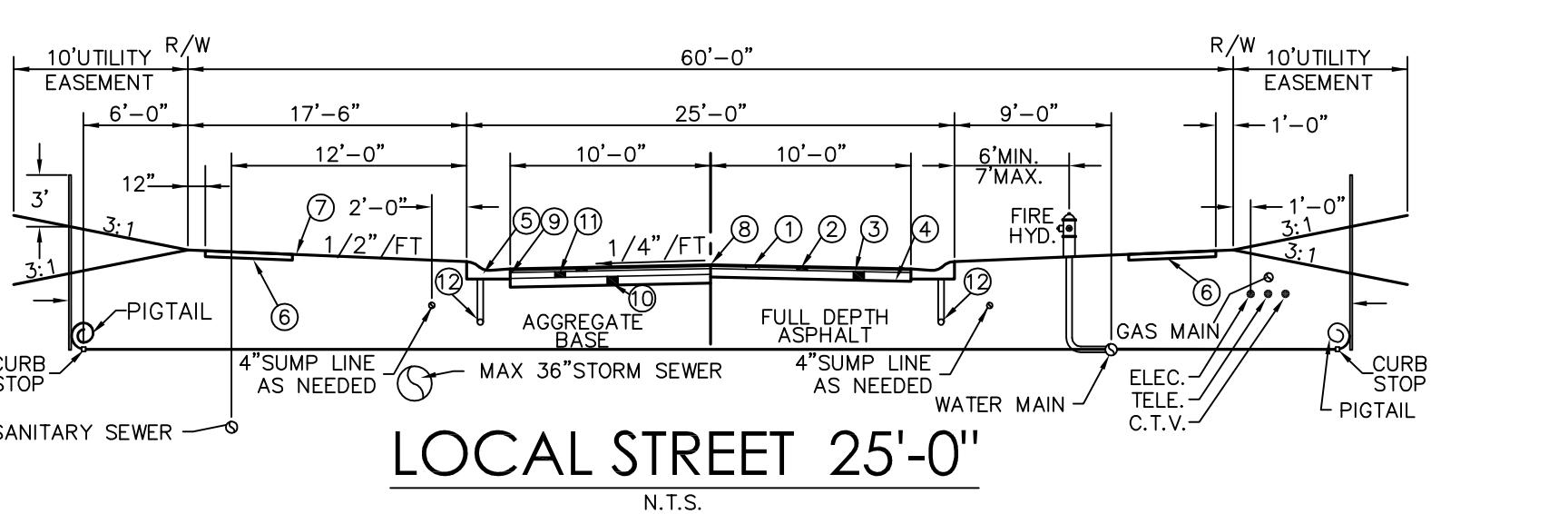
- 1" SURFACE COURSE OF ITEM 448 ASPHALTIC CONCRETE, SEE NOTE #4
- 2 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE
- 3 6" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE
- 4 COMPACTED SUBGRADE, ITEM 203.13
- 5 ROLL TYPE CURB & GUTTER, ITEM 609 (BUTLER CO. STANDARD C-1)
- 6 4" THICK CLASS "C" CONCRETE WALK, 5' WIDE, ITEM 608 WALK TO BE 1/2" HIGHER THAN SOD
- 7 SEEDING & MULCHING, ITEM 659
- 8 TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4
- 9 TACK COAT SHALL BE APPLIED TO FRONT FACE OF CURB PRIOR TO THE INSTALLATION OF THE 301 BITUMINOUS AGGREGATE BASE. ALSO TO BE APPLIED TO THE CURB JOINT AFTER THE INSTALLATION OF 448 LEVELING COURSE
- 10 6" BASE COURSE OF ITEM 304 AGGREGATE BASE
- 11 5" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE
- 12 ITEM 605, 4" UNDERDRAIN CONNECT UNDERDRAIN TO FRONT FACE OF NEAREST CATCH BASIN
- 13 1 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE

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SHEET	DESCRIPTION
1	COVER SHEET
2	IMPROVEMENT PLAN
3	GRADING & SWP3
4	PROFILES
5	NOTES & INT DETAILS
6-7	BUTLER COUNTY WATER & SEWER STANDARD DETAILS
8	EROSION CONTROL NOTES & DETAILS

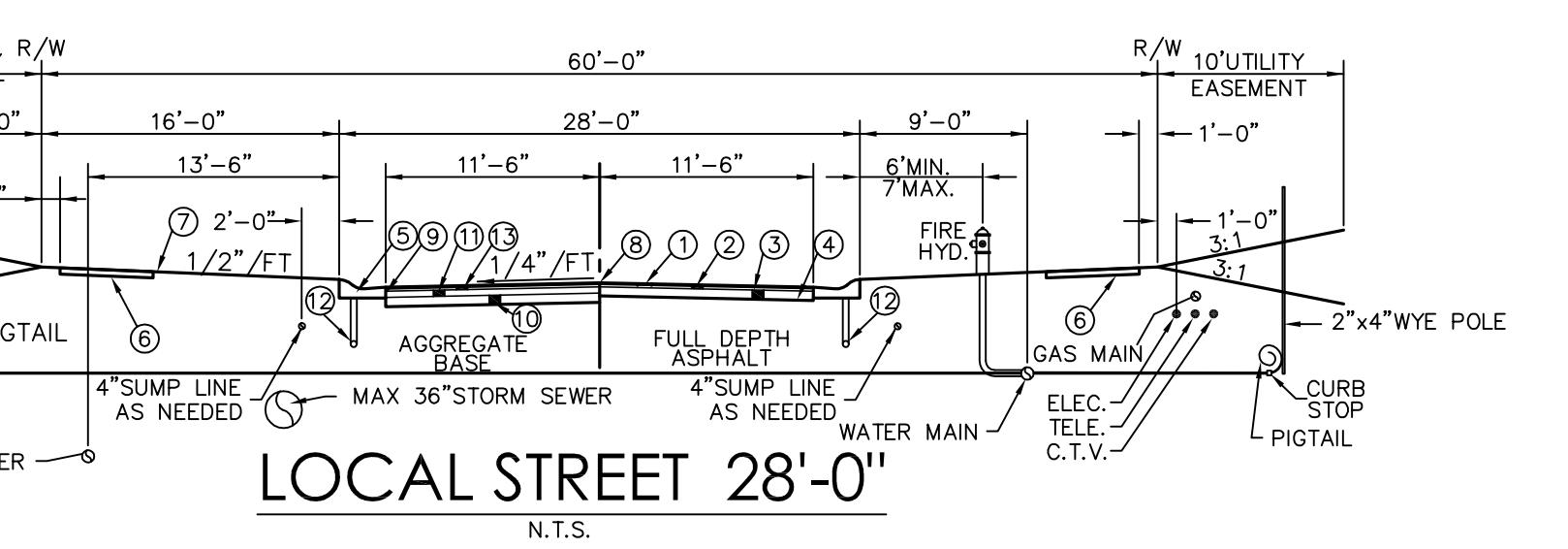
NOTES: LOTS 1-9 & 29 SHALL HAVE NO DIRECT ACCESS TO MILLIKIN ROAD

PARKING ON 25' WIDTH STREETS SHALL BE LIMITED TO ONE SIDE
BEING THE OPPOSITE SIDE OF THE FIRE HYDRANT.



OVERALL PROJECT MAP

1"=200'



GENERAL NOTES

ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE BUTLER COUNTY ENGINEER AND THE AUTHORITY HAVING RESPONSIBILITY FOR UTILITIES IN THE AREA AND IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION.

STORM SEWERS SHALL BE A MATERIAL WITH A MANUFACTURER'S MANNINGS "N" OF 0.011 OR LOWER AND A MATERIAL AS NOTED IN APPENDIX D, TABLE D-6 IN THE BUTLER COUNTY SUBDIVISION REGULATIONS ADOPTED NOVEMBER 24, 1997. (NOTE - CORRUGATED METAL PIPE NOT INCLUDED) STEPS SHALL BE INSTALLED IN CATCH BASINS AND MANHOLES IN EXCESS OF FOUR FEET.

CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ODOT 2019 STANDARDS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.

STUMP COLLECTOR LINES SHALL BE CONSTRUCTED SDR 35 PVC OR APPROVED EQUAL.

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO THE START OF CONSTRUCTION.

SANITARY SEWER MATERIALS AND INSTALLATION AS PER BUTLER COUNTY SEWER MATERIALS SPECIFICATIONS USING SECTION 3110 FOR PVC, SDR-35 & 26 PIPE, SECTION 3140 FOR ABS PVC COMPOSITE PIPE, SECTION 3410 FOR MANHOLES.

SANITARY LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE PROPERTY/RIGHT-OF-WAY LINE OR TO THE EDGE OF THE EASEMENT, WHICHEVER IS GREATER.

THE UPSTREAM TERMINUS OF THE SANITARY SEWER LATERALS SHOWN HEREON ARE TO BE 12 FEET BELOW OF THE ELEVATION OF THE BACK OF CURB.

WATER MAIN SHALL HAVE 4' MINIMUM DEPTH TO TOP OF PIPE. ALL WATER MAINS TO BE DUCTILE IRON PIPE, CL. 53 AWWA C-151. WATER MAIN MATERIALS, VALVES, PIPE Fittings, APPURTENANCES, AND INLETS SHALL BE AS BUTLER COUNTY SPECIFICATIONS, AND SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5 AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.

WATER MAIN SHALL HAVE 10' HORIZONTAL, & 18" VERTICAL SEPARATION (OUTSIDE EDGE TO EDGE) WITH ALL OTHER PIPE.

ALL DOWNSPOUT LINES SHALL BE ON SPLASHBLOCKS AND MAY NOT BE CONNECTED TO THE CURB.

ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEM 203 AND 603 IN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.

THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS OF THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY AS CALLED FOR ON THE TYPICAL SECTION FOR USE BY THE ELECTRIC, TELEPHONE, AND CABLE TELEVISION SERVICES. THE DEVELOPER SHALL COORDINATE THE LOCATION OF THE LINES WITH EACH UTILITY COMPANY.

ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH EXISTING MANHOLES OR WATER MAIN APPURTENANCES.

STORM SEWER PIPE SHALL BE TYPE "B" & "C" CONDUIT, 707.42 PVC, ALL DIA. (CONTECH A200 OR EQUAL), 707.33 PVC, UP TO & INCLUDING 24" DIA (HANCOR, ADS, OR EQUAL), 707.01 CMP, ALL DIA, 706.02, REINFORCED CONCRETE PIPE, ALL DIA.

BUTLER COUNTY WATER & SEWER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTERLINE OF ANY SANITARY MAIN SEWER OR WATER MAIN.

PRIVATE DRIVEWAYS, PARKING LOTS AND OTHER PAVED AREAS, EARTHEN BERMS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER WILL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR OF AND FOR PROVIDING ACCESS TO ANY CURB STOPS, METER PITS, MANHOLES, CLEANOUTS, ETC. INSTALLED IN CONJUNCTION WITH THESE PRIVATE SERVICE LINES AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES.

LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY GROUND CONDITIONS AND EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.

THE EXISTING UTILITIES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

BUTLER COUNTY ASSUMES NO MAINTENANCE RESPONSIBILITY FOR PRIVATE DRIVES.

BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN REPAIRS. BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF GRADE CHANGES. THE GRANTOR SHALL BE RESPONSIBLE FOR THE PROPER ADJUSTMENT OF VALVES, FIRE HYDRANTS, METER PITS, ETC. TO THE SATISFACTION OF BUTLER COUNTY, DUE TO GRADE CHANGES, PAVING, REPAVING, ETC. INITIATED BY THE GRANTOR.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF FOUR FEET (4') OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER AT THE POINT OF CONNECTION, AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST ONE FOOT (1') ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OR WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVEL SHALL BE RECORDED ON THE "AS BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF THE BUTLER COUNTY WATER AND SEWER DEPARTMENT.

SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN, AND CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEDEDDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATIONS, ITEM 659.

THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY ENGINEER DURING THE CONSTRUCTION PHASE.

