

MR 509  
Permit No. 05-616-24

Office Use Only

State of Ohio  
Department of Transportation  
Permit

County or Jurisdiction LIC  
Rte IR70  
Log Pt 115.2  
Acc Cat

[1] Subject to all terms, conditions, and restrictions printed, written below and on the reverse side hereof, or attached,

Name: OMCO Building LLC  
Address: 3993 East Royalton Road Broadview Heights OH 44147  
Company Phone: 440-838-7289

is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or attached to this permit.

Drainage

Please see page 4 of 4 for permit details.

[2] This permit shall be in the possession of employees /agents of permittee on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.

Contact ODOT Representative 3 days before work begins, also contact ODOT Representative when work is completed for final inspection.

**Failure to notify the ODOT Representative could result in work stoppage!**

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

ODOT Representative: Jeff Hill  
Phone: 740-323-5230  
Email Address: jeff.hill@dot.ohio.gov  
ODOT Licking County Manager

NOTE: Any work performed by the permittee may be stopped if this requirement is not met.

[4] Prior to any excavation in the highway right-of-way, the Ohio811, <https://www.oups.org/excavators>, must be contacted in accordance with ORC Section 3781.25 to 3781.32. Ohio811 can be reached at 1-800-362-2764 or 811.

[5] If your utility is above ground in any way, you must mark your utility with a fluorescent colored marker that corresponds with the universal OUPS color code. The marker must be no shorter than six feet in height and you must maintain the marker. Guide wires must be marked a fluorescent yellow. Failure to mark as described, will result in the Department of Transportation being held harmless and no reimbursement for damage to your property.

[6] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[7] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation at the permittee's expense.

[8] Performance Bond Required? \_\_\_\_\_ Yes \_\_\_X\_\_\_ No Company \_\_\_\_\_  
Effective Date \_\_\_\_\_ Expiration Date \_\_\_\_\_ Amount \$ \_\_\_\_\_

[9] This permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 05/25/2025.

Dated 11/22/2024

Rev 5/6/2021

**General Provisions Applicable to All Permits  
(Sections 5515.01 and 5515.02 of O.R.C.)**

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation and within the time determined by the Director. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee or its agent performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct or remove such work and the permittee shall reimburse the Department for the costs and shall hold the Department harmless for all results of such work.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, its employees, agents, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's determination and given an opportunity to correct the problem. If the problem is not corrected timely or to the satisfaction of the Department, this permit will be revoked.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage and any materials such as pipes and tiles damaged during any installation or repair by the permittee or its employees or agents shall be repaired immediately at the sole cost of the permittee. Permittee shall timely notify the Department of any such damage and repairs thereto. Failure of the permittee to immediately repair the damage after it is discovered shall result in the Department performing the repair and

the permittee shall reimburse the Department for the costs and shall hold the Department harmless for all the results of such work which may include removal of the permittee's facilities.

[10] Any damage to ODOT or another's property caused by the work shall be repaired by the permittee or permittee's agent or contractor in a timely manner and at the sole cost of permittee. If any emergency repairs to ODOT property are needed that cannot be performed by the permittee or permittee's agent or contractor, ODOT shall cause the repairs to be performed at the sole cost of permittee.

[11] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.

[12] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.

[13] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.

[14] All underground utilities shall be installed at a depth and horizontal distance from the road surface and any appurtenances in accordance with state and national safety standards and as pre-approved by the Department. After installation, the exact location of the utility shall be provided to the Department. The Department shall be held harmless for any damage to utilities due to insufficient or inaccurate installation or identification and all repairs shall be at the sole cost of the permittee.

[15] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.

[16] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and any successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

[17] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:

(1) No person on the grounds of race, color, or national origin, shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the utility/facilities/ services of the permittee.

(2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.

(3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. DOT — Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

(4) In the event that this instrument grants a lease, license, or permit and any of the above non-discrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.

**This permit is granted subject to the following attached conditions:**

**To install a 18" storm pipe to outlet a proposed privately owned Detention Pond into the roadside ditch as per the attached plan set. The pipe shall be constructed in such a way as to not interfere with the existing ditch and to have as much of the pipe buried as possible to minimize interference with the mowing of IR70.**

**Any disturbed areas within the right-of-way of IR70 shall be graded and seeded & mulched as soon as possible once construction is complete to prevent erosion.**

**This Location is along IR70 in Licking County, approximately 2890' West of the Mink Street Overpass on the North side of IR70.**

**All work requiring men or vehicles within ODOT right-of-way shall comply with all applicable requirements for the Ohio Manual of Uniform Traffic Control Devices.**

# PLAN SET SDC-24-2

# MASS GRADING PLAN

# FOR

# CARTER POINT SUBDIVISION

PREPARED FOR  
**OMCO BUILDING, LLC**  
 3993 EAST ROYALTON RD  
 BROADVIEW HEIGHTS, OH 44147

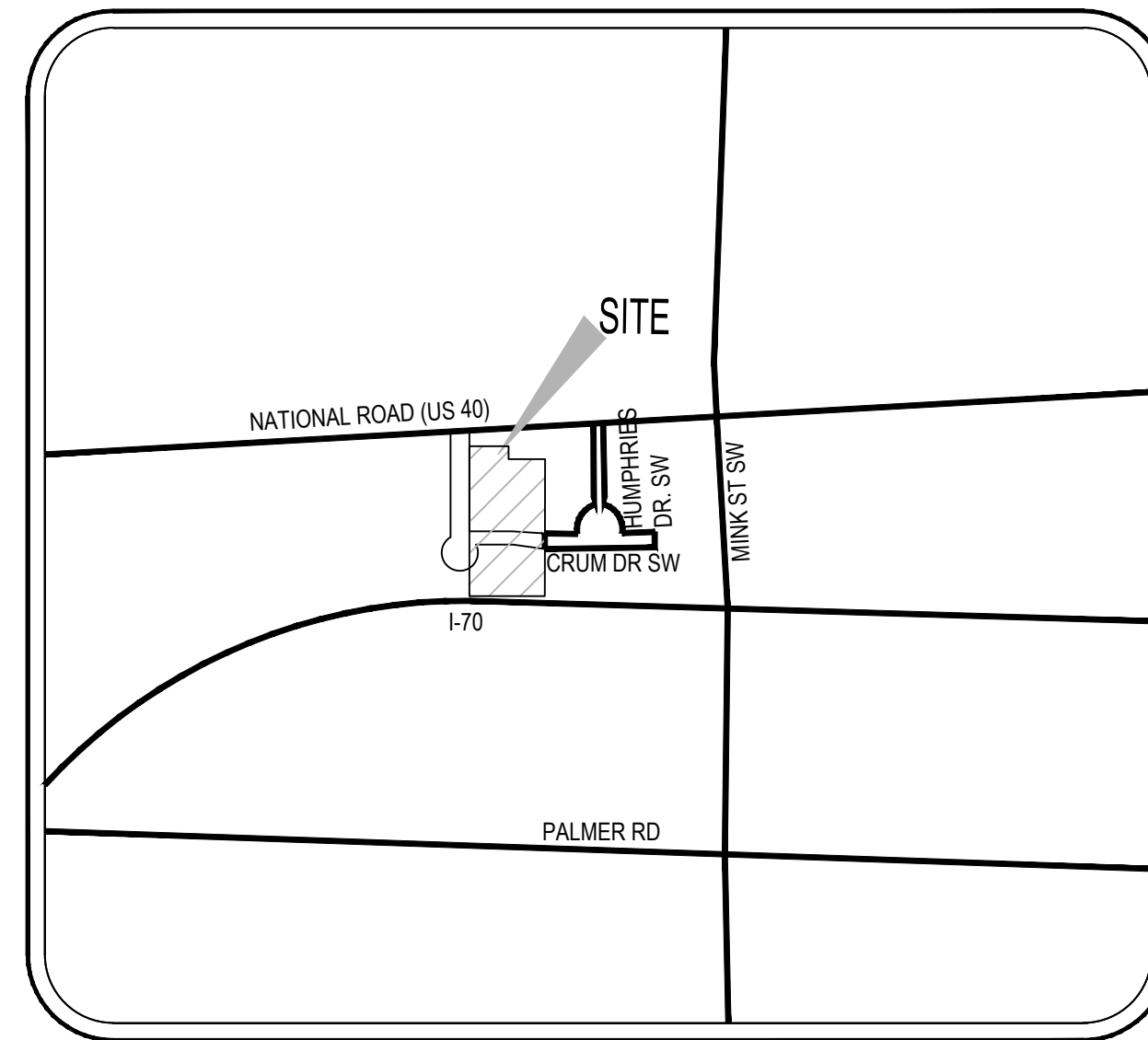
A PORTION OF LAND LOCATED AT  
 13431 NATIONAL ROAD SW  
 ETNA, OH 43068

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO CONSTITUTE AN EXPRESSED OR IMPLIED GUARANTEE OF THE AVAILABILITY OF WATER AND/OR SANITARY SEWER SERVICES TO THIS PROJECT IN ANY AMOUNT, OR OF THE INTENT OF THE DISTRICT TO PROVIDE THE SAME

LICKING COUNTY PLANNING COMMISSION DIRECTOR	DATE
LICKING COUNTY ENGINEER	DATE
SOUTHWEST LICKING COMMUNITY WATER & SEWER OPERATION DIRECTOR	DATE

AS THE OWNER/DEVELOPER OF THIS DEVELOPMENT, I HEREBY CERTIFY THAT ALL EARTH DISTURBANCE, CONSTRUCTION, AND DEVELOPMENT WILL BE DONE PURSUANT TO THE APPROVED CONSTRUCTION PLANS HEREIN.

 PROPERTY OWNER: OMCO PROPERTIES, LLC	11/8/2024 DATE
 DEVELOPER: OMCO BUILDING, LLC	11/8/2024 DATE



**VICINITY MAP**  
NOT TO SCALE

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**BENCHMARKS**

- BENCHMARK #1**  
 BENCHMARK #1 SET ARROW SYMBOL ON HYDRANT  
 ELEVATION = 1054.94'
- BENCHMARK #2**  
 BENCHMARK #2 SET ARROW SYMBOL ON HYDRANT  
 ELEVATION = 1064.02'
- CONTROL POINT #1**  
 EXISTING CATCH BASIN #40396  
 N: 712301.6086  
 E: 1901235.8569
- CONTROL POINT #2**  
 EXISTING SAN MH #40423  
 N: 712212.5484  
 E: 1901395.7006

**UTILITY CONTACTS**

- |  |   |
|--|---|
| <b>SANITARY SEWERS</b><br>SOUTHWEST LICKING COMMUNITY WATER AND SEWER DISTRICT<br>69 ZELLERS LN<br>ETNA, OH 43062<br>P: 740-927-0410 | <b>GAS COMPANY</b><br>COLUMBIA GAS OF OHIO<br>290 W NATIONWIDE BLVD.<br>COLUMBUS, OH 43215<br>P: 1-800-446-6111 |
| <b>WATER SERVICE</b><br>SOUTHWEST LICKING COMMUNITY WATER AND SEWER DISTRICT<br>69 ZELLERS LN<br>ETNA, OH 43062<br>P: 740-927-0410   | <b>ELECTRIC COMPANY</b><br>AEP<br>5600 REFUGEE ROAD,<br>COLUMBUS, OH 43232<br>P: 1-800-672-2231                 |

**OWNER:**

DANIAL MCMANAMON  
 OMCO PROPERTIES, LLC  
 3993 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147  
 P: 440-836-7289

**DEVELOPER:**

DANIAL MCMANAMON  
 OMCO BUILDING, LLC  
 3993 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147  
 P: 440-836-7289

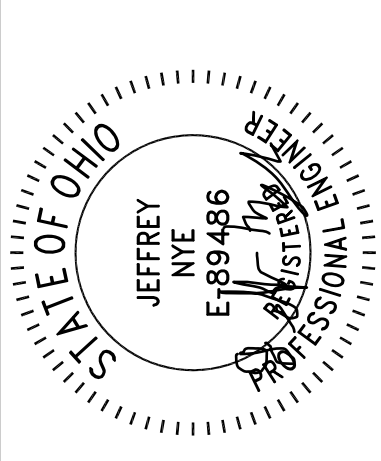
**ZONING SUMMARY:**

ZONING: GB-1  
 BUILDING SETBACK: 40' (FRONT, REAR AND SIDE)

**NOTES:**

1. THIS PLAN SET (SDC-24-2) IS THE INITIAL CONSTRUCTION FOR THE CARTER POINT SUBDIVISION PLAN SET SDC-24-3. REFER TO PLAN SET SDC-24-3 FOR CONTINUATION OF THE PROPOSED CARTER POINT SUBDIVISION IMPROVEMENT PANS.

NO.	DATE	BY	DESCRIPTION
1	20240813	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300610  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
**OMCO BUILDING, LLC**  
 3993 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

TITLE SHEET

C000

**LICKING COUNTY GENERAL NOTES:**

A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS TO SCHEDULE THE PRE-CONSTRUCTION MEETING AND IT SHALL INCLUDE, AT A MINIMUM:

1. OWNER/DEVELOPER
2. SITE GENERAL CONTRACTOR
3. OTHER CONTRACTORS
4. DESIGN ENGINEER
5. LICKING COUNTY PLANNING COMMISSION (BRAD MERCER, 740-670-5203 OR ANGELA FARLEY, 740-670-5209)
6. LICKING COUNTY ENGINEER (RYAN APPELGARTH, 740-670-5289)
7. DLZ (JODY SUCHARSKI, 614-987-0245)
8. SOIL AND WATER CONSERVATION DISTRICT (JOE JARVIS 740-670-5330)
9. ETNA TOWNSHIP (TED WALKER 740-927-7717)

THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER, OR HIS REPRESENTATIVE, AND THE FOLLOWING AGENCIES A MINIMUM OF 48-HOURS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED:

1. BRAD MERCER AT (740) 670-5203, NEVILLE WATSON AT (740) 670-5216, ANGELA FARLEY AT (740) 670-5209, OR JAY FISHER AT (740) 670-5204 WITH THE LICKING COUNTY PLANNING COMMISSION;
2. BRIAN BOSCH, OHIO DEPARTMENT OF TRANSPORTATION (ODOT) AT (740) 323-5182;
3. RYAN APPELGARTH AT (740) 670-5289 WITH THE LICKING COUNTY ENGINEER'S OFFICE;
4. JOE JARVIS AT (740) 670-5330 WITH LICKING COUNTY SOIL AND WATER CONSERVATION DISTRICT

**AS-BUILT SURVEY DRAWINGS MAJOR SUBDIVISION:**

THE LICKING COUNTY PLANNING COMMISSION AND LICKING COUNTY ENGINEER'S OFFICE SHALL BE PROVIDED WITH AS-BUILT SURVEY PLAN DRAWING PREPARED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF OHIO AS REQUIRED IN THE §303 (A), AND §402.3 OF THE LICKING COUNTY SUBDIVISION IMPROVEMENT REGULATIONS AND §303 OF THE LICKING COUNTY SOIL EROSION AND STORMWATER REGULATIONS. THE AS-BUILT SURVEY DRAWINGS SHALL BE IN ACCORDANCE WITH APPENDIX VIII: MINIMUM REQUIREMENTS FOR AS-BUILT SURVEYS OF THE LICKING COUNTY SUBDIVISION IMPROVEMENT REGULATIONS AND AS DIRECTED BY THE LICKING COUNTY ENGINEER AND/OR LICKING COUNTY PLANNING COMMISSION TO VERIFY THAT CONSTRUCTED IMPROVEMENTS ARE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND APPLICABLE REGULATIONS.

**LICKING COUNTY DEVELOPMENT CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE**

BELOW IS THE CONSTRUCTION SEQUENCE. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE INSPECTING AGENCIES FOR INSPECTIONS. THERE WILL BE AN INSPECTION OF THE CONSTRUCTION OF THE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FOLLOWING:

1. PRE-CONSTRUCTION MEETING
2. CONSTRUCTION OF SEDIMENT, EROSION, AND STORMWATER CONTROLS
3. SITE CLEARING AND GRUBBING
4. ROADWAY EXCAVATION AND EMBANKMENT
5. STORM SEWER PIPE, CULVERTS AND BRIDGES
6. ROADWAY UTILITY OR STORMWATER CROSSING COMPACTION
7. ROADWAY FINAL GRADE AND COMPACTION
8. FINAL GRADING
9. SEEDING AND MULCHING (PERMANENT OR TEMPORARY)
10. FINAL CONSTRUCTION INSPECTION
11. AS-BUILT SURVEY PLAN SUBMITTED TO LCPC
12. FINAL INSPECTION WALK-THRU WITH DEVELOPER AND CONTRACTOR.

**FINAL WALKTHROUGH INSPECTION**

THERE SHALL BE A FINAL WALKTHROUGH INSPECTION WITH THE LICKING COUNTY PLANNING COMMISSION AND ALL LICKING COUNTY TECHNICAL REVIEW COMMITTEE (TRC) INSPECTORS TO ENSURE ALL IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND APPLICABLE REGULATIONS AND OBTAIN FINAL APPROVAL OF THE CONSTRUCTION PHASE. PRIOR TO SUBMITTING A REQUEST TO THE LICKING COUNTY PLANNING COMMISSION FOR A FINAL WALKTHROUGH INSPECTION AS REQUIRED BY LINE ITEM NUMBER 17 ON THE LICKING COUNTY DEVELOPMENT INSPECTION SCHEDULE HEREIN. THE CONTRACTOR SHALL CONTACT THE OWNER/DEVELOPER TO CONDUCT A FINAL WALKTHROUGH INSPECTION WITH THE OWNER/DEVELOPER TO ENSURE THAT ALL IMPROVEMENTS ARE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLAN. ONCE THE DEVELOPER IS SATISFIED THAT ALL IMPROVEMENTS ARE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS, THE DEVELOPER SHALL THEN OBTAIN A FINAL WALKTHROUGH INSPECTION REQUEST FORM TO REQUEST AND SCHEDULE A FINAL WALKTHROUGH INSPECTION WITH LICKING COUNTY PLANNING COMMISSION AND OTHER NECESSARY AGENCIES. THE "FINAL WALKTHROUGH INSPECTION REQUEST FORM" IS AVAILABLE ONLINE AT [HTTPS://LICKINGCOUNTY.GOV/CIV/CAX/FILEBANK/BLOBDL0AD.ASPX?BLOBID=104875](https://lickingcounty.gov/civ/cax/filebank/blobdownload.aspx?blobid=104875). THE DEVELOPER MAY ALSO REQUEST A FORM BY CONTACTING THE LICKING COUNTY PLANNING COMMISSION OFFICE, BRAD MERCER, PLANNING MANAGER OR ANGELA FARLEY, DEVELOPMENT AND DESIGN MANAGER (740) 670-5200.

**SECTION 403: MONUMENTS, MARKERS, AND PINS**  
 PERMANENT MARKERS SHALL BE SET ACCORDING TO THE PROVISIONS OF SECTION 711.03 OF THE OHIO REVISED CODE. THE OWNER/DEVELOPER SHALL DIRECT THE SURVEYOR TO PLACE AND SET AT LEAST FOUR PERMANENT MARKERS TIED TO LICKING COUNTY MONUMENTATION IN EACH PLAT OF TEN LOTS OR LESS AND IN PLATS HAVING MORE THAN TEN LOTS AS MANY ADDITIONAL MARKERS AS THE SURVEYOR DEEMS NECESSARY TO PROPERLY CONTROL HIS ORIGINAL SURVEY. THE SURVEYOR SHALL PLACE ADDITIONAL PERMANENT MARKERS IN ACCORDANCE WITH SECTION 711.03 OF THE OHIO REVISED CODE, OR WITH THE APPROVAL OF THE LCE. AT LEAST ONE PERMANENT BENCHMARK OR CONTROL POINT TIED TO THE LICKING COUNTY MONUMENTATION (GIS COORDINATES) MUST BE PLACED IN THE AREA OF THE FLOODPLAIN. THE CONTROL POINT MUST BE IN STATE PLANE COORDINATES.

**TEMPORARY STREET NAME SIGN(S)**  
 TEMPORARY STREET NAME SIGN(S) SHALL BE POSTED DURING THE CONSTRUCTION OF THE SITE THAT ALLOWS FOR PASSABLE TRAFFIC ONCE THE STREET BASE HAS BEEN ESTABLISHED. TEMPORARY STREET NAME SIGNS SHALL CONSIST OF LETTERING ON A CONTRASTING BACKGROUND AND SHALL BE POSTED AT LEAST FOUR FEET OFF THE GROUND AND VISIBLE FROM ALL DIRECTIONS ON THE STREET. TEMPORARY STREET SIGNS SHALL BE ERECTED AT ALL INTERSECTIONS WITH EXISTING AND NEW STREETS AND SHALL BE MAINTAINED UNTIL REPLACED WITH THE APPROVED PERMANENT STREET SIGNS. THE PURPOSE IS TO ALLOW EMERGENCY SERVICES TO HAVE PROPER SIGNAGE TO DIRECT THEM IF THEY NEED TO RESPOND TO AN INCIDENT.

**STORM DRAINAGE DITCHES**  
 NO UTILITIES SHALL BE PLACED WITHIN SIX FEET (6') OF THE BOTTOM OF ANY STORM DRAINAGE DITCH AS SHOWN PER STANDARD TYPICAL DITCH DRAWINGS. ALL OPEN STORM DITCHES UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE LICKING COUNTY PLANNING COMMISSION AND THE LICKING COUNTY ENGINEER SHALL HAVE A MINIMUM TWO-FEET (2') DITCH BOTTOM WIDTH.

**LICKING COUNTY SOIL EROSION AND STORMWATER NOTES**

**SECTION 300.2 PLAN CONTENTS, SUBSECTION (B), (5), (E)**  
 1. PROVIDE CERTIFICATION BY THE DEVELOPER/OWNER THAT ALL EARTH DISTURBANCE, CONSTRUCTION, AND DEVELOPMENT WILL BE DONE PURSUANT TO THE APPROVED PLAN. THIS CAN BE ACCOMPLISHED WITH A SIGNATURE LINE FOR THE OWNER/DEVELOPER ON THE COVER SHEET OF ALL PLANS.

**SECTION 400.2: EROSION CONTROL STANDARDS**

- THE DEVELOPER AND CONTRACTORS NEED TO ESTABLISH A MAILBOX AT THE CONSTRUCTION ENTRANCE OR NEXT TO THE CONSTRUCTION TRAILER. SAID MAILBOX SHALL CONTAIN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ALL INSPECTION LOGS/REPORTS, AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA), NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), APPROVED NOTICE OF INTENT (NOI).

- SEDIMENTATION FACILITIES AND OTHER CONTROL MEASURES SHALL BE INSTALLED PER THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN CONJUNCTION WITH THE INITIAL GRADING OPERATIONS AND BE MAINTAINED THROUGHOUT THE DEVELOPMENT AND CONSTRUCTION PROCESS TO REMOVE SEDIMENT FROM RUNOFF WATERS DRAINING LAND UNDER DEVELOPMENT.
- STRAW, MULCH, OR NETTING MATERIAL PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS WITHIN 48 HOURS OF INITIAL DISTURBANCE.
- NO LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN THE ONE-HUNDRED (100) YEAR FLOODPLAIN OR ANY BUFFER AS IDENTIFIED ON THE APPROVED CONSTRUCTION PLANS, EXCEPT FOR CROSSINGS AS IDENTIFIED ON THE APPROVED PLANS. A VALID FLOODPLAIN PERMIT SHALL BE REQUIRED PRIOR TO ANY DISTURBANCE WITHIN THE 100-YEAR FLOODPLAIN.
- AN UNDISTURBED NATURAL BUFFER AREA SHALL BE MAINTAINED FOR A DISTANCE OF TWENTY-FIVE (25) FEET ADJACENT TO ANY BODY OF WATER AS MEASURED FROM THE LAKE, WETLAND OR POND BANKS EXCEPT WHEN IN THE INTEREST OF PUBLIC HEALTH, SAFETY AND WELFARE, OR THE CONTOUR OF THE LAND REQUIRE A DIFFERENT BUFFER SUBJECT TO THE LCPC'S APPROVAL.
- ALL CORRESPONDENCE WITH THE OEPA IN REGARDS TO NPDES PERMITS SHALL BE FORWARDED TO THE LCPC, AND SWP3 WITH ASSOCIATED INSPECTION REPORTS SHALL BE KEPT ON SITE FOR INSPECTION IN ACCORDANCE WITH THE NPDES PERMIT REQUIREMENTS.
- THE OHIO EPA NPDES GENERAL PERMIT STANDARDS HAVE CHANGED AND ARE NOT CURRENTLY REFLECTED IN THESE REGULATIONS. UNTIL AN AMENDMENT OCCURS, ADD THE OHIO EPA SOIL STABILIZATION TABLES (PERMANENT AND TEMPORARY) FROM THE OEPA NPDES GENERAL PERMIT NO. OH000006 IN PART II, TABLE 1 AND TABLE 2 AS SHOWN BELOW.

SOIL STABILIZATION: STABILIZATION OF DISTURBED AREAS SHALL, AT A MINIMUM, BE INITIATED IN ACCORDANCE WITH THE TIMEFRAMES SPECIFIED IN THE FOLLOWING TABLES.

**TABLE 1: PERMANENT STABILIZATION**

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF MOST RECENT DISTURBANCE
ANY AREA WITHIN 50TH OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

**TABLE 2: TEMPORARY STABILIZATION**

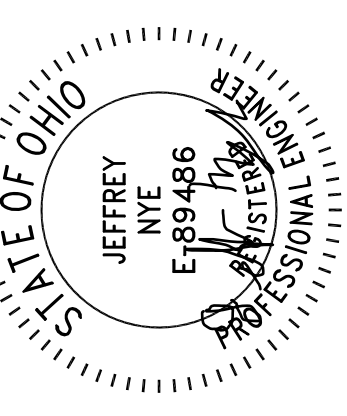
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAY OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)
THE DISTURBED AREA THAT WILL BE IDLE OVER THE WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION IS DEFINED IN PART VII OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM, PERMIT NUMBER OH000006, EFFECTIVE APRIL 23, 2023, AND EXPIRES APRIL 22, 2028. SOURCE: OHIO EPA PERMIT NO. OH000006, PART II, SUBSECTION (B) ON PAGE 9 OF 60.

**CONSTRUCTION MATERIAL AND SPECIFICATIONS**

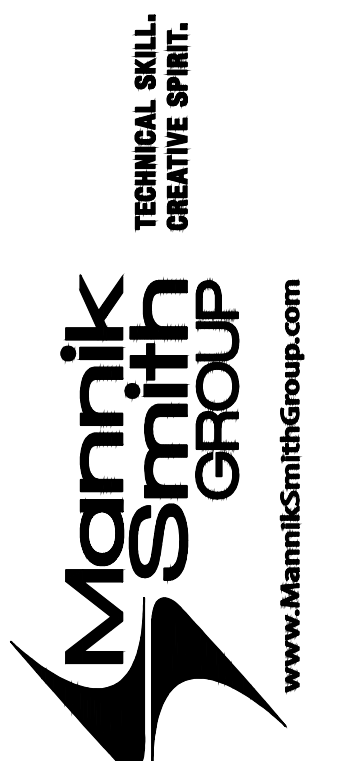
2023 VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CMS SHALL GOVERN THIS PROJECT.  
 GRANULAR BACKFILL OF THE UTILITY TRENCHES SHALL BE REQUIRED UNDER AND WITHIN 4 FEET OF ALL PROPOSED AND EXISTING PAVED AREAS.

NO.	DATE	BY	DESCRIPTION
1	1/20/24@13	JMN	CONSTRUCTION SUBMITTAL
2	1/20/24@11	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300610  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3693 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP., OH

CONSTRUCTION  
 NOTES

C001

GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION SHALL COMPLY WITH COUNTY CODES AND STANDARDS. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
2. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS.
3. ALL WORK WITHIN RIGHT OF WAY TO INCLUDE TRAFFIC CONTROL IN ACCORD WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND PER ALL COUNTY REQUIREMENTS. ROAD MUST REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC PLAN AND SUBMIT TO THE COUNTY AND OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO COORDINATE ANY NECESSARY LANE CLOSURES WITH THE COUNTY.
4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING. IF CONDITIONS ENCOUNTERED ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
6. SHOULD ANY UNCHARTED, OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR THE PROJECT AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
9. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
10. CONTRACTOR TO COORDINATE TEMPORARY UTILITY OUTAGES WITH APPLICABLE UTILITY COMPANY AND COUNTY AND NOTIFY NEIGHBORING EFFECTED OWNERS NO LESS THAN 72 HOURS PRIOR TO PLANNED OUTAGE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO PERFORM ALL THE WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
11. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
12. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER, LOCAL MUNICIPALITY, AND STATE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF PEDESTRIANS AND VEHICLES CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS IN ACCORDANCE WITH ODOT REGULATIONS AND/OR AS REQUIRED OR DIRECTED BY THE SITE ENGINEER OR CONSTRUCTION MANAGER OR LOCAL GOVERNING AUTHORITIES. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM ODOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
15. THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.
17. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2784 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
18. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY AND AT NO ADDITIONAL COST TO THE OWNER.
19. ALL DISTURBANCE INCURRED TO COUNTY OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE COUNTY OF THE LOCAL AND/OR OHIO DOT.
20. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRE CONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
21. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE PROJECT ENGINEER AND OWNER APPROVE THE METHOD AND MATERIALS TO BE INCORPORATED INTO THE WORK.
22. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE COUNTY REQUIREMENTS.
23. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.
24. ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CONTRACTOR WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.
25. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
27. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT-OF-WAYS CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.
28. WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (BOOK OR PLAN BASED) INCLUDING COUNTY REQUIREMENTS, THE MORE STRINGENT SPECIFICATION SHALL PREVAIL.
29. FINAL CLEANUP. THE CONTRACTOR SHALL CLEAN-UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE GOVERNMENTAL AND REGULATORY AGENCIES.

DEMOLITION NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER AND OWNER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT, AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABATEMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY LISTED ON THE PLANS.
5. ALL DEMOLISHED MATERIALS SHALL BE TAKEN FROM THE SITE IMMEDIATELY (UNLESS OTHERWISE NOTED) AND DISPOSED OFF-SITE IN ACCORDANCE WITH ALL LAWS, REGULATIONS AND ORDINANCES. NO BURNING OF ANY MATERIALS WILL BE ALLOWED ON OR OFF SITE. NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT ON SITE.
6. MATERIALS LISTED ON THE PLANS TO BE SALVAGED TO OWNER SHALL BE STORED IN AREAS INDICATED ON THE PLANS, OR TO THE OWNER'S SATISFACTION.
7. USE SUITABLE METHODS TO LIMIT DUST AND DIRT TO ADJACENT STRUCTURES OR PROPERTY. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO EXISTING CONDITIONS PRIOR TO THE START OF THE DEMOLITION WORK.
8. THE CONTRACTOR SHALL PROTECT TREES, LANDSCAPING, SITE IMPROVEMENTS, AND OTHER ITEMS NOT SCHEDULED FOR CLEARING, OR THAT MIGHT BE DAMAGED BY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY ITEMS THAT ARE DAMAGED.
9. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION, POLLUTION, AND DUST CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. REFERENCE THE SWPPP PLAN, NOTES AND DETAILS.
10. THE BUILDING PAD AREA IS DEFINED AS THE AREA TWENTY (20) FEET OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT, INCLUDING ATTACHED WALKWAYS, CANOPIES, SIDEWALKS, LOADING DOCKS, UTILITY PADS, AND ANY OTHER SUCH APPURTENANCES.
11. ANY AND ALL DAMAGE TO EXISTING PAVEMENT WITHIN THE LAYDOWN AREA SHALL BE REPAIRED.
12. ALL UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION SHALL REMAIN INTACT. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION AT THEIR SOLE EXPENSE.
13. CONTRACTOR SHALL PERFORM ALL CLEARING, GRUBBING, REMOVAL OF TREES, STUMPS, VEGETATION, AND DEBRIS NECESSARY TO PERFORM THE WORK INDICATED HEREIN.

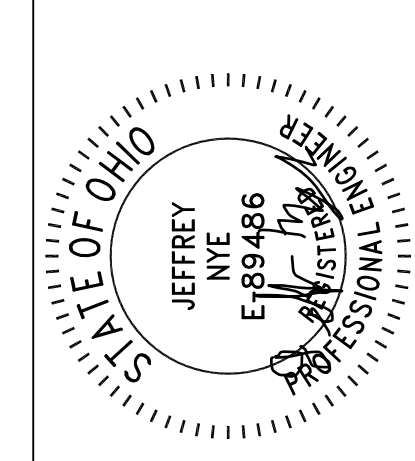
GENERAL GRADING & DRAINAGE NOTES:

- 1. ALL EARTHWORK WILL COMPLY WITH THE PRELIMINARY GEOTECHNICAL REPORT INVESTIGATION DATED SEPTEMBER 2023 AS AUTHORED BY THE MANNIK AND SMITH GROUP, INC.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING AND POND AREAS. THE DETENTION BASINS WILL BE OVERELEVATED TO ALLOW SPOIL OF ALL EXCESS TOPSOILS INTO BASIN BORROW PIT. SOILS EXCAVATED FROM BASIN BORROW PITS WILL BE USED AS STRUCTURAL FILL. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING AND POND AREAS.
3. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC. TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
4. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
5. THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL FUTURE PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THAT IT SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
7. CLEAN HARD FILL MATERIAL SHALL MEET THE REQUIREMENTS OF OAC 3745-400-05 AND ALL REQUIREMENTS OF THE OHIO EPA, ANY PERSON USING CLEAN HARD FILL ON A SITE OTHER THAN THE SITE OF GENERATION MUST PROVIDE A WRITTEN NOTICE OF INTENT TO FILL TO THE LICENSING AUTHORITY(IES) WHERE THE CLEAN HARD FILL IS TO BE PLACED AT LEAST SEVEN DAYS PRIOR TO PLACING.
8. SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS AND TO PRECLUDE THE PONDING OF WATER ON SITE.
9. VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDINGS WITH THE ARCHITECTURAL PLANS.
10. SPOT ELEVATIONS SHOWN ON PAVEMENT AT CURB DEPICT GROUND SURFACE ELEVATION AT FACE OF CURB, UNLESS OTHERWISE NOTED.
11. IT IS THE CONTRACTORS OBLIGATION AND RESPONSIBILITY TO CONFIRM/CONCUR WITH THE EXISTING GRADES SHOWN HEREIN. THE CONTRACTOR MUST CONFIRM ALL EXISTING GRADES PRIOR TO ANY/ALL EXCAVATION.
12. THE CONTRACTOR MUST DOCUMENT EXISTING GRADE DISPUTES BY PROVISION OF A TOPOGRAPHIC SURVEY BY A STATE OF OHIO REGISTERED PROFESSIONAL SURVEYOR, PRIOR TO ANY EXCAVATION DISTURBING ACTIVITIES. IN THE ABSENCE OF THE PROVISION OF TOPOGRAPHIC SURVEY BY THE CONTRACTOR, THE GRADES SHOWN HEREON WILL BE THE "TOPOGRAPHY OF RECORD" FOR ANY AND ALL SOIL VOLUME DISPUTES.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL IMPORT/EXPORT NECESSARY TO ACHIEVE THE PROPOSED GRADES.
14. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 671 TYPE F.
15. ALL UTILITY EXCAVATION UNDER OR NEAR EXISTING OR FUTURE PAVEMENT (INCLUDING SIDEWALKS), SUBJECT TO SETTLEMENT, WILL BE BACK FILLED WITH PREMIUM BACKFILL AS DEFINED HEREIN. AT QUESTIONABLE AREAS THE DECISION OF THE OF THE ENGINEER, OR HIS REPRESENTATIVE, WILL PREVAIL.
16. PAVEMENT EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH ITEM 203.12 OF OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO MAKE COMPACTION TESTS. TESTS SHALL BE TAKEN BY A TESTING COMPANY APPROVED BY THE ENGINEER. THE COST OF THESE TESTS SHALL BE PAID BY THE CONTRACTOR. "PROOF ROLLING WILL BE REQUIRED PRIOR TO PAVING AND SHALL BE CONDUCTED PRIOR TO PLACEMENT OF AGGREGATE BASE AND PERFORMED WITH THE OWNER'S INSPECTOR PRESENT AND PAID FOR BY THE CONTRACTOR.
17. GRANULAR BACKFILL OF THE UTILITY TRENCHES SHALL BE REQUIRED UNDER AN D WITHIN 4" OF ALL PAVED AREAS.