SEEDING - SPECIFICATIONS AT DETENTION BASIN:

RED FESCUE 1 LB. PER 1000 SQ. FT.
KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT.
PERENNIAL FEGRASS 1/2 LB. PER 1000 SQ. FT.
FERTILIZER: 12-12-12
MULCH: 3 BALES OF STRAW PER 1000 SQ. FT.
MULCH TIE DOWN: LIQUID ASPHALT (R.C. 70, 25 OR 80) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED IN PLACE.

SOD: TO BE STAKED IN PLACE.



Ohio Utilities Protection Service

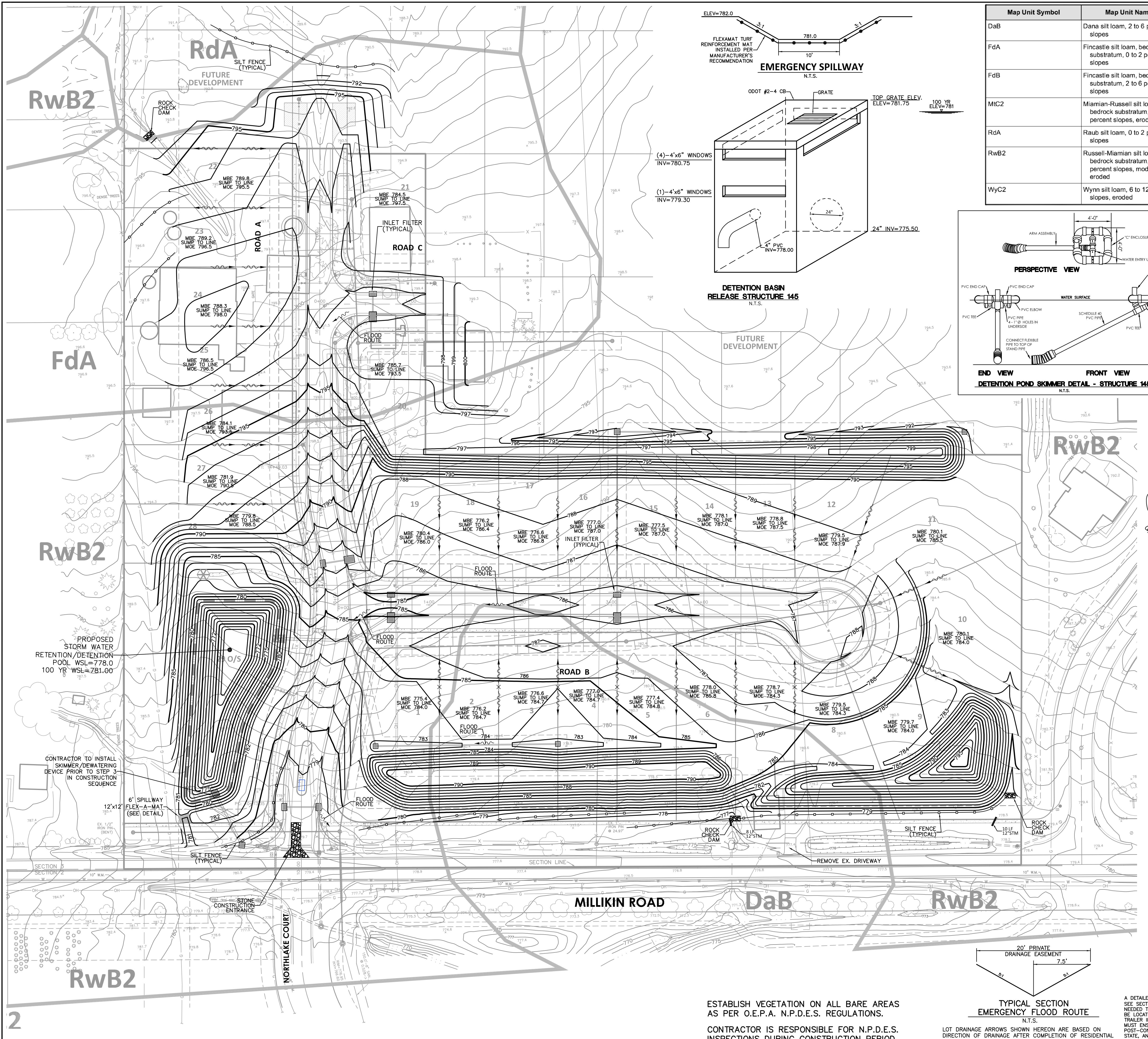
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CARRIAGE MEADOWS SECTION 2, TOWN 2, RANGE 3 LIBERTY TOWNSHIP BUTLER COUNTY, OHIO

Sheet Title	COVER SHEET
Project Number	18672.00
Drawing Scale	AS NOTED
Sheet Number	1/8
File Number	18672



GENERAL NPDES NOTES

1. PROJECT INVOLVES THE CONSTRUCTION OF ROADS, HOUSES AND UTILITIES FOR A SINGLE FAMILY SUBDIVISION.
2. AREA TO BE DISTURBED IS APPROXIMATELY 10.5 ACRES.
3. APPROXIMATELY 4.1 ACRES OF IMPERVIOUS SURFACE RESULTING IN 39 PERCENT OF IMPERVIOUSNESS.
4. PRE-CONSTRUCTION RUNOFF COEFFICIENT IS 0.30. POST-CONSTRUCTION RUNOFF COEFFICIENT IS 0.53.
5. THE PREDOMINATE SOIL TYPE IS RUSSELL - MIAMIAN SILT LOAM.
6. THE PRIOR LAND USE IS FARM AND ROW CROPS.
7. STONY RUN IS THE FIRST NAMED STREAM RECEIVING RUNOFF FROM THIS SITE. RUNOFF IS ULTIMATELY RECEIVED BY GREGORY CREEK.
8. NPDES STORM WATER GENERAL PERMIT NUMBER: 1GC07720*AG
9. PROJECT DURATION: THRU 2022
10. SITE OPERATOR: CARRIAGE MEADOWS, LLC
7556 CENTRAL PARK BOULEVARD
MASON, OH 45040
513-310-7079
11. SWPPP CONTACT: CARRIAGE MEADOWS, LLC
7556 CENTRAL PARK BOULEVARD
MASON, OH 45040
513-310-7079
12. UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.
13. THE DEVELOPER AND CONTRACTOR SHALL ADOBE BY THE RULES AND REGULATIONS SET FORTH IN THE OHIO EPA PERMIT NO. OHC000005 - "AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).
14. PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE.
15. SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBANCE ACTIVITY. AND SHALL CONTINUE TO FUNCTION UNTIL THE SITE IS NO LONGER A DEVELOPMENT AREA OR IS RESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.
16. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF DEMOLITION AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES STORM WATER GENERAL PERMIT.

MAINTENANCE OF CONTROLS:

1. SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING A PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HTEN OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND PREPARED FOR SEEDING.

CONSTRUCTION SEQUENCE:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES BEFORE UPSLOPE CLEARING AND GRADING.
2. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
3. INSTALL STORMWATER MANAGEMENT SYSTEM.
4. TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
5. GRADING OF SUBDIVISION STREET.
6. INSTALLATION OF ALL UTILITIES.
7. SITE CONSTRUCTION.
8. FINAL GRADING, STABILIZATION, AND LANDSCAPING.
9. REMOVAL OF EROSION AND SEDIMENT CONTROLS MEASURES.

* DUE TO THE DYNAMICS AND STAGING OF EARTH MOVEMENT, CONTRACTOR MAY NEED TO ALTER THE EROSION CONTROL MEASURES AS SHOWN HEREON. CONTRACTOR TO APPLY (B.M.P.) BEST MANAGEMENT PRACTICES IN ORDER TO CONTROL THE RUNOFF OF SILT AND SEDIMENT.

* ADDITIONAL SILT FENCE MAY BE REQUIRED AS SITE CONDITIONS DETERMINE.

* IF A TEMPORARY STOCKPILE IS CREATED, SILT FENCE SHALL BE PLACED AT THE TOE OF SLOPE

NOTE: HIGH WATER TABLES ARE APPARENT IN THIS AREA.
IF BASEMENTS ARE CONSTRUCTED, IT IS THE RESPONSIBILITY OF THE BUILDER TO TAKE SPECIAL PRECAUTION TO ENSURE THE BASEMENTS STAY DRY.

NOTE: THE MAXIMUM DEPTH OF TOPSOIL IN FILL AREA IN THE LOTS IS 18".