GENERAL UTILITY NOTES:

- 1. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY, AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2784 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
4. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN AND SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION, AS NECESSARY.
5. RELOCATION OF ANY UTILITY COMPANY FACILITIES TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY AND LOCAL MUNICIPALITY.
6. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
7. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.
8. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREON, THE SITE ENGINEER SHALL BE NOTIFIED FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
9. REFERENCE SITE ELECTRICAL PLAN FOR LOCATION OF ELECTRIC CONDUIT FOR ALL SITE ELECTRICAL WORK.
10. CONTRACTOR TO SEE MEP SITE PLAN FOR ALL ELECTRICAL AND COMMUNICATION CONDUIT RUNS PRIOR TO START OF CONSTRUCTION.
11. PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE COUNTY ENGINEERING DEPARTMENT AND THE CONSTRUCTION MANAGER.
12. THE LOCATION, SIZE, AND DEPTH OF THE EXISTING SANITARY LATERAL OR MAIN SHALL BE VERIFIED IN THE FIELD IN THE PRESENCE OF THE COUNTY INSPECTOR. THE SLOPE OF THE LATERAL TO THE BUILDING WILL THEN BE DETERMINED. THE COUNTY MUST APPROVE THE TYPE AND LOCATION OF ANY CONNECTION PRIOR TO INSTALLATION. THE EXISTING SANITARY LATERAL SHALL BE TIE-BACK PRIOR TO INSTALLATION OF ANY SANITARY SEWER SYSTEM COMPONENTS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THE EXISTING LATERAL IS NOT FOUND TO BE IN GOOD CONDITION.
13. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).

Table with columns: NO., DATE, BY, DESCRIPTION. Row 1: 1, 2/24/2024, JMM, CONSTRUCTION SUBMITTAL. Row 2: 2, 2/24/2111, JMM, CONSTRUCTION SUBMITTAL.



11/11/24
20600 CHAGRIN BLVD
SUITE 500, SHAKER
HEIGHTS, OH 44122
TEL: 216.278.1490
FAX: 216.278.1497
PROJECT DATE: 05/09/2024
230010
DRAWN BY: JMM
CHECKED BY: MAS

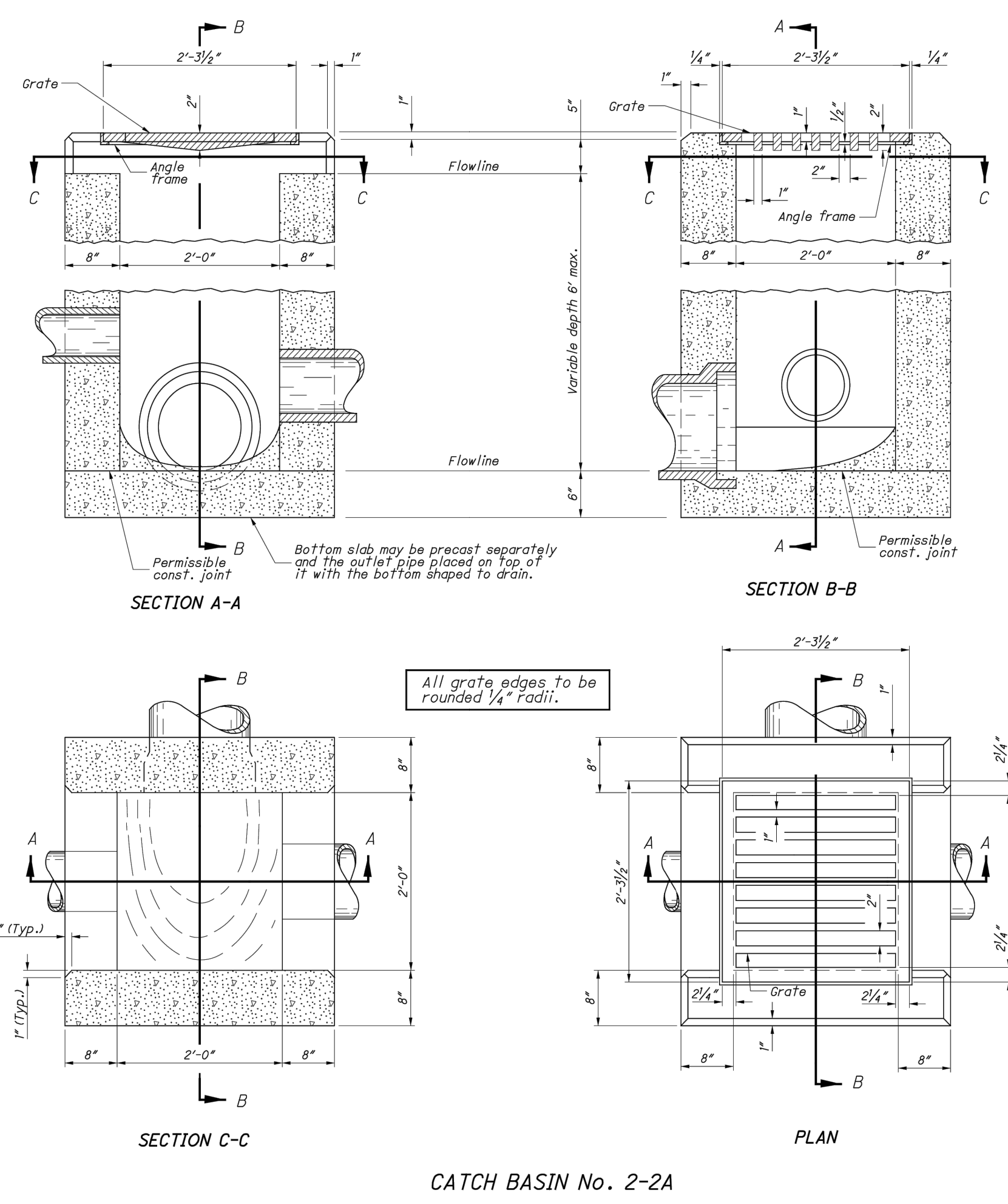


PREPARED FOR:
OMCO BUILDING, LLC
3893 EAST ROYALTON ROAD
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -
MASS GRADING PLAN
ETNA TWP., OH

CONSTRUCTION
NOTES

C002



CATCH BASIN No. 2-2A

**NOTES**

**GENERAL:** Catch Basins 2-2A and 2-2B are not intended for use in roadway applications. Catch Basin 2-2C is intended for parking lot use only.

**CATCH BASINS 2-2A, 2-2B & 2-2C:** This sheet depicts Catch Basin 2-2A. See Sheet 2 of 2 for Catch Basin 2-2B & 2-2C.

**GRATE AND FRAME:** Furnish a design essentially the same and equally as strong as the one shown (see Construction Information Table), or meet the requirements of CMS 711.4. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

Cast the following text into the top of the grate:

**"DUMP NO WASTE" and "DRAINS TO WATERWAY"**

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

**WALLS:** Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls of at least 6" thick with sufficient reinforcing to permit shipping and handling without damage. Do not use brick above the flow line of the side opening for Type 2-2A.

**CONCRETE:** Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.

**PRECAST BASE:** If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

**LOCATION AND ELEVATION:** When given on the plans, location and elevation are at the top center of the grate.

**MINIMUM DEPTH:** The minimum depth of CB No. 2-2A is the outside diameter (O.D.) of the outlet pipe plus 7".

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill all voids per CMS 611.

**2-2A SIDE INLETS:** Provide inlets on both sides of the No. 2-2A catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use CB 2-2A within the Clear Zone. The flow line should be 4" to 6" below normal ditch returning to normal 10' to 15' each side of the inlet.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-2A.

**CONSTRUCTION INFORMATION**

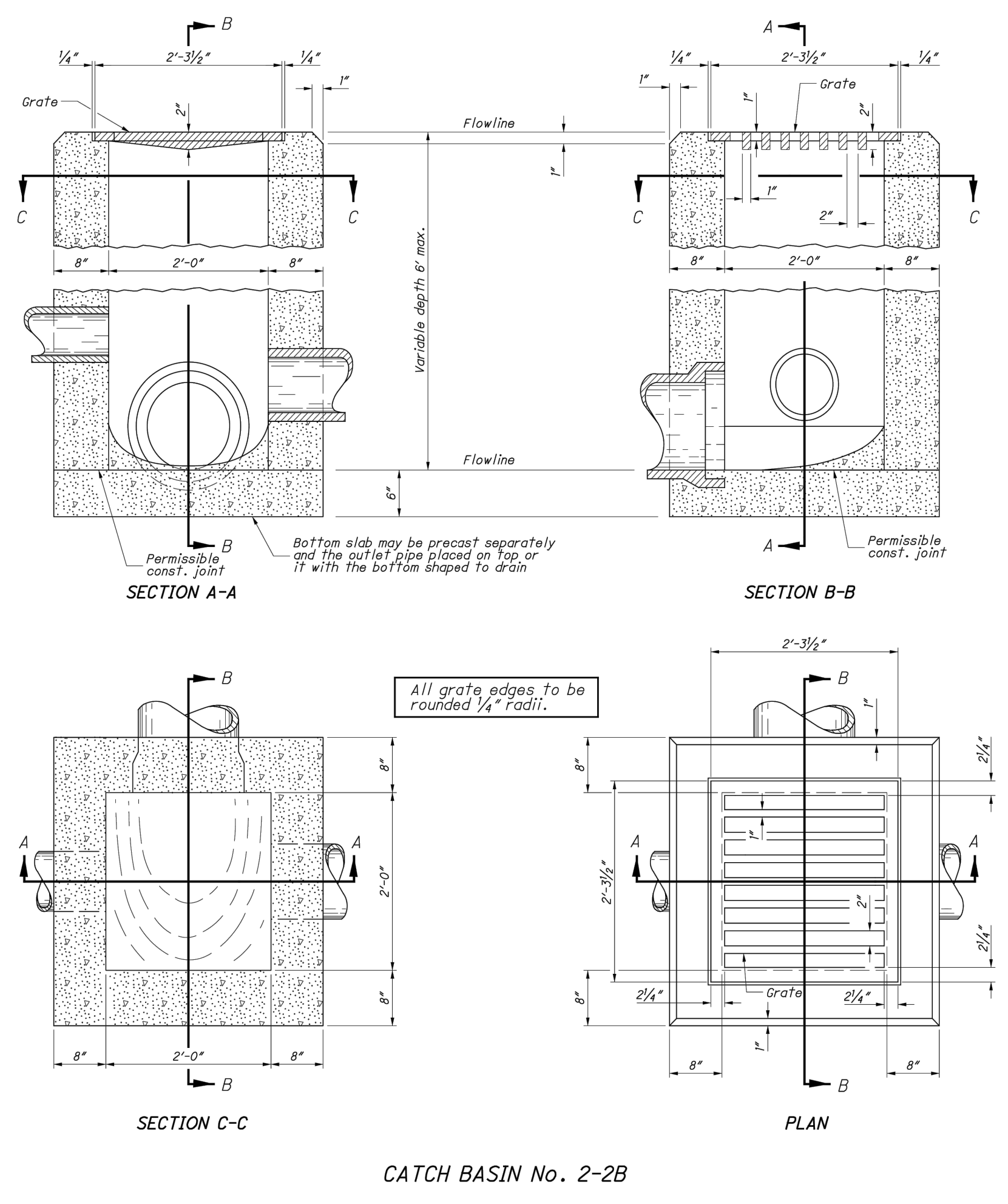
Minimum weight of grate, 120 lbs.
Minimum weight of frame, 40 lbs.

**CATCH BASIN**      **OUTLET PIPE SIZE**

2-2A, 2-2B, 2-2C	12" To 18"
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**SECTION THRU ANGLE FRAME FOR STANDARD No. 2-2A CATCH BASIN**

OFFICE OF HYDRAULIC ENGINEERING  
 M. Cozzoli  
 CATCH BASIN No. 2-2A, 2-2B, 2-2C  
 1/2



CATCH BASIN No. 2-2B

**NOTES**

**CATCH BASINS 2-2A, 2-2B & 2-2C:** This sheet depicts Catch Basin 2-2B & 2-2C. See Sheet 1 of 2 for Catch Basin 2-2A.

**CB-2-2B GRATE:** Furnish a design essentially the same and equally as strong as the one shown (see Construction Information Table), or meet the requirements of CMS 711.4. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

If necessary, bicycle safe grates will be specified in the plans. Furnish Weanoh No. R-4859-S or E.J. No. 510M3 (10051043) grates or approved equals.

Place grate elevation 4" to 6" below normal ditch and return to normal 10' to 15' each side of inlet.

**CB-2-2C FRAME & GRATE:** Where the catch basin is specified for use in a parking lot, furnish Weanoh No. R-1878-ASD or E.J. No. V-5622 (4562200) frame and grate assembly, install a plan grate elevation for setting the frame and grate assembly, install a 4000 psi concrete apron to encase and secure the frame with a minimum width of 6" less than the thickness of the catch basin walls. Slope the apron to provide a local depression. Include a 1" expansion joint where the apron abuts PCC pavement. The cost is included in the catch basin bid price.

**CB-2-2C APRON:** On cast-in-place and precast units, provide a level surface on the catch basin 4" below the plan grate elevation for setting the frame and grate assembly, install a 4000 psi concrete apron to encase and secure the frame with a minimum width of 6" less than the thickness of the catch basin walls. Slope the apron to provide a local depression. Include a 1" expansion joint where the apron abuts PCC pavement. The cost is included in the catch basin bid price.

**GRATE TEXT:** Cast the following text into the top of the grate:

**"DRAINS TO WATERWAY" and "DUMP NO WASTE"**

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

**WALLS:** Construct cast-in-place walls with a nominal 8" thickness. Provide precast walls of at least 6" thick with sufficient reinforcing to permit shipping and handling without damage.

**CONCRETE:** Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.

**PRECAST BASE:** If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

**LOCATION AND ELEVATION:** When given on the plans, location and elevation are at the top center of the grate.

**MINIMUM DEPTH:** The minimum depth of CB No. 2-2B is the outside diameter (O.D.) of the outlet pipe plus 4". The minimum depth of CB No. 2-2C is the outside diameter (O.D.) of the outlet pipe plus 6".

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill all voids per CMS 611.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-2B or 2-2C.

**CONSTRUCTION INFORMATION**

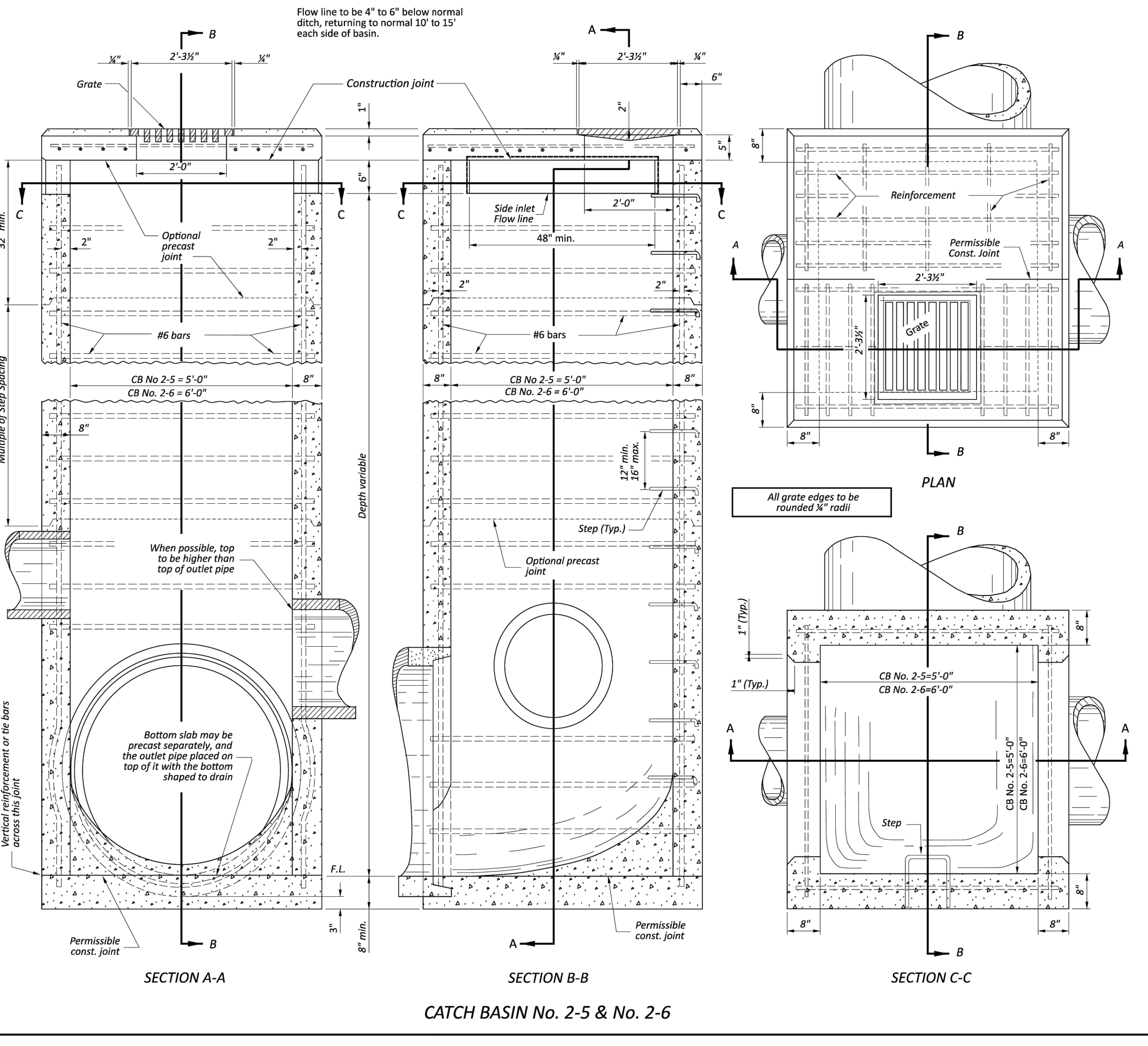
Minimum weight of grate, 120 lbs.
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**SECTION THRU ANGLE FRAME FOR STANDARD No. 2-2B CATCH BASIN**

CATCH BASIN No. 2-2C

OFFICE OF HYDRAULIC ENGINEERING  
 M. Cozzoli  
 CATCH BASIN No. 2-2A, 2-2B, 2-2C  
 2/2

OFFICE OF HYDRAULIC ENGINEERING  
 Jeffrey E. Syar  
 STANDARD HYDRAULIC CONSTRUCTION DRAWING  
 CATCH BASIN No. 2-5, 2-6  
 1/2



CATCH BASIN No. 2-5 & No. 2-6

**NOTES**

**GENERAL:** Catch Basins 2-5 and 2-6 are not intended for traffic bearing applications.

**GRATE:** See details on SCD CB-2-2A, 2-2B, 2-2C. Minimum weight of grate, 120 lbs. or meets the requirements of CMS 711.4. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

If necessary, bicycle safe grates will be specified in the plans. Furnish Weanoh No. R-4859-C or East Jordan No. 5110 Type M3 bicycle safe grates or approved equals.

Cast the following text into the top of the grate:

**"DUMP NO WASTE" and "DRAINS TO WATERWAY"**

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

**WALLS:** Construct reinforced concrete walls 8" thick, as shown. Construct brick walls used in place of reinforced concrete with a nominal thickness of 2". Provide precast walls of at least 6" thick with sufficient reinforcing to permit shipping and handling without damage and at least equivalent to reinforced cast-in-place construction.

**STEPS:** Provide steps where the depth exceeds 6". Meet the requirements of SCD MH-1.

**CONCRETE:** Provide Class CCI concrete for cast-in-place structures. When precast, provide concrete meeting the requirements of CMS 706.13. Mark the catch basin number on the structure.

**REINFORCEMENT:** Provide #6 bars spaced 6" center to center and #6 tie bars spaced as shown for top reinforcement. Main bars to clear bottom of slab by 1/2". Side wall to be reinforced with #6 bars horizontal in each side, 6" long for CB No. 2-5 and 7" long for CB 2-6, spaced 1' center to center, and #6 bars in each corner length equals depth plus 1".

**PRECAST BASE:** If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

**LOCATION AND ELEVATION:** When given on the plans, the location and the elevation are at the top center of the grate. When side openings are provided, the elevation is at the flow line of the side inlet.

**MINIMUM DEPTH:** The minimum depth of CB No. 2-5 and CB No. 2-6 is the outside diameter (O.D.) of the outlet pipe plus 7".

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill all voids per CMS 611.

**SIDE INLETS:** Provide inlets on both sides of No. 2-5 and 2-6 catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use catch basins with side inlets within the Clear Zone.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-5 or Item 611 - Catch Basin, No. 2-6.

**CATCH BASIN**      **OUTLET PIPE SIZE**

2-5	42" to 48"
2-6	54" to 60"

OFFICE OF HYDRAULIC ENGINEERING  
 Jeffrey E. Syar  
 STANDARD HYDRAULIC CONSTRUCTION DRAWING  
 CATCH BASIN No. 2-5, 2-6  
 1/2

ST. CECILIA ENGINEERING PROFESSIONAL ENGINEERS  
 JEFFREY E. SYAR  
 E-89486  
 11/11/24

20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.278.1490  
 FAX: 216.278.1497

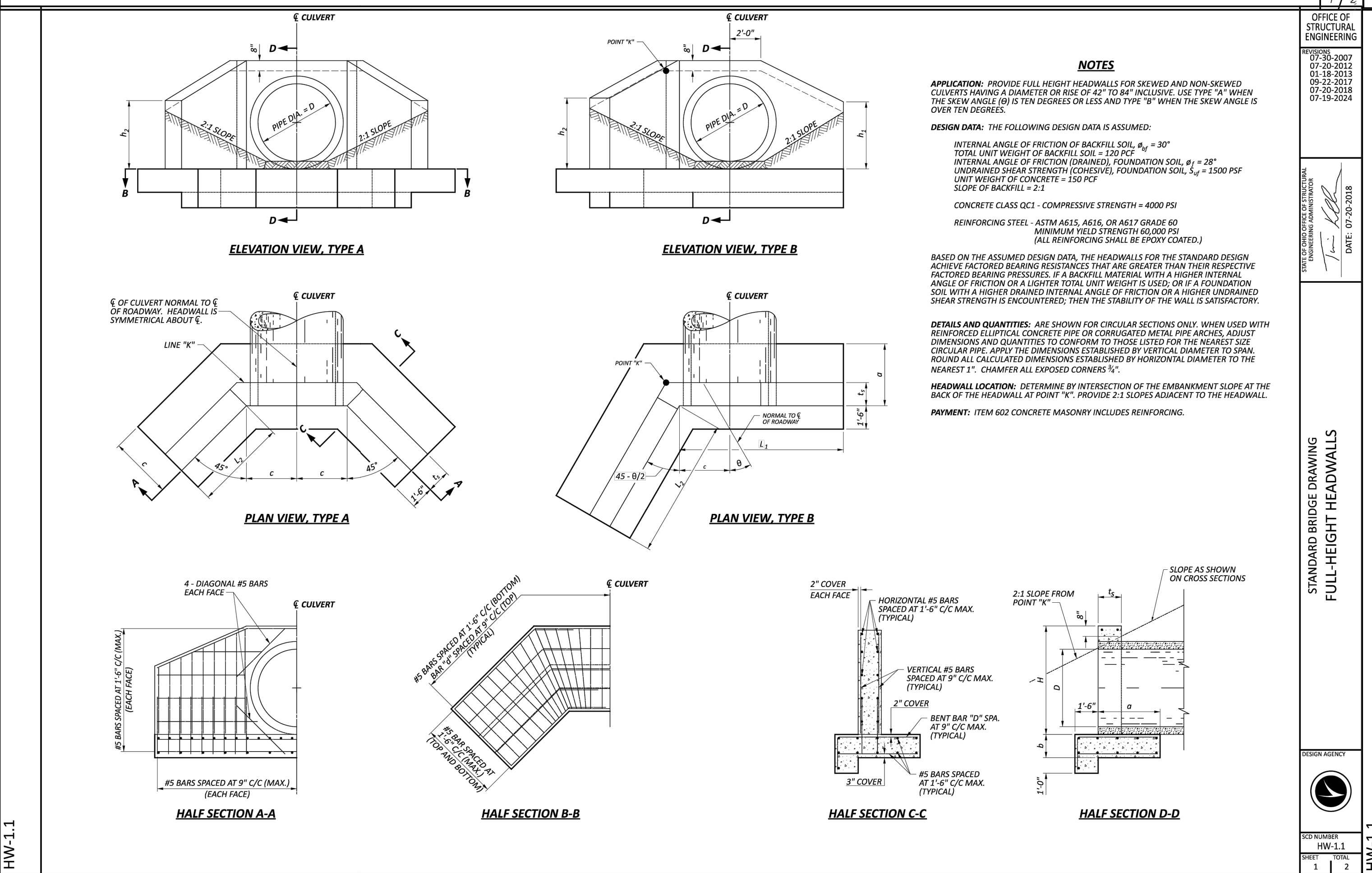
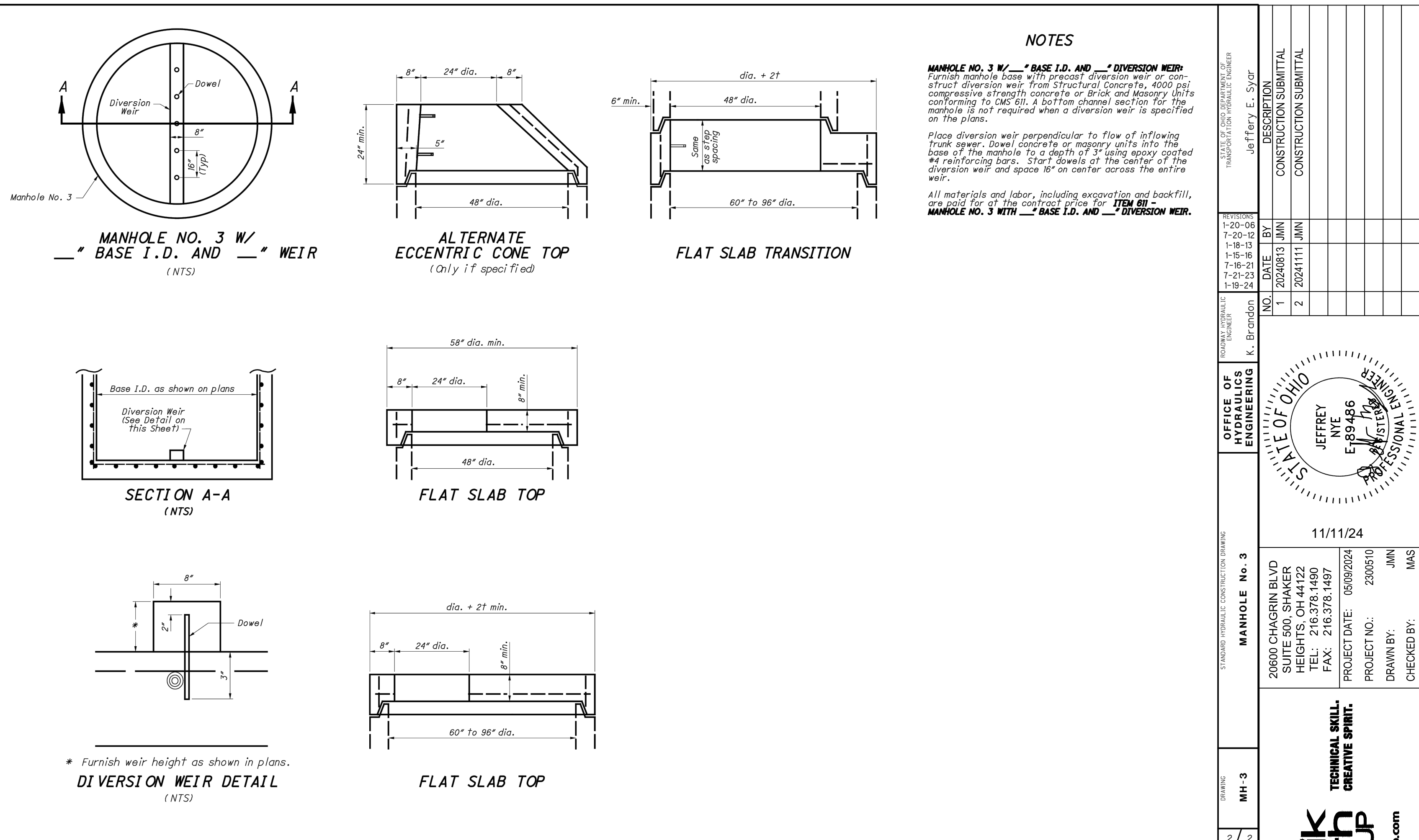
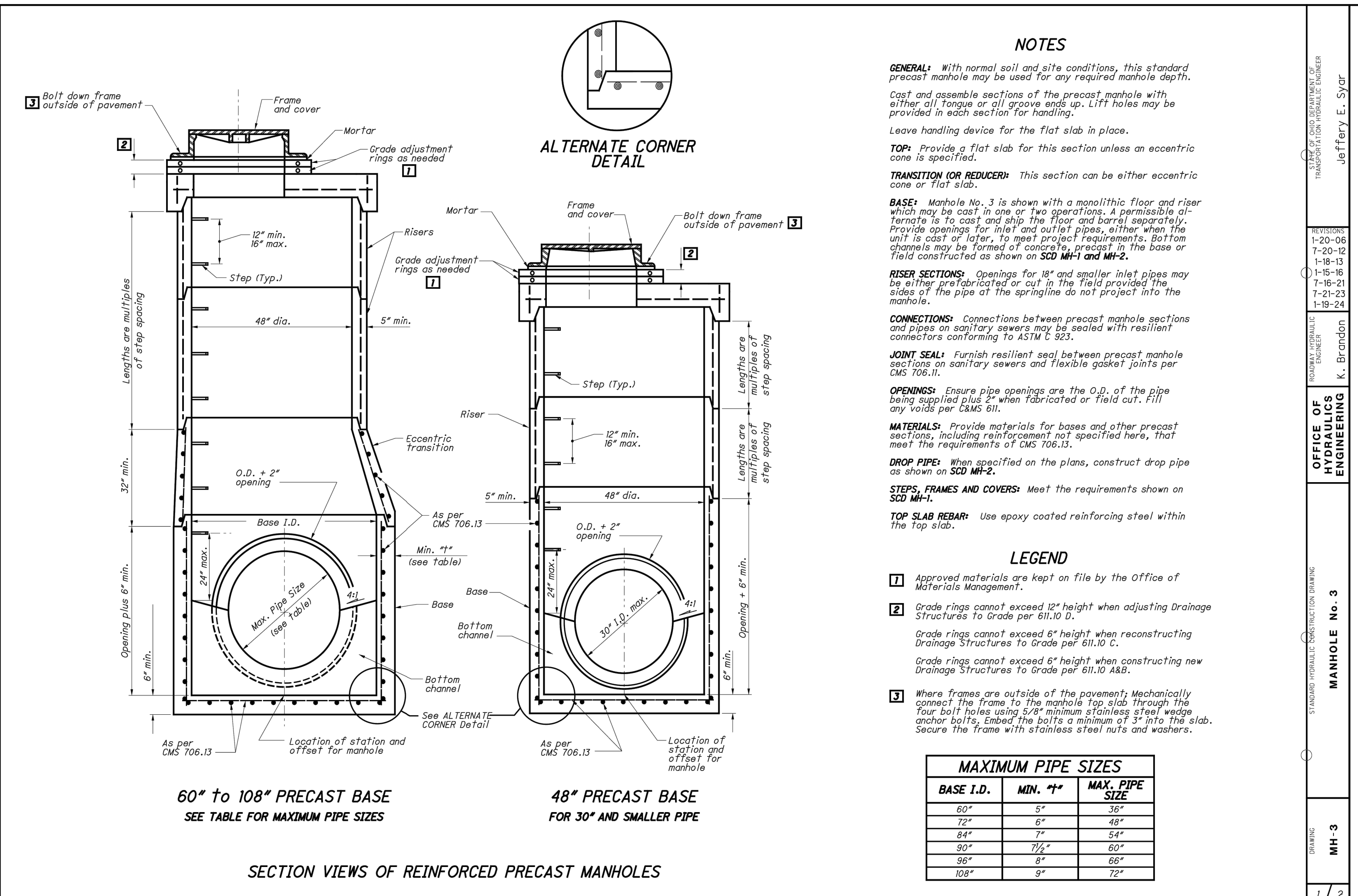
PROJECT NO: 05092024  
 DRAWN BY: JMIN  
 CHECKED BY: MAS

OMCO BUILDING, LLC  
 3693 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

CONSTRUCTION DETAILS

C003



**STANDARD BRIDGE DRAWING FULL-HEIGHT HEADWALLS**

**FULL-HEIGHT HEADWALLS (ENGLISH)**

PIPE DIA. D	H	θ = 0°				θ = 15°				θ = 30°				θ = 45°				PIPE DIA. D															
		L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>																
42"	5'-4"	3'-3"	1'-6"	2'-6"	1'-6"	85	3'-7"	3'-6"	7.2	7.1	695	8'-9"	4'-6"	4'-1"	3'-3"	7.6	7.5	656	7'-10"	5'-9"	3'-7"	3'-8"	7.8	7.7	688	7'-10"	7'-9"	3'-7"	3'-8"	9.0	8.9	794	42"
48"	5'-10"	3'-6"	1'-6"	2'-9"	1'-6"	85	4'-4"	3'-9"	8.8	8.6	861	10'-0"	5'-4"	4'-6"	3'-10"	9.3	9.1	806	8'-9"	6'-10"	3'-10"	3'-11"	9.4	9.2	823	8'-9"	9'-2"	3'-10"	4'-0"	10.9	10.8	970	48"
54"	6'-5"	3'-9"	1'-6"	3'-0"	1'-6"	85	5'-2"	4'-2"	10.8	10.5	1,001	11'-4"	6'-3"	5'-0"	4'-2"	11.3	11.0	977	9'-8"	10'-7"	4'-2"	4'-3"	11.2	11.0	1,002	9'-8"	10'-7"	4'-2"	4'-4"	13.1	12.9	1,149	54"
60"	7'-0"	4'-0"	1'-6"	3'-3"	1'-6"	85	5'-11"	4'-5"	12.7	12.4	1,151	12'-7"	7'-2"	5'-4"	4'-6"	13.4	13.1	1,127	10'-7"	9'-0"	4'-4"	4'-7"	13.2	12.9	1,124	10'-7"	12'-0"	4'-4"	4'-7"	15.4	15.1	1,306	60"
72"	8'-2"	4'-6"	1'-7"	3'-9"	1'-6"	87	7'-5"	5'-0"	17.5	17.1	1,808	15'-1"	8'-11"	6'-2"	5'-1"	18.5	18.0	1,803	12'-5"	11'-2"	4'-10"	5'-2"	18.0	17.5	1,770	12'-5"	14'-10"	4'-10"	5'-3"	21.0	20.6	2,080	72"
84"	9'-4"	5'-0"	1'-10"	4'-3"	1'-6"	88	9'-0"	5'-8"	24.6	24.0	2,608	17'-7"	10'-9"	7'-0"	5'-9"	25.7	25.1	2,563	14'-3"	13'-4"	5'-6"	5'-10"	25.1	24.5	2,559	14'-3"	17'-8"	5'-4"	5'-10"	28.9	28.3	2,943	84"

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**STANDARD BRIDGE DRAWING FULL-HEIGHT HEADWALLS**

**CARTER POINT - MASS GRADING PLAN ETNA TWP., OH**

**CONSTRUCTION DETAILS**

**C004**

DATE: 07-20-2018

PREPARED FOR: OMCO BUILDING, LLC

3693 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

MANHOLE NO. 3

JEFFREY E. SYR

REGISTERED PROFESSIONAL ENGINEER

STATE OF OHIO

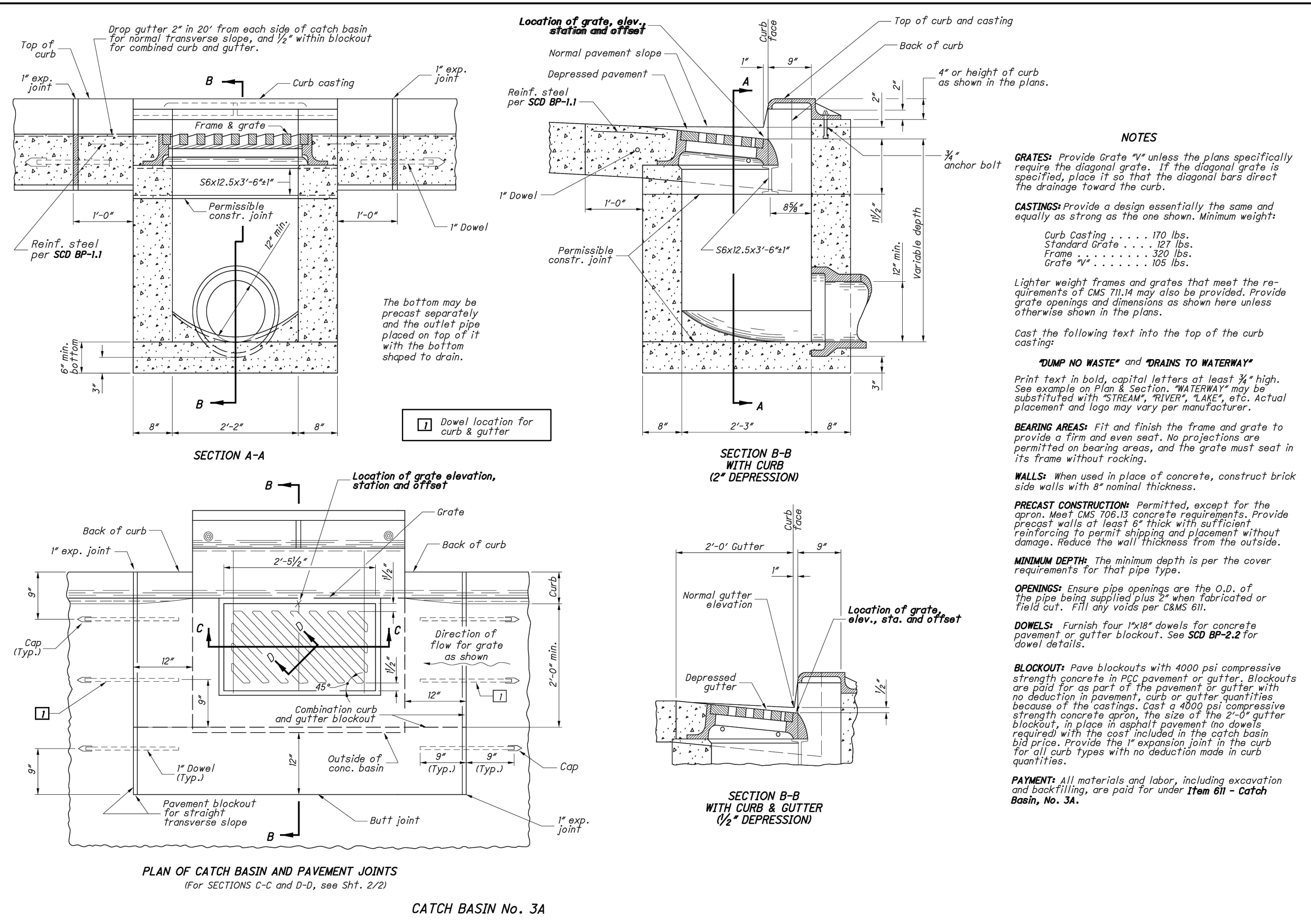
11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024

DRAWN BY: JMM

CHECKED BY: MAS



**NOTES**

**GRATES:** Provide grate "V" unless the plans specifically require the diagonal grate. If the diagonal grate is specified, place it so that the diagonal bars direct the drainage toward the curb.

**CASTINGS:** Provide a design essentially the same and equally as strong as the one shown, minimum weight.

Curb Casting . . . . . 170 lbs.  
Standard Grate . . . . . 27 lbs.  
Frame "V" . . . . . 105 lbs.

Lighter weight frames and gratings that meet the requirements of CMS 711.14 may also be provided. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

Cast the following text into the top of the curb casting:

**"DUMP NO WASTE" and "DRAINS TO WATERWAY"**

Print text in bold, capital letters of least 3/8" high. See example on Plan & Section. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

**BEARING AREAS:** Fit and finish the frame and grate to provide a firm and even seat. No projections are permitted on bearing areas, and the grate must seat in its frame without rocking.

**WALLS:** When used in place of concrete, construct brick side walls with 8" nominal thickness.

**PRECAST CONSTRUCTION:** Permitted, except for the apron. Use 1500 psi concrete requirements. Provide precast walls of least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

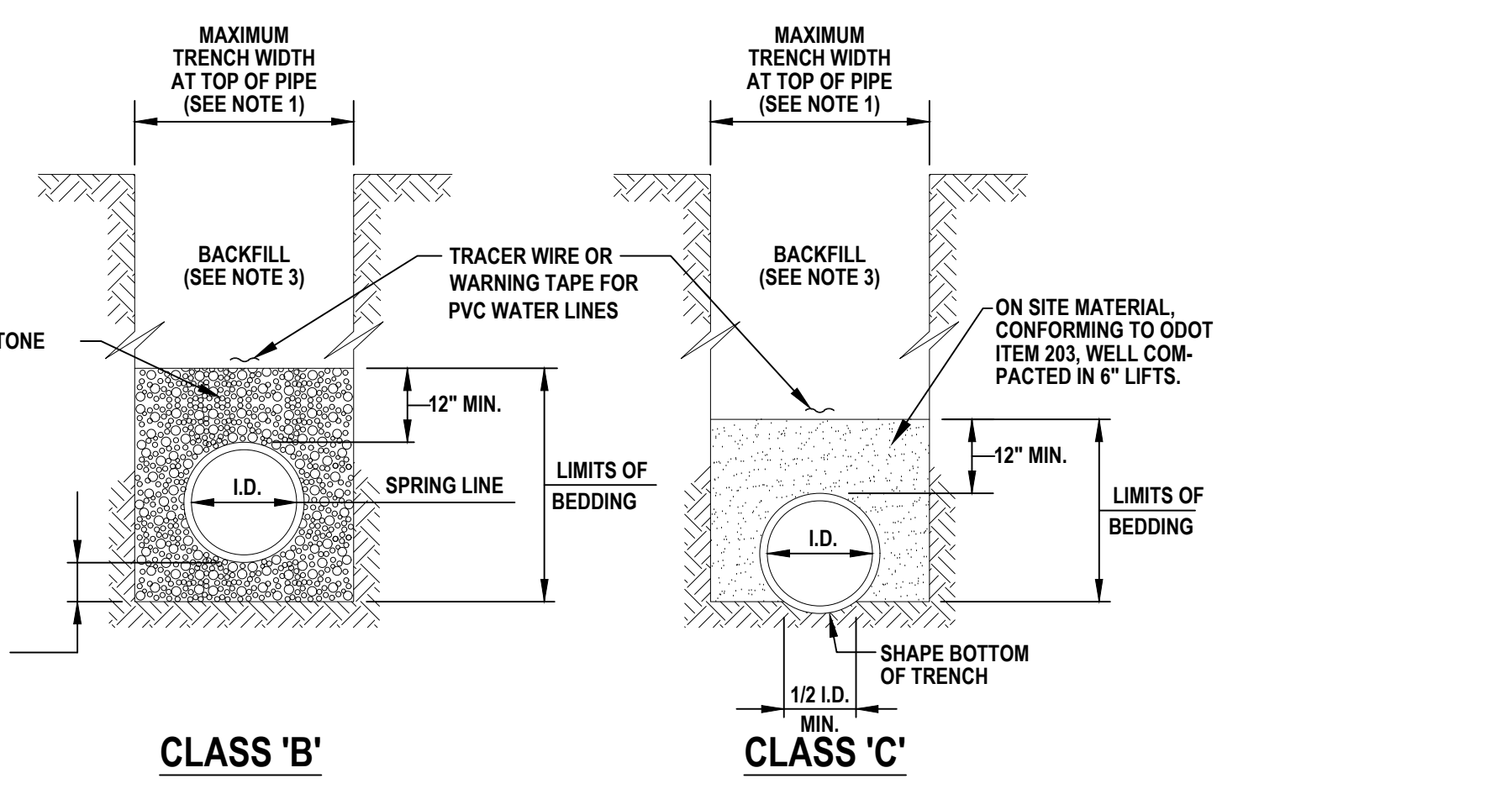
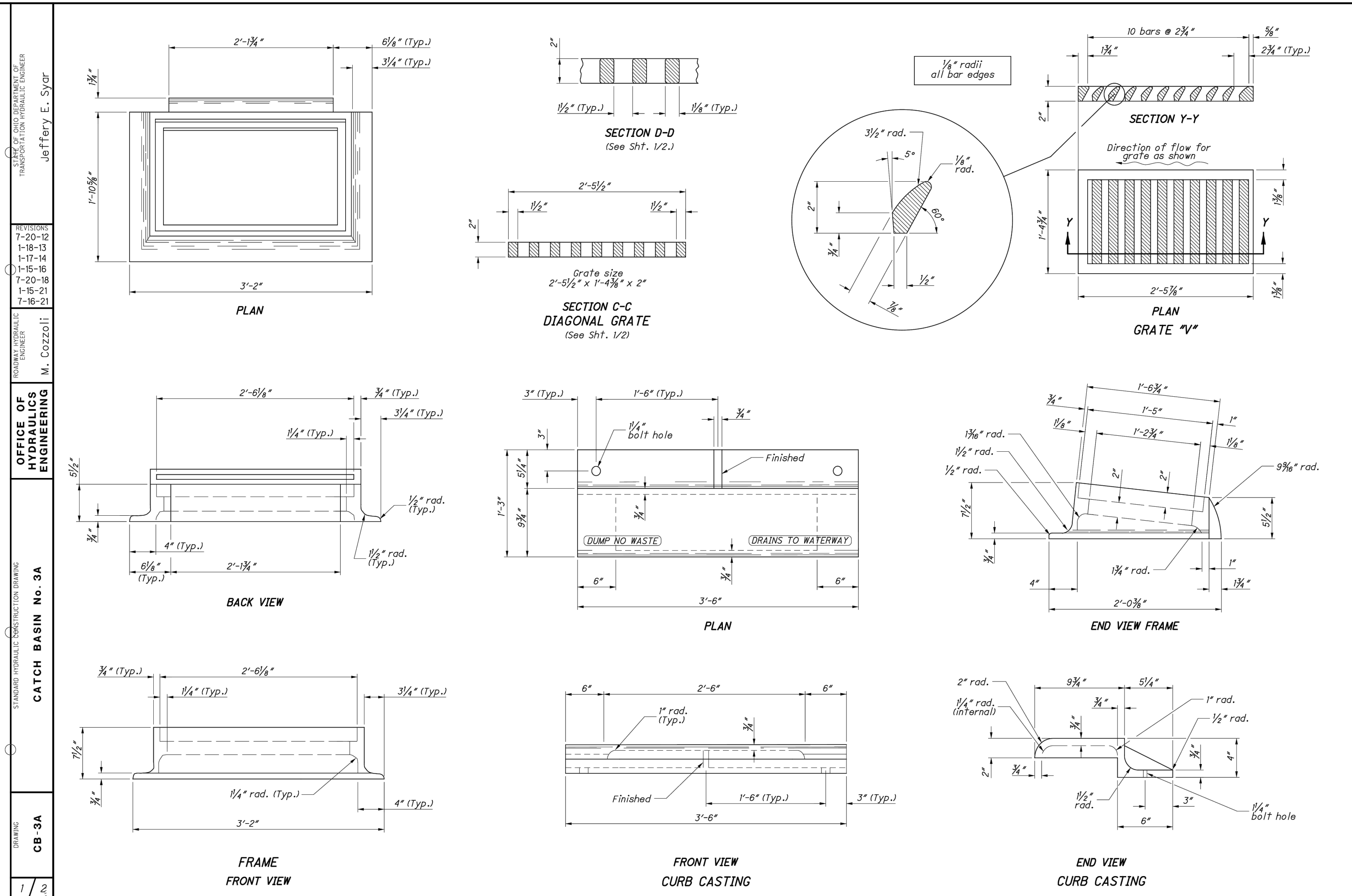
**MINIMUM DEPTH:** The minimum depth is per the cover requirements for that pipe type.

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 3" when fabricated or field cut. Fill any voids per CMS 611.

**DOWELS:** Furnish four 1"x18" dowels for concrete pavement or gutter breakout. See SCD BP-2.2 for dowel details.

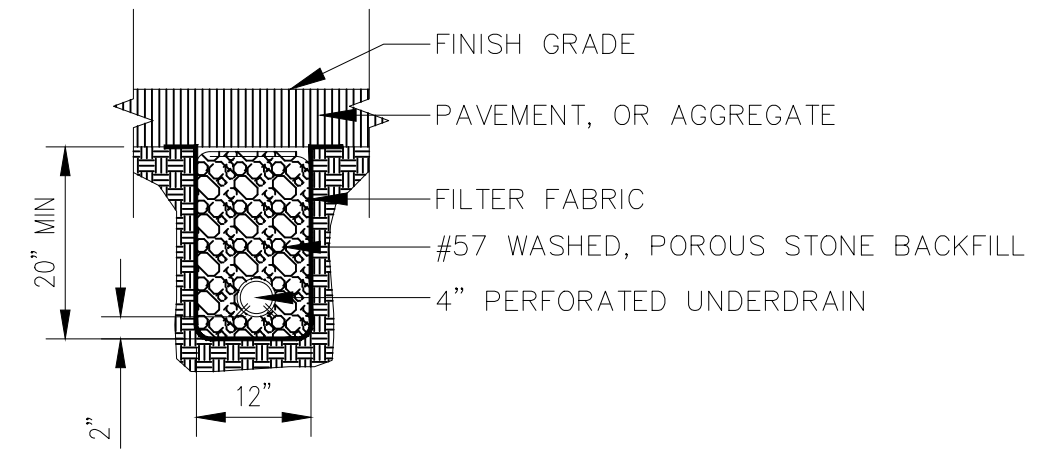
**BLOCKOUTS:** Pave blockouts with 4000 psi compressive strength concrete in RCP pavement or gutter. Blockouts are paid for as part of the pavement or gutter with no deduction in pavement, curb or gutter quantities, because of the castings. Cast a 4000 psi compressive strength concrete apron. The size of the 2" gutter blockout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. Provide the 1" expansion joint in the curb for all curb types with no deduction made in curb quantities.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 3A.



- NOTES:**
1. MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D.+24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+30" FOR PIPE LARGER THAN 24" I.D. TO 34" I.D.; AND O.D.+48" FOR PIPE SIZES 60" AND OVER.
  2. ALL TRENCH EXCAVATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OHIO STATE INDUSTRIAL COMMISSION (OSIC) AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
  3. ALL BACKFILL SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PUDDLING OF BACKFILL WILL BE PERMITTED. BACKFILL SHALL BE COMPACTED TO 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D 698. CONTRACTOR SHALL USE PREMIUM BACKFILL IN ALL AREAS UNDER AND WITHIN 4' OF PROPOSED AND EXISTING PAVEMENT.
  4. ALL BEDDING SHALL BE CLASS 'B' UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING LIMITS FOR R.C.P. AND D.I.P. SHALL BE TO THE PIPE SPRINGLINE.
  5. SLAG BEDDING SHALL NOT BE USED.
  6. INSTALL A MAGNETIC DETECTOR TAPE 12" ABOVE THE CENTERLINE OF NON-METALLIC WATERLINES OR SANITARY FORCE MAINS.
  6. GRANULAR BACKFILL OF THE UTILITY TRENCHES SHALL BE REQUIRED UNDER AND WITHIN 4' OF ALL PAVED AREAS.

**TRENCH & BEDDING DETAIL**  
SCALE: N.T.S.



- NOTES:**
1. THE PIPE SHALL BE INSTALLED WITH THE PERFORATIONS POINTING DOWN.
  2. THE UNDERDRAINS SHALL BE WRAPPED WITH A FILTER SOCK FOR THE ENTIRE LENGTH.

DATE	BY	DESCRIPTION
7-20-12	J. Sygar	CONSTRUCTION SUBMITTAL
1-18-13	J. Sygar	CONSTRUCTION SUBMITTAL
1-18-13	J. Sygar	CONSTRUCTION SUBMITTAL
7-16-16	J. Sygar	CONSTRUCTION SUBMITTAL
1-16-18	J. Sygar	CONSTRUCTION SUBMITTAL
1-16-18	J. Sygar	CONSTRUCTION SUBMITTAL
7-16-21	J. Sygar	CONSTRUCTION SUBMITTAL

NO.	DATE	DESCRIPTION
1	1/20/2015	CONSTRUCTION SUBMITTAL
2	1/20/2015	CONSTRUCTION SUBMITTAL

OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

DATE	BY	DESCRIPTION
11/11/24	J. Sygar	CONSTRUCTION SUBMITTAL

NO.	DATE	DESCRIPTION
1	11/11/24	CONSTRUCTION SUBMITTAL
2	11/11/24	CONSTRUCTION SUBMITTAL

OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

DATE	BY	DESCRIPTION
11/11/24	J. Sygar	CONSTRUCTION SUBMITTAL

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OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

DATE	BY	DESCRIPTION
11/11/24	J. Sygar	CONSTRUCTION SUBMITTAL

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OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

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OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

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11/11/24	J. Sygar	CONSTRUCTION SUBMITTAL

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OFFICE OF ENGINEERING	STANDARD PRACTICE CONSTRUCTION DRAWING	CATCH BASIN No. 3A
M. Corzoli		

**STATE OF OHIO**  
JEFFREY E. SYGAR  
REGISTERED PROFESSIONAL ENGINEER  
E-89486

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.278.1490  
FAX: 216.278.1497

PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300510  
DRAWN BY: JMN  
CHECKED BY: MAS

11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.278.1490  
FAX: 216.278.1497

PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300510  
DRAWN BY: JMN  
CHECKED BY: MAS

**TECHNICAL SKILL**  
**CREATIVE SPIRIT.**

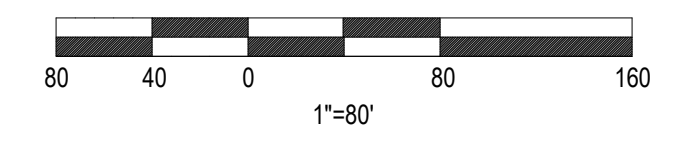
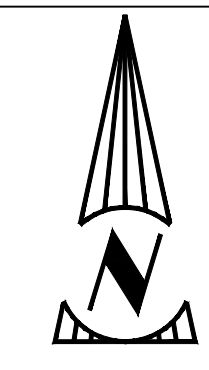
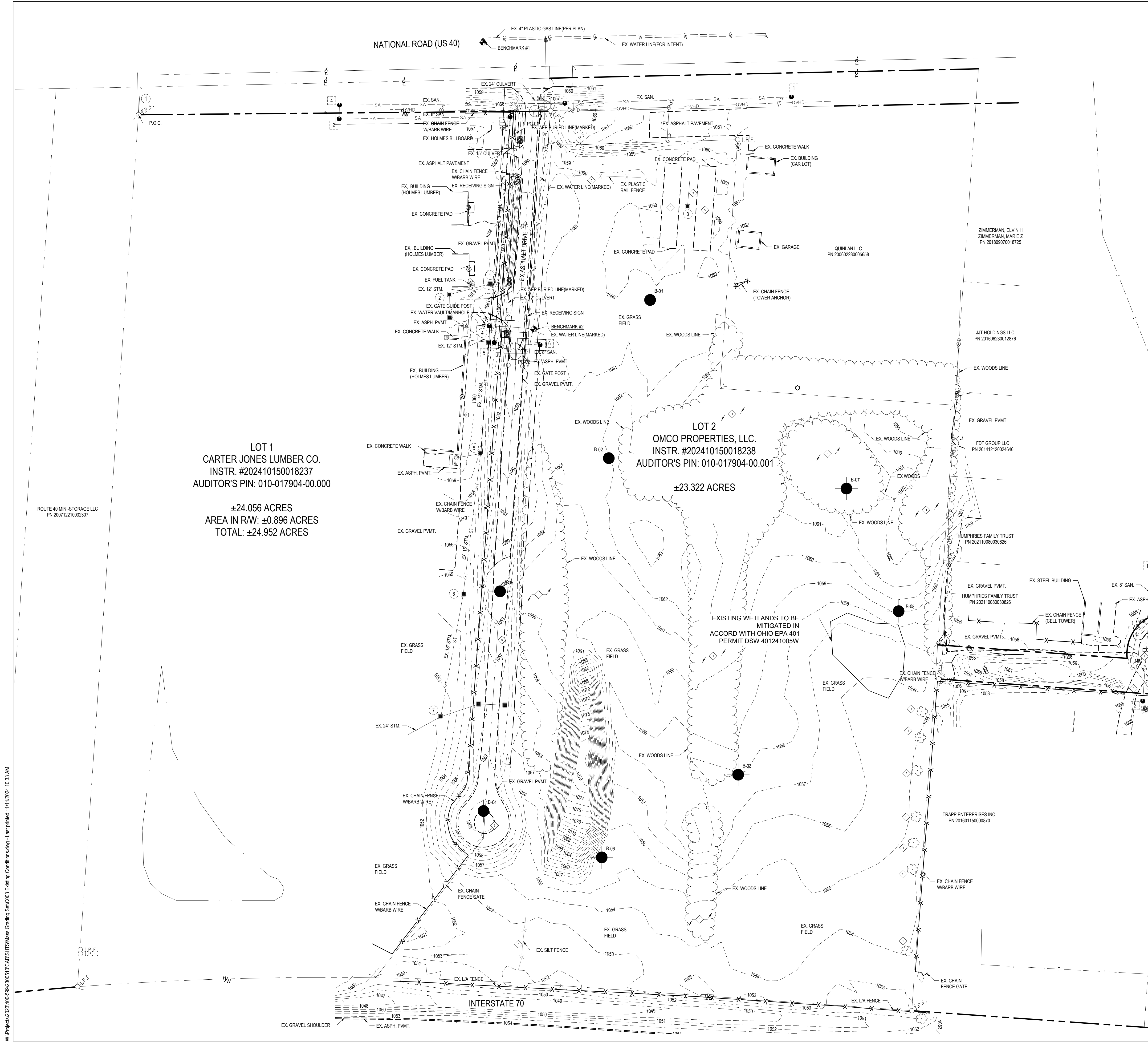
**Mannik Smith GROUP**  
www.MannikSmithGroup.com

PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

CONSTRUCTION DETAILS

C005



**LEGEND OF EXISTING CONDITIONS**

— P—	PROPERTY LINE	○	LIGHT POLE
— C—	EXISTING CENTER LINE	●	STORM MANHOLE
— R—	RIGHT-OF-WAY	○	GUY ANCHOR
— E—	EXISTING UNDERGROUND ELECTRIC LINE	●	SANITARY MANHOLE
— O—	EXISTING OVERHEAD ELECTRIC LINE	○	BOLLARD
— G—	EXISTING GAS LINE	○	WATER METER
— ST—	EXISTING STORM LINE	○	WATER VALVE
— SA—	EXISTING SANITARY LINE	○	PIPE CLEAN-OUT
— W—	EXISTING WATER LINE	○	FIRE HYDRANT
— X—	FENCE	○	HANDICAP SYMBOL
○	FENCE POST	○	SIGN
○ I.P.F.	IRON PIN FOUND	○	POWER AND LIGHT POLE
● I.P.S.	IRON PIN SET	○	DECIDUOUS TREE
●	BENCHMARK	○	EDGE OF BRUSH OR TREE LINE
●	BORE	○	P.O.B. PLACE OF BEGINNING
○ PC-XX	PAVEMENT CORE	○	REC RECORD
■	SQUARE CATCH BASIN	○	CLEARING LIMITS
		○	DEMOLITION CODED NOTE

**EXISTING STORM STRUCTURE TABLE**

1	EX. CATCH BASIN #40388 RIM 1057.05 FL 1053.90 -12" HDPE SW
2	EX. CATCH BASIN #40396 RIM 1057.79 FL 1053.44 -12" HDPE SE
3	EX. CATCH BASIN #40283 RIM 1060.07 FL 1058.33 -6" PVC N
4	EX. CATCH BASIN #40484 RIM 1058.89 FL 1052.64 -6" PVC NE FL 1052.49 -6" HDPE NW FL 1052.49 -15" HDPE S
5	EX. CATCH BASIN #40470 RIM 1058.82 FL 1051.72 -6" PVC W FL 1051.72 -15" HDPE N FL 1051.72 -15" HDPE S
6	EX. CATCH BASIN #40752 RIM 1054.62 FL 1050.62 -15" HDPE N FL 1050.62 -18" HDPE S
7	EX. CATCH BASIN #40757 RIM 1052.12 FL 1048.87 -18" HDPE N FL 1048.87 -24" HDPE S

**EXISTING SANITARY STRUCTURE TABLE**

1	EX. SAN MH #40166 RIM 1061.40 FL 1036.00 -BOTTOM ONLY, EAST-WEST
2	EX. SAN MH #40016 RIM 1059.06 FL 1035.26 -BOTTOM ONLY, EAST-WEST
3	EX. SAN MH #40071 RIM 1058.66 FL 1045.42 -8" PVC S FL 1045.42 -8" PVC W
4	EX. SAN MH #40028 RIM 1054.24 FL 1034.44 -BOTTOM ONLY, EAST-WEST FL 1042.57 -8" PVC S
5	EX. SAN MH #40489 RIM 1061.65 FL 1046.80 -8" PVC N FL 1046.80 -8" PVC E
6	EX. SAN MH #40423 RIM 1061.88 FL 1047.28 -8" PVC W

**BENCHMARKS**

- BENCHMARK #1 SET ARROW SYMBOL ON HYDRANT ELEVATION = 1054.94'
- BENCHMARK #2 SET ARROW SYMBOL ON HYDRANT ELEVATION = 1064.02'

- GENERAL NOTES:**
- EXISTING CONDITIONS SHOWN PER TOPOGRAPHIC SURVEYS PERFORMED BY THE MANNIK & SMITH GROUP, INC. DATED AUGUST 31, 2023; MARCH 7, 2024.
  - PARCEL BOUNDARY IS PER BOUNDARY SURVEY PREPARED BY THE MANNIK & SMITH GROUP, INC. DATED AUGUST 31, 2023; SEPTEMBER 5, 2023; AND MARCH 5, 2024.
  - CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER.
  - CONTRACTOR TO SUPPORT AND PROTECT EXISTING UTILITIES THROUGHOUT DURATION OF CONTRACT. ALL UTILITIES ARE TO REMAIN ACTIVE.
  - CONTRACTOR SHALL USE CAUTION WHILE WORKING NEAR EXISTING UNDERGROUND UTILITIES.
  - CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY ONSITE AND OFF SITE ITEMS DAMAGED DURING CONSTRUCTION IN THE SAME OR BETTER CONDITION THAN THEY WERE PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL NOT ACCESS ANY OF THE SURROUNDING PARCELS FOR ANY REASON WITHOUT EXPRESSED WRITTEN CONSENT FROM THE PROPERTY OWNER.
  - CONTRACTOR IS RESPONSIBLE FOR RESETTING ANY BENCHMARKS THAT ARE DEMOLISHED OR DESTROYED.

- CODED NOTES:**
- CONTRACTOR SHALL REMOVE ALL EXISTING TREES/SHRUBS AND ROOTS WITHIN CLEARING LIMITS.
  - CONTRACTOR SHALL REMOVE EXISTING STORM SEWER PIPE AND CATCH BASIN. CONTRACTOR SHALL VERIFY STORM ROUTING PRIOR TO START OF WORK.
  - CONTRACTOR SHALL REMOVE EXISTING FENCE.
  - CONTRACTOR SHALL RELOCATE EXISTING MAILBOX OUT OF PAVEMENT.
  - CONTRACTOR SHALL REMOVE EXISTING CONCRETE PAD.
  - CONTRACTOR SHALL CUT BACK GRAVEL DRIVEWAY TO PROPERTY LINE.

**LOT 1**  
CARTER JONES LUMBER CO.  
INSTR. #202410150018237  
AUDITOR'S PIN: 010-017904-00.000

±24.056 ACRES  
AREA IN RW: ±0.896 ACRES  
TOTAL: ±24.952 ACRES

**LOT 2**  
OMCO PROPERTIES, LLC.  
INSTR. #202410150018238  
AUDITOR'S PIN: 010-017904-00.001

±23.322 ACRES

EXISTING WETLANDS TO BE MITIGATED IN ACCORD WITH OHIO EPA 401 PERMIT DSW 401241005W

DESCRIPTION	CONSTRUCTION SUBMITTAL	CONSTRUCTION SUBMITTAL
NO.	1	2
DATE	20240813 JAN	20241111 JAN
BY		

11/11/24

20600 CHAGRIN BLVD  
SUITE 300, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.376.1490  
FAX: 216.376.1497

PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300510  
DRAWN BY: JMM  
CHECKED BY: MAS

**TECHNICAL SKILL  
CREATING SPIRIT.**

**Mannik  
Smith  
Group**  
www.MannikSmithGroup.com

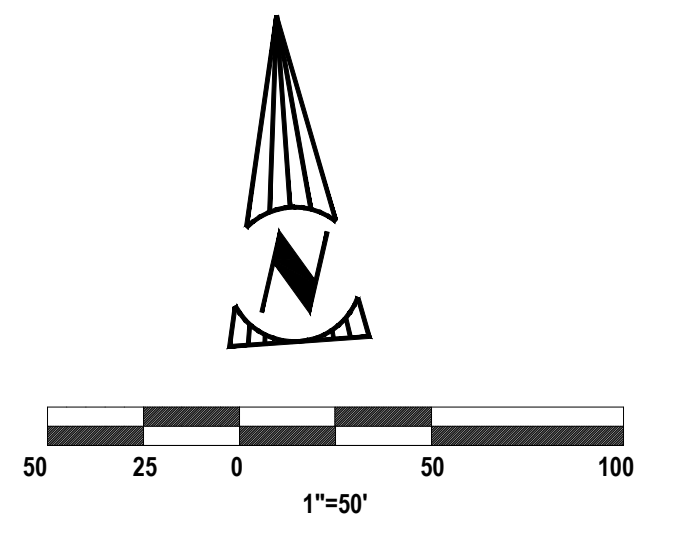
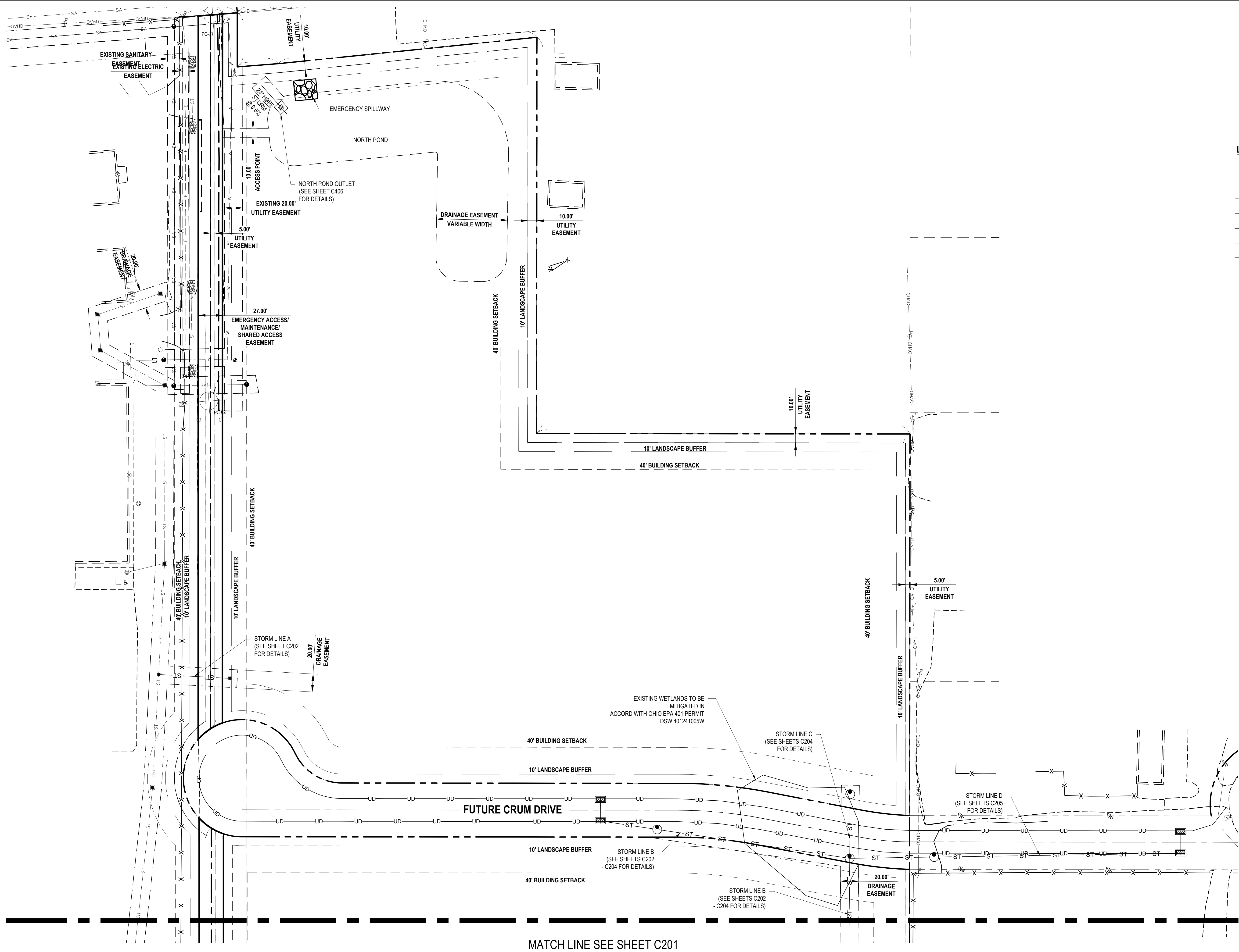
PREPARED FOR:  
OMCO BUILDING, LLC  
3963 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