Sheet Title

GRADING & SWP3

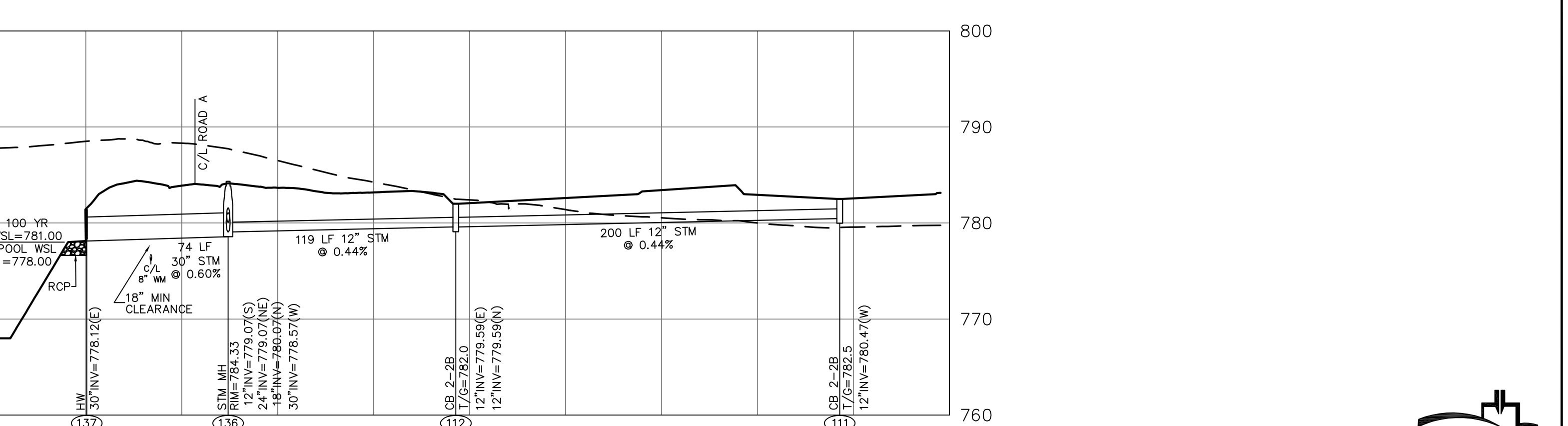
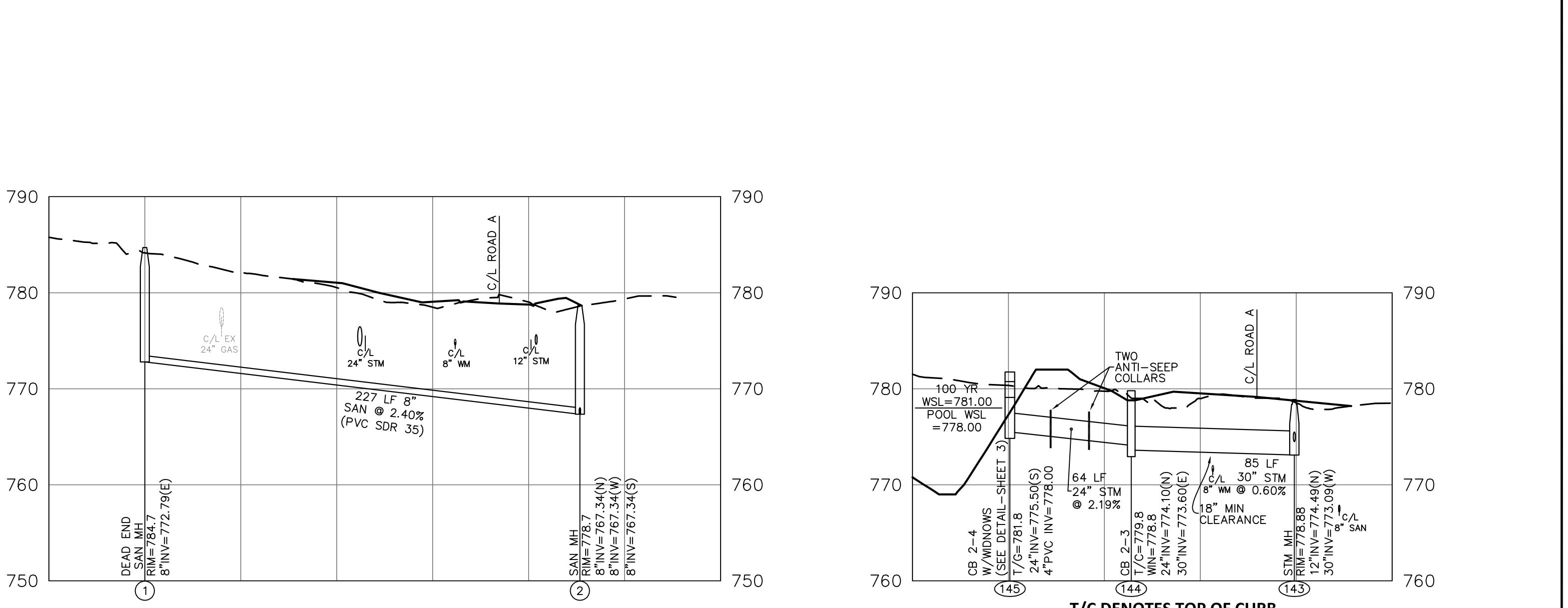
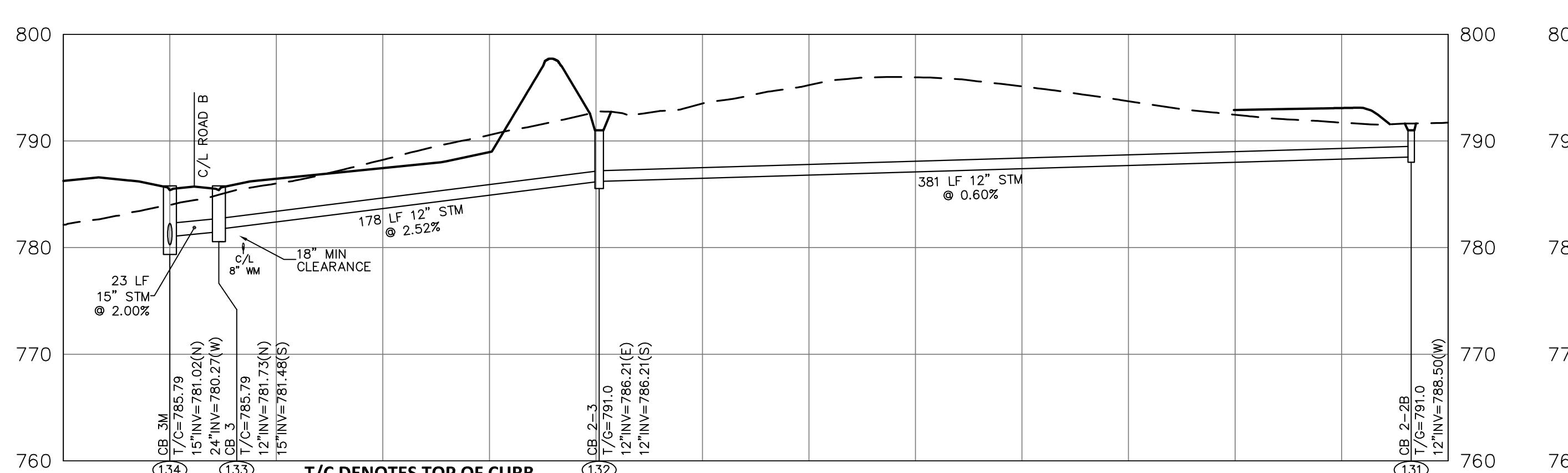
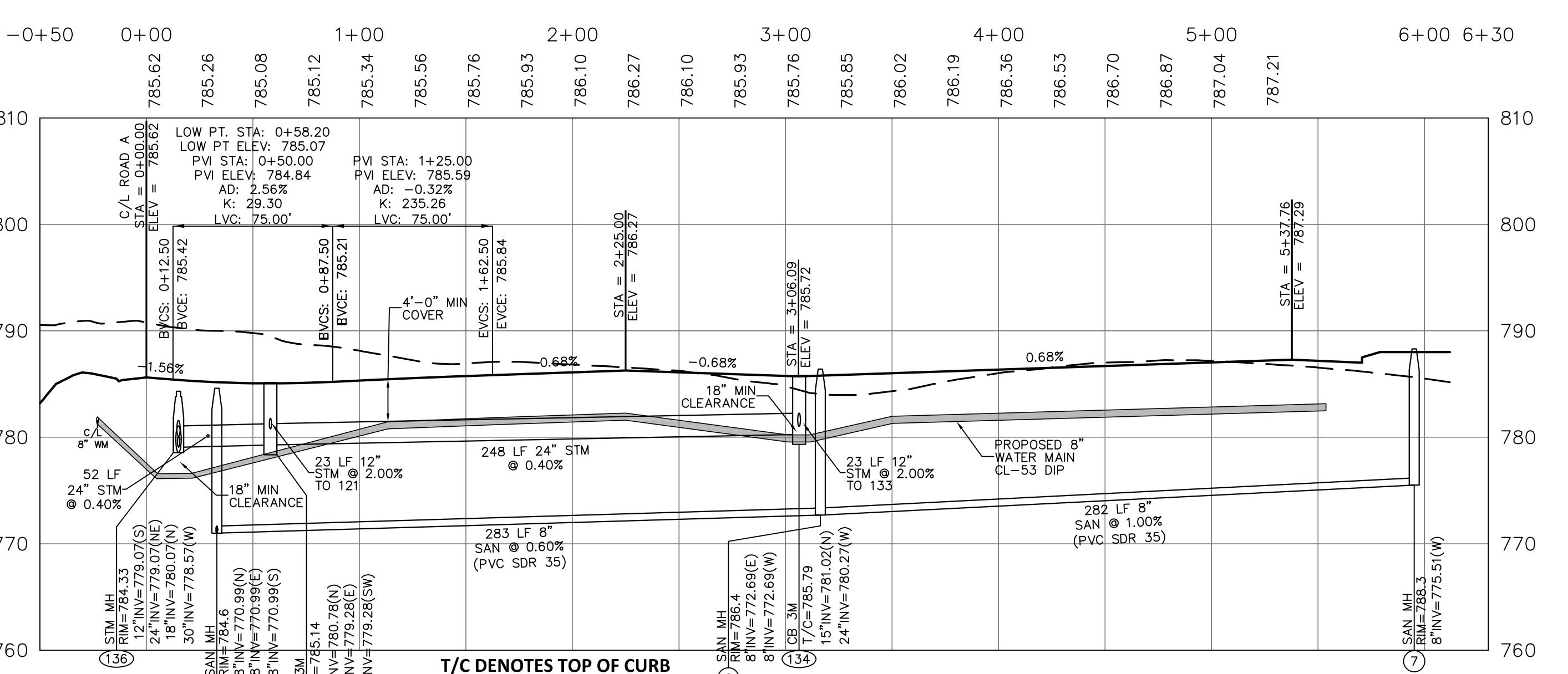
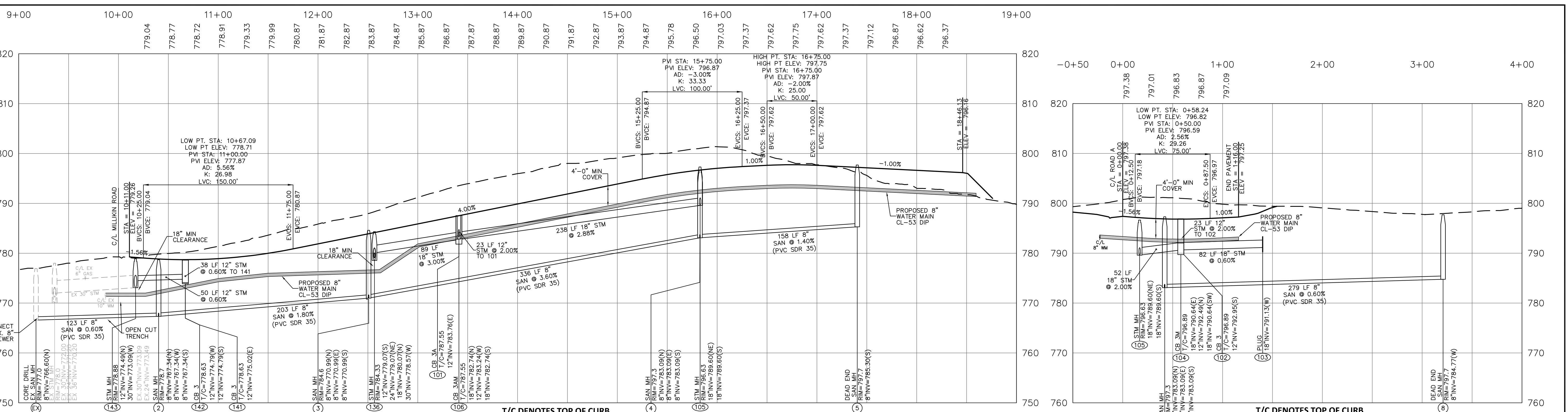
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Drawing Scale 1" = 50'

Sheet Number 3/8

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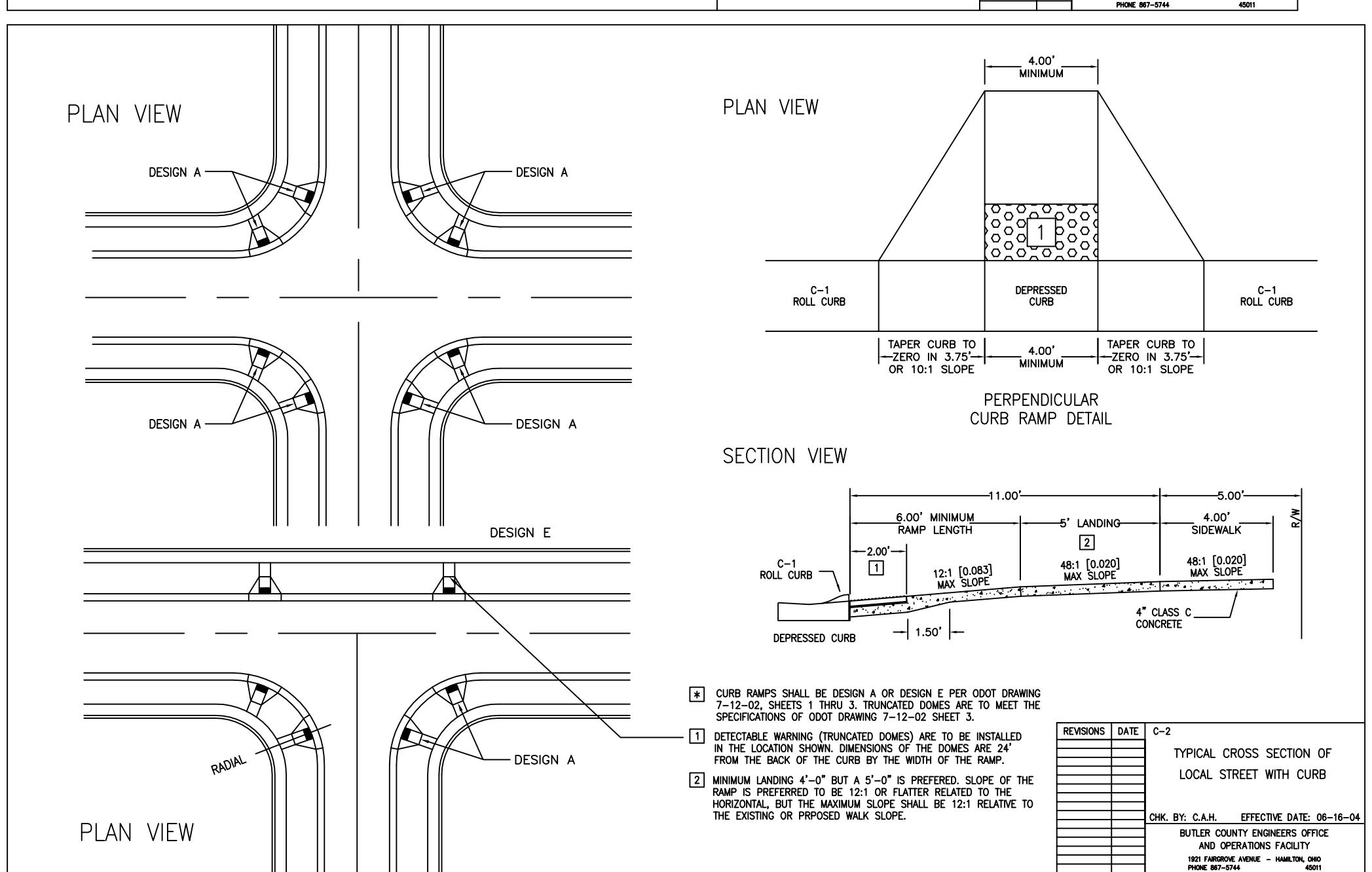
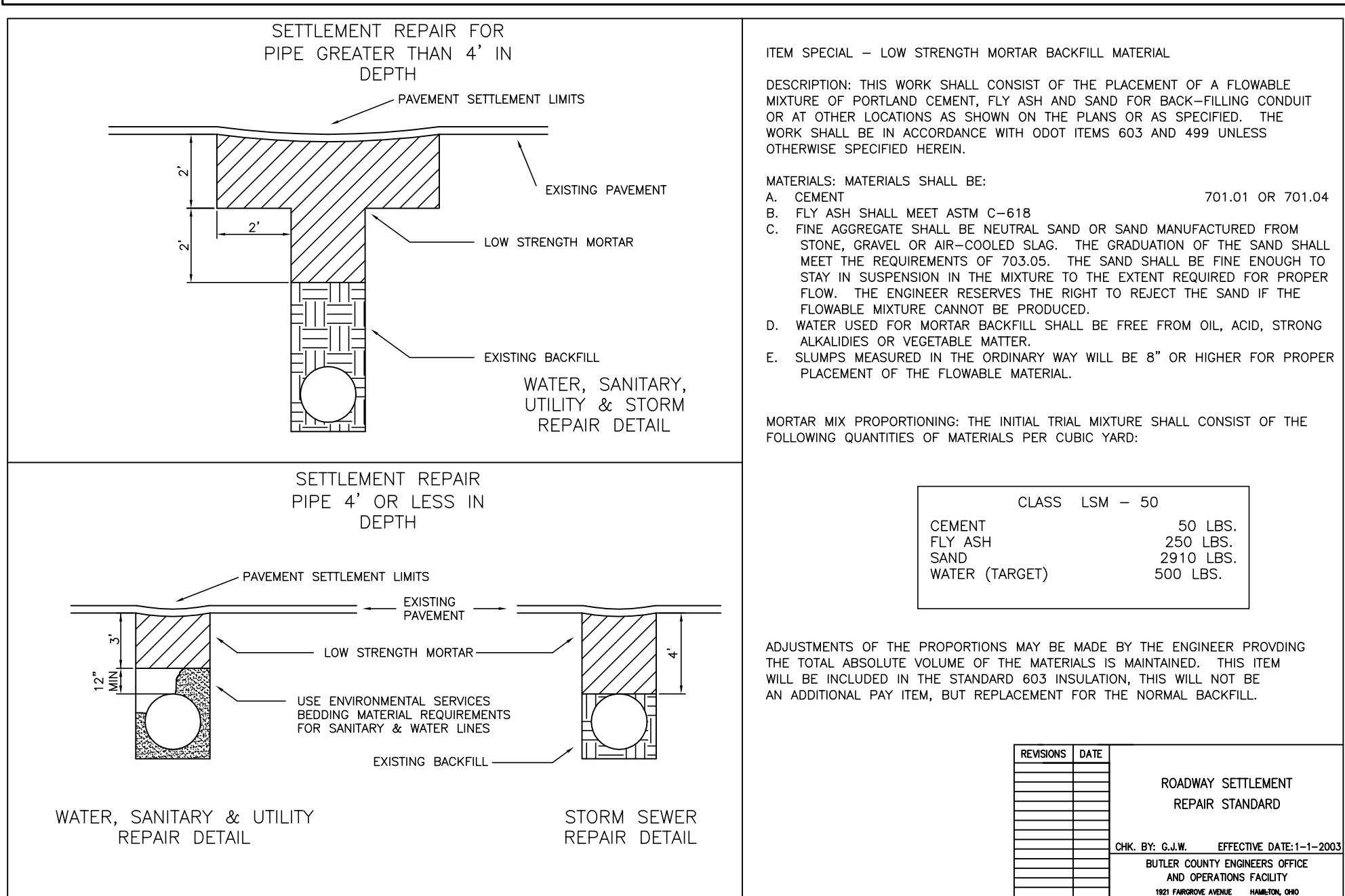
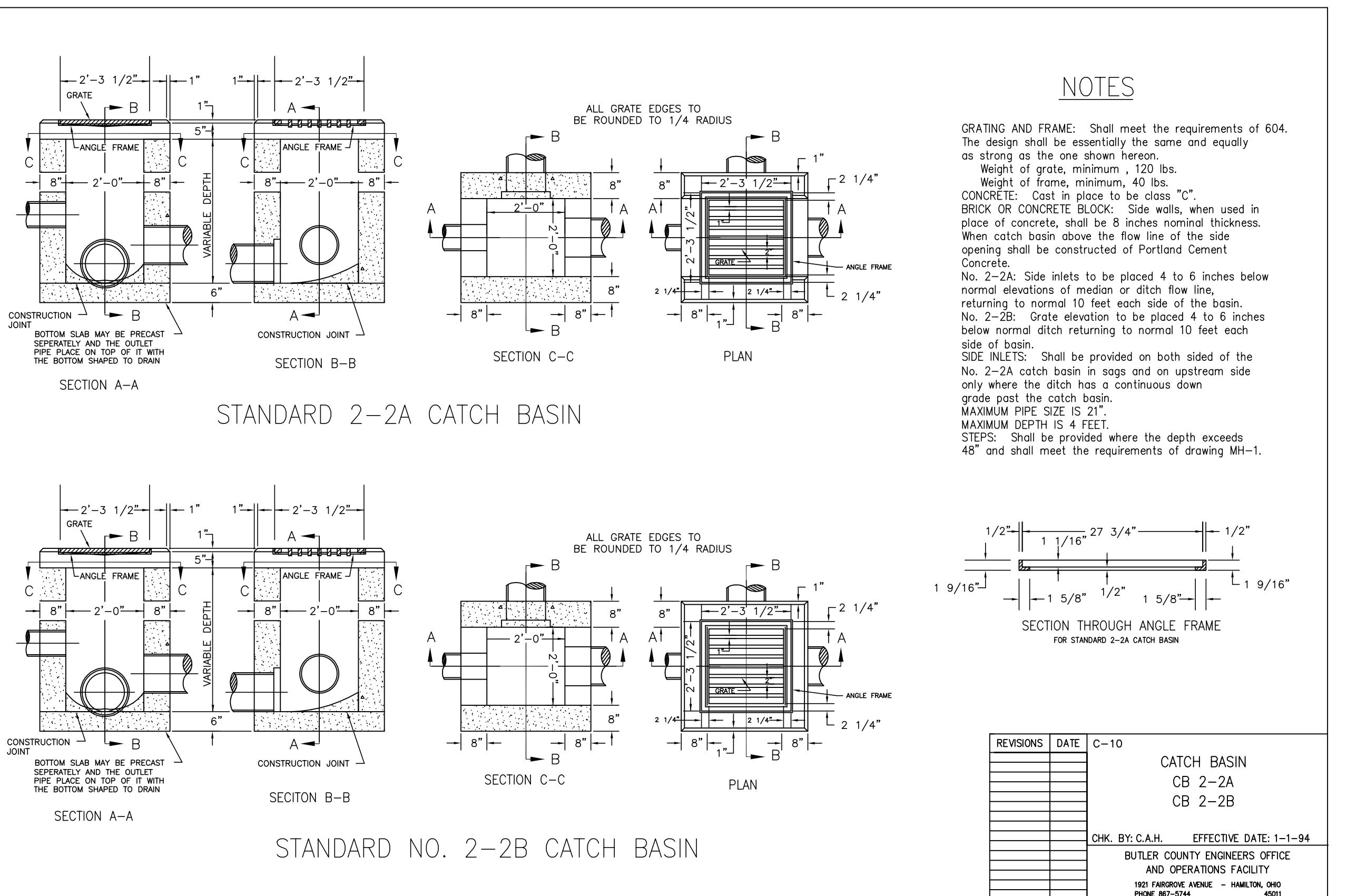
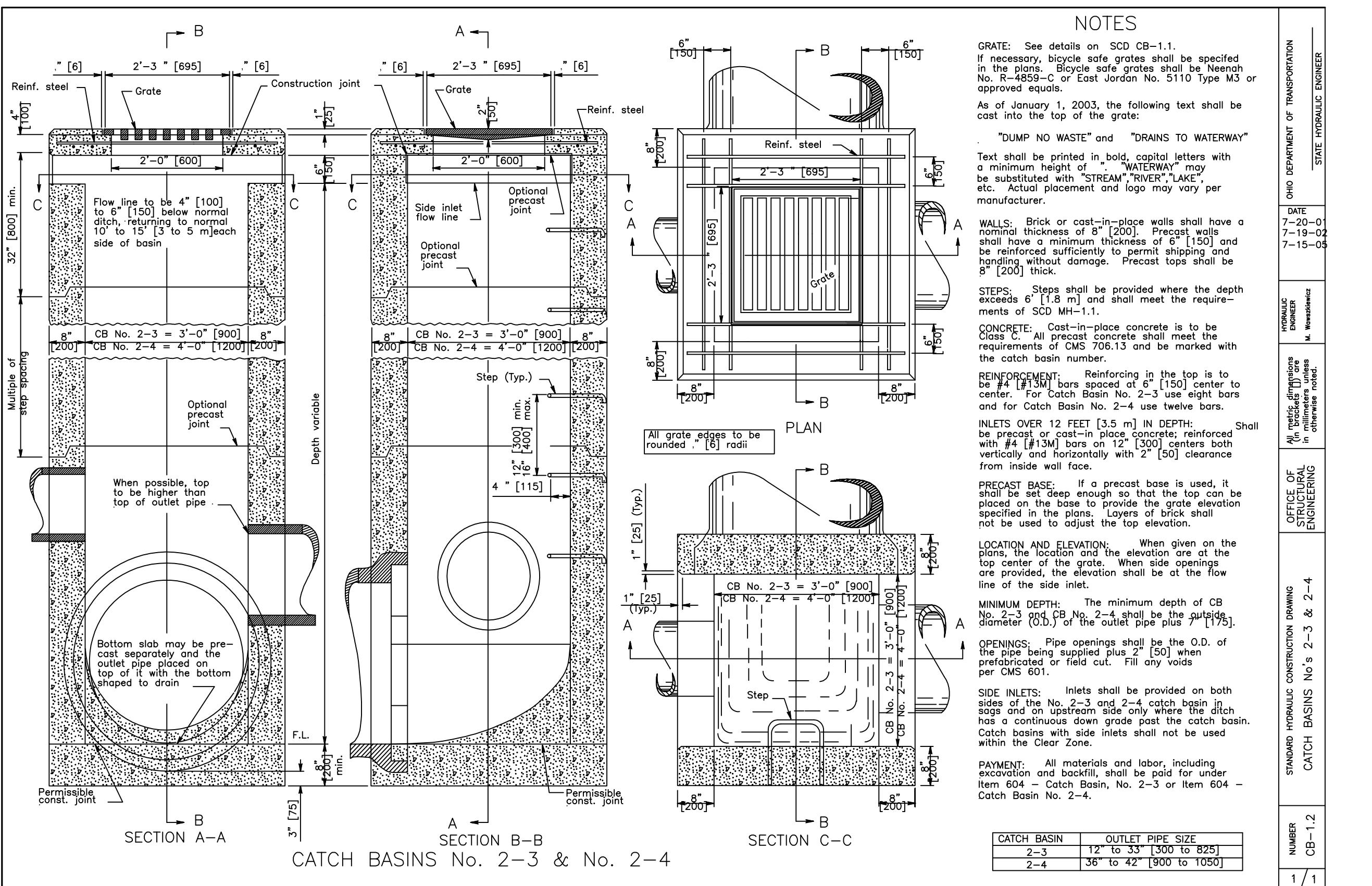
CARRIAGE MEADOWS
SECTION 1
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO



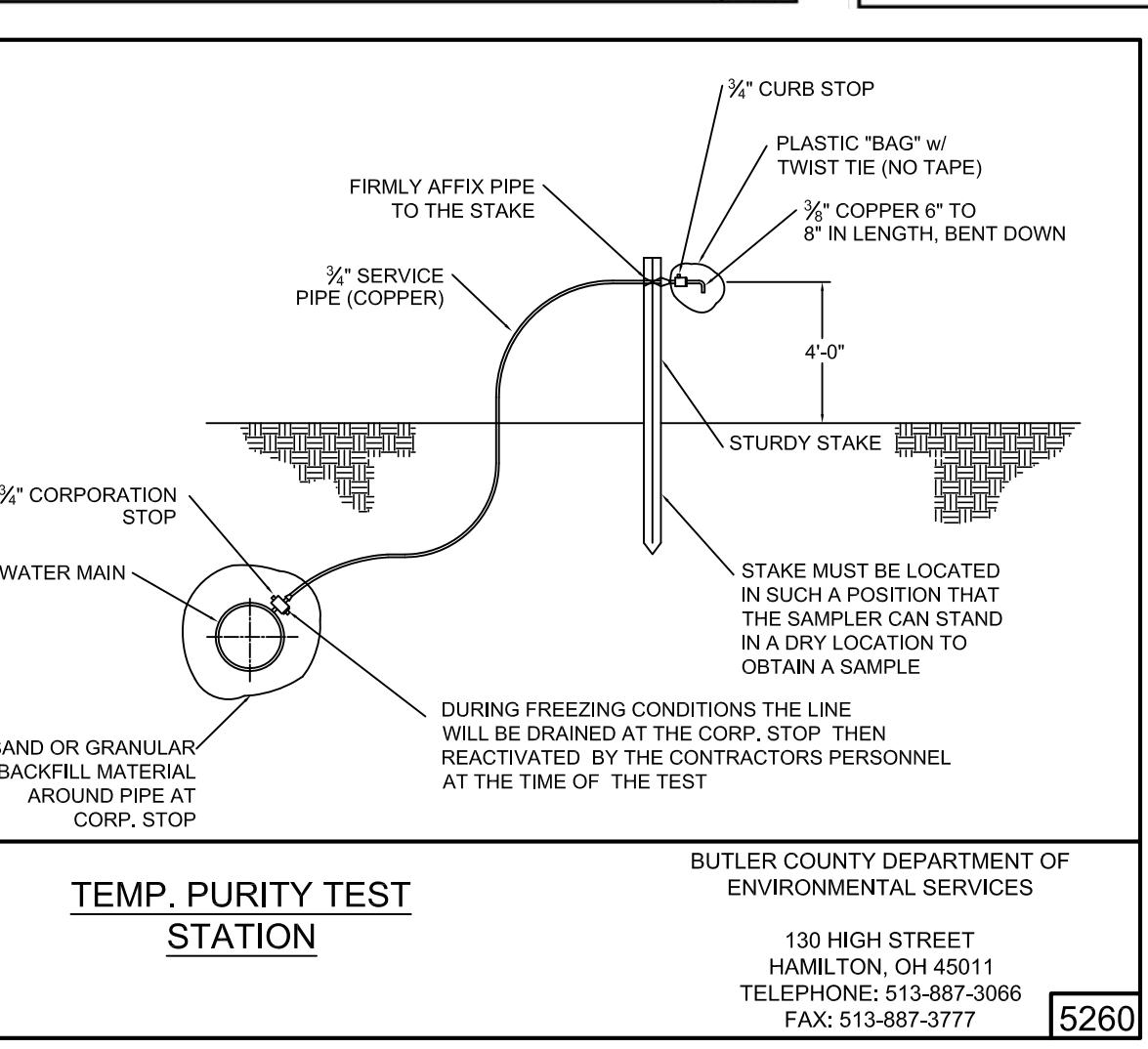
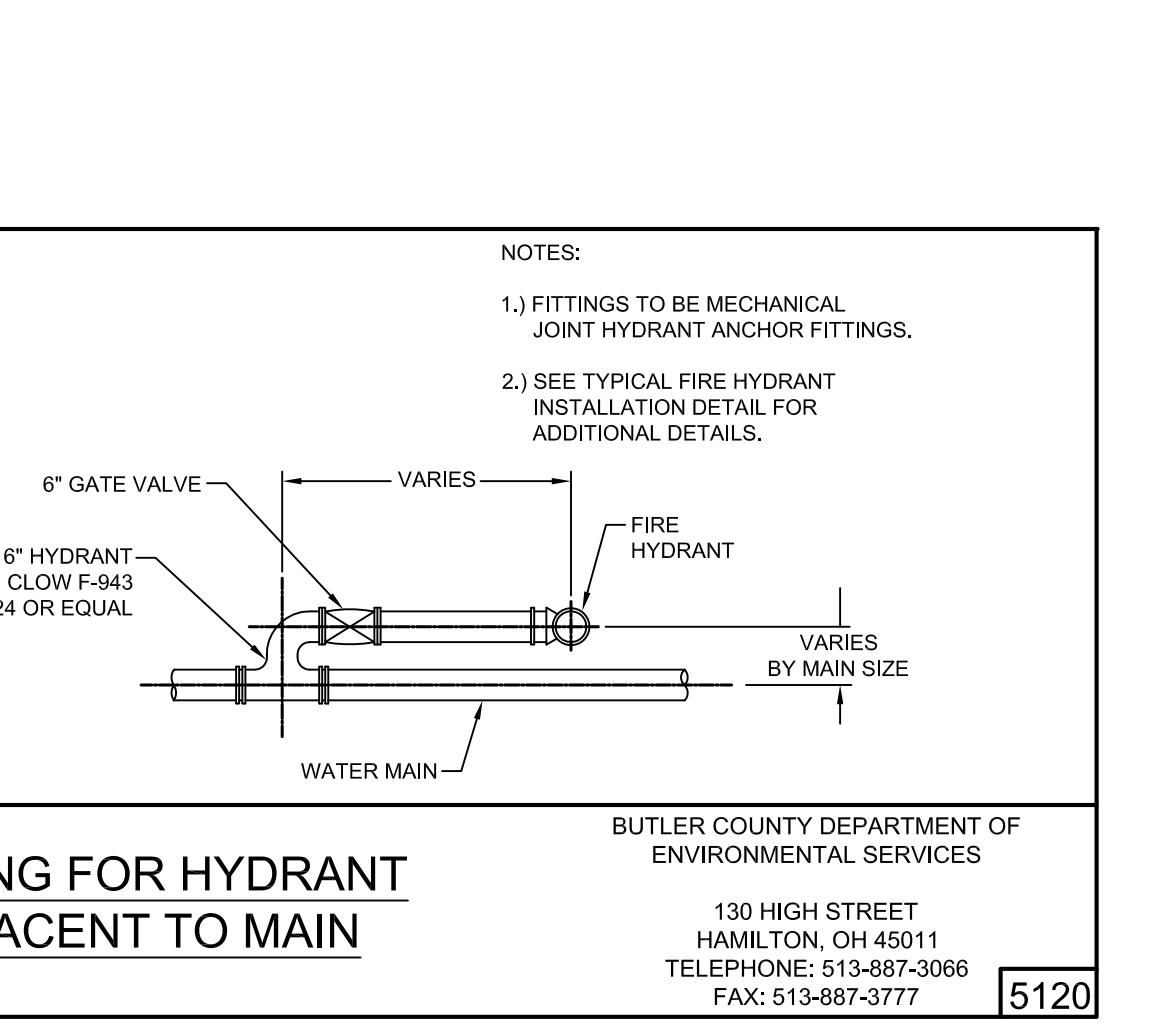
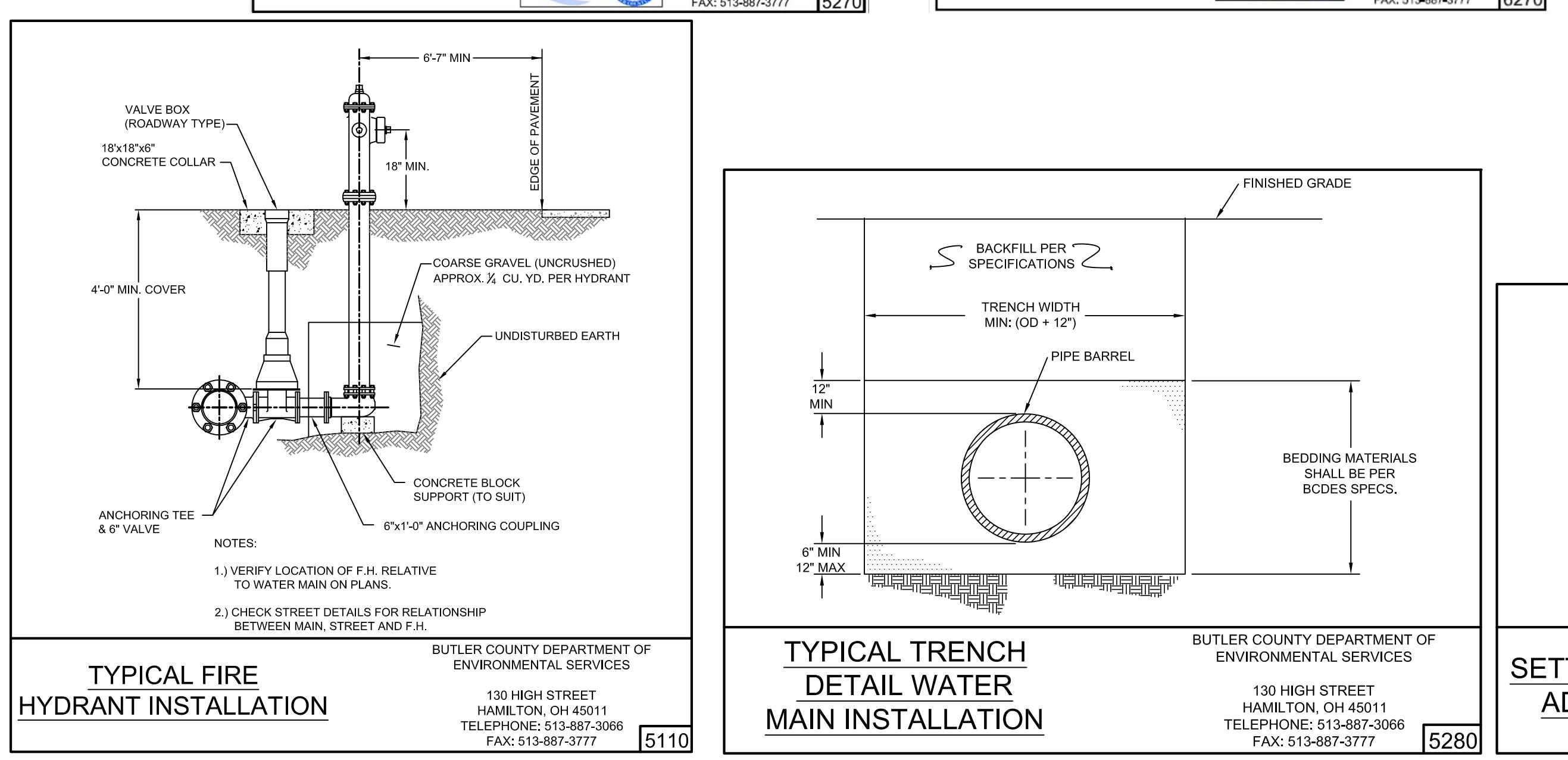
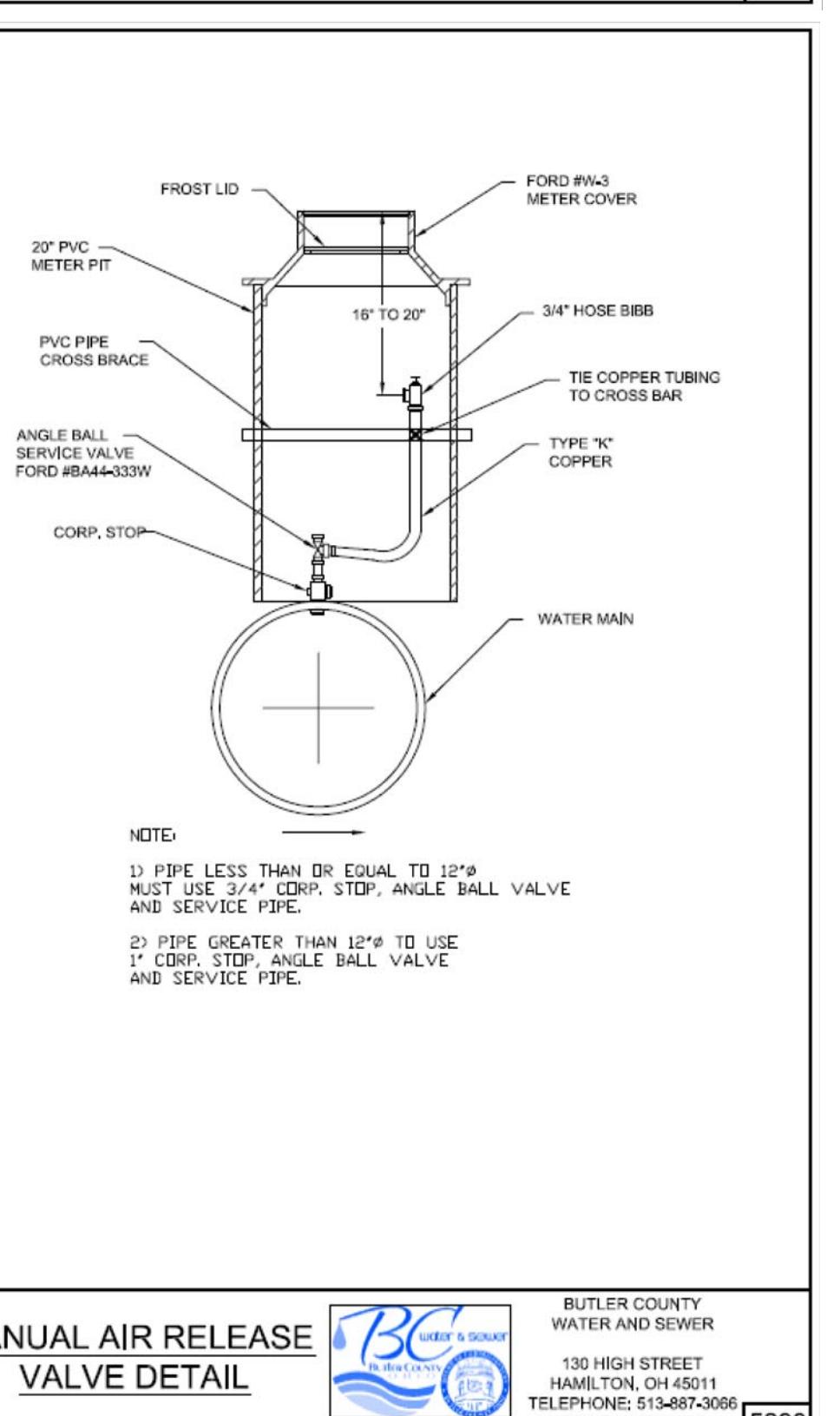
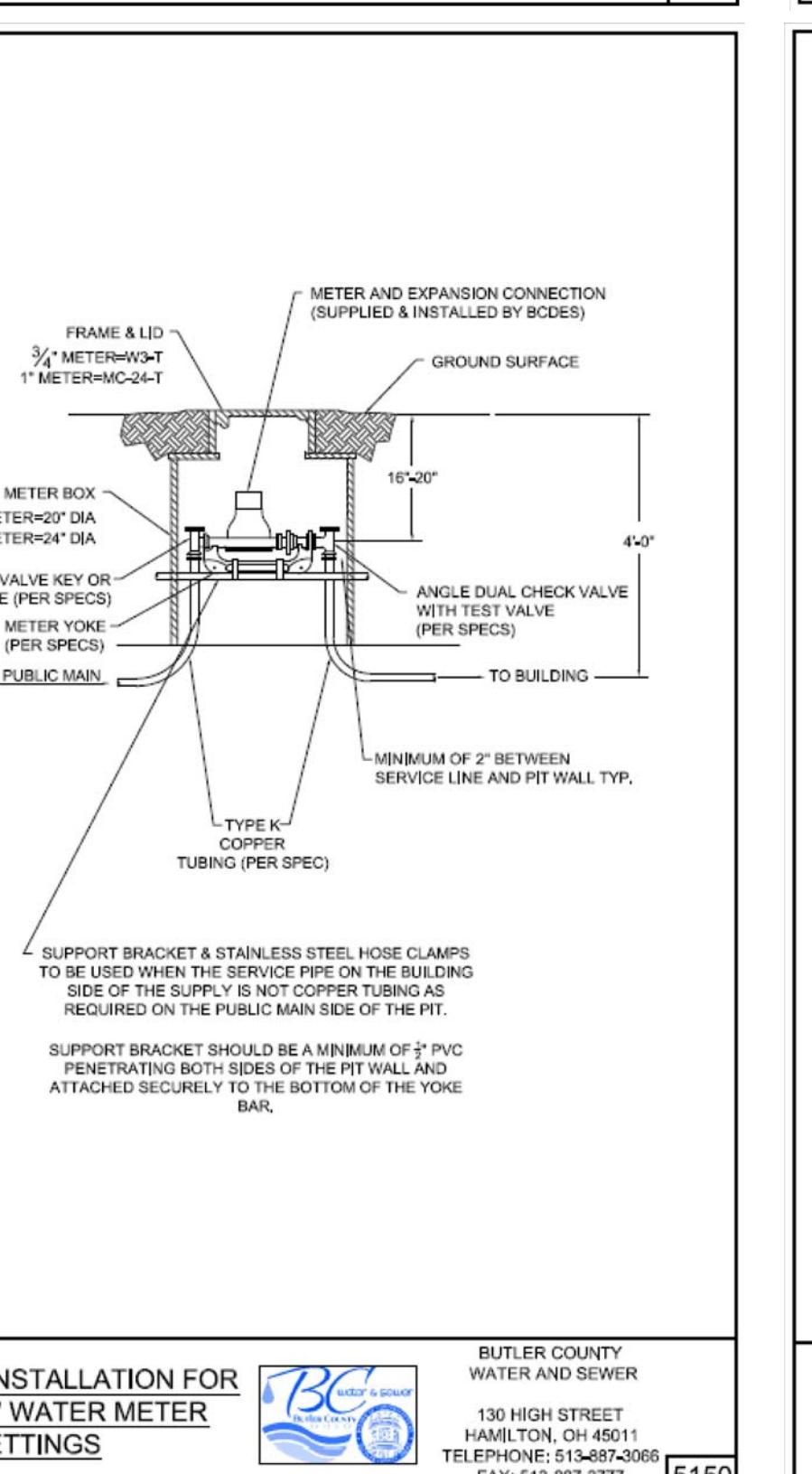