**CARTER POINT -  
MASS GRADING PLAN  
AND DEMOLITION PLAN**  
ETNA TWP., OH

**EXISTING CONDITIONS  
AND DEMOLITION PLAN**

C100

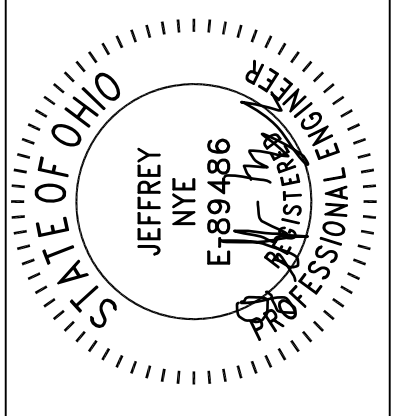
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**LEGEND**

(Symbol)	SIGN
--- SA ---	EXISTING SANITARY SEWER MAIN
--- W ---	EXISTING WATER MAIN
--- ST ---	EXISTING STORM SEWER MAIN
--- ST ---	STORM SEWER MAIN
--- E ---	EXISTING UNDERGROUND ELECTRIC
--- UD ---	UNDERDRAINS
(Symbol)	STORM CATCHBASIN ODOT TYPE 2-2
(Symbol)	STORM CATCHBASIN ODOT TYPE 3-A
(Symbol)	STORM/SANITARY MANHOLE

NO.	DATE	BY	DESCRIPTION
1	20240813	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.376.1490  
 FAX: 216.376.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300510  
 DRAWN BY: JMN  
 CHECKED BY: MAS



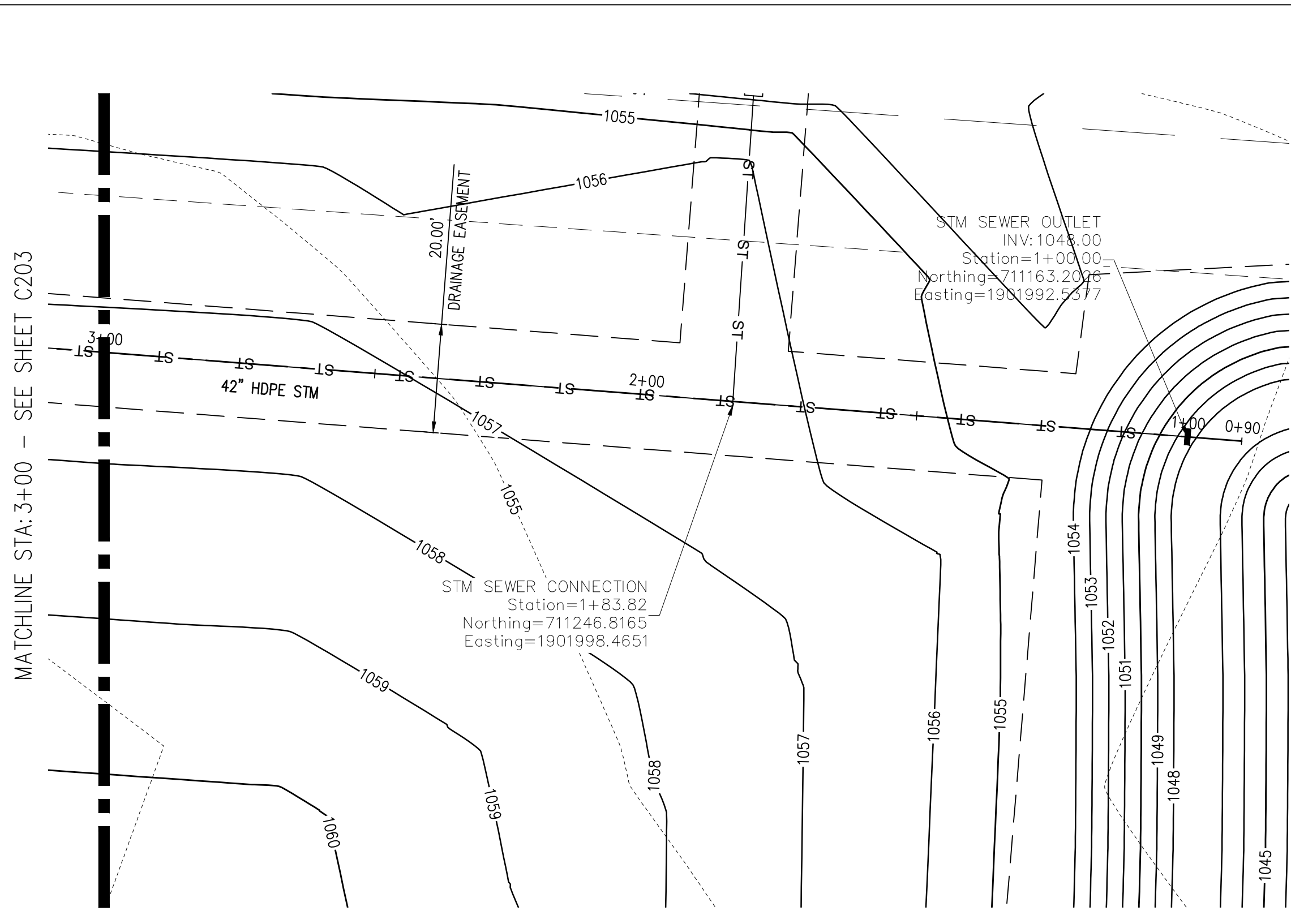
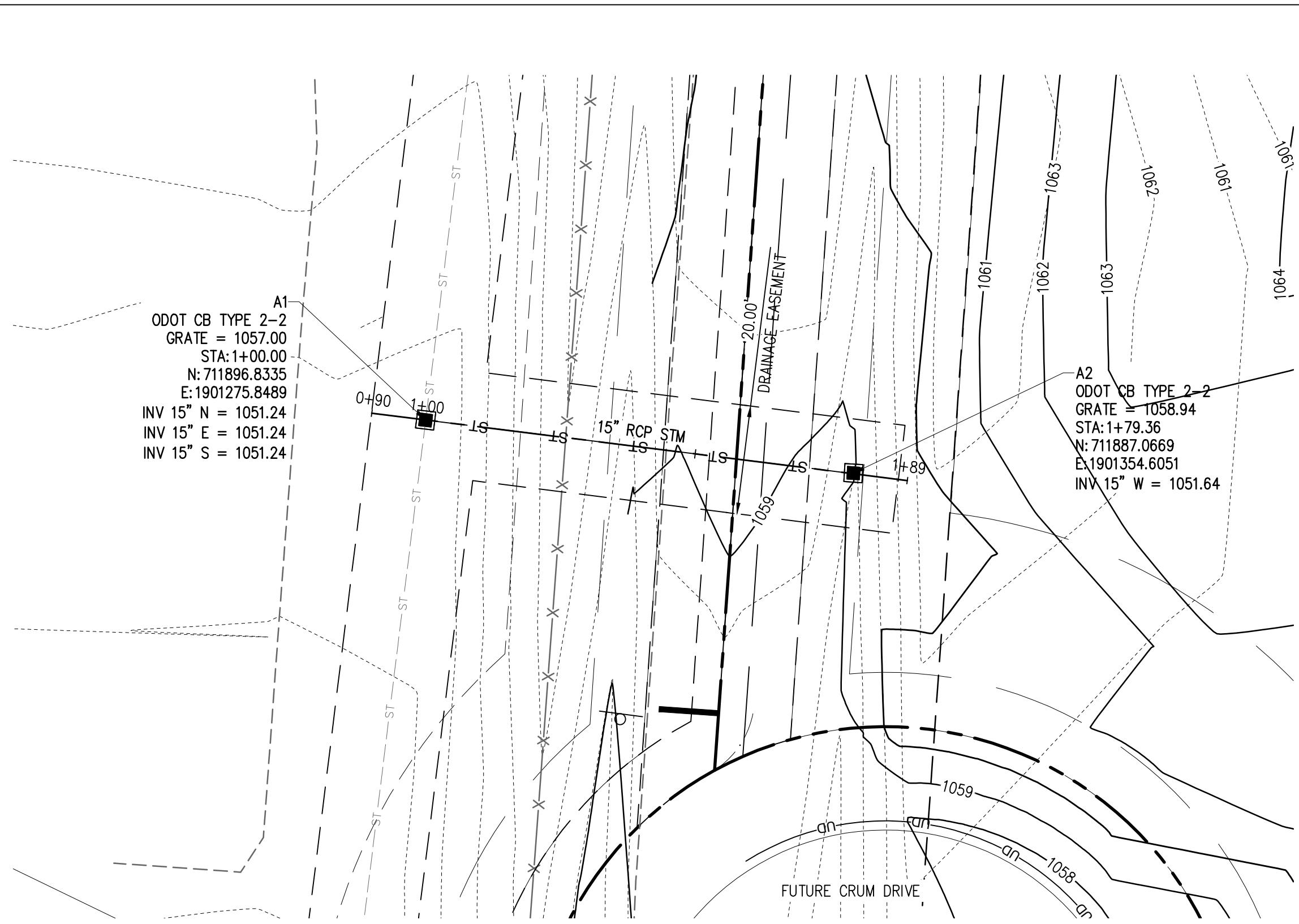
PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

UTILITY PLAN

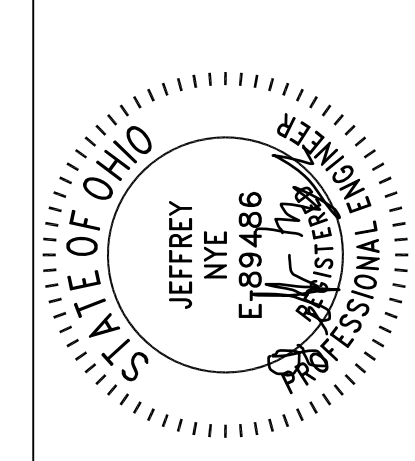
C200





- LEGEND**
- SIGN
  - SA --- EXISTING SANITARY SEWER MAIN
  - W --- EXISTING WATER MAIN
  - ST --- EXISTING STORM SEWER MAIN
  - ST — STORM SEWER MAIN
  - E --- EXISTING UNDERGROUND ELECTRIC
  - UD — UNDERDRAINS
  - STORM CATCHBASIN ODOT TYPE 2-2
  - STORM CATCHBASIN ODOT TYPE 3-A
  - STORM/SANITARY MANHOLE

NO.	DATE	BY	DESCRIPTION
1	2/24/24	JMN	CONSTRUCTION SUBMITTAL
2	2/24/24	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

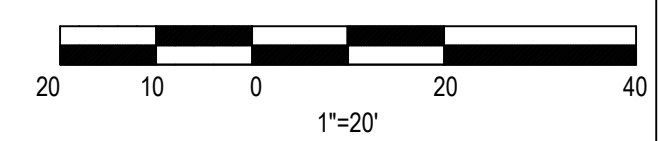
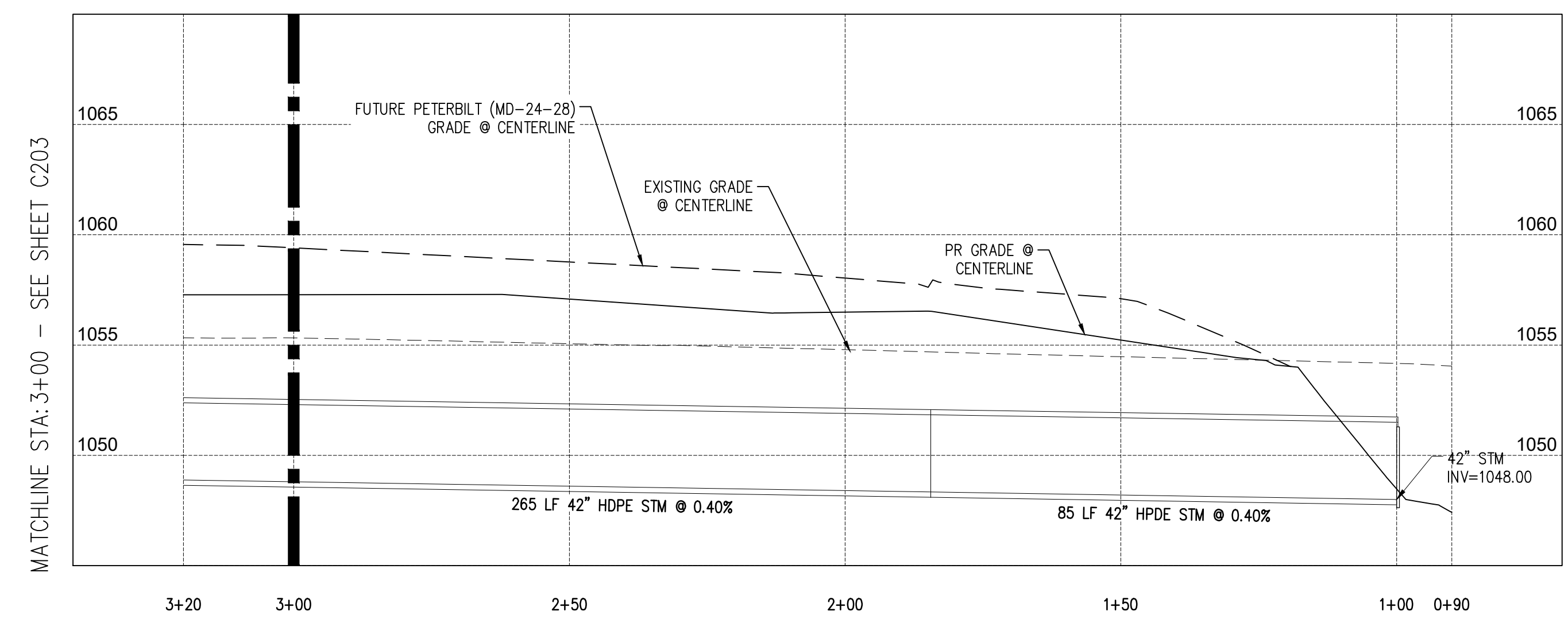
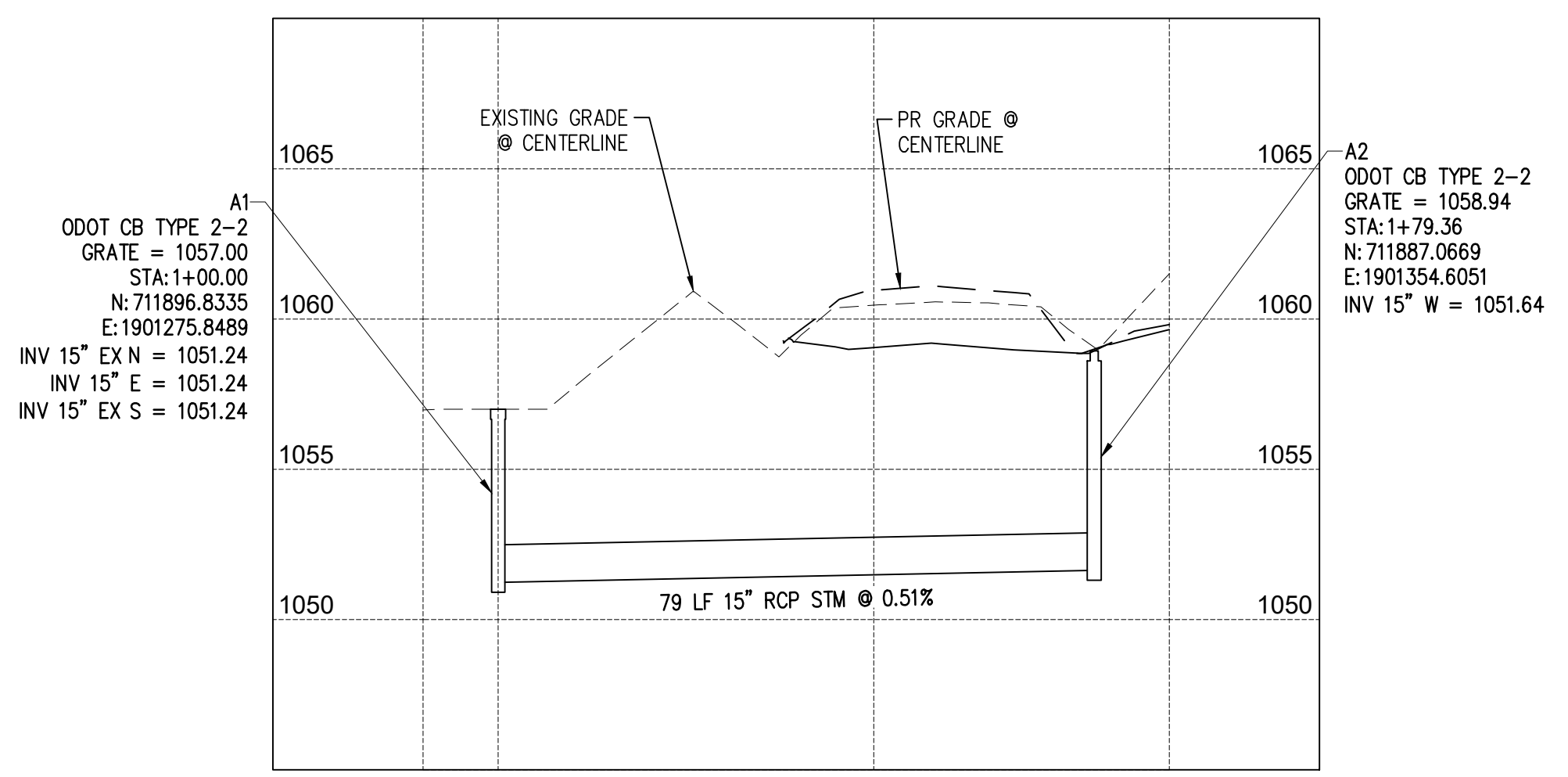


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

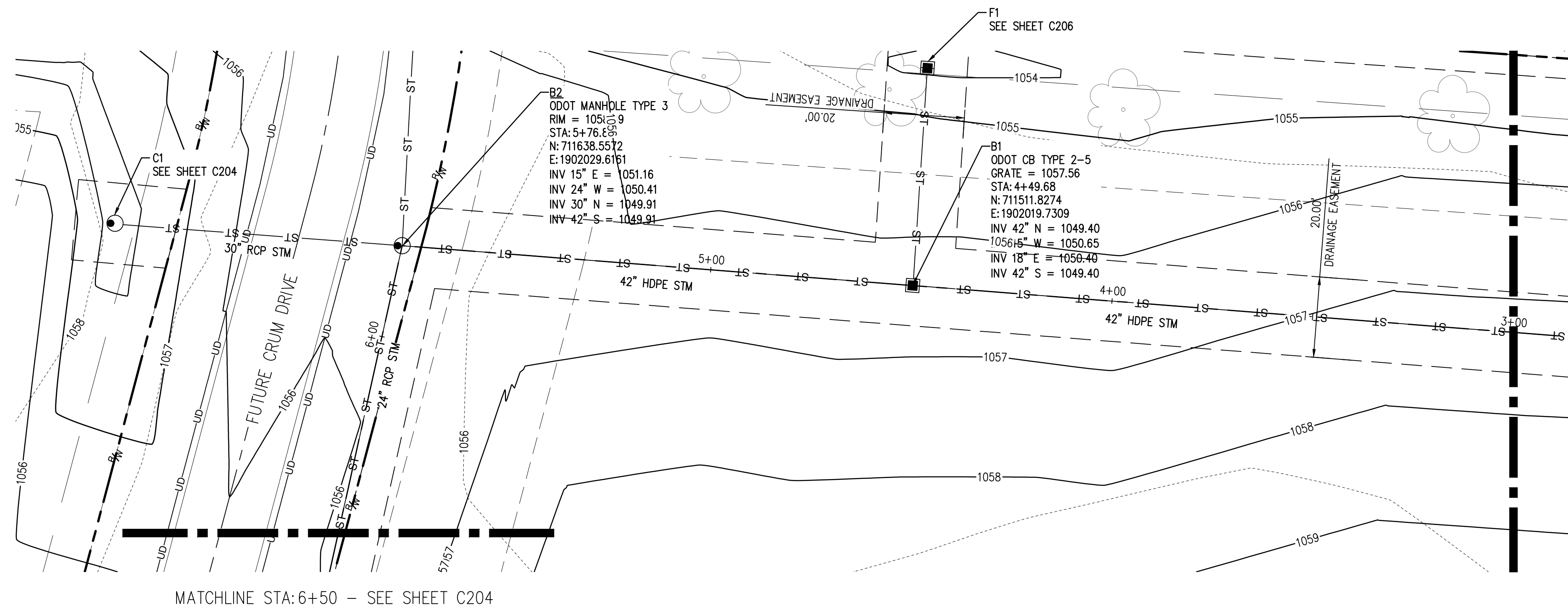
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

STORM PLAN &  
PROFILE

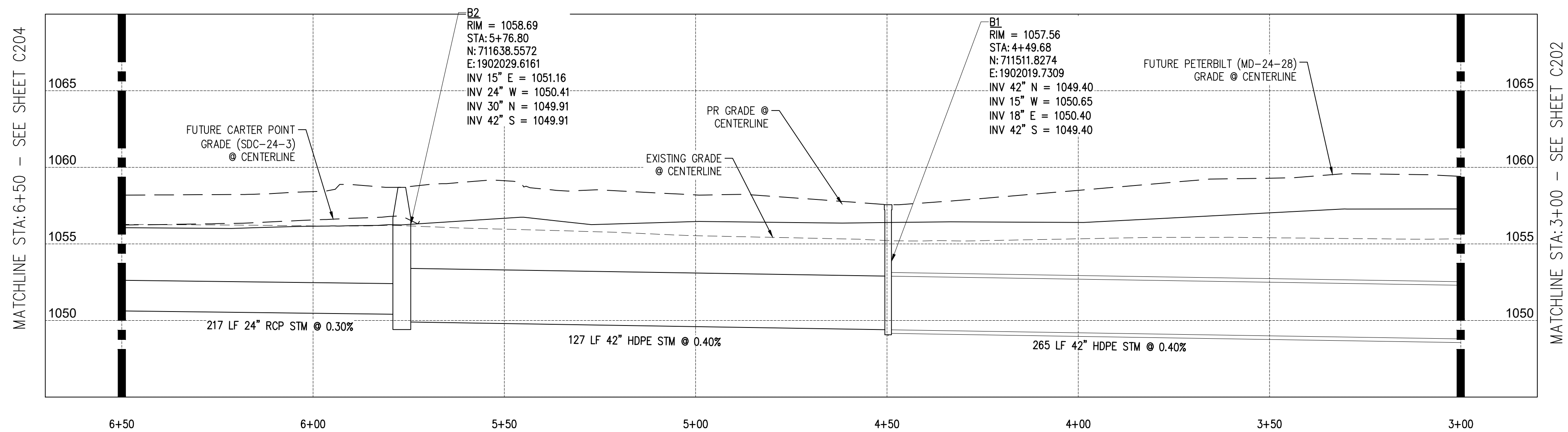
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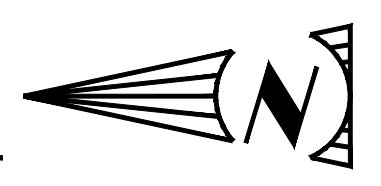


**STORM LINE B PLAN**  
SCALE: 1"=20'

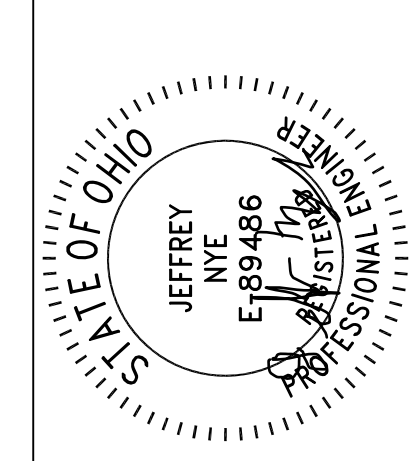


**STORM LINE B PROFILE**  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

- LEGEND**
- SIGN
  - EXISTING SANITARY SEWER MAIN
  - EXISTING WATER MAIN
  - EXISTING STORM SEWER MAIN
  - STORM SEWER MAIN
  - EXISTING UNDERGROUND ELECTRIC
  - UNDERDRAINS
  - STORM CATCHBASIN ODOT TYPE 2-2
  - STORM CATCHBASIN ODOT TYPE 3-A
  - STORM/SANITARY MANHOLE



NO.	DATE	BY	DESCRIPTION
1	2024/03	JMN	CONSTRUCTION SUBMITTAL
2	2024/11	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

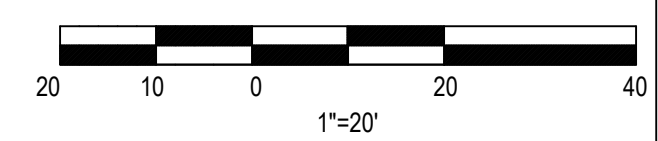


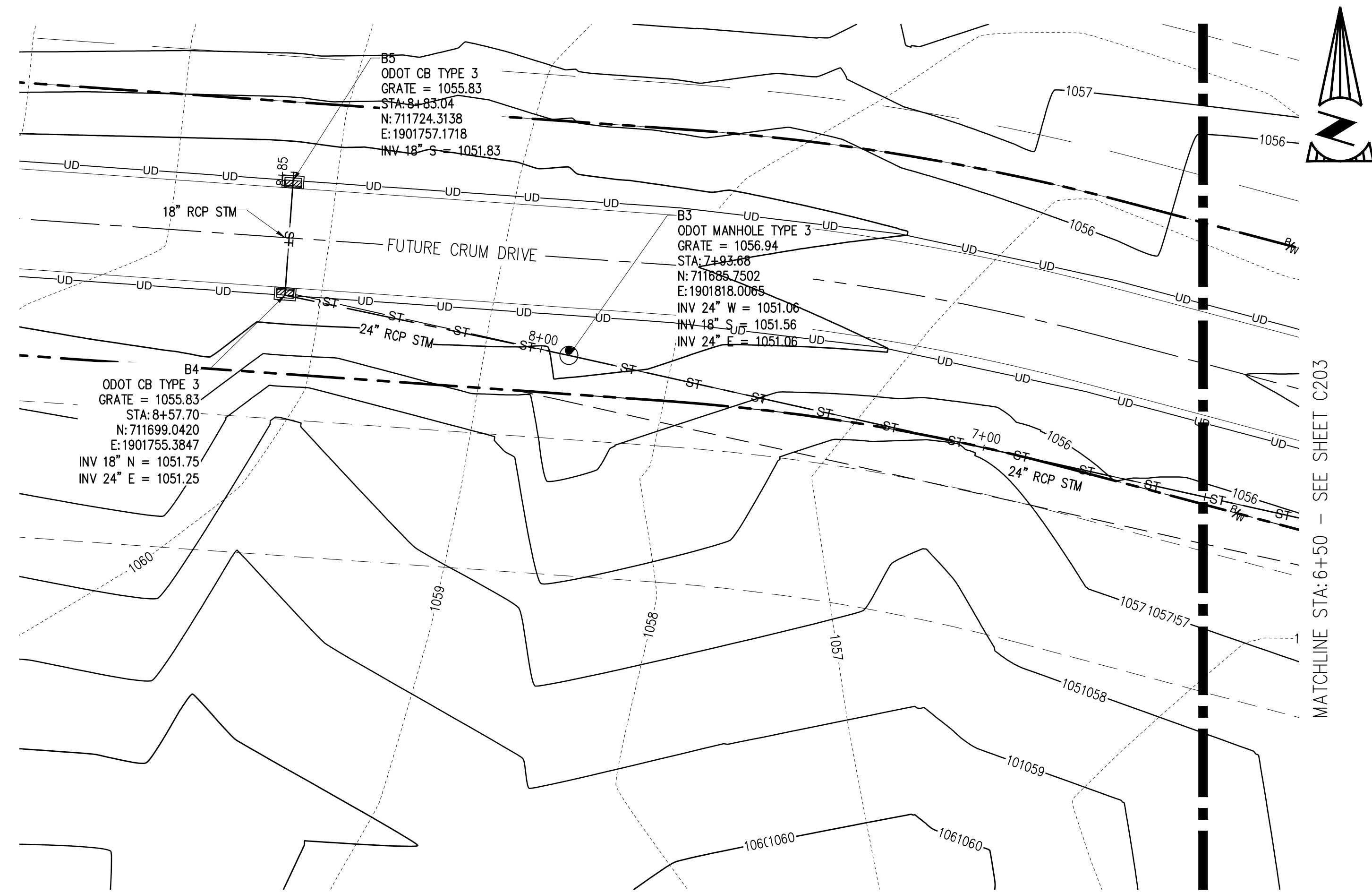
PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

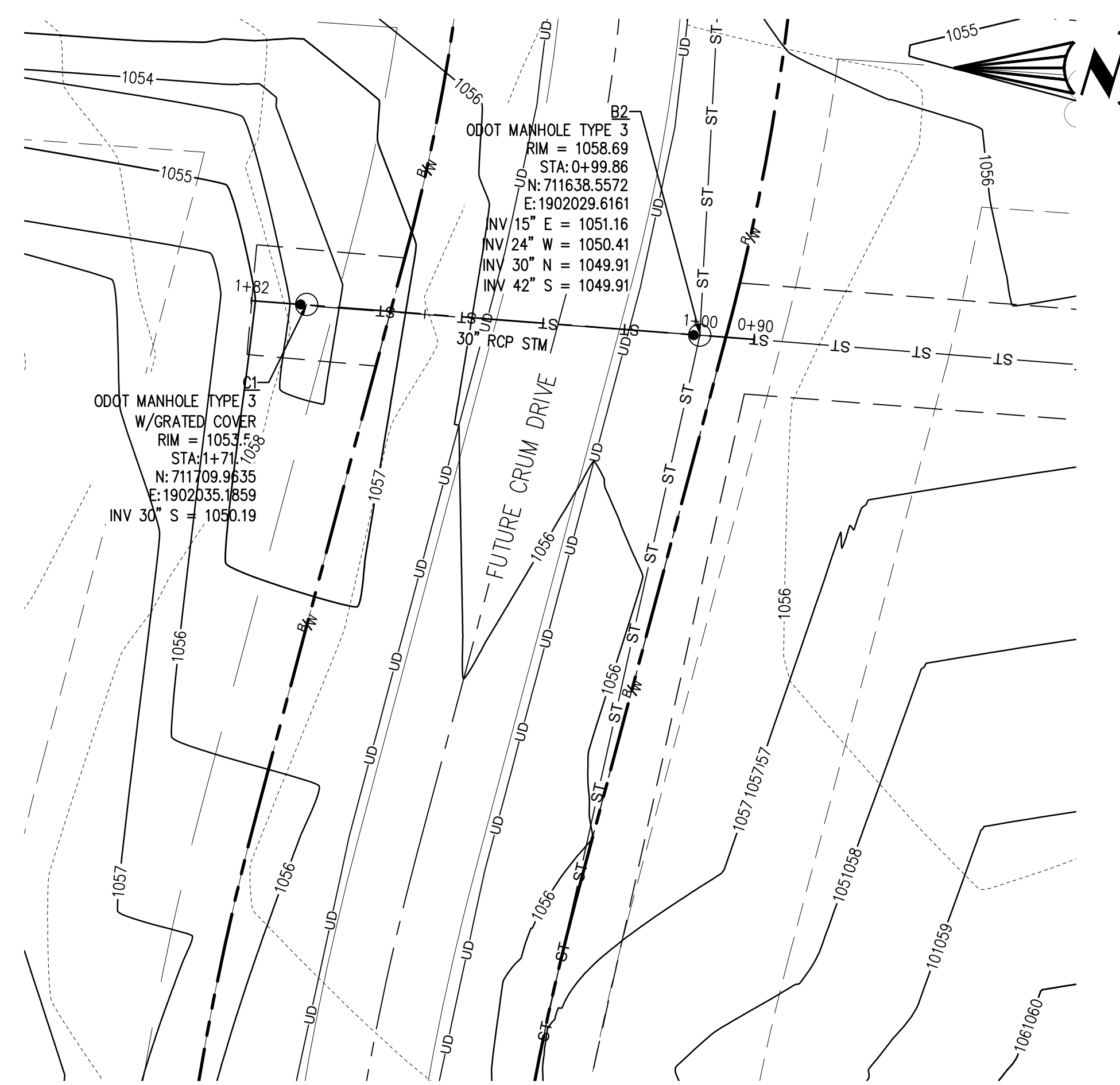
STORM PLAN &  
PROFILE

C203





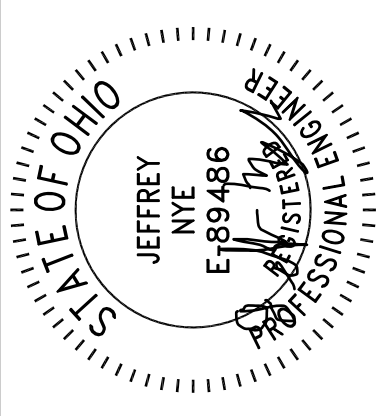
STORM LINE B PLAN  
SCALE: 1"=20'



STORM LINE C PLAN  
SCALE: 1"=20'

- LEGEND**
- SIGN
  - SA --- EXISTING SANITARY SEWER MAIN
  - W --- EXISTING WATER MAIN
  - ST --- EXISTING STORM SEWER MAIN
  - ST — STORM SEWER MAIN
  - E --- EXISTING UNDERGROUND ELECTRIC
  - UD — UNDERDRAINS
  - STORM CATCHBASIN ODOT TYPE 2-2
  - STORM CATCHBASIN ODOT TYPE 3-A
  - STORM/SANITARY MANHOLE

NO.	DATE	BY	DESCRIPTION
1	1/20/24	JMIN	CONSTRUCTION SUBMITTAL
2	1/20/24	JMIN	CONSTRUCTION SUBMITTAL



11/11/24  
20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMIN  
CHECKED BY: MAS