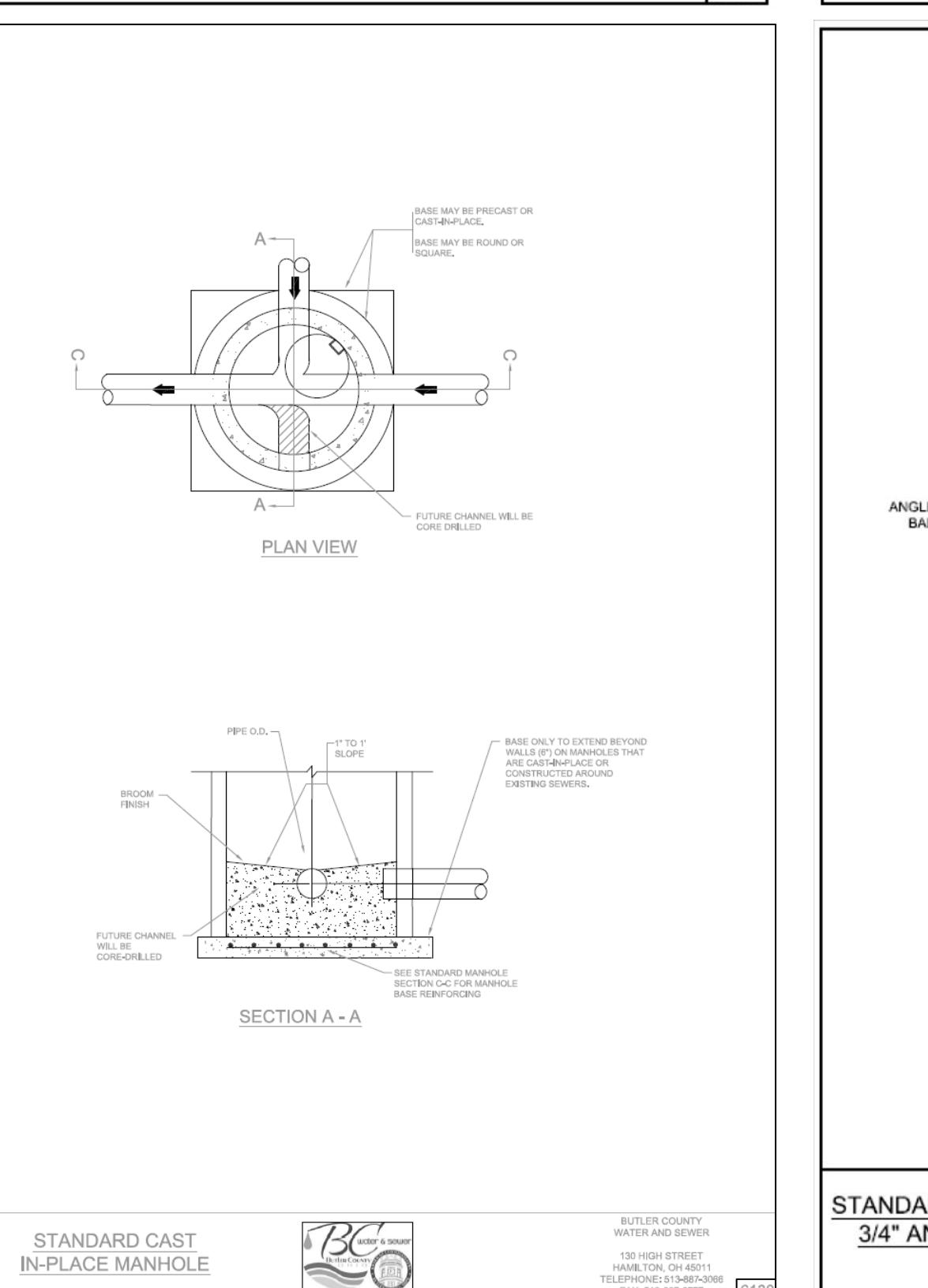
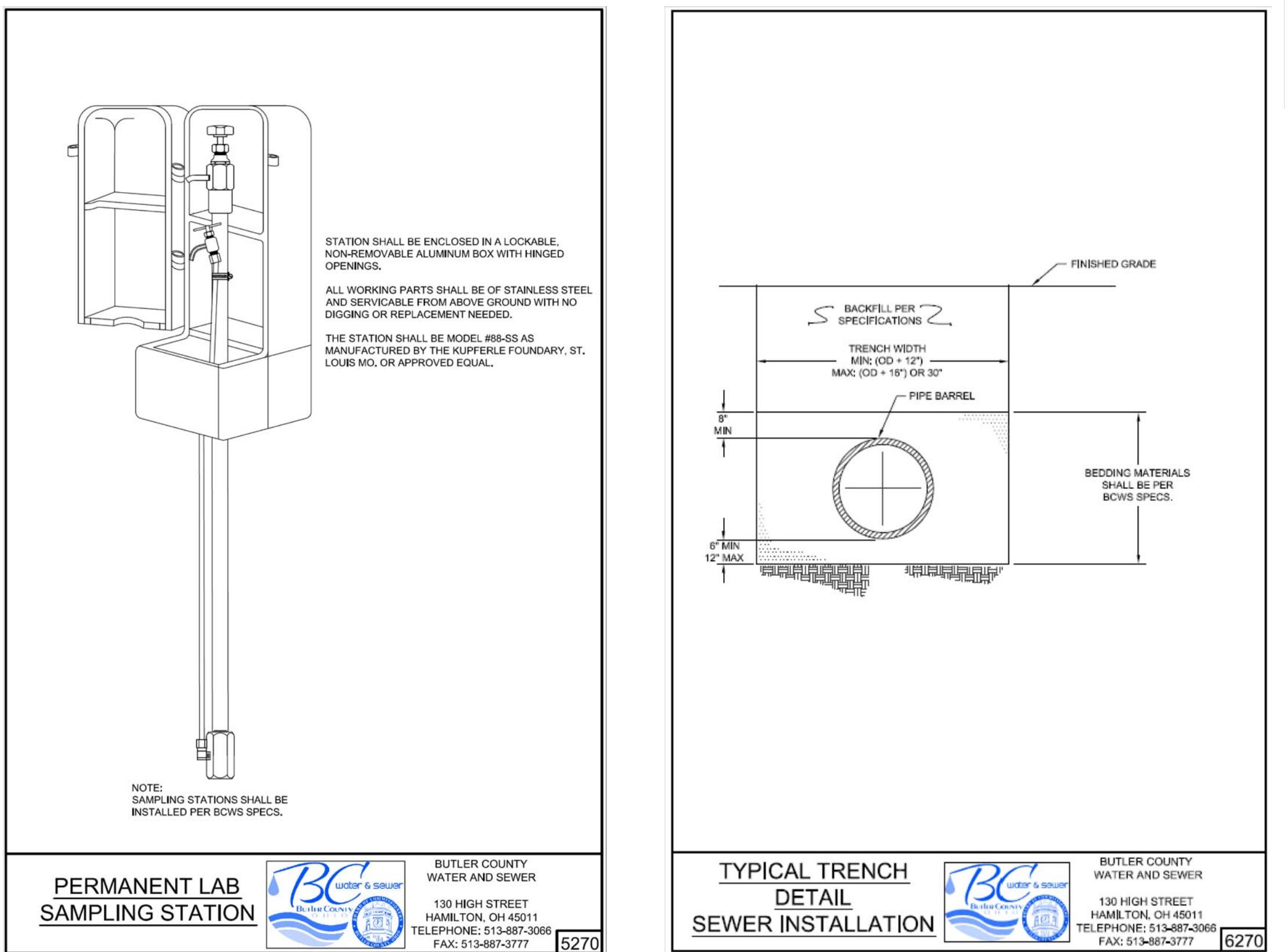
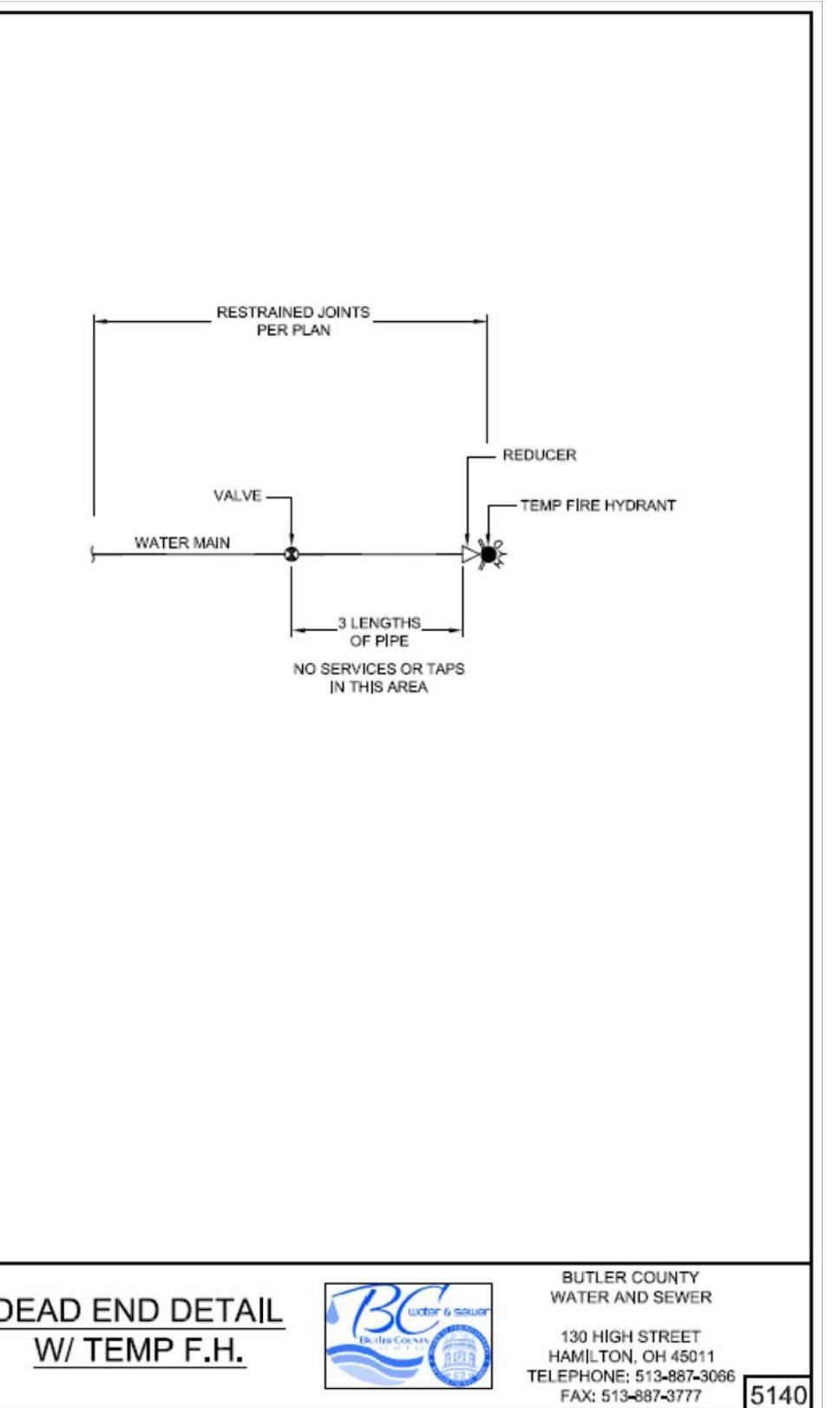
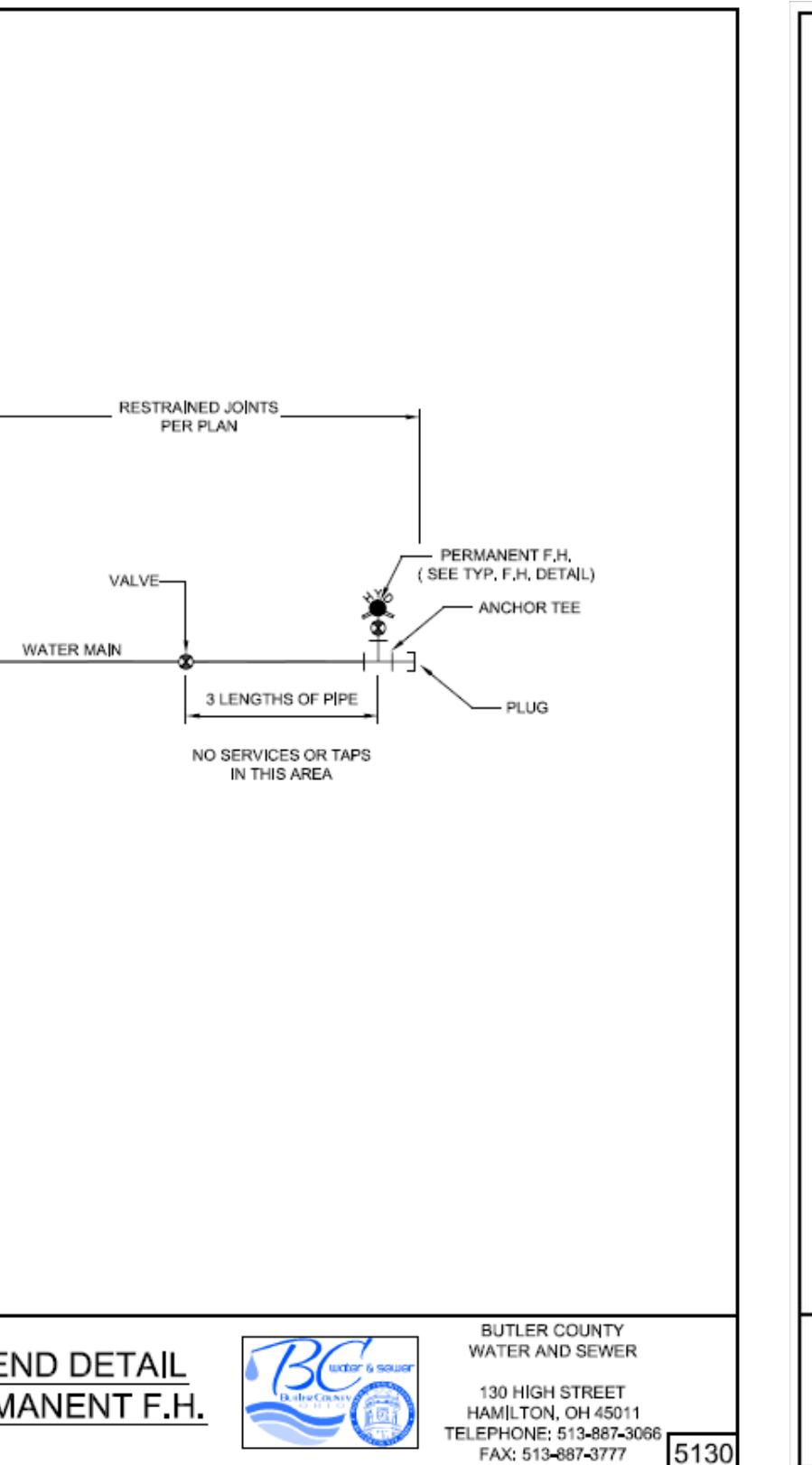
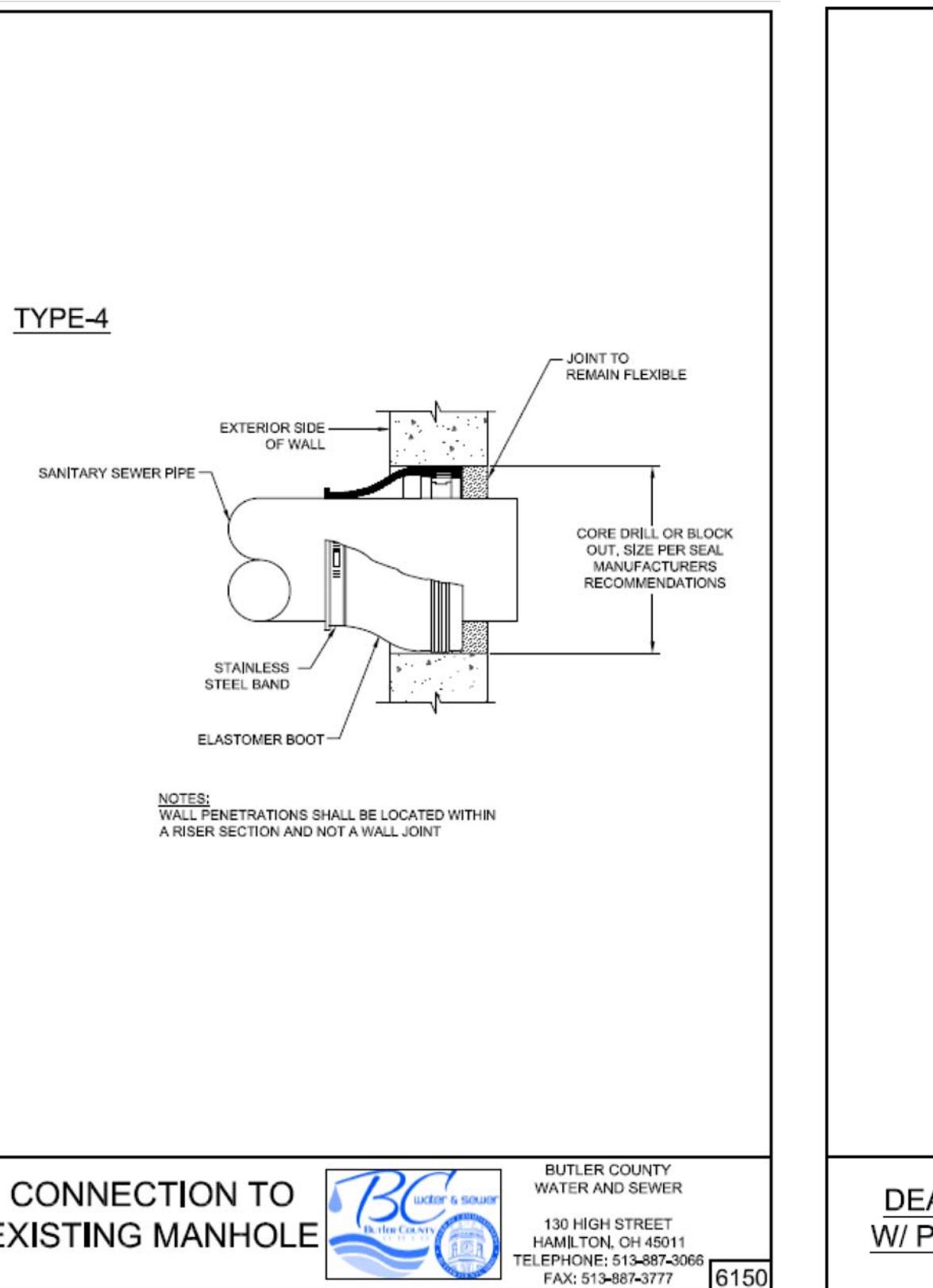
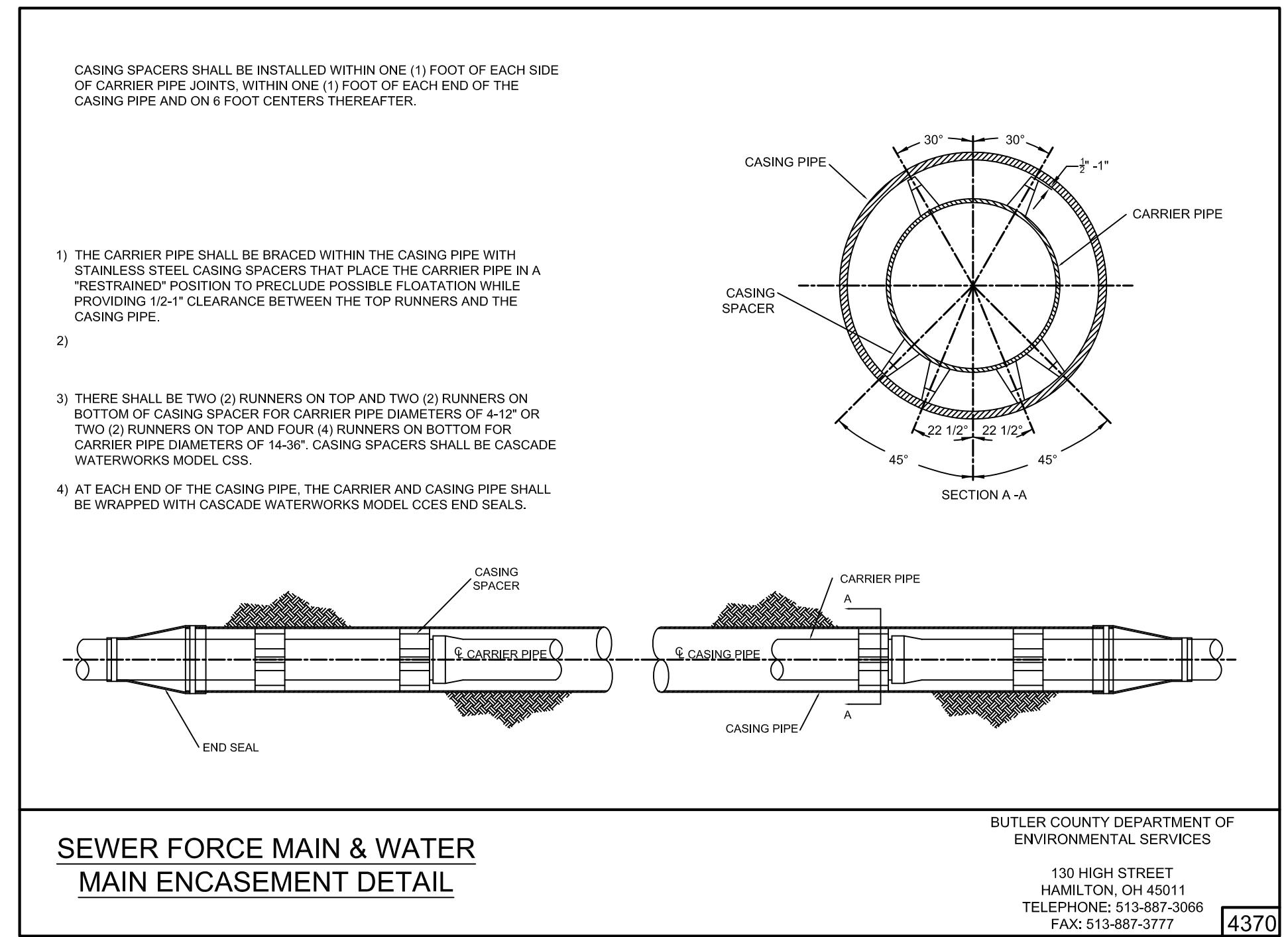
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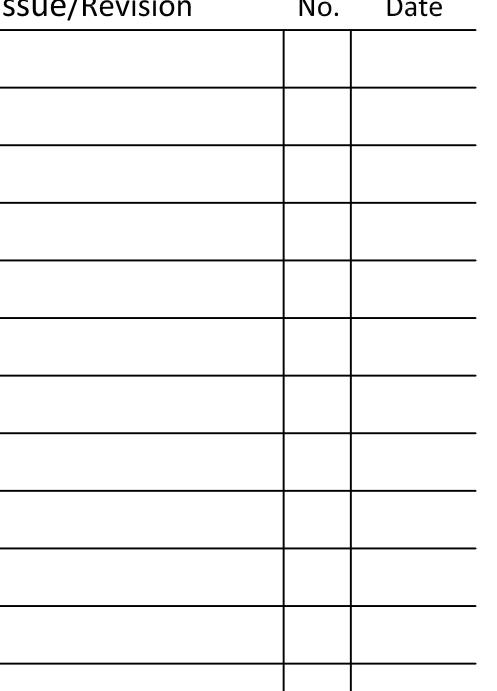
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LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO





NOTE: THE DANDY BAG® WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

HI-FLOW DANDY BAG® (SAFETY ORANGE)

Mechanical Properties Test Method Units

Grab Tensile Strength ASTM D 4632 kN (lbs) 1.62 (365) x 0.89 (200)

Grab Elongation ASTM D 4632 % 24 x 10

Puncture Strength ASTM D 4833 kN (lbs) 0.40 (90)

Trapezoid Tear Strength ASTM D 4533 kN (lbs) 0.51 (115) x 0.33 (75)

UV Resistance ASTM D 4355 %

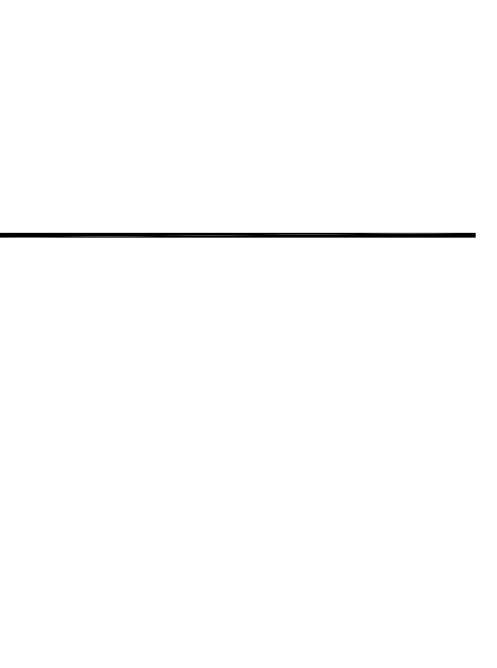
Apparent Flow Rating Size ASTM D 4491 mm (US Standard Sieve) 0.425 (40)

Flow Rate ASTM D 4491 1/min/m² (gal/min/ft²) 5907 (145)

Permeability ASTM D 4491 Sec⁻¹

*Note: All Dandy Bags® can be ordered with our optional oil absorbent pillows

Specifications for Matting



CARRIAGE MEADOWS SECTION 1
SECTION 2, TOWN 2, RANGE 3
LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO

Sheet Title
Project Number 18672004-IMP-CM Sect 1
Drawing Scale AS NOTED
Sheet Number 1-800-362-2764
File Number 18672
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)

EROSION CONTROL NOTES & DETAILS
Ohio Utilities Protection Service
Call Before You Dig
1-800-362-2764
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Specifications for Permanent Seeding

SITE PREPARATION

1. 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.) Seeding should be done as soon as 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.

2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

3. Resoil shall be applied where needed to establish vegetation.

SEEDED PREPARATION

1. Lime—Agricultural ground limestone shall be applied to acid soil or recommended by soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lbs./1,000 sq. ft. or 2 tons/acre.

2. Fertilizer—Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at the rate of 12 lbs./1,000 sq. ft. or 500 lbs./acre of 10-10-10 or 12-12-12 analysis.

3. The lime 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.

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5. Asphalt Emulsion—Asphalt shall be applied as recommended by the rate of 160 gal./acre.

6. Synthetic Binders—Synthetic binders such as Acrylic DUR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates recommended by manufacturer.

7. Mulch Nettings—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.

8. Hydroseeders—If wood cellulose fiber is used, it shall be applied at 2,000 lb./ac. or 46 lb./1,000 sq. ft.

9. Other—Other acceptable mulches include mulch matting applied according to manufacturer's recommendations or wood chips applied at 6 tons/acre.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 and 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.

Minimum seedbed preparation should be done when the soil is dry enough to crumble and not form ribbon when compressed by hand. For winter seeding, see the following section.

DORMANT SEEDINGS

1. Seedlings 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.

2. The following methods may be used for "Dormant Seeding":

* From October 1 through November 20, prepare the seedbed, and the requirements of lime and fertilizer, then mulch and anchor.

After November 20, and before March 15, broadcast the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.

* From November 20 through March 15, if 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, 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 firm following seedings operations with a cultipacker, roller or light drag. On sloping land, seedling operations should be on the contour where feasible.

MULCHING

1. Mulch material shall be applied immediately after seeding. Seedings made due to dormant 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.

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