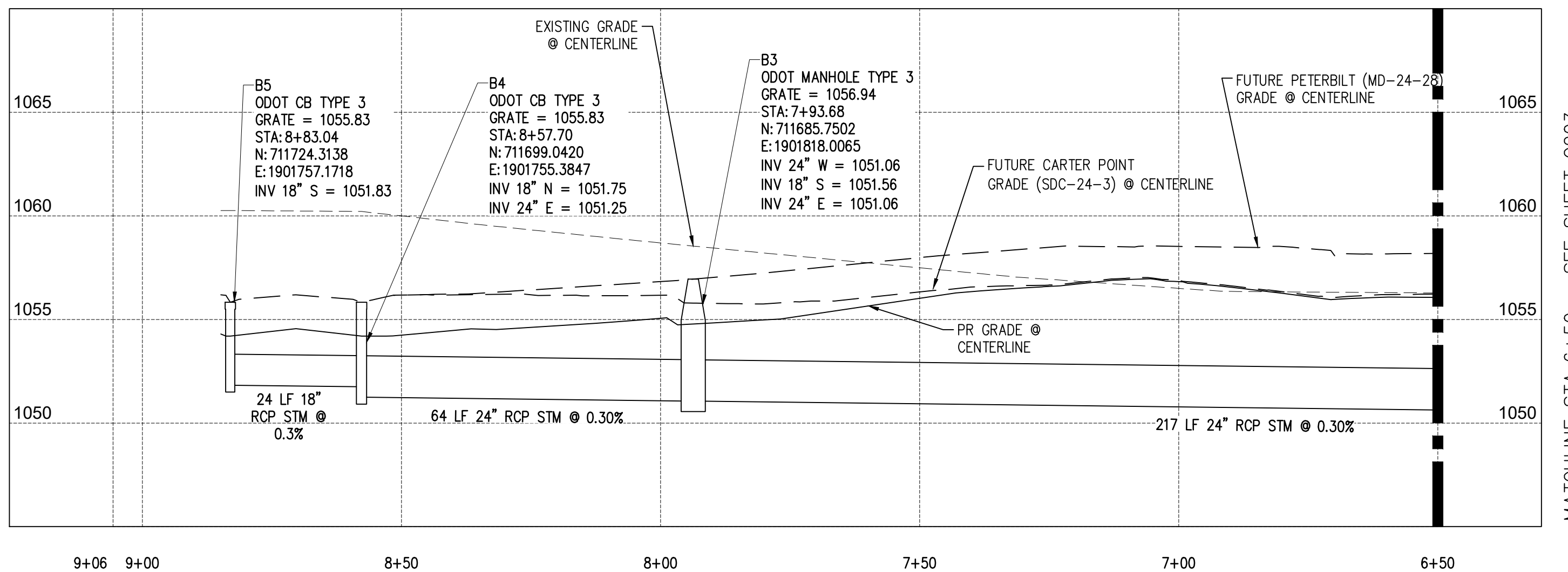


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

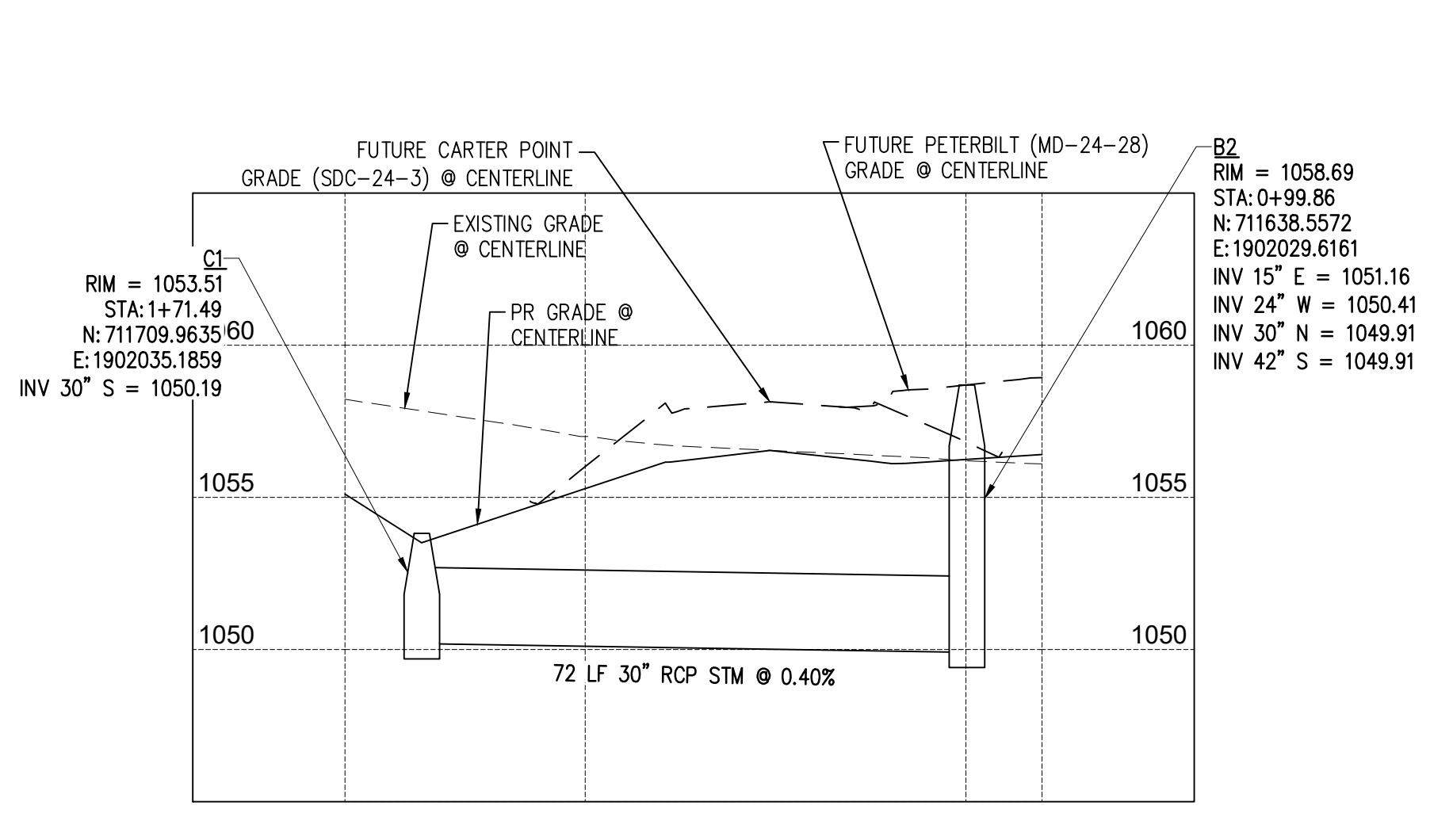
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

STORM PLAN &  
PROFILE

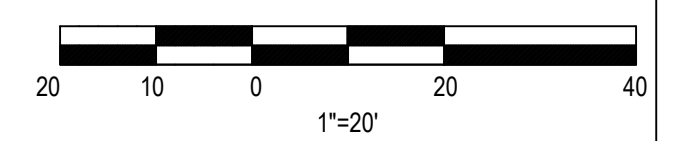
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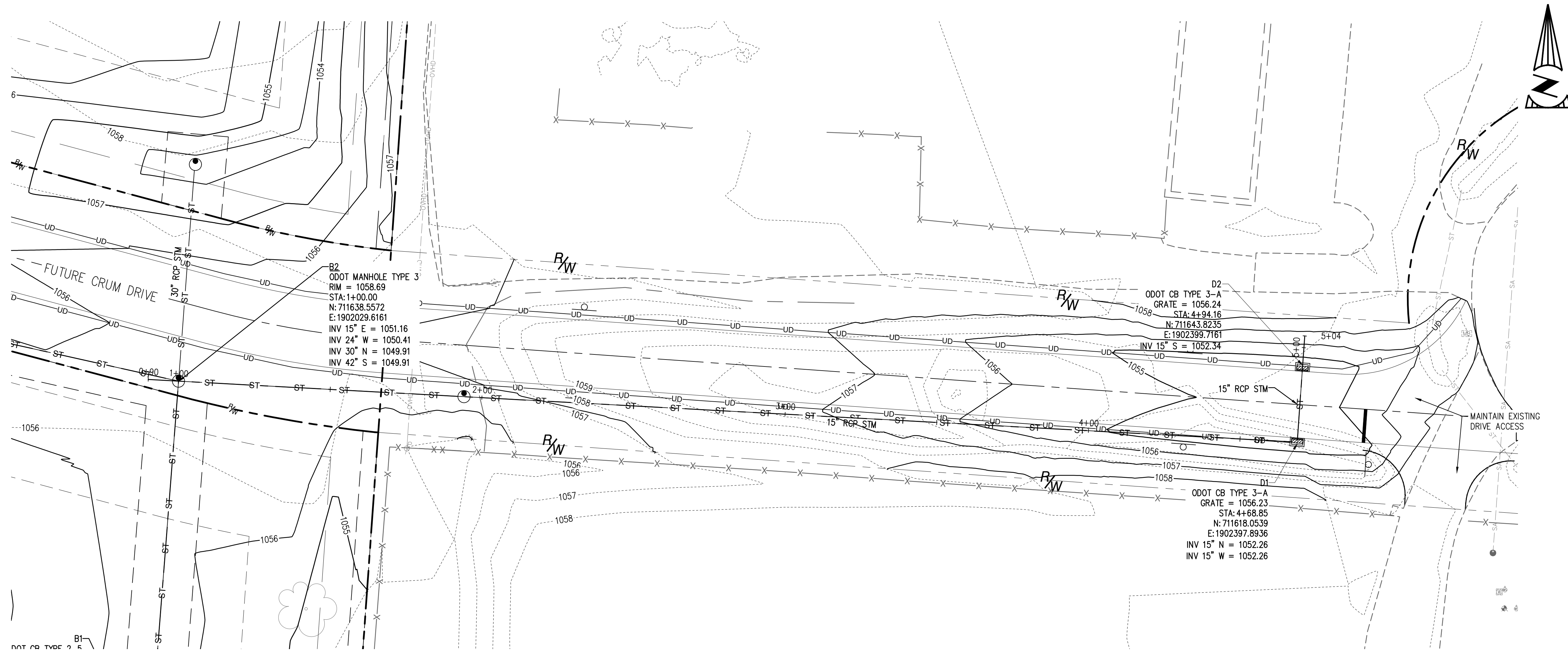
STORM LINE B PROFILE  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'



STORM LINE C PROFILE  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'



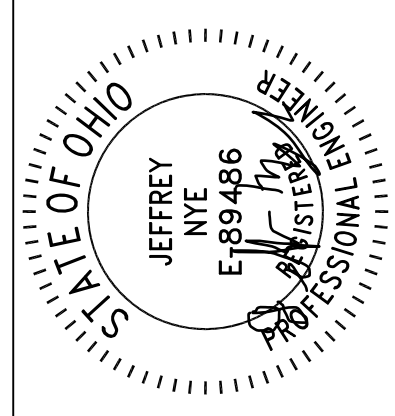
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- LEGEND**
- SIGN
  - SA --- EXISTING SANITARY SEWER MAIN
  - W --- EXISTING WATER MAIN
  - ST --- EXISTING STORM SEWER MAIN
  - ST — STORM SEWER MAIN
  - E --- EXISTING UNDERGROUND ELECTRIC
  - UD — UNDERDRAINS
  - STORM CATCHBASIN ODOT TYPE 2-2
  - STORM CATCHBASIN ODOT TYPE 3-A
  - STORM/SANITARY MANHOLE

- GENERAL NOTES:**
1. MAINTAIN ACCESS TO ADJOINING PARCELS AT ALL TIMES.

NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

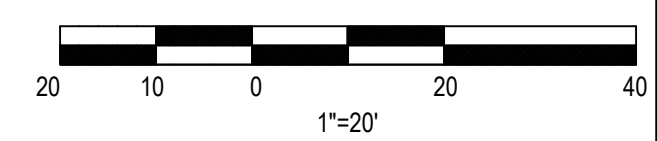
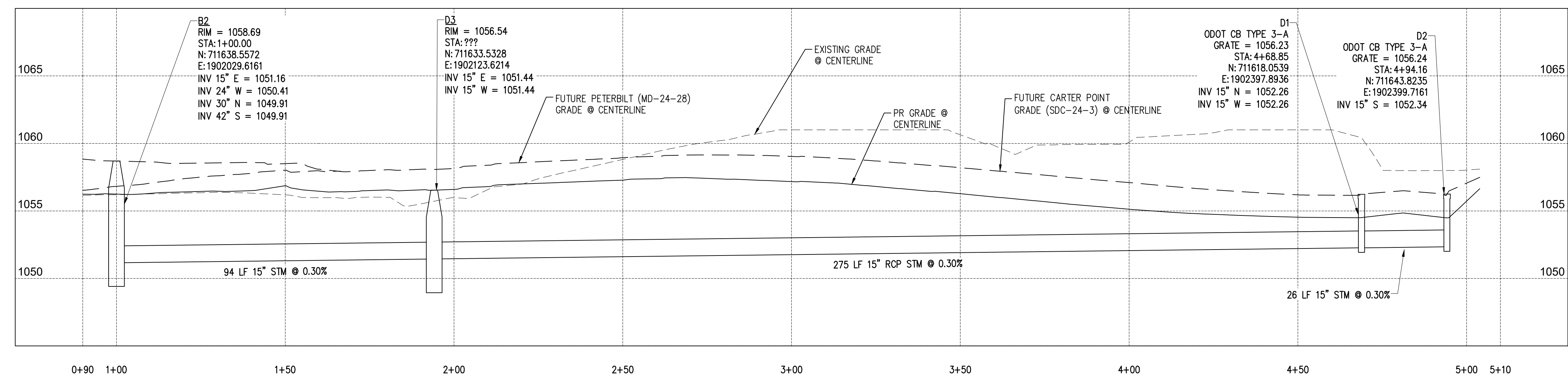


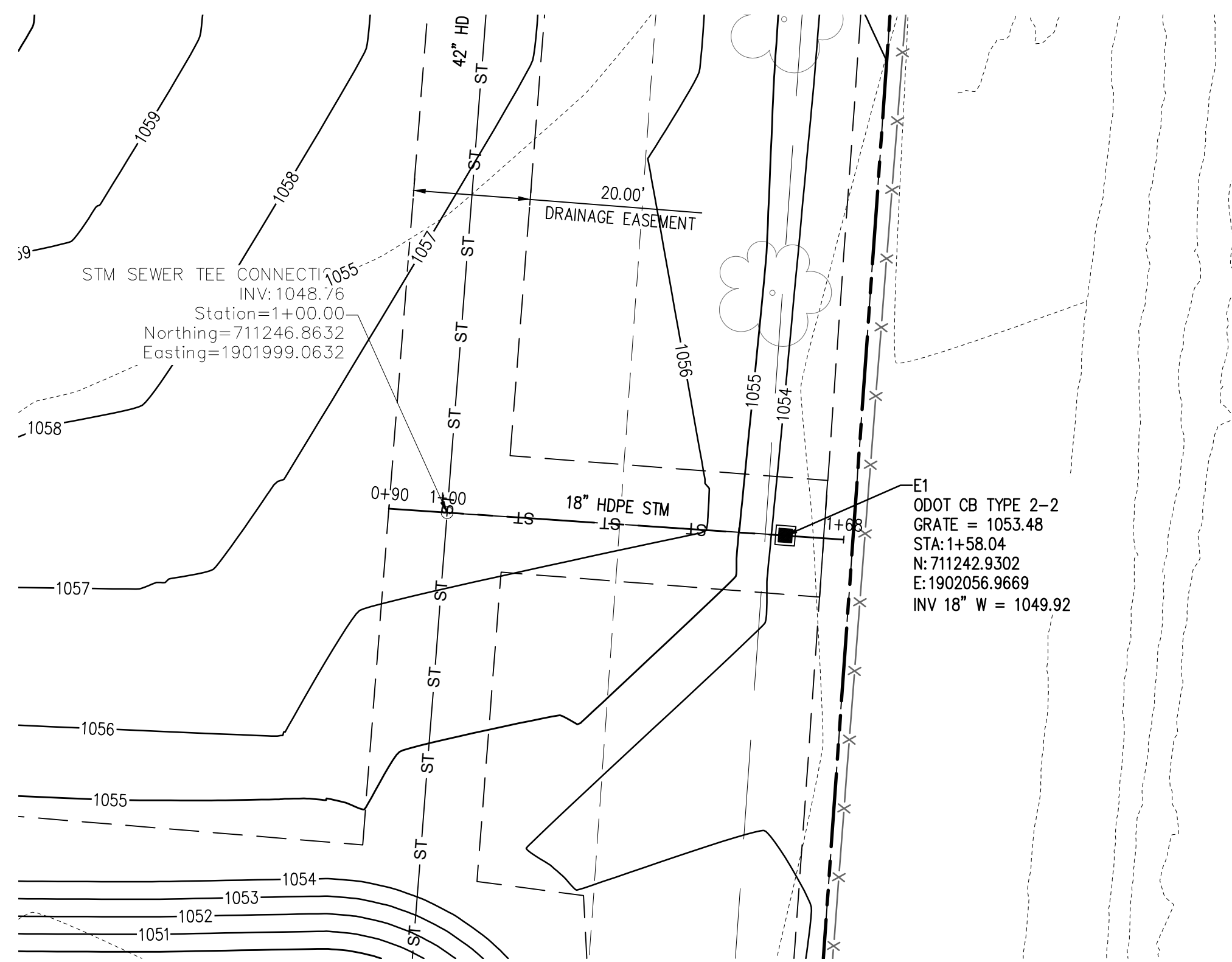
PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

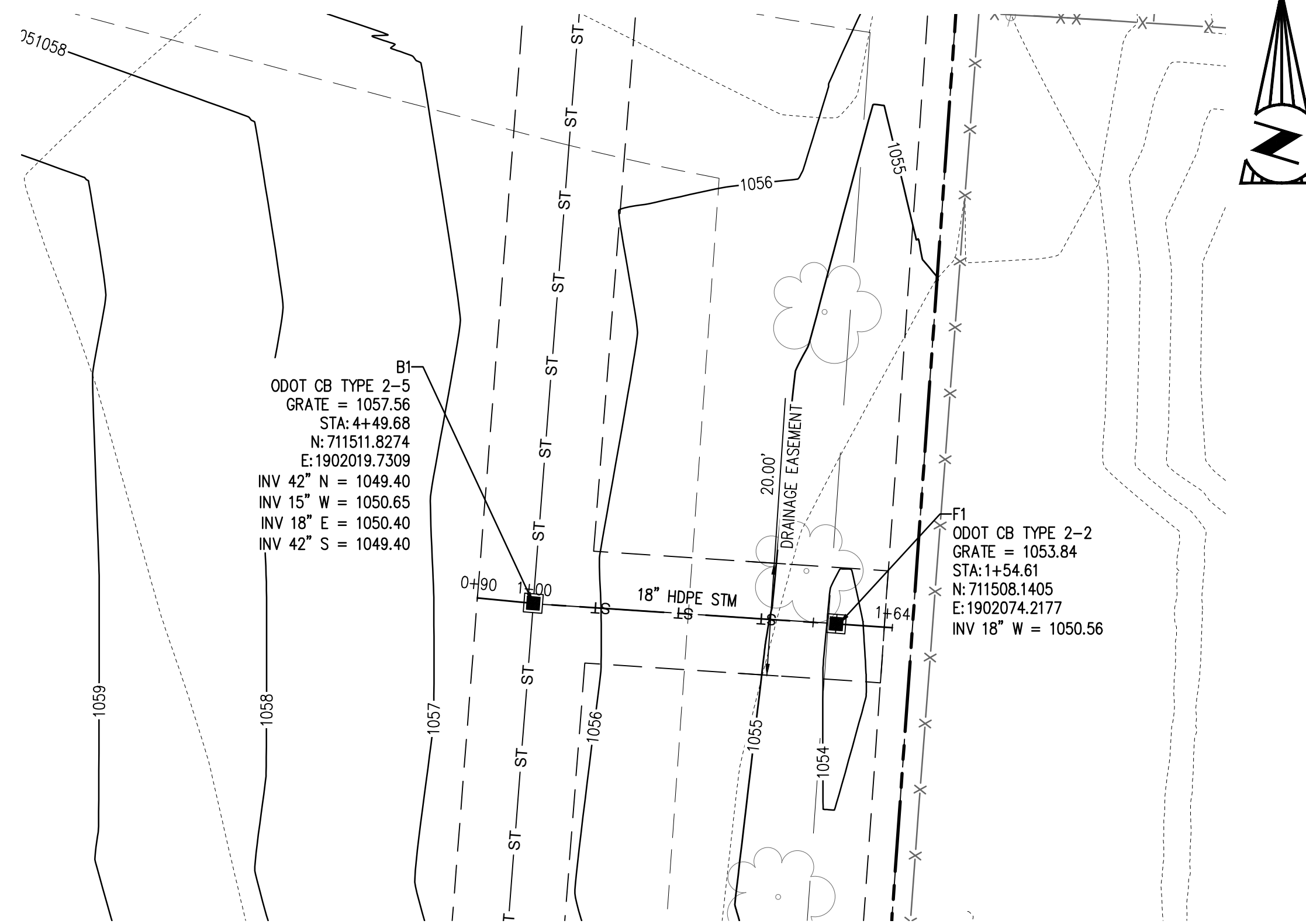
STORM PLAN &  
PROFILE

C205



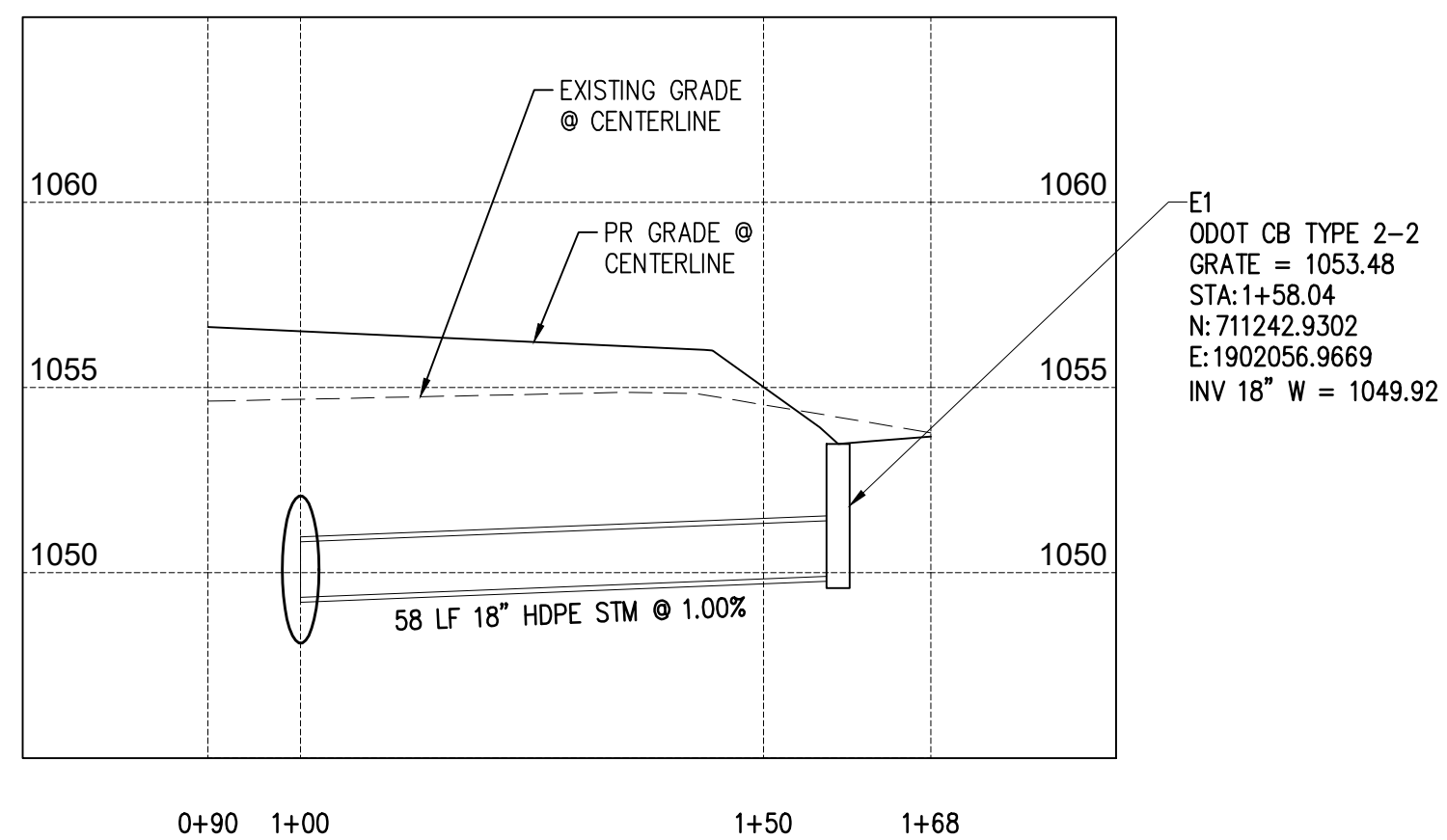


STORM LINE E PLAN  
SCALE: 1"=20'

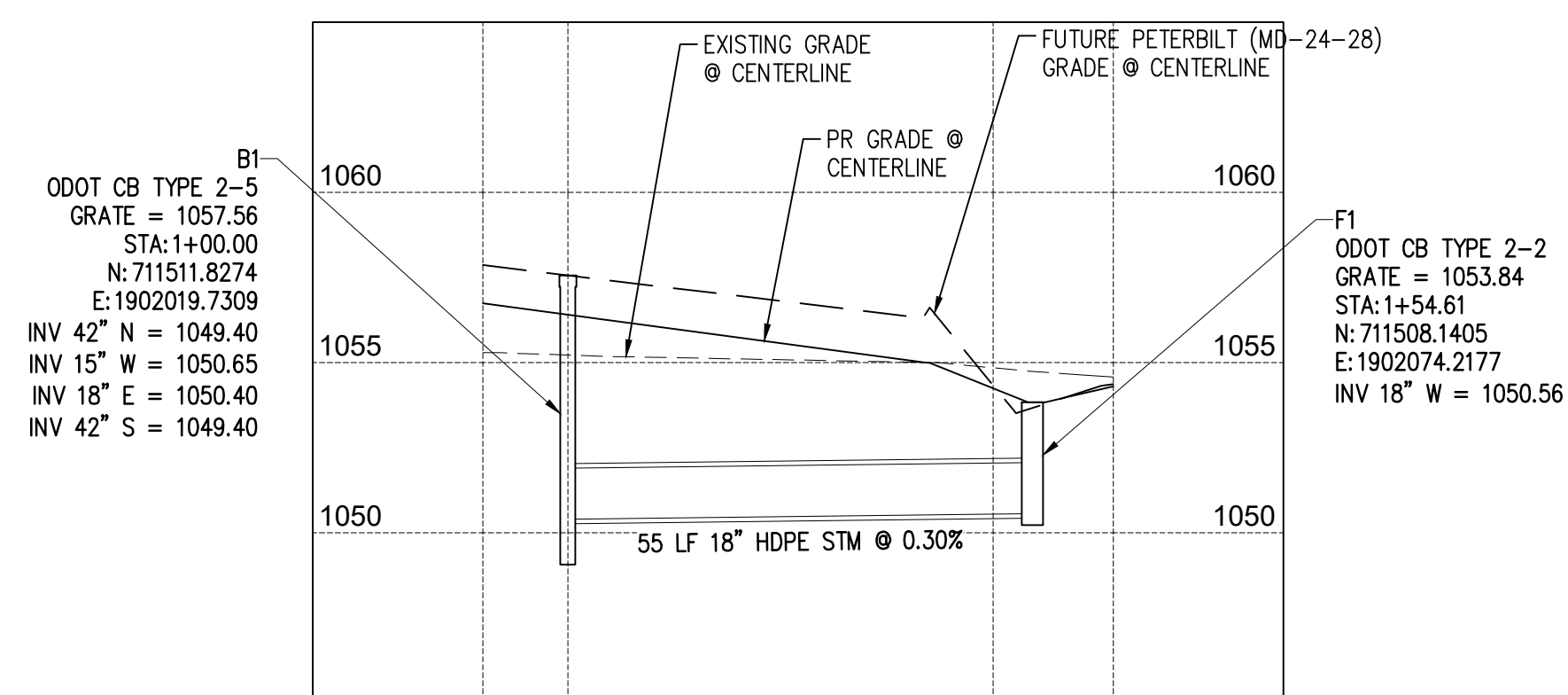


STORM LINE F PLAN  
SCALE: 1"=20'

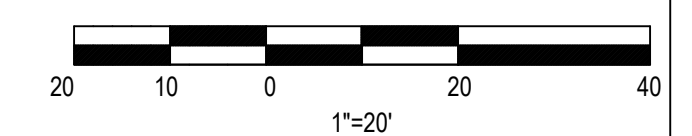
- LEGEND**
- SIGN
  - SA --- EXISTING SANITARY SEWER MAIN
  - W --- EXISTING WATER MAIN
  - ST --- EXISTING STORM SEWER MAIN
  - ST — STORM SEWER MAIN
  - E --- EXISTING UNDERGROUND ELECTRIC
  - UD — UNDERDRAINS
  - STORM CATCHBASIN ODOT TYPE 2-2
  - STORM CATCHBASIN ODOT TYPE 3-A
  - STORM/SANITARY MANHOLE



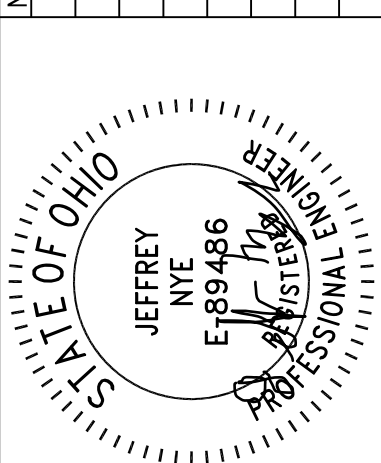
STORM LINE E PROFILE  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'



STORM LINE F PROFILE  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'



NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024

PROJ NO.: 2300610

DRAWN BY: JMN

CHECKED BY: MAS

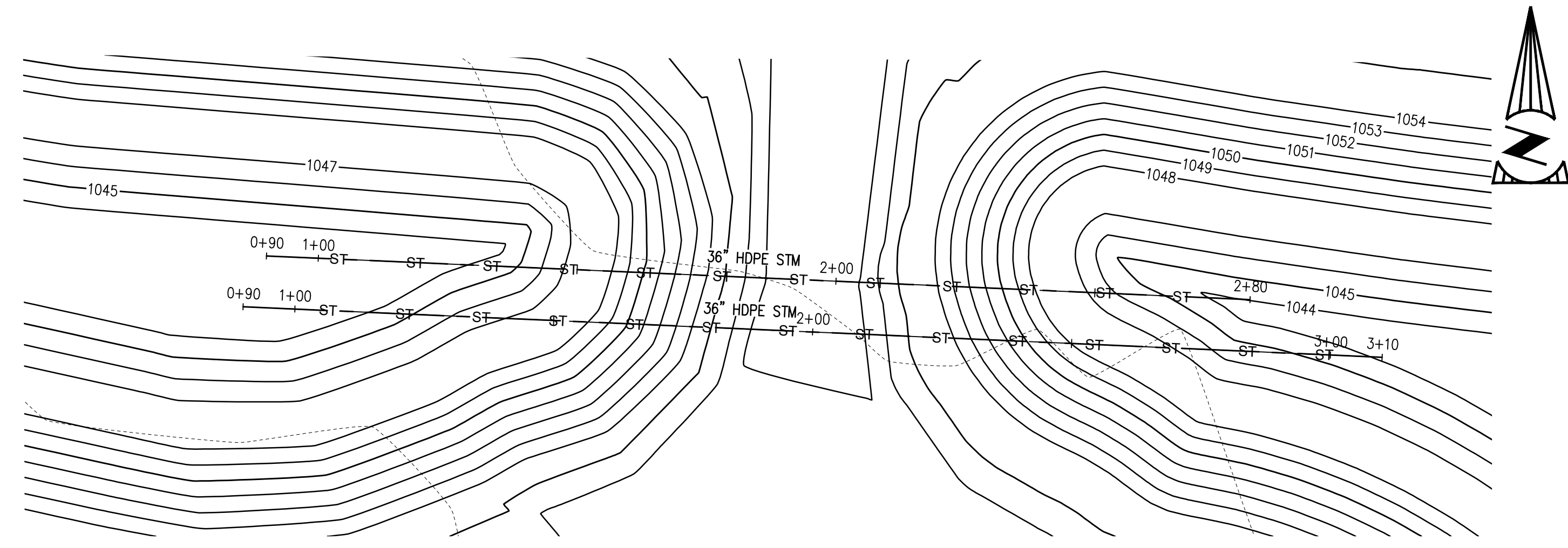


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

STORM PLAN &  
PROFILE

C206

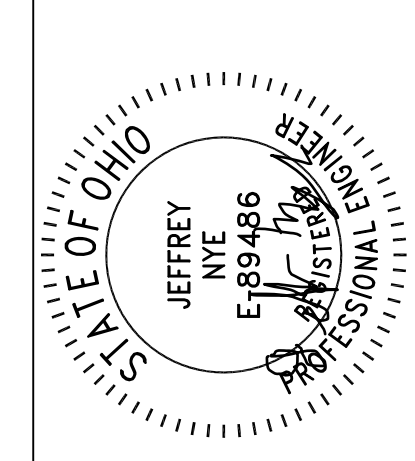


**SOUTH POND CULVERTS PLAN**  
SCALE = 1"=20'

**LEGEND**

- SIGN
- SA --- EXISTING SANITARY SEWER MAIN
- W --- EXISTING WATER MAIN
- ST --- EXISTING STORM SEWER MAIN
- ST — STORM SEWER MAIN
- E --- EXISTING UNDERGROUND ELECTRIC
- UD — UNDERDRAINS
- STORM CATCHBASIN ODOT TYPE 2-2
- STORM CATCHBASIN ODOT TYPE 3-A
- STORM/SANITARY MANHOLE

NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

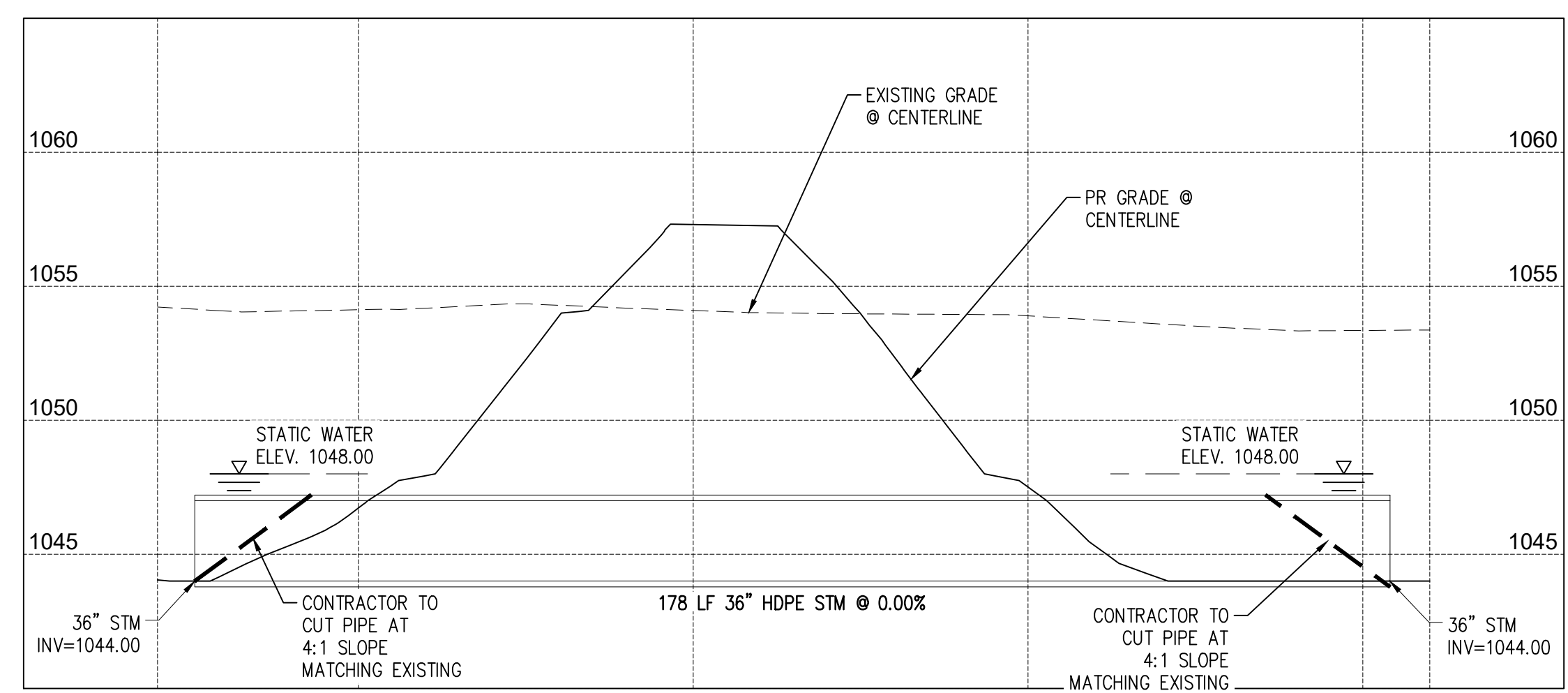


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

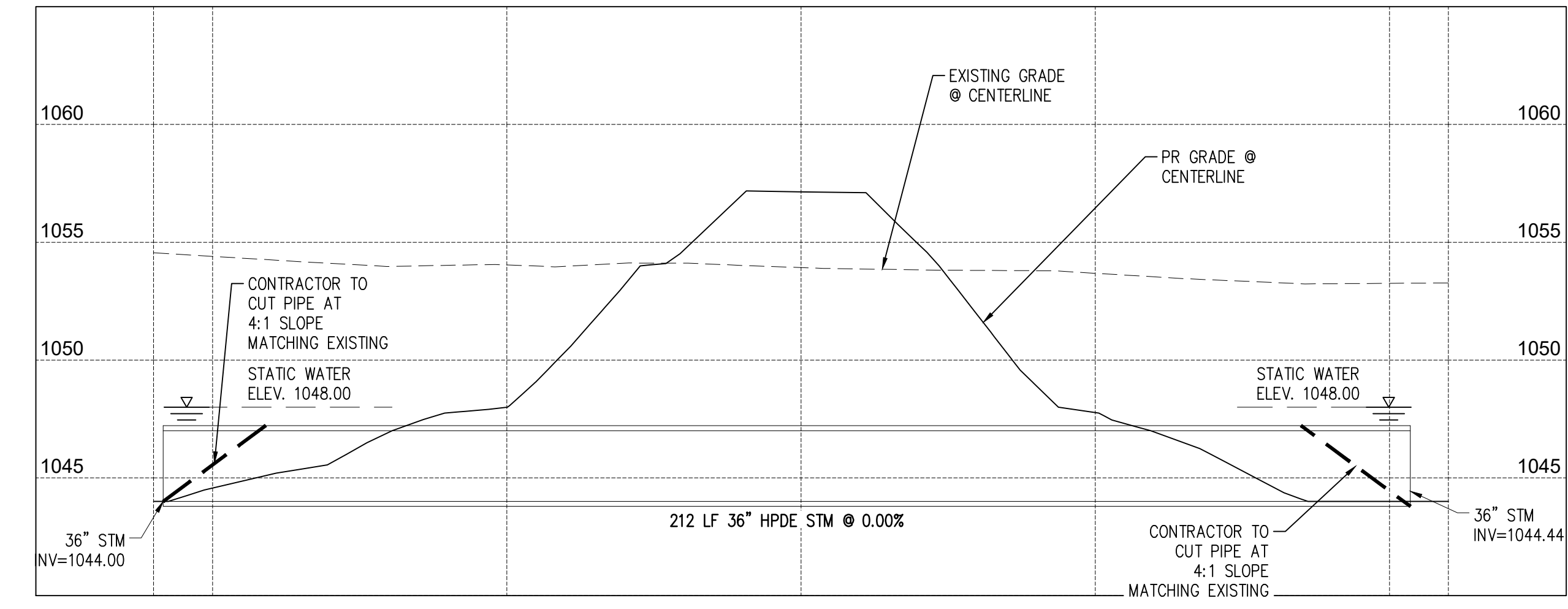
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

STORM PLAN &  
PROFILE

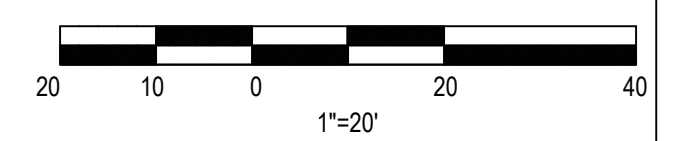
C207



**SOUTH POND CULVERT NORTH PROFILE**  
HORIZONTAL SCALE = 1"=20'  
VERTICAL SCALE = 1"=5'

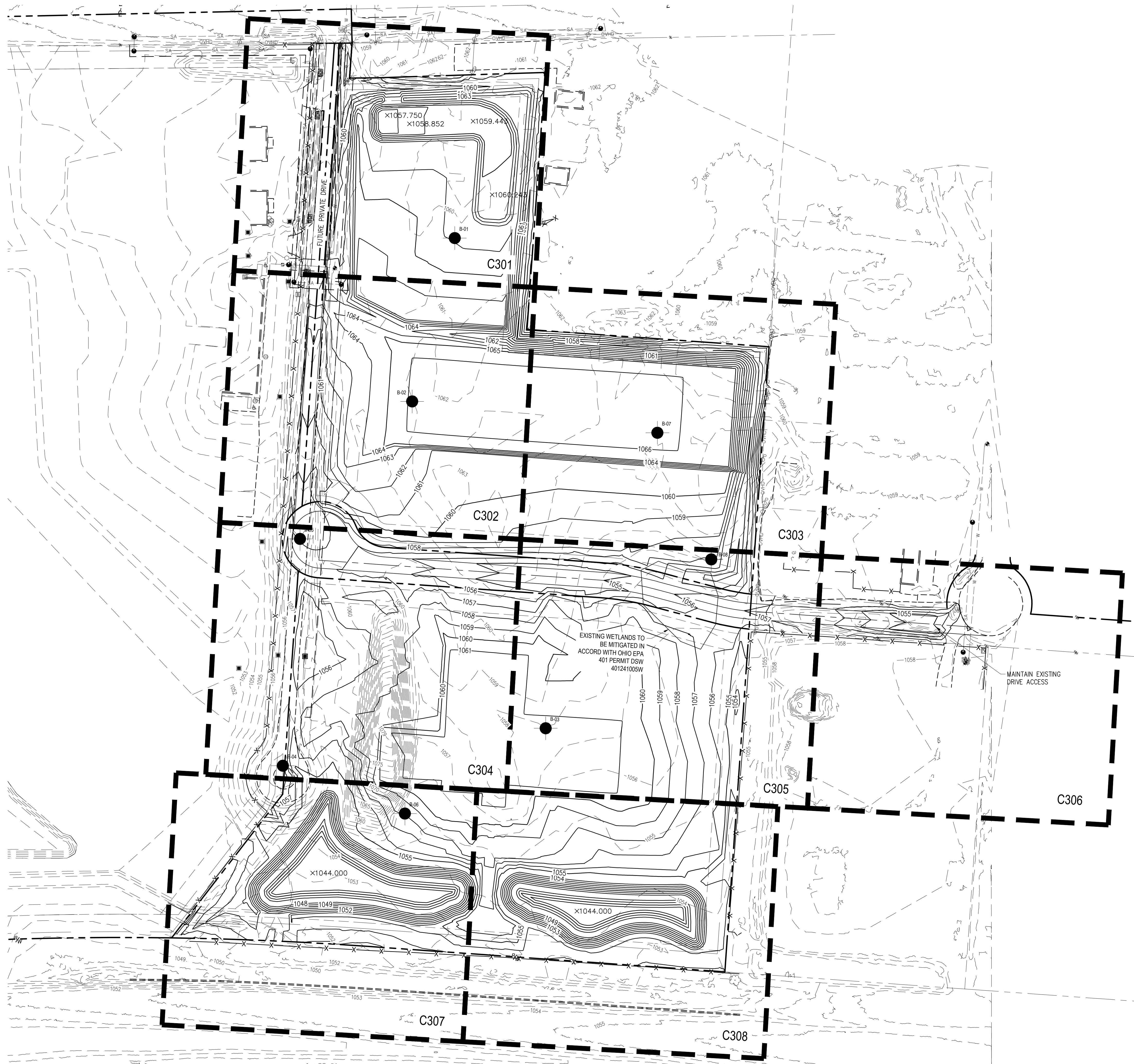


**SOUTH POND CULVERT SOUTH PROFILE**  
HORIZONTAL SCALE = 1"=20'  
VERTICAL SCALE = 1"=5'



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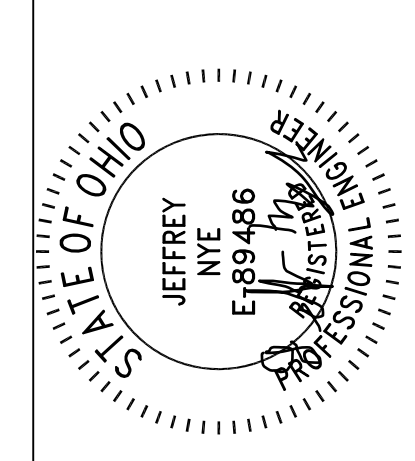
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**PROPOSED GRADING LEGEND**

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- - - 99 - - - EXISTING INTERMEDIATE CONTOURS
- - - 100 - - - EXISTING INDEX CONTOURS

NO.	DATE	BY	DESCRIPTION
1	20240813	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300510  
DRAWN BY: JMN  
CHECKED BY: MAS



PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

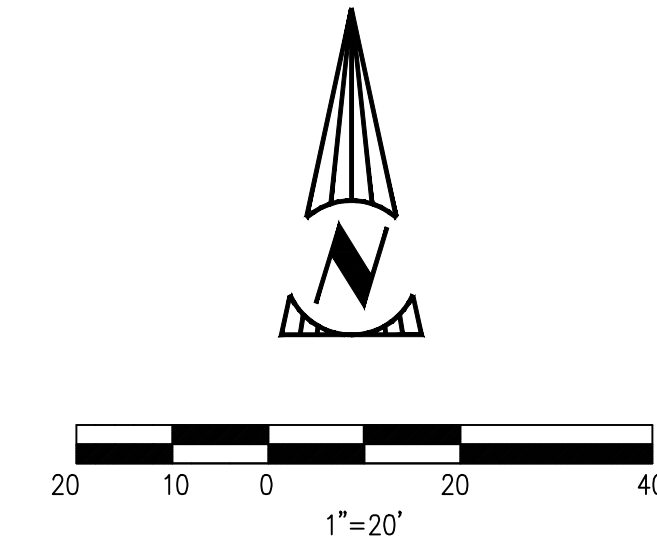
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

OVERALL GRADING  
PLAN

C300

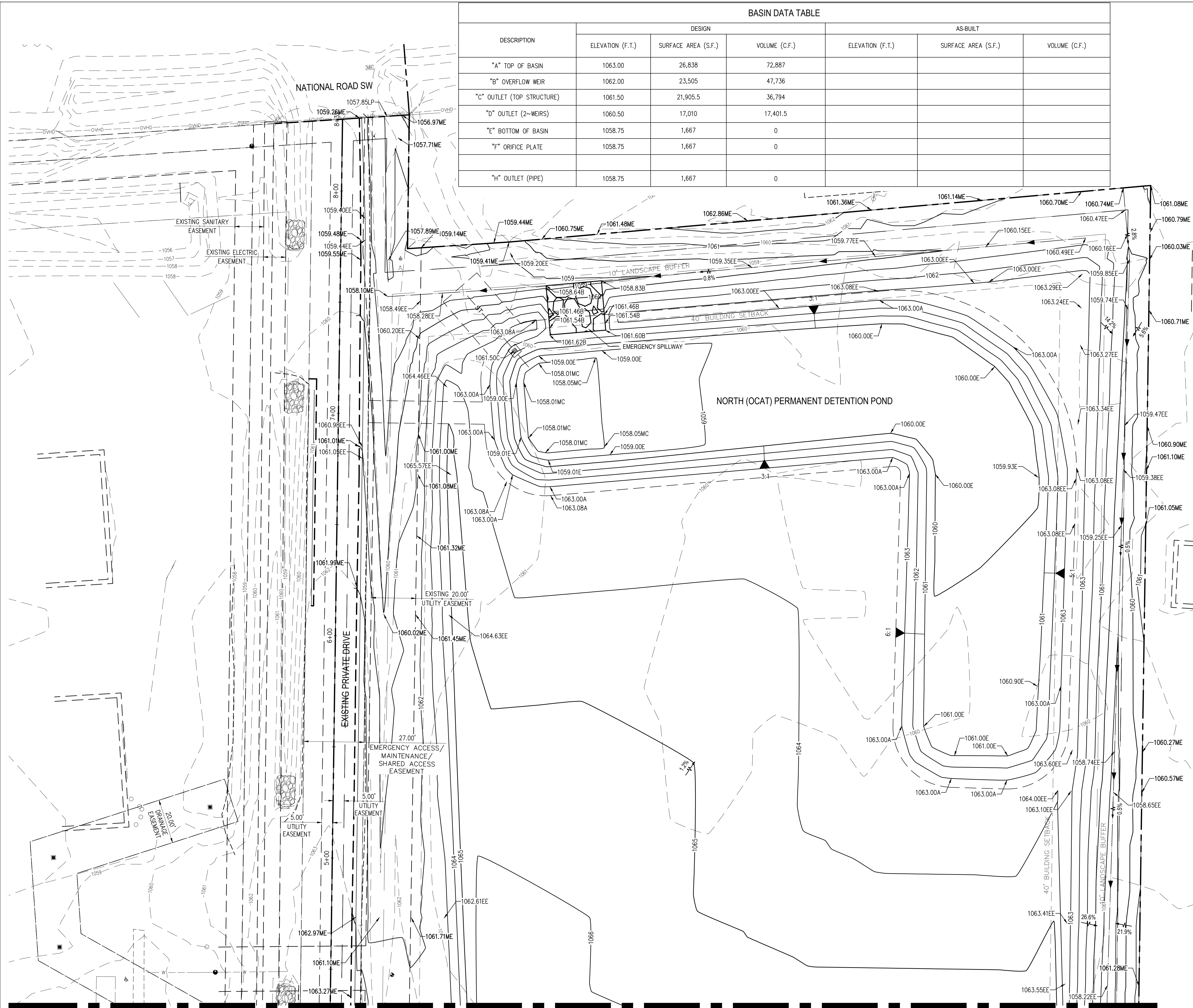
BASIN DATA TABLE

DESCRIPTION	DESIGN			AS-BUILT		
	ELEVATION (F.T.)	SURFACE AREA (S.F.)	VOLUME (C.F.)	ELEVATION (F.T.)	SURFACE AREA (S.F.)	VOLUME (C.F.)
"A" TOP OF BASIN	1063.00	26,838	72,887			
"B" OVERFLOW WEIR	1062.00	23,505	47,736			
"C" OUTLET (TOP STRUCTURE)	1061.50	21,905.5	36,794			
"D" OUTLET (2-WEIRS)	1060.50	17,010	17,401.5			
"E" BOTTOM OF BASIN	1058.75	1,667	0			
"F" ORIFICE PLATE	1058.75	1,667	0			
"H" OUTLET (PIPE)	1058.75	1,667	0			



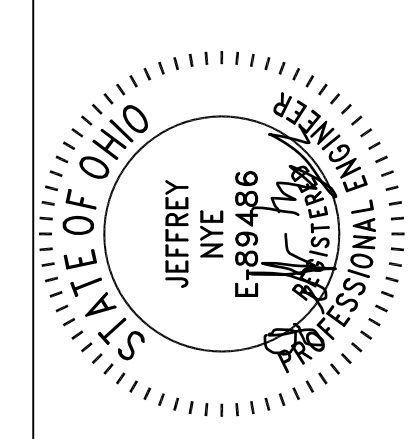
PROPOSED GRADING LEGEND

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- 99- — EXISTING INTERMEDIATE CONTOURS
- 100- — EXISTING INDEX CONTOURS
- ▲ — PROPOSED SLOPE INDICATOR
- — RUNOFF FLOW DIRECTION
- 000.00 — PROPOSED SPOT ELEVATION
- EE — EDGE OF EARTHWORK
- ME — MEET EXISTING
- LP — LOW POINT
- HP — HIGH POINT
- A — TOP OF BASIN
- B — OVERFLOW WEIR
- E — BOTTOM OF BASIN
- C — OUTLET STRUCTURE RIM
- MC — MICROPOOL
- — SWALE CENTERLINE
- — GRADING CODED NOTE
- ⊙ — EXISTING FIRE HYDRANT
- W — EXISTING WATER MAIN
- ⊙ — EXISTING SANITARY MANHOLE
- SA — EXISTING SANITARY SEWER
- ST — PROPOSED STORM SEWER
- UD — PROPOSED UNDERDRAIN
- ▭ — PROPOSED STORM CATCHBASIN
- T — EXISTING TELECOM
- OVE — EXISTING OVERHEAD ELECTRIC
- P — EXISTING POWER POLE
- X — EXISTING FENCE
- ⊕ — EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)



MATCHLINE - SEE SHEET C302

NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300610  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

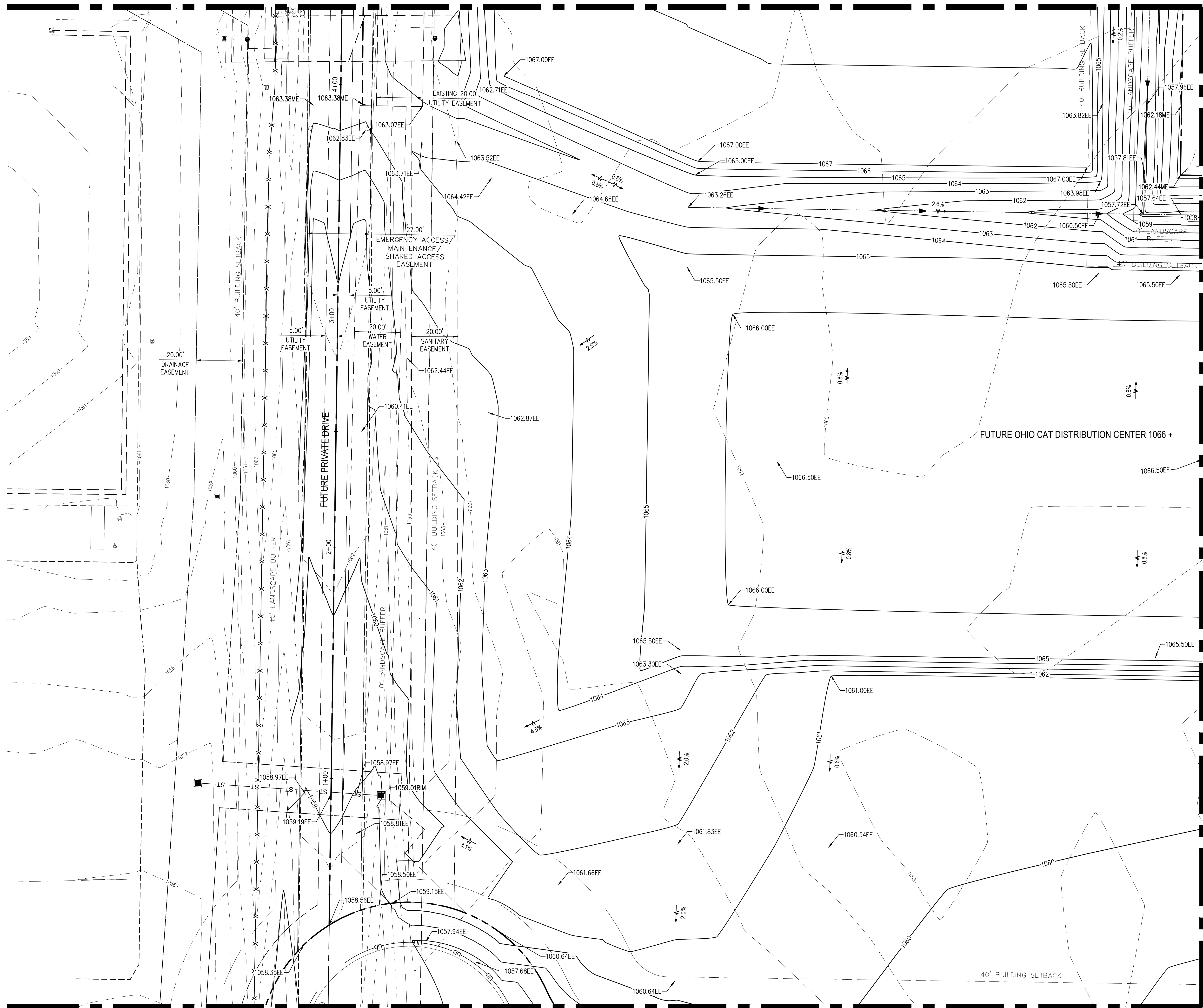
CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

DETAILED GRADING

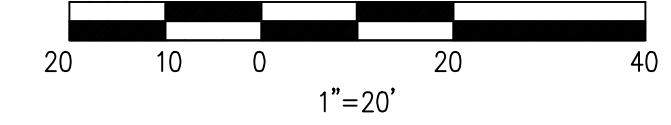
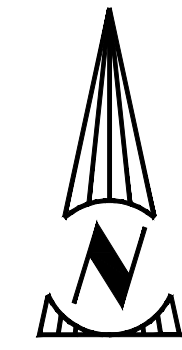
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MATCHLINE - SEE SHEET C301



MATCHLINE - SEE SHEET C304

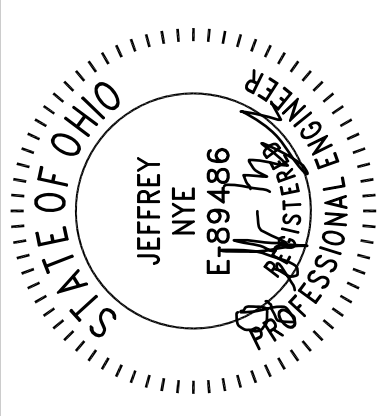


**PROPOSED GRADING LEGEND**

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- - - 99 - - - EXISTING INTERMEDIATE CONTOURS
- - - 100 - - - EXISTING INDEX CONTOURS
- ↗ PROP. SLOPE INDICATOR
- ↘ RUNOFF FLOW DIRECTION
- 000.00 PROPOSED SPOT ELEVATION
- EE EDGE OF EARTHWORK
- ME MEET EXISTING
- LP LOW POINT
- HP HIGH POINT
- A TOP OF BASIN
- B OVERFLOW WEIR
- E BOTTOM OF BASIN
- C OUTLET STRUCTURE RIM
- MC MICROPOOL
- SWALE CENTERLINE
- ◻ GRADING CODED NOTE
- ⊙ EXISTING FIRE HYDRANT
- W — EXISTING WATER MAIN
- ⊙ EXISTING SANITARY MANHOLE
- - - SA - - - EXISTING SANITARY SEWER
- - - ST - - - PROPOSED STORM SEWER
- - - UD - - - PROPOSED UNDERDRAIN
- ▣ PROPOSED STORM CATCHBASIN
- - - T - - - EXISTING TELECOM
- - - OVE - - - EXISTING OVERHEAD ELECTRIC
- ⊕ EXISTING POWER POLE
- ✕ EXISTING FENCE
- ☼ EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

MATCHLINE - SEE SHEET C303

NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24

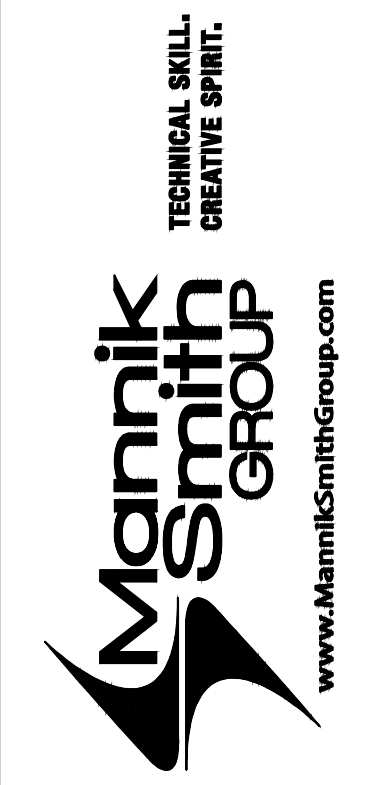
20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024

PROJECT NO.: 2300610

DRAWN BY: JMN

CHECKED BY: MAS



PREPARED FOR:

OMCO BUILDING, LLC

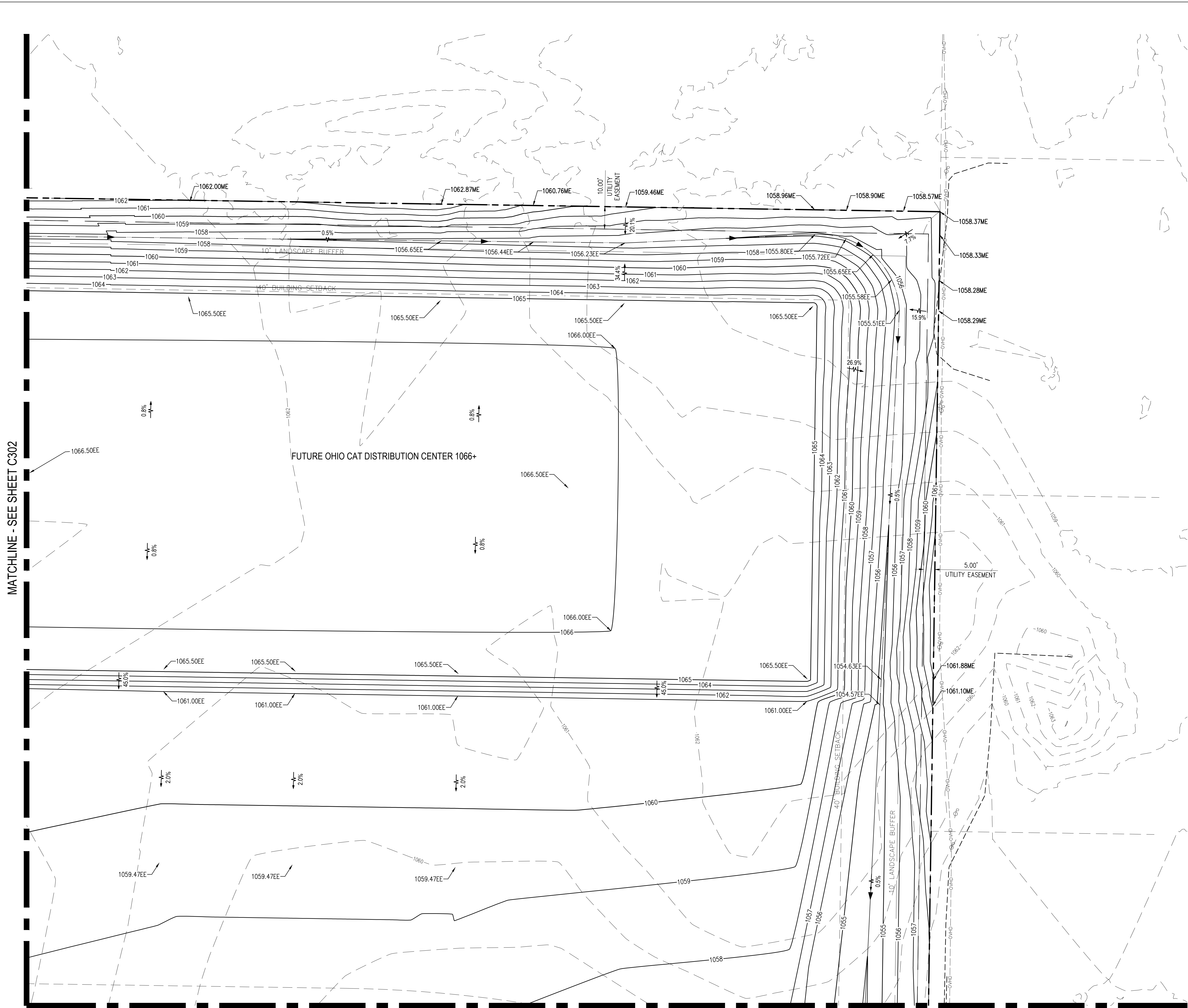
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

DETAILED GRADING

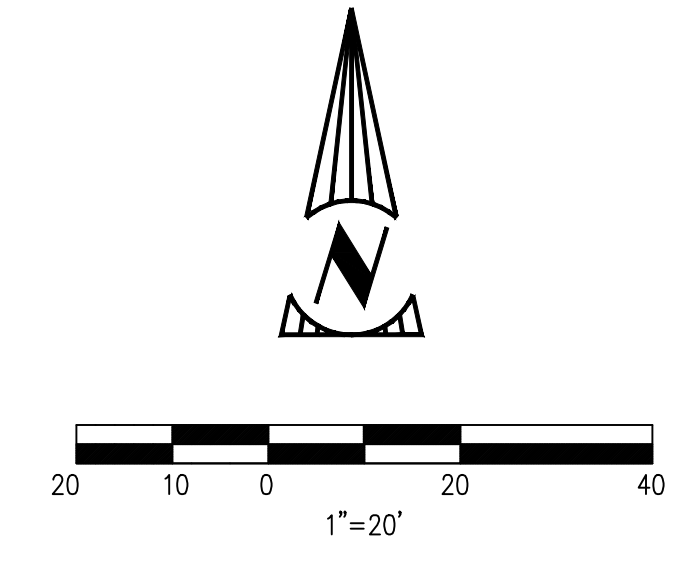
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MATCHLINE - SEE SHEET C302

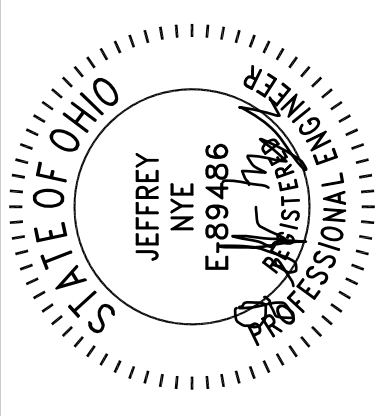
MATCHLINE - SEE SHEET C305



**PROPOSED GRADING LEGEND**

- 99 PROP. INTERMEDIATE CONTOUR
- 100 PROP. INDEX CONTOUR
- 99- EXISTING INTERMEDIATE CONTOURS
- 100- EXISTING INDEX CONTOURS
- PROPOSED SLOPE INDICATOR
- RUNOFF FLOW DIRECTION
- 000.00 PROPOSED SPOT ELEVATION
- EE EDGE OF EARTHWORK
- ME MEET EXISTING
- LP LOW POINT
- HP HIGH POINT
- A TOP OF BASIN
- B OVERFLOW WEIR
- E BOTTOM OF BASIN
- C OUTLET STRUCTURE RIM
- MC MICROPOOL
- SWALE CENTERLINE
- GRADING CODED NOTE
- EXISTING FIRE HYDRANT
- W EXISTING WATER MAIN
- SM EXISTING SANITARY MANHOLE
- SA EXISTING SANITARY SEWER
- ST PROPOSED STORM SEWER
- UD PROPOSED UNDERDRAIN
- PROPOSED STORM CATCHBASIN
- T EXISTING TELECOM
- OVD EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- X EXISTING FENCE
- EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

NO.	DATE	BY	DESCRIPTION
1	20240613	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024

PROJECT NO.: 2300610

DRAWN BY: JMN

CHECKED BY: MAS

TECHNICAL SKILL.  
CREATIVE SPIRIT.

**Mannik Smith Group**  
www.MannikSmithGroup.com

PREPARED FOR:

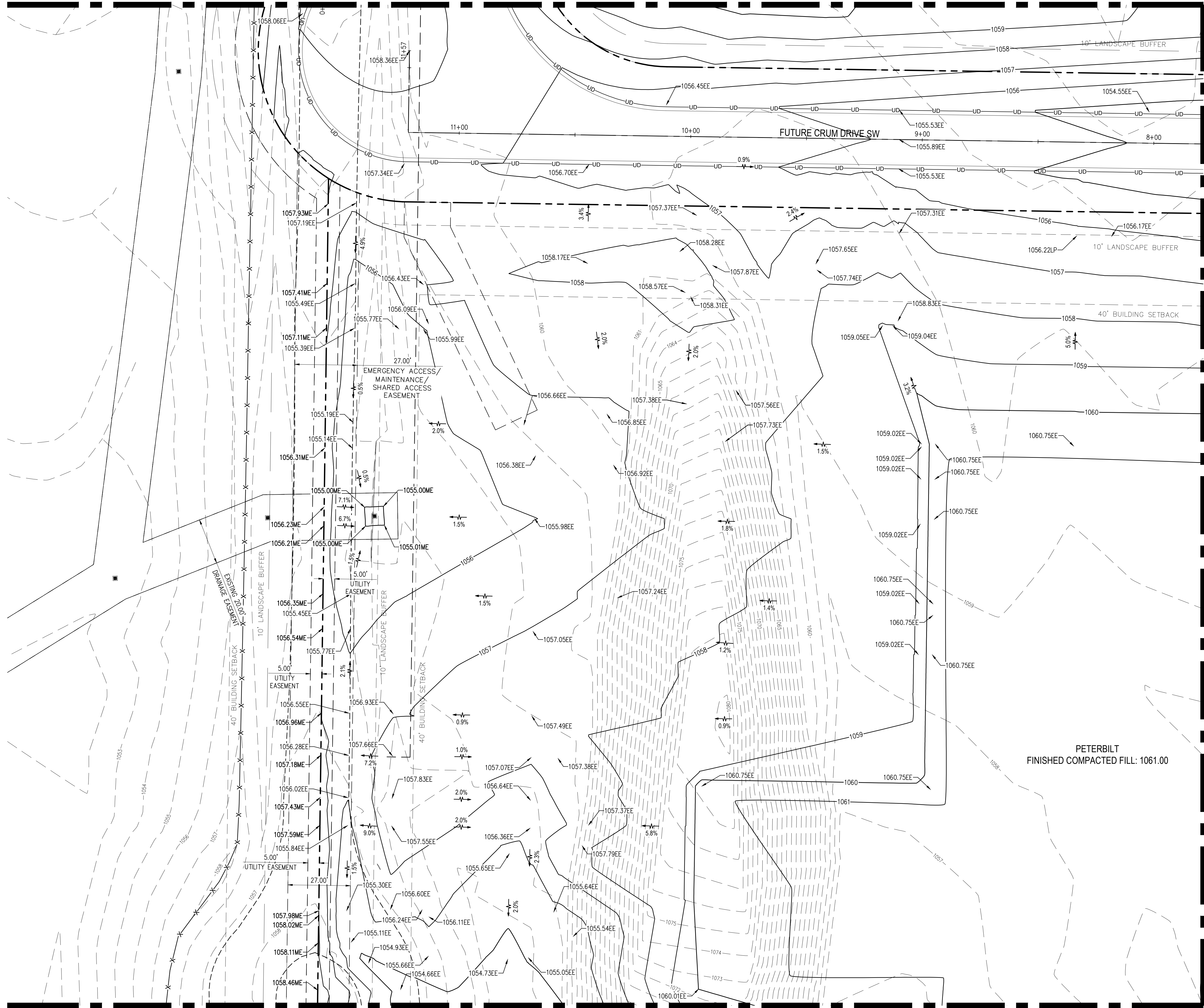
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

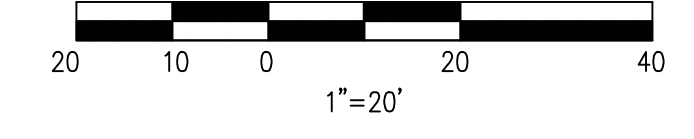
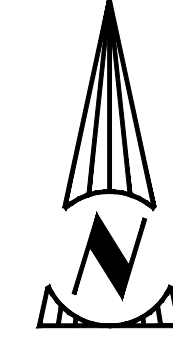
DETAILED GRADING

C303

MATCHLINE - SEE SHEET C302



MATCHLINE - SEE SHEET C307

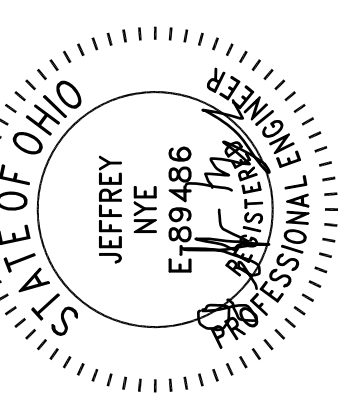


**PROPOSED GRADING LEGEND**

- 99 PROP. INTERMEDIATE CONTOUR
- 100 PROP. INDEX CONTOUR
- 99- EXISTING INTERMEDIATE CONTOURS
- 100- EXISTING INDEX CONTOURS
- PROPOSED SLOPE INDICATOR
- RUNOFF FLOW DIRECTION
- 000.00 PROPOSED SPOT ELEVATION
- EE EDGE OF EARTHWORK
- ME MEET EXISTING
- LP LOW POINT
- HP HIGH POINT
- A TOP OF BASIN
- B OVERFLOW WEIR
- E BOTTOM OF BASIN
- C OUTLET STRUCTURE RIM
- MC MICROPOOL
- SWALE CENTERLINE
- GRADING CODED NOTE
- EXISTING FIRE HYDRANT
- EXISTING WATER MAIN
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED STORM CATCHBASIN
- EXISTING TELECOM
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING FENCE
- EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

MATCHLINE - SEE SHEET C305

NO.	DATE	BY	DESCRIPTION
1	2/24/2024	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2024	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT DATE: 05/09/2024  
PROJECT NO.: 230610

DRAWN BY: JMN  
CHECKED BY: MAS

**Mannik Smith Group**  
www.MannikSmithGroup.com

TECHNICAL SKILL.  
CREATIVE SPIRIT.

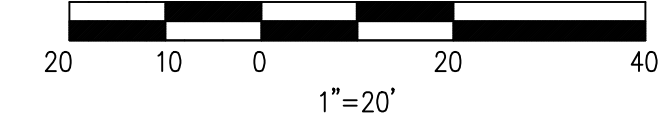
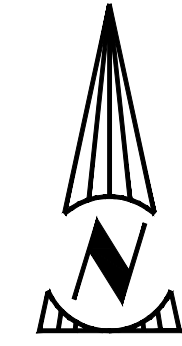
PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

DETAILED GRADING

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MATCHLINE - SEE SHEET C303

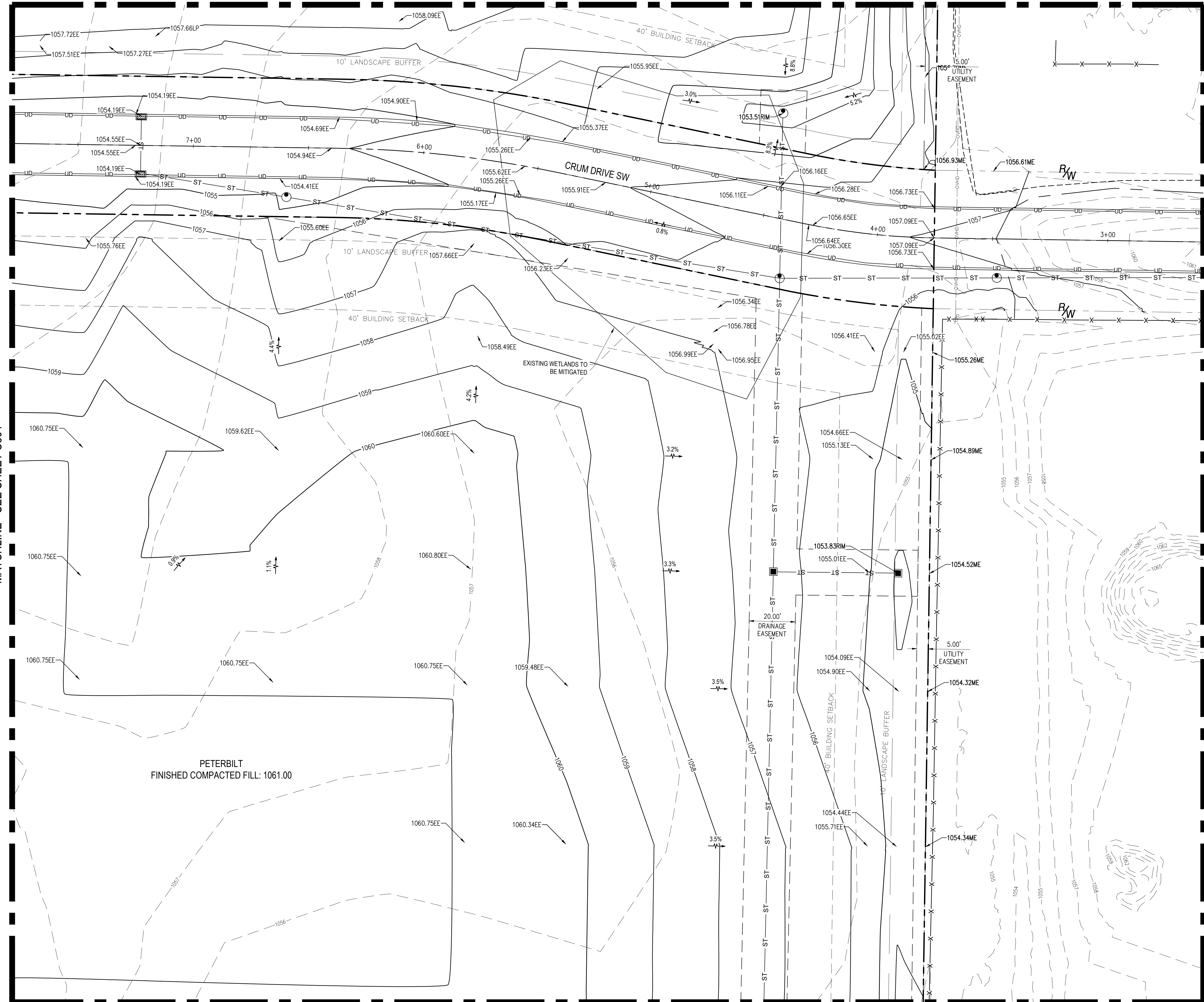


PROPOSED GRADING LEGEND

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- 99 --- EXISTING INTERMEDIATE CONTOURS
- 100 --- EXISTING INDEX CONTOURS
- ▲ PROP. SLOPE INDICATOR
- RUNOFF FLOW DIRECTION
- 000.00 PROP. SPOT ELEVATION
- EE EDGE OF EARTHWORK
- ME MEET EXISTING
- LP LOW POINT
- HP HIGH POINT
- A TOP OF BASIN
- B OVERFLOW WEIR
- E BOTTOM OF BASIN
- C OUTLET STRUCTURE RIM
- MC MICROPOOL
- SWALE CENTERLINE
- GRADING CODED NOTE
- EXISTING FIRE HYDRANT
- W — EXISTING WATER MAIN
- EXISTING SANITARY MANHOLE
- SA — EXISTING SANITARY SEWER
- ST — PROPOSED STORM SEWER
- UD — PROPOSED UNDERDRAIN
- PROPOSED STORM CATCHBASIN
- EXISTING TELECOM
- OVE — EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- × EXISTING FENCE
- EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

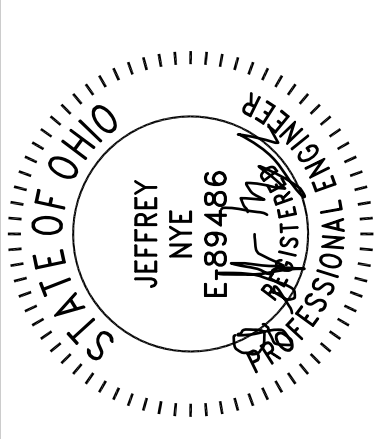
MATCHLINE - SEE SHEET C304

MATCHLINE - SEE SHEET C306



MATCHLINE - SEE SHEET C308

NO.	DATE	BY	DESCRIPTION
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2	2024/11/11	JMN	CONSTRUCTION SUBMITTAL

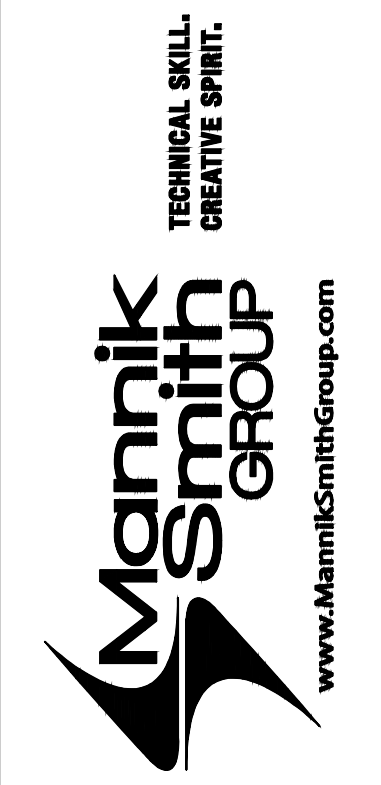


11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497

PROJECT NO.: 2300610  
PROJECT DATE: 05/09/2024

DRAWN BY: JMN  
CHECKED BY: MAS



PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

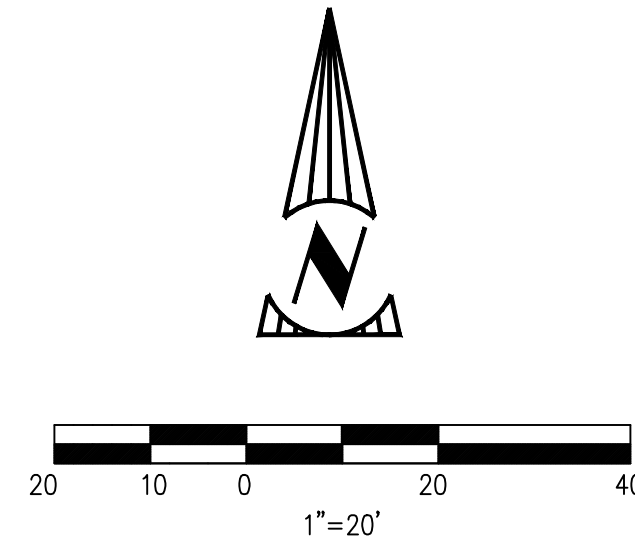
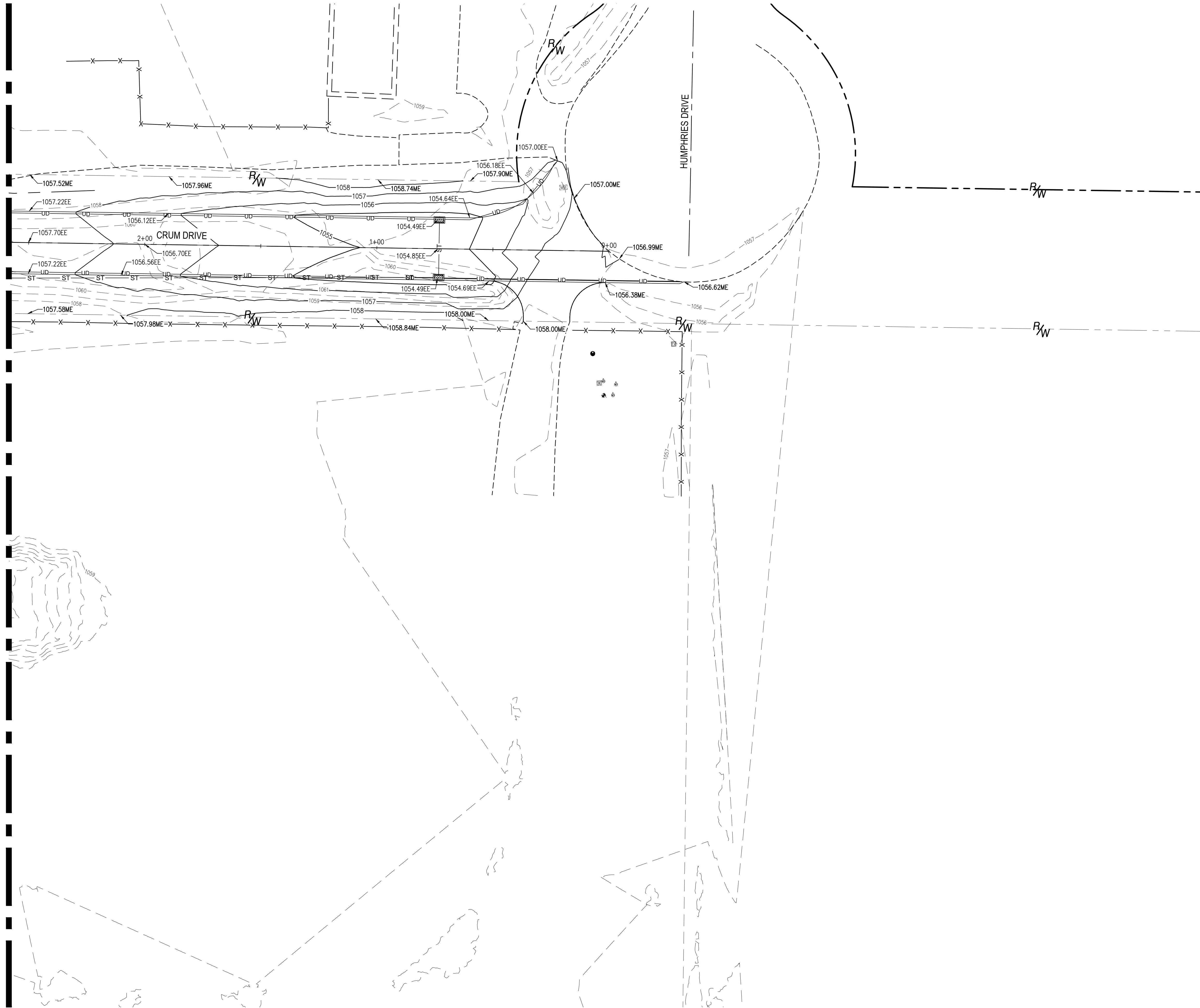
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

DETAILED GRADING

C305

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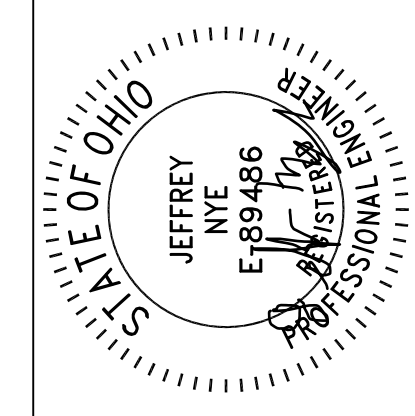
MATCHLINE - SEE SHEET C305



**PROPOSED GRADING LEGEND**

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- 99 --- EXISTING INTERMEDIATE CONTOURS
- 100 --- EXISTING INDEX CONTOURS
- ▲ PROPOSED SLOPE INDICATOR
- RUNOFF FLOW DIRECTION
- 000.00 PROPOSED SPOT ELEVATION
- EE EDGE OF EARTHWORK
- ME MEET EXISTING
- LP LOW POINT
- HP HIGH POINT
- A TOP OF BASIN
- B OVERFLOW WEIR
- E BOTTOM OF BASIN
- C OUTLET STRUCTURE RIM
- MC MICROPOOL
- SWALE CENTERLINE
- GRADING CODED NOTE
- EXISTING FIRE HYDRANT
- W — EXISTING WATER MAIN
- EXISTING SANITARY MANHOLE
- SA — EXISTING SANITARY SEWER
- ST — PROPOSED STORM SEWER
- UD — PROPOSED UNDERDRAIN
- PROPOSED STORM CATCHBASIN
- T — EXISTING TELECOM
- OHE — EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- X — EXISTING FENCE
- EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

NO.	DATE	BY	DESCRIPTION
1	20240615	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300610  
 DRAWN BY: JMN  
 CHECKED BY: MAS



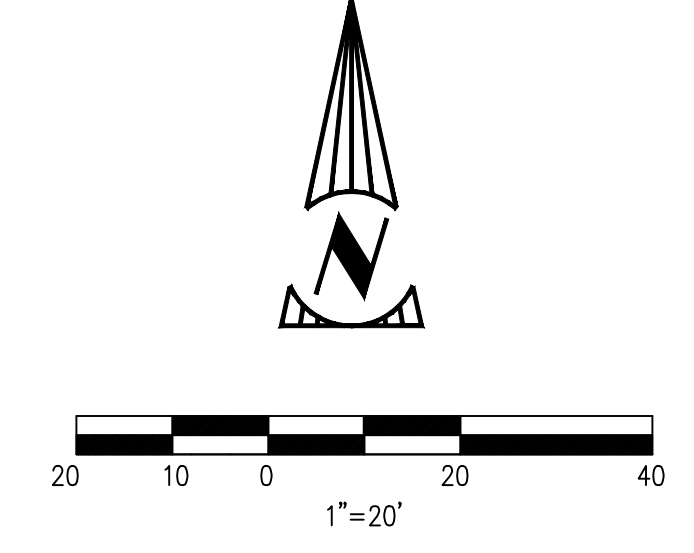
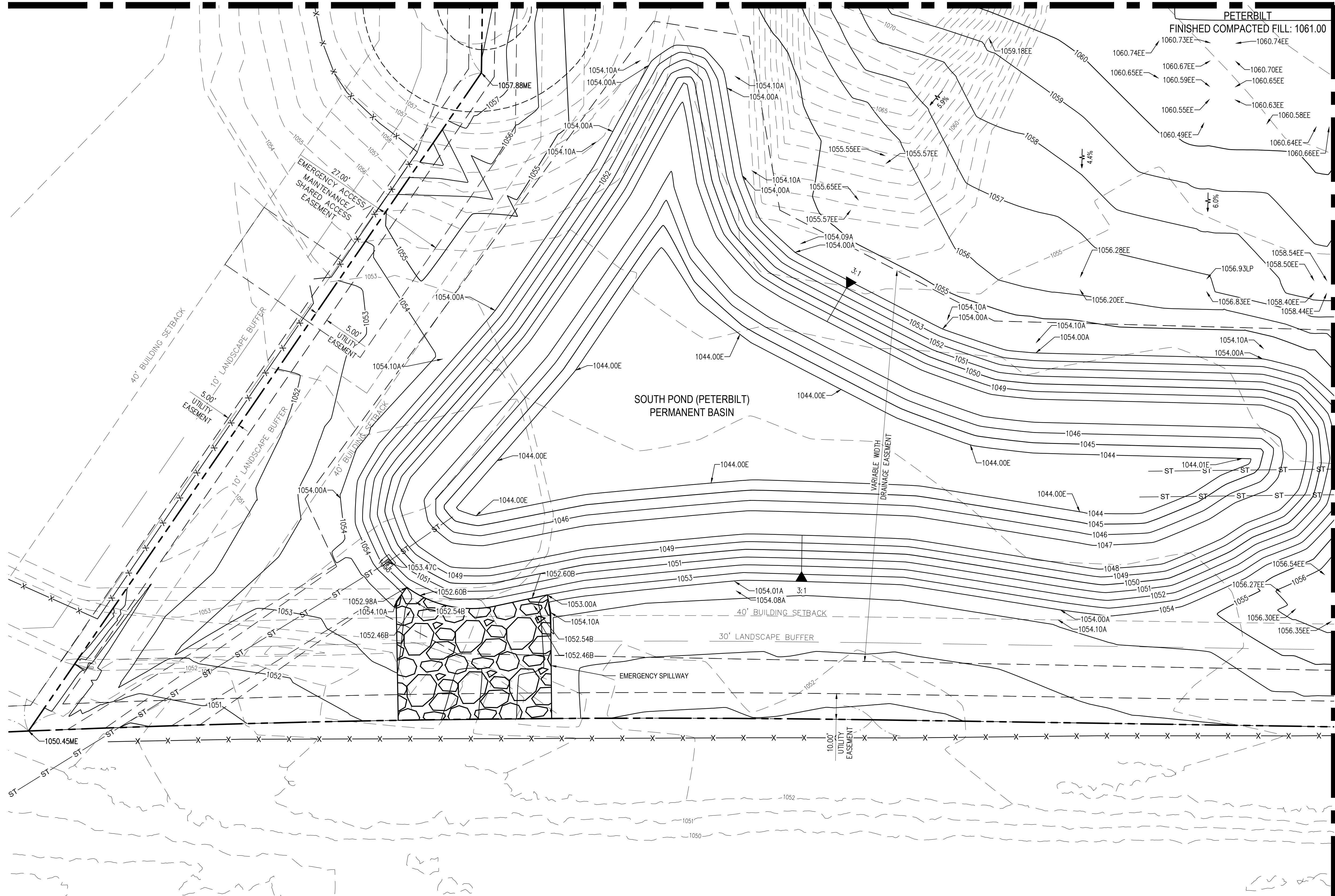
PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

DETAILED GRADING

C306

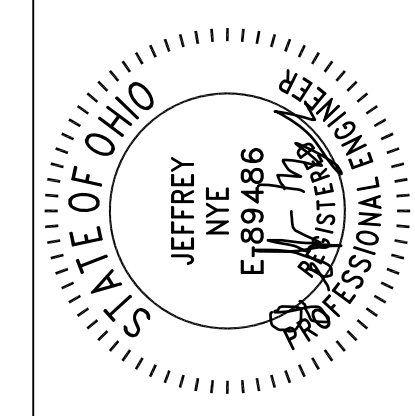
MATCHLINE - SEE SHEET C304



- PROPOSED GRADING LEGEND**
- 99 — PROP. INTERMEDIATE CONTOUR
  - 100 — PROP. INDEX CONTOUR
  - 99 — EXISTING INTERMEDIATE CONTOURS
  - 100 — EXISTING INDEX CONTOURS
  - ▲ — PROPOSED SLOPE INDICATOR
  - — RUNOFF FLOW DIRECTION
  - 000.00 — PROPOSED SPOT ELEVATION
  - EE — EDGE OF EARTHWORK
  - ME — MEET EXISTING
  - LP — LOW POINT
  - HP — HIGH POINT
  - A — TOP OF BASIN
  - B — OVERFLOW WEIR
  - E — BOTTOM OF BASIN
  - C — OUTLET STRUCTURE RIM
  - MC — MICROPOOL
  - SWALE CENTERLINE
  - — GRADING CODED NOTE
  - ⊕ — EXISTING FIRE HYDRANT
  - W — EXISTING WATER MAIN
  - ⊙ — EXISTING SANITARY MANHOLE
  - SA — EXISTING SANITARY SEWER
  - ST — PROPOSED STORM SEWER
  - UD — PROPOSED UNDERDRAIN
  - ▣ — PROPOSED STORM CATCHBASIN
  - T — EXISTING TELECOM
  - — EXISTING OVERHEAD ELECTRIC
  - ⊕ — EXISTING POWER POLE
  - X — EXISTING FENCE
  - ⊕ — EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

MATCHLINE - SEE SHEET C308

NO.	DATE	BY	DESCRIPTION
1	2/24/24	JMN	CONSTRUCTION SUBMITTAL
2	2/24/24	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300610  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

DETAILED GRADING

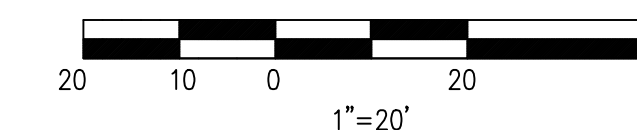
C307

**BASIN DATA TABLE** I-70

DESCRIPTION	DESIGN			AS-BUILT		
	ELEVATION (F.T.)	SURFACE AREA (S.F.)	VOLUME (C.F.)	ELEVATION (F.T.)	SURFACE AREA (S.F.)	VOLUME (C.F.)
"A" TOP OF BASIN	1054.00	77,179	365,354			
"B" OVERFLOW WEIR	1052.60	69,341	263,520			
"C" OUTLET (TOP STRUCTURE)	1052.50	71,796	255,929			
"D" OUTLET (2-WEIRS)	1051.00	60,730	158,882			
"E" BOTTOM OF BASIN	1048.00	45,400	0			
"F" ORIFICE PLATE	1048.00	45,400	0			
"H" OUTLET (PIPE)	1048.00	45,400	0			

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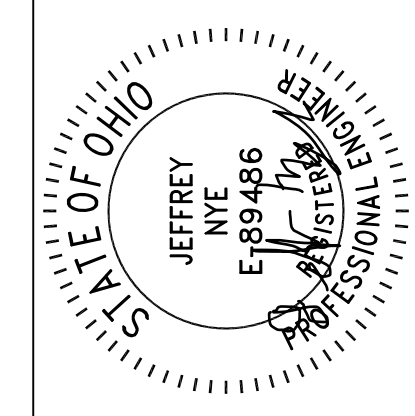
MATCHLINE - SEE SHEET C305



PROPOSED GRADING LEGEND

- 99 — PROP. INTERMEDIATE CONTOUR
- 100 — PROP. INDEX CONTOUR
- 99 — EXISTING INTERMEDIATE CONTOURS
- 100 — EXISTING INDEX CONTOURS
- ▲ — PROPOSED SLOPE INDICATOR
- — RUNOFF FLOW DIRECTION
- 000.00 — PROPOSED SPOT ELEVATION
- EE — EDGE OF EARTHWORK
- ME — MEET EXISTING
- LP — LOW POINT
- HP — HIGH POINT
- A — TOP OF BASIN
- B — OVERFLOW WEIR
- E — BOTTOM OF BASIN
- C — OUTLET STRUCTURE RIM
- MC — MICROPOOL
- SWALE CENTERLINE
- GRADING CODED NOTE
- EXISTING FIRE HYDRANT
- EXISTING WATER MAIN
- EXISTING SANITARY MANHOLE
- SA — EXISTING SANITARY SEWER
- ST — PROPOSED STORM SEWER
- UD — PROPOSED UNDERDRAIN
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- EXISTING TELECOM
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING FENCE
- EXISTING TREES (PROTECT IN PLACE UNLESS OTHERWISE NOTED)

NO.	DATE	BY	DESCRIPTION
1	2/24/24	JMN	CONSTRUCTION SUBMITTAL
2	2/24/24	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJ. NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS



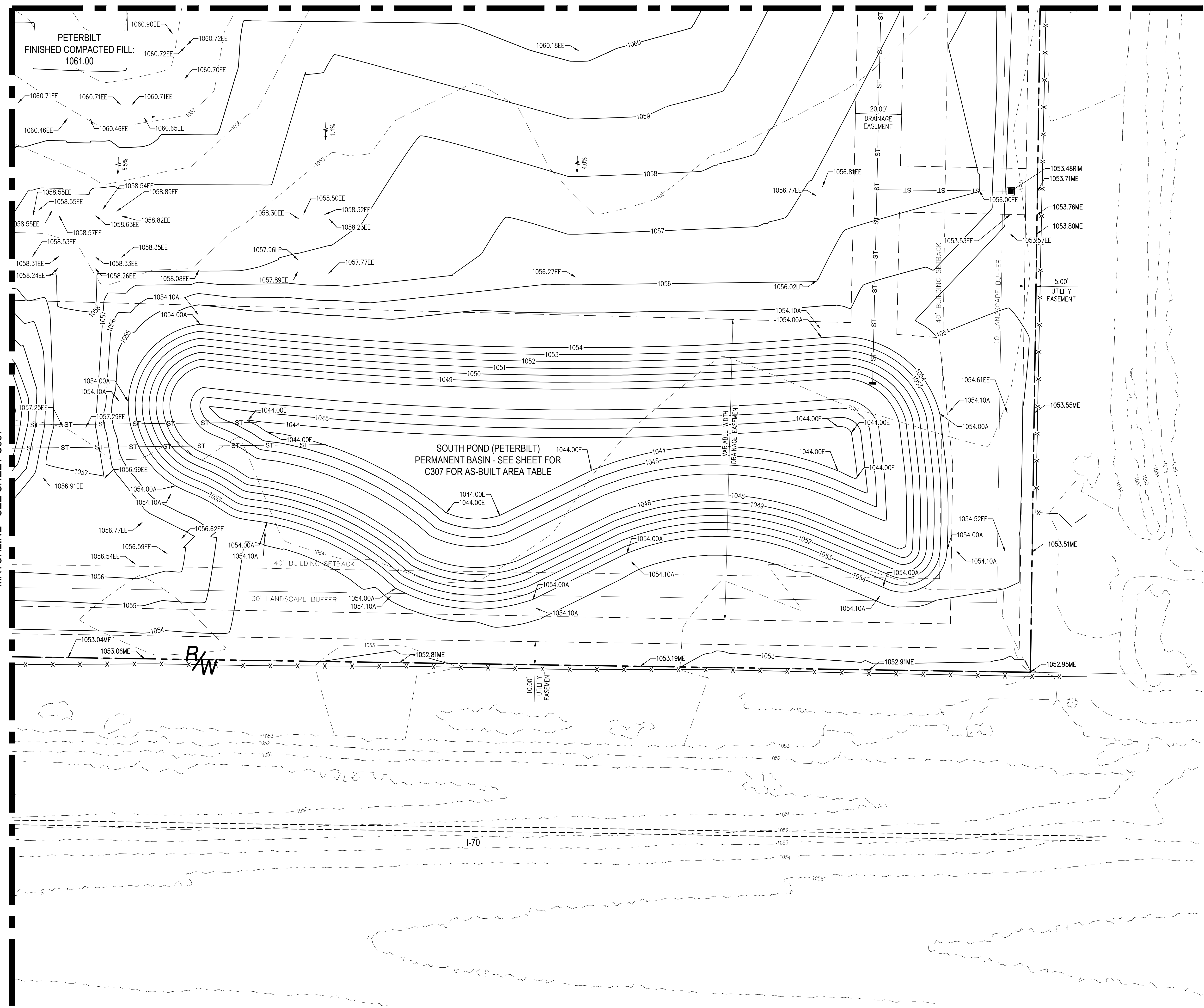
PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

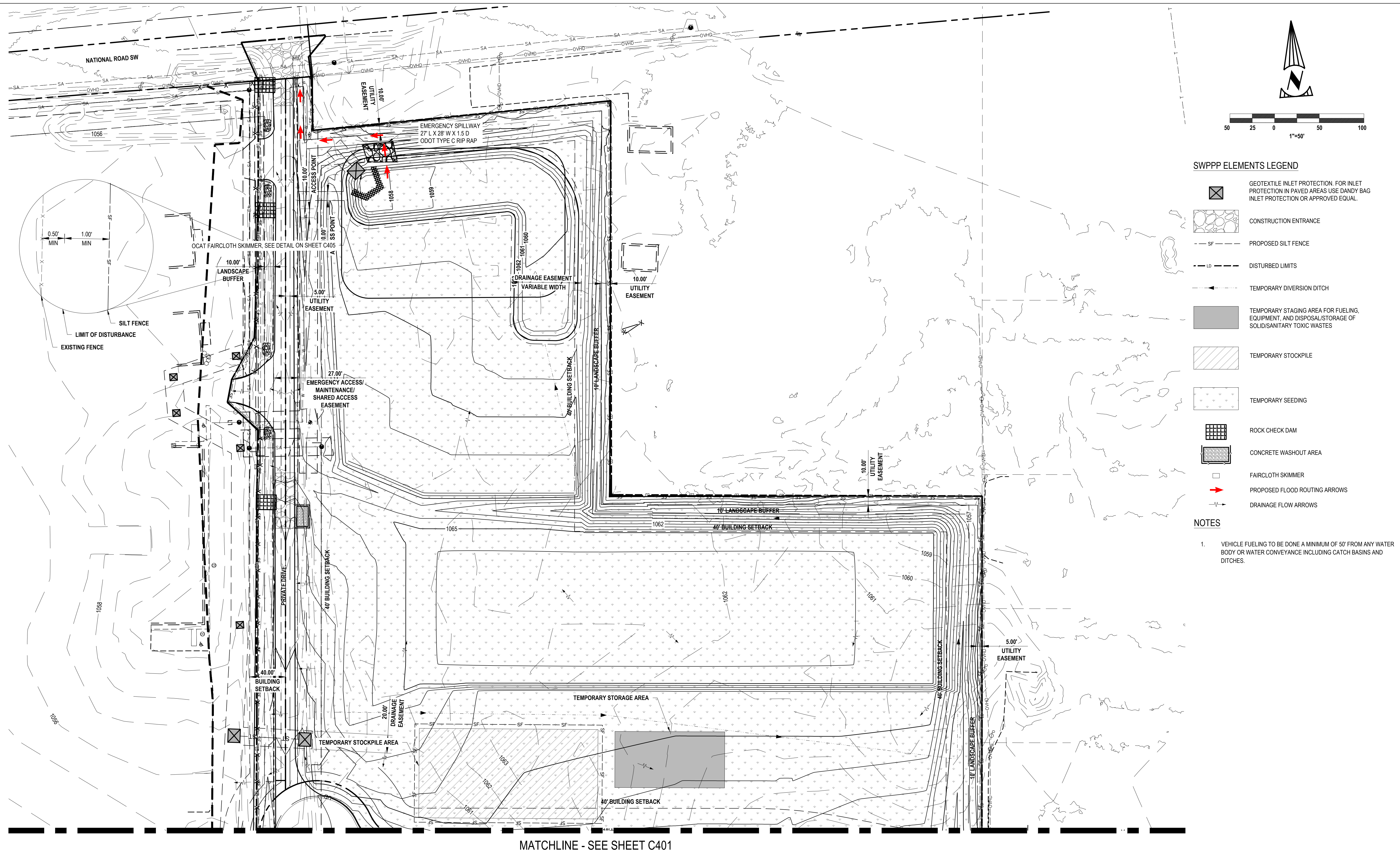
DETAILED GRADING

C308

MATCHLINE - SEE SHEET C307



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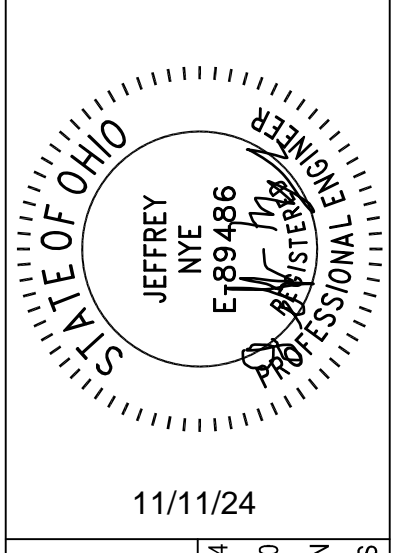
**SWPPP ELEMENTS LEGEND**

- GEOTEXTILE INLET PROTECTION. FOR INLET PROTECTION IN PAVED AREAS USE DANDY BAG INLET PROTECTION OR APPROVED EQUAL.
- CONSTRUCTION ENTRANCE
- PROPOSED SILT FENCE
- DISTURBED LIMITS
- TEMPORARY DIVERSION DITCH
- TEMPORARY STAGING AREA FOR FUELING, EQUIPMENT, AND DISPOSAL/STORAGE OF SOLID/SANITARY TOXIC WASTES
- TEMPORARY STOCKPILE
- TEMPORARY SEEDING
- ROCK CHECK DAM
- CONCRETE WASHOUT AREA
- FAIRCLOTH SKIMMER
- PROPOSED FLOOD ROUTING ARROWS
- DRAINAGE FLOW ARROWS

**NOTES**

- VEHICLE FUELING TO BE DONE A MINIMUM OF 50' FROM ANY WATER BODY OR WATER CONVEYANCE INCLUDING CATCH BASINS AND DITCHES.

NO.	DATE	BY	DESCRIPTION
1	20240813	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.376.1490  
 FAX: 216.376.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300510  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3883 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

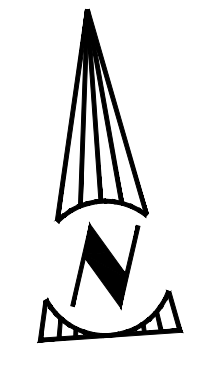
CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

STORMWATER  
 POLLUTION  
 PREVENTION PLAN  
 C400

MATCHLINE - SEE SHEET C401

DISTURBED DRAINAGE AREA	DEWATERING VOLUME REQUIRED	DEWATERING VOLUME PROVIDED	SEDIMENT BASIN				PERMANENT STORMWATER FACILITY			
			SEDIMENT STORAGE VOLUME REQUIRED	SEDIMENT STORAGE VOLUME PROVIDED	DETENTION TIME MIN. 48 HOUR	SEDIMENT CONTROL ORIFICE SIZE	WATER QUALITY VOLUME - WQV	PERMANENT POOL VOLUME	DETENTION TIME	WQV ORIFICE SIZE
AC.	YD3	YD3	YD3	YD3	HOURS	IN OR IN2	YD3 OR AC-FT	YD3 OR AC-FT	HOURS	IN OR IN2
10.20	699	1436.44	378	398	72 HOURS	2.75 IN	23.23 YD3	52.58 YD3	57.42 HOURS	1.5 IN

MATCHLINE - SEE SHEET C400

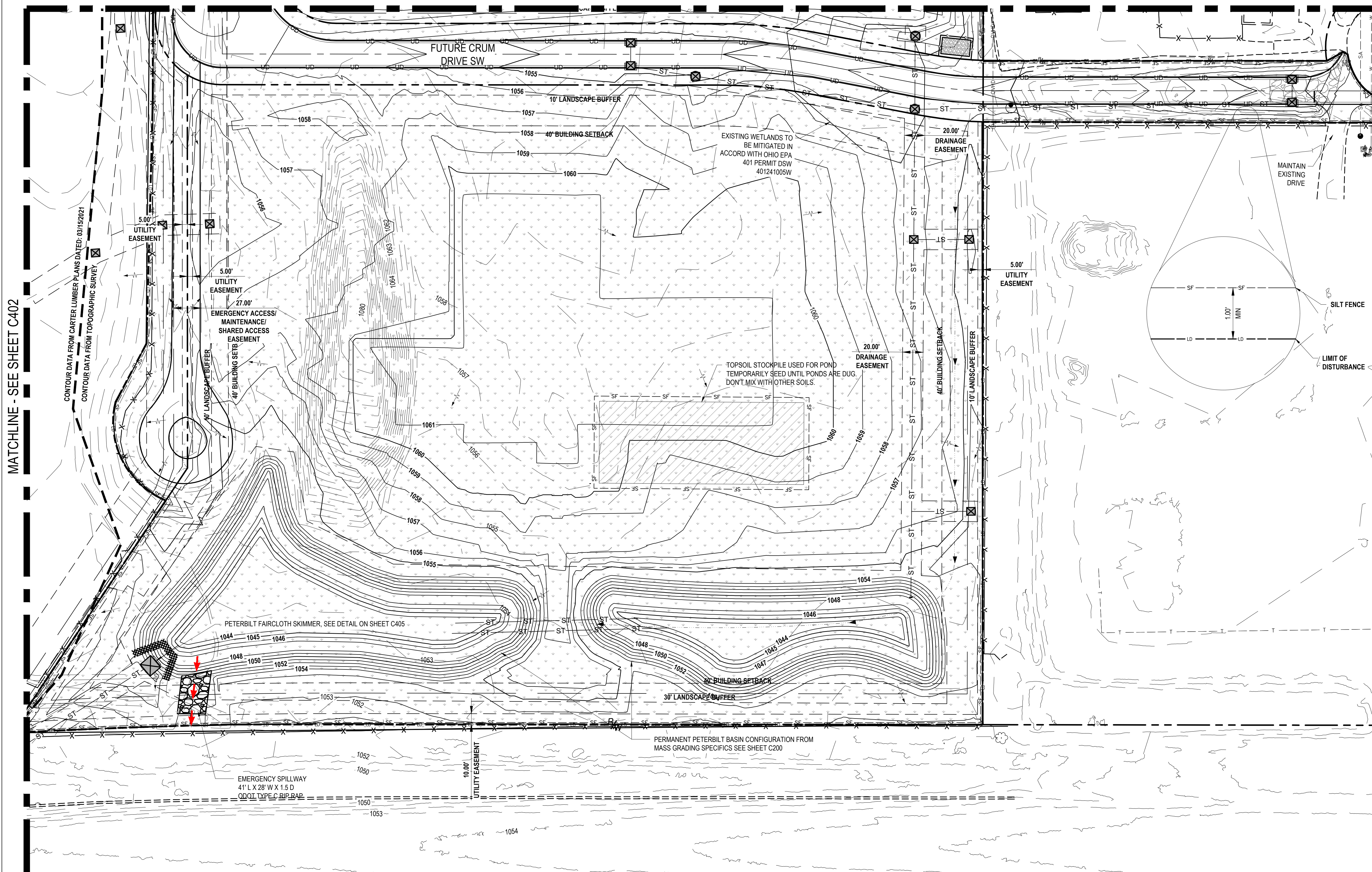


SWPPP ELEMENTS LEGEND

- GEOTEXTILE INLET PROTECTION. FOR INLET PROTECTION IN PAVED AREAS USE DANDY BAG INLET PROTECTION OR APPROVED EQUAL.
- CONSTRUCTION ENTRANCE
- PROPOSED SILT FENCE
- DISTURBED LIMITS
- TEMPORARY DIVERSION DITCH
- TEMPORARY STAGING AREA FOR FUELING, EQUIPMENT, AND DISPOSAL/STORAGE OF SOLID/SANITARY TOXIC WASTES
- TEMPORARY STOCKPILE
- TEMPORARY SEEDING
- ROCK CHECK DAM
- CONCRETE WASHOUT AREA
- FAIRCLOTH SKIMMER
- PROPOSED FLOOD ROUTING ARROWS
- DRAINAGE FLOW ARROWS

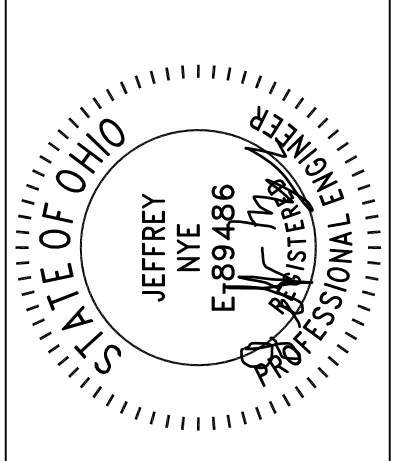
NOTES

1. VEHICLE FUELING TO BE DONE A MINIMUM OF 50' FROM ANY WATER BODY OR WATER CONVEYANCE INCLUDING CATCH BASINS AND DITCHES.



DISTURBED DRAINAGE AREA	DEWATERING VOLUME REQUIRED	DEWATERING VOLUME PROVIDED	SEDIMENT BASIN				PERMANENT STORMWATER FACILITY			
			SEDIMENT STORAGE VOLUME REQUIRED	SEDIMENT STORAGE VOLUME PROVIDED	DETENTION TIME MIN. 48 HOUR	SEDIMENT CONTROL ORIFICE SIZE	WATER QUALITY VOLUME - WQV	PERMANENT POOL VOLUME	DETENTION TIME	WQV ORIFICE SIZE
AC.	YD3	YD3	YD3	YD3	HOURS	IN OR IN2	YD3 OR AC-FT	YD3 OR AC-FT	HOURS	IN OR IN2
12.82	855	4112	475	1,773	72 HOURS	2.75 IN	1063.74 YD3	925 YD3	84.76 HOURS	3 IN

NO.	DATE	BY	DESCRIPTION
1	20240813	JMN	CONSTRUCTION SUBMITTAL
2	20241111	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.376.1490  
 FAX: 216.376.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300510  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

STORMWATER  
 POLLUTION  
 PREVENTION PLAN

C401



GENERAL NOTES FOR EROSION CONTROL SITE DATA

Table with 2 columns: Field Name and Value. Fields include OWNER/DEVELOPER, PLAN DESIGNER, SITE OPERATOR, SWPPP AUTHORIZER, SITE LOCATION, PRIOR LAND USE, DEVELOPMENT TYPE, SITE ACREAGE SUMMARY, RUNOFF COEFFICIENTS, SITE VEGETATION, ONSITE STREAMS, ADJACENT AREAS, RECEIVING WATERS, and STORM WATER QUALITY.

MAINTENANCE NOTES:

THE OWNER'S REPRESENTATIVE WILL INSPECT ALL EROSION AND SEDIMENTATION CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT TO ASSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY.

THE OWNER/DEVELOPER MUST MAINTAIN A DOCUMENT SIGNED BY ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE SWP3 IMPLEMENTATION.

CONSTRUCTION ROAD/CONSTRUCTION ENTRANCE:

BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED.

FILTER FABRIC FENCE:

FILTER FABRIC FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOIL WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF (1/2) THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

INLET PROTECTION:

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION), WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES.

THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) THE DESIGN OF THE TRAP.

ANY SEDIMENT BLOCKING DRAINAGE AT INLETS THAT CREATES STANDING WATER ON ROADWAYS AND/OR DRIVEWAYS SHALL BE REMOVED IMMEDIATELY.

INLET PROTECTION STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

GENERAL LAND CONSERVATION NOTES:

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING FOR ALL SITES.

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED ACCORDING TO THE FOLLOWING OHIO EPA CRITERIA:
1. ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL.
2. ELECTRICAL POWER, TELEPHONE, CABLE TELEVISION AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL.
3. ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING.
4. ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING, OR BUILT UPON BY NOVEMBER 1ST, OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HYDRO MULCH AT THE RATE OF ONE (1) TON PER ACRE AND OVER-SEEDED BY APRIL 15TH.
5. ALL DENOTED AREAS SHALL BE STABILIZED AND TEMPORARY SEDIMENTATION & EROSION CONTROLS SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED AT THE COMPLETION OF CONSTRUCTION.

Table with 4 columns: Seeding Dates, Species, LB/1000 FT2, and LB/ACRE. Rows include Seeding Dates (March 1 to August 15, August 16 to November, November 1 to Feb. 29) and Species (Oats, Perennial Ryegrass, Annual Ryegrass, Rye, Wheat, Perennial Ryegrass, Annual Ryegrass, Fescue, Kentucky Bluegrass, etc.).

SEDIMENT AND EROSION CONTROL NOTES

- 1. THE STORM WATER POLLUTION PREVENTION PLAN AND DETAILS SHALL BE AVAILABLE FOR INSPECTION ON SITE DURING WORKING HOURS.
2. CONTRACTOR SHALL MAINTAIN A LOG DOCUMENTING GRADING AND STABILIZATION ACTIVITIES AS WELL AS AMENDMENTS TO THE STORM WATER POLLUTION PLAN, WHICH OCCUR AFTER CONSTRUCTION ACTIVITIES COMMENCE.
3. MINIMIZE TRACKING OF SEDIMENTS BY VEHICLES BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES.
4. THE SITE CONTRACTOR MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES.
5. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE VILLAGE AND/OR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR ITS REPRESENTATIVES.
6. SEDIMENT/TORMWATER PONDS AND EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING.
7. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
8. WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.
9. THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS.
10. THIS WORK SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED IN THE PLANS OR ORDERED BY THE ENGINEER DURING THE LIFE OF THE CONTRACT.
11. TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED IN THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR.
12. EXISTING VEGETATIVE GROWTH SHALL REMAIN UNDISTURBED AS LONG AS POSSIBLE.
13. TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL SUBSEQUENTLY BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER.
14. CONTRACTOR IS TO PROVIDE SPECIFIC LOCATIONS FOR THE PROPER CROSSING OF DIVERSION SWALES WITH VEHICLES AND EQUIPMENT.
15. IF PROPER CONTROL OF SOIL EROSION AND SEDIMENTATION IS NOT BEING PROVIDED BY THE CONTRACTOR, THE ENGINEER MAY WITHHOLD PROGRESS PAYMENTS UNTIL PROPER CONTROL IS ACHIEVED.
16. IN THE EVENT THAT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS, OR FAILURE TO INSTALL PERMANENT CONTROLS AS A PART OF THE WORK AS SCHEDULED, AND ARE ORDERED BY THE ENGINEER, SUCH TEMPORARY WORK SHALL BE PERFORMED BY THE CONTRACTOR AT HIS EXPENSE.
17. THE CONTRACTOR SHALL MAINTAIN ALL SEEDED, MULCHED AREAS UNTIL FINAL INSPECTION.
18. INSTALL SILT FENCE OR COMBINATION BARRIERS AT LOCATIONS SO INDICATED ON THE STORMWATER POLLUTION PREVENTION PLAN (SEE DETAIL).
19. SILT FENCE TO BE PLACED AROUND ALL YARD DRAINS TO MINIMIZE SILTING OF PIPE AND TRANSPORT OF SILT (SEE DETAIL).
20. INSTALL INLET PROTECTION PER CoL SCD D-8 FOR ALL CURB INLETS.
21. INSTALL TEMPORARY AGGREGATE PAD AT POINT OF INGRESS AND EGRESS FROM PROJECT TO PREVENT VEHICULAR TRACKING OFF-SITE.
22. IF TRENCH OR GROUND WATER CONTAINS SEDIMENT, IT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE.
23. TOPSOIL STOCKPILES SHALL RECEIVE TEMPORARY SEEDING AND MULCHING AS SOON AS STOCKPILING OPERATIONS ARE COMPLETED OR A SILT FENCE SHALL BE INSTALLED ALONG AND 20 FEET FROM THE TOE OF THE STOCKPILE.
24. ADDITIONAL EROSION CONTROLS MAY BE MANDATED BY THOSE AGENCIES HAVING JURISDICTION.
25. ROUTINE INSPECTION WILL BE CONDUCTED ON ALL EROSION CONTROL PRACTICES FOR THIS PROJECT.

26. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO EPA GENERAL CONSTRUCTION PERMIT REQUIREMENTS.

27. THIS SITE IS COVERED UNDER OHIO EPA GENERAL PERMIT OH0C00006 FOR STORM WATER POLLUTION ASSOCIATED WITH CONSTRUCTION.

EQUIPMENT FUELING AND MAINTENANCE:

28. LOCATION OF THE FUELING AND STAGING AREA IS SHOWN ON THE SWPPP. MODIFICATIONS TO THE LOCATION OF THE EQUIPMENT FUELING AREA SHALL BE SHOWN ON AN AMENDED SWPPP.

29. A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS OR MORE.

WASTE DISPOSAL:

30. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL RECEPTACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE AS NECESSARY.

SPILL REQUIREMENTS:

31. SHOULD AN ACCIDENTAL SPILL OCCUR, IMMEDIATE ACTION WILL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL IMMEDIATELY AND BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

32. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDF'S).

NON-SEDIMENT POLLUTION CONTROLS:

33. THE CONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE, WHICH PROHIBIT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE GROUND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES.

34. OPEN BURNING SHOULD BE DONE IN ACCORDANCE WITH (OAC 3745-19). IF OPEN BURNING IS PERMITTED IT SHOULD BE DONE IN RESTRICTED AREAS FOR BARBECUES, HEATING, AND CERTAIN OCCUPATIONAL PURPOSES.

35. CONTRACTOR MAY NOT USE OIL AS A DUST SUPPRESSANT.

CONSTRUCTION FILL, DEMOLITION DEBRIS & CHEMICAL COMPOUNDS:

36. THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE.

37. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE(ORC)3714.

INSPECTIONS:

38. THE STORM WATER POLLUTION PREVENTION PLAN AND DETAILS SHALL BE AVAILABLE FOR INSPECTION ON SITE DURING WORKING HOURS.

39. THE OWNER OF RECORD MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL EROSION SEDIMENT CONTROL PRACTICES. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

40. PERMANENT RECORDS OF ALL MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTION MUST BE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24-HOUR PERIOD.

41. IF THE SITE WILL BE DORMANT FOR A LONG PERIOD, IT'S STABILIZED, AND LESS FREQUENT INSPECTIONS ARE DESIRED, A WAIVER REQUEST MAY BE SUBMITTED TO OEPA FOR A REDUCTION TO MONTHLY INSPECTION.

42. ALL INSPECTIONS SHALL BE CONDUCTED BY A QUALIFIED INSPECTION PERSONNEL.

43. AN INSPECTION CHECKLIST SHALL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.

44. FOR BMP'S THAT HAVE BEEN DETERMINED NEED REPAIR OR MAINTENANCE, NON-SEDIMENT POND BMP'S SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS SHALL BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF THE INSPECTION.

45. FOR BMP'S NOT MEETING THE INTENDED FUNCTION, THE BMP SHALL BE REPLACED WITH A NEW BMP AND INSTALLED WITHIN 10 DAYS OF INSPECTION.

46. FOR MISSING BMP'S REQUIRED FOR INSTALLATION BY THE SWPPP, THE BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

TEMPORARY SEDIMENT BASIN CALCULATIONS - NORTH (OCAT)

- 1. SEDIMENT BASIN WITH SURFACE WATER SKIMMER CALCULATIONS:
1.1. A SURFACE WATER SKIMMER AND TEMPORARY RISER PIPE WILL SERVE AS THE TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
1.2. SEDIMENT STORAGE ZONE VOLUME CALCULATIONS:
1.2.1. VOLUME REQUIRED: 378 YD3
1.2.2. VOLUME PROVIDED: 398 YD3
1.2.3. PEAK ELEVATION: 1060.00
1.1. DEWATERING ZONE VOLUME CALCULATIONS:
1.1.1. VOLUME REQUIRED: 699 YD3
1.1.2. VOLUME PROVIDED: 1436.44 YD3
1.1.3. PEAK ELEVATION: 1062.00
1.1.4. DEWATERING ORIFICE: 2.75-INCH
1.1.4.1. DIAMETER USED DURING CONSTRUCTION D = 2.75 INCH (SEE SKIMMER CALCULATIONS FOR MORE DETAIL)

TEMPORARY SEDIMENT BASIN CALCULATIONS - SOUTH (PETERBILT)

- 1. SEDIMENT BASIN WITH SURFACE WATER SKIMMER CALCULATIONS:
1.1. A SURFACE WATER SKIMMER AND TEMPORARY RISER PIPE WILL SERVE AS THE TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
1.2. SEDIMENT STORAGE ZONE VOLUME CALCULATIONS:
1.2.1. VOLUME REQUIRED: 475 YD3
1.2.2. VOLUME PROVIDED: 1,773 YD3
1.2.3. PEAK ELEVATION: 1049.00
1.1. DEWATERING ZONE VOLUME CALCULATIONS:
1.1.1. VOLUME REQUIRED: 855 YD3
1.1.2. VOLUME PROVIDED: 4,112 YD3
1.1.3. PEAK ELEVATION: 1051.00
1.1.4. DEWATERING ORIFICE: 2.75-INCH
1.1.4.1. DIAMETER USED DURING CONSTRUCTION D = 2.75 INCH (SEE SKIMMER CALCULATIONS FOR MORE DETAIL)

CONSTRUCTION SEQUENCE

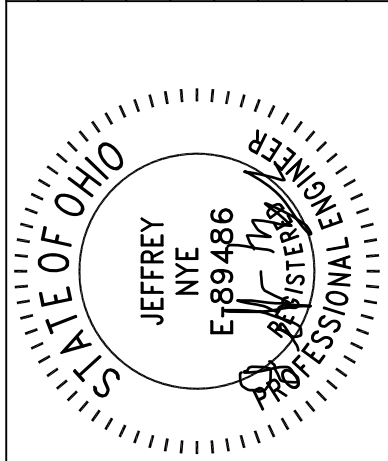
- 1. CONSTRUCT CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION AS SHOWN.
2. CONSTRUCT SWALE WITH TEMPORARY ROCK CHECK DAMS. CONSTRUCT SEDIMENT BASIN WITH SKIMMER.
3. DO NOT PERFORM ANY ADDITIONAL SOIL DISTURBING ACTIVITIES UNTIL ALL OF THE ABOVE ACTIVITIES HAVE BEEN COMPLETED.
4. INSTALL CONCRETE WASHOUT AREA PRIOR TO TAKING DELIVERY OF ANY CONCRETE.
5. GRADE SITE TO ACHIEVE PROPOSED GRADES
6. INSTALL STORM SEWER SYSTEM.
7. INSTALL INLET PROTECTION ON CATCH BASINS AS THEY ARE INSTALLED.
8. COMPLETE SITE CONSTRUCTION.
9. PERFORM THE FOLLOWING UPON ESTABLISHMENT OF SITE VEGETATION:
9.1. CLEAN AND JET STORM SEWER, CATCH BASINS AND OUTLET CONTROL SYSTEM.
9.2. REMOVE SILT FENCE, CONCRETE WASHOUT AREA, AND INLET PROTECTION.
9.3. EXCAVATE ALL ACCUMULATED SEDIMENT FROM DETENTION BASIN AND SWALE.
9.4. CLEAN-OUT OUTLET STRUCTURE, INLET PIPE, AND OUTLET PIPE.

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED.

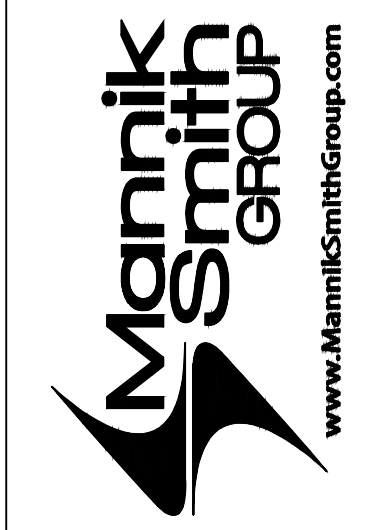
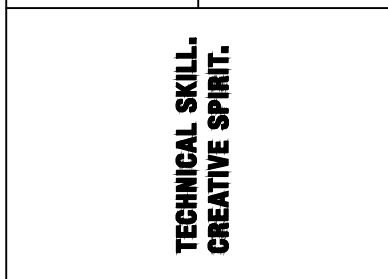
Denver Boling
PERSON OF RESPONSIBLE CHARGE
AS DEFINED IN PART V.G.1 OF THE OHIO EPA PERMIT NO. OH0C00006
DATE 11/08/24

Table with 4 columns: NO., DATE, BY, DESCRIPTION. Rows include construction submittal and construction submittal.



11/11/24

Table with 4 columns: NO., DATE, BY, DESCRIPTION. Rows include project details and drawing information.



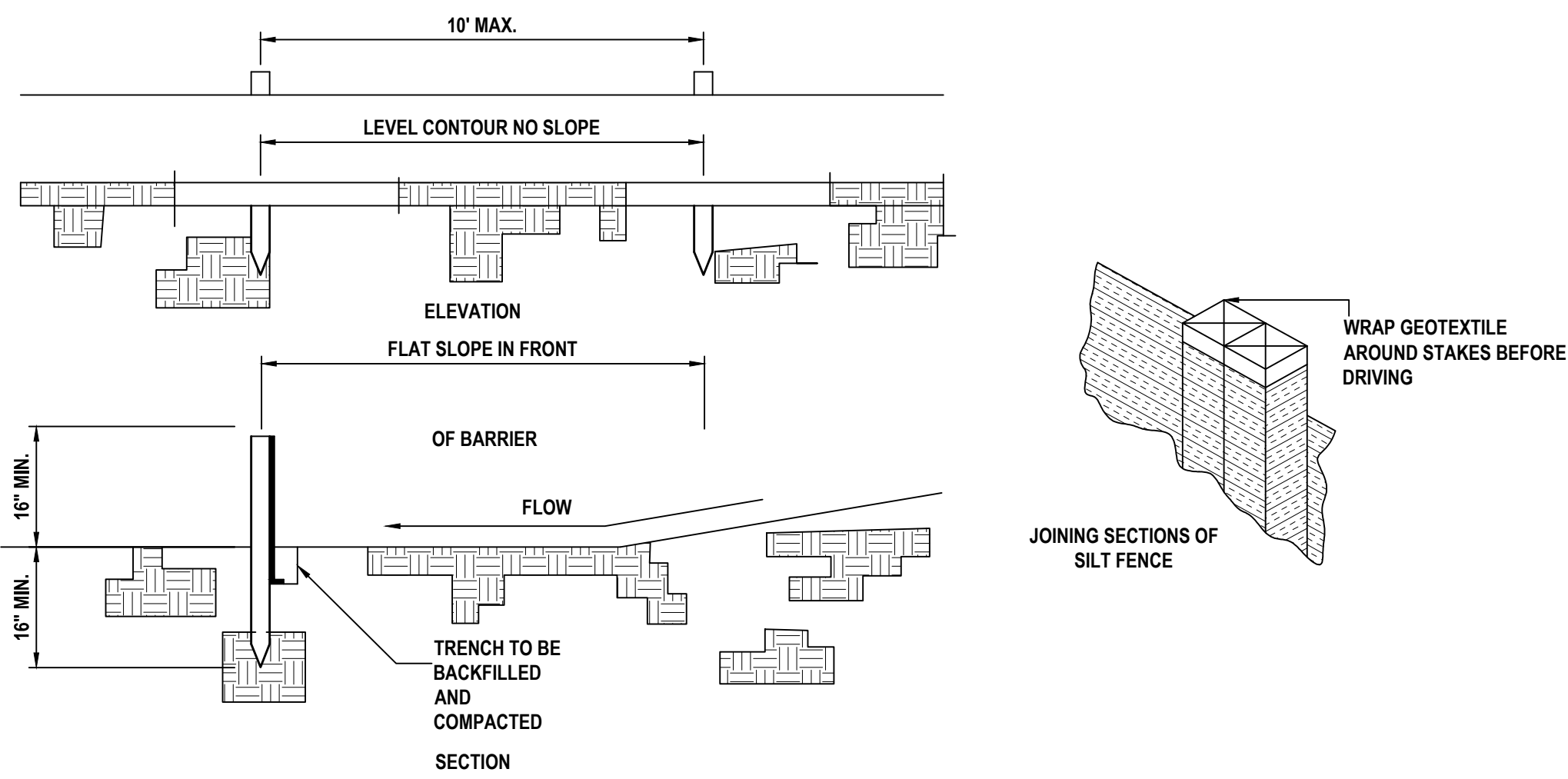
PREPARED FOR: OMICO BUILDING, LLC
3693 EAST ROYALTON ROAD
BROADVIEW HEIGHTS, OH 44147

CARTER POINT - MASS GRADING PLAN
ETNA TWP., OH

SWPPP NOTES

C403





- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS).
- MAINTENANCE-SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

**CRITERIA FOR SILT FENCE MATERIALS**

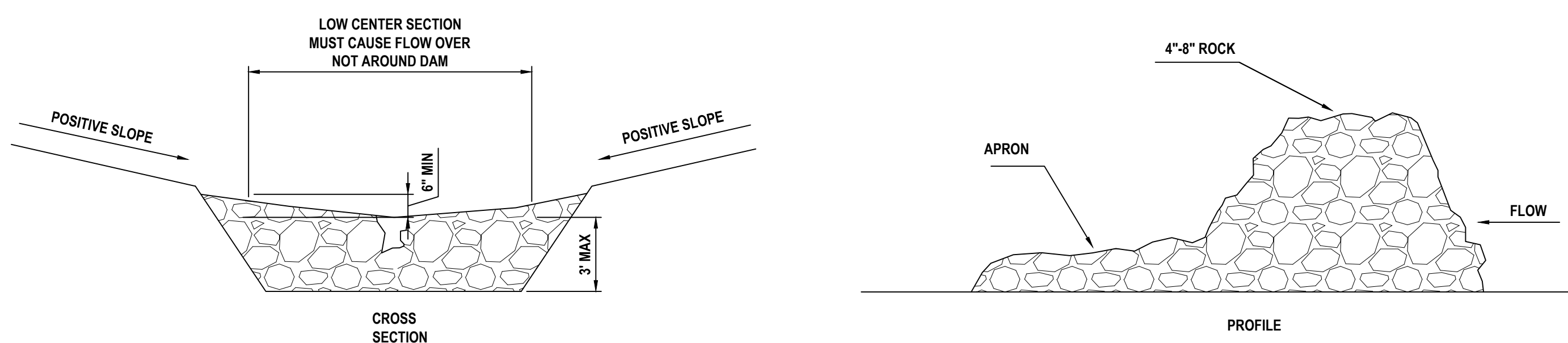
- FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- SILT FENCE FABRIC - SEE CHART BELOW.

TABLE 6.3.2 MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (1 80N)	ASTM D 4533
APPARENT OPENING SIZE	≤0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10 <sup>-2</sup> SEC.-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

**SILT FENCE**

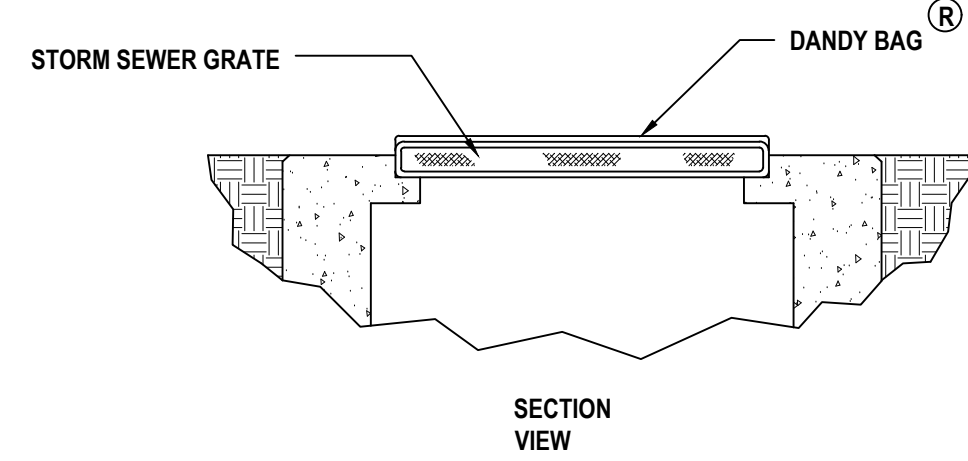
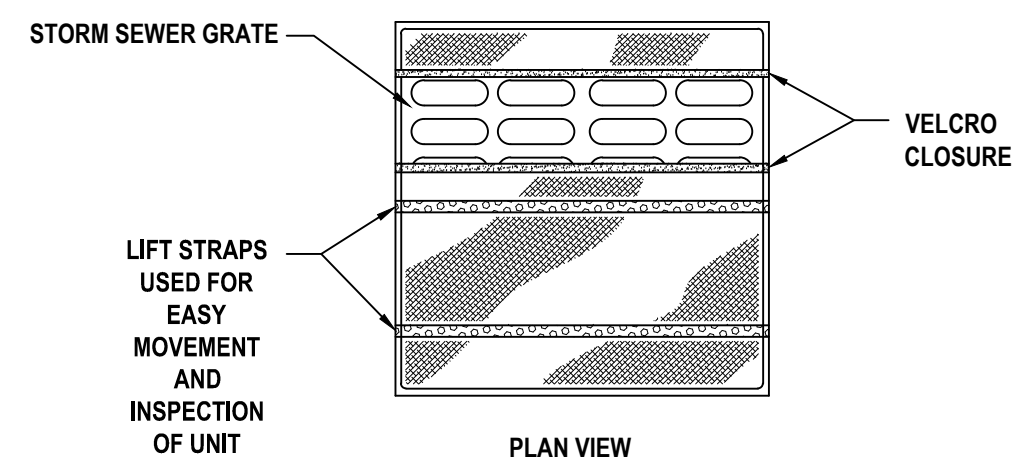
NOT TO SCALE



**NOTES:**

- THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT NO. 3 OR 4 OR SUITABLE FILTER FABRIC.
- MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
- THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
- THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.
- SPACING OF CHECK DAMS SHALL BE IN A MANNER SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
- A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 IN. THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
- STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.
- SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

**ROCK CHECK DAM**  
SCALE: N.T.S.



**DANDY BAG<sup>®</sup> SPECIFICATIONS**

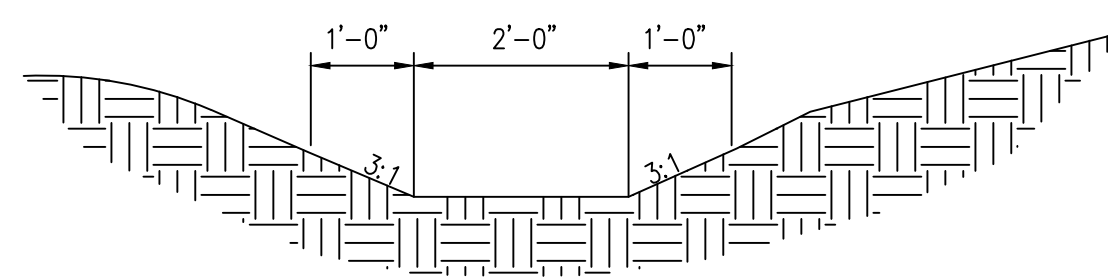
NOTE: THE DANDY BAG<sup>®</sup> WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

**HI-FLOW DANDY BAG<sup>®</sup> (SAFETY ORANGE)**

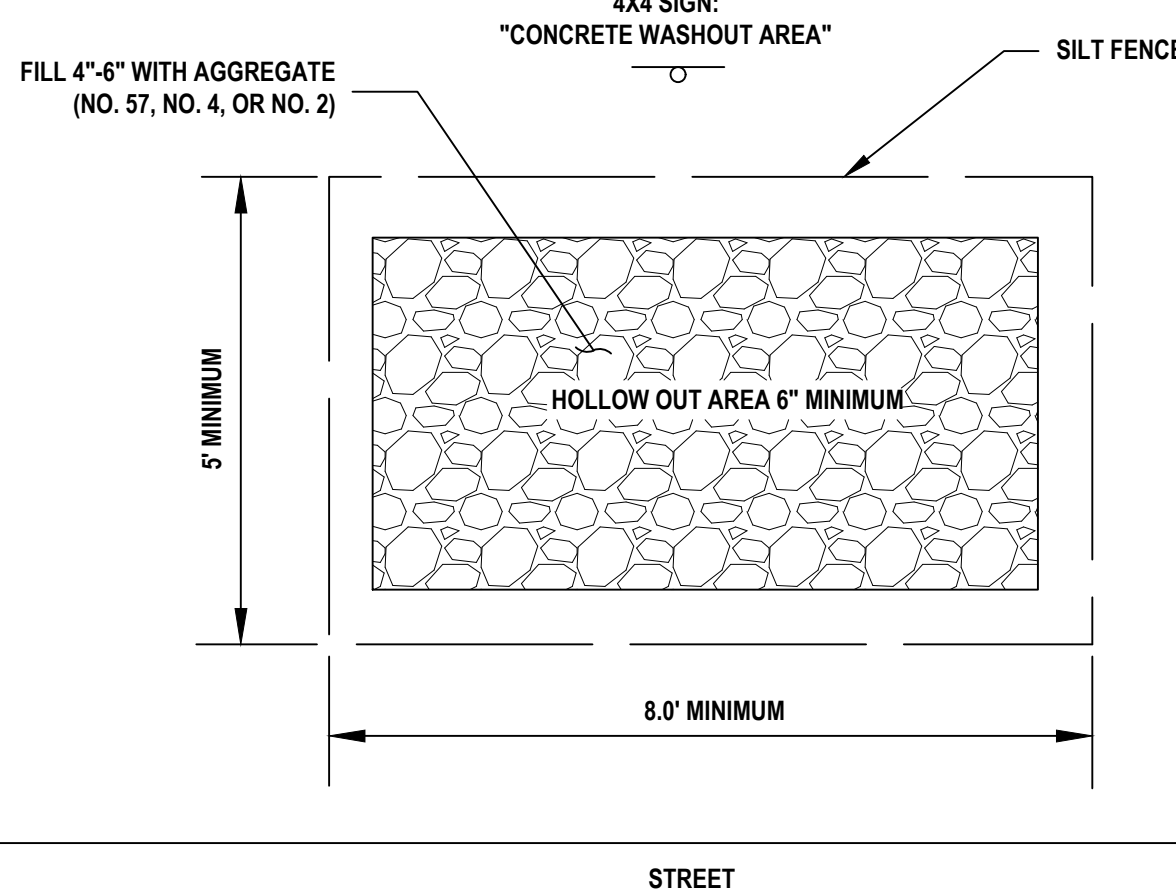
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/IN <sup>2</sup> (GAL/MIN/FT <sup>2</sup> )	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC.-1	2.1

\*NOTE: ALL DANDY BAGS CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

**DANDY BAG<sup>®</sup> INLET PROTECTION**  
SCALE: N.T.S.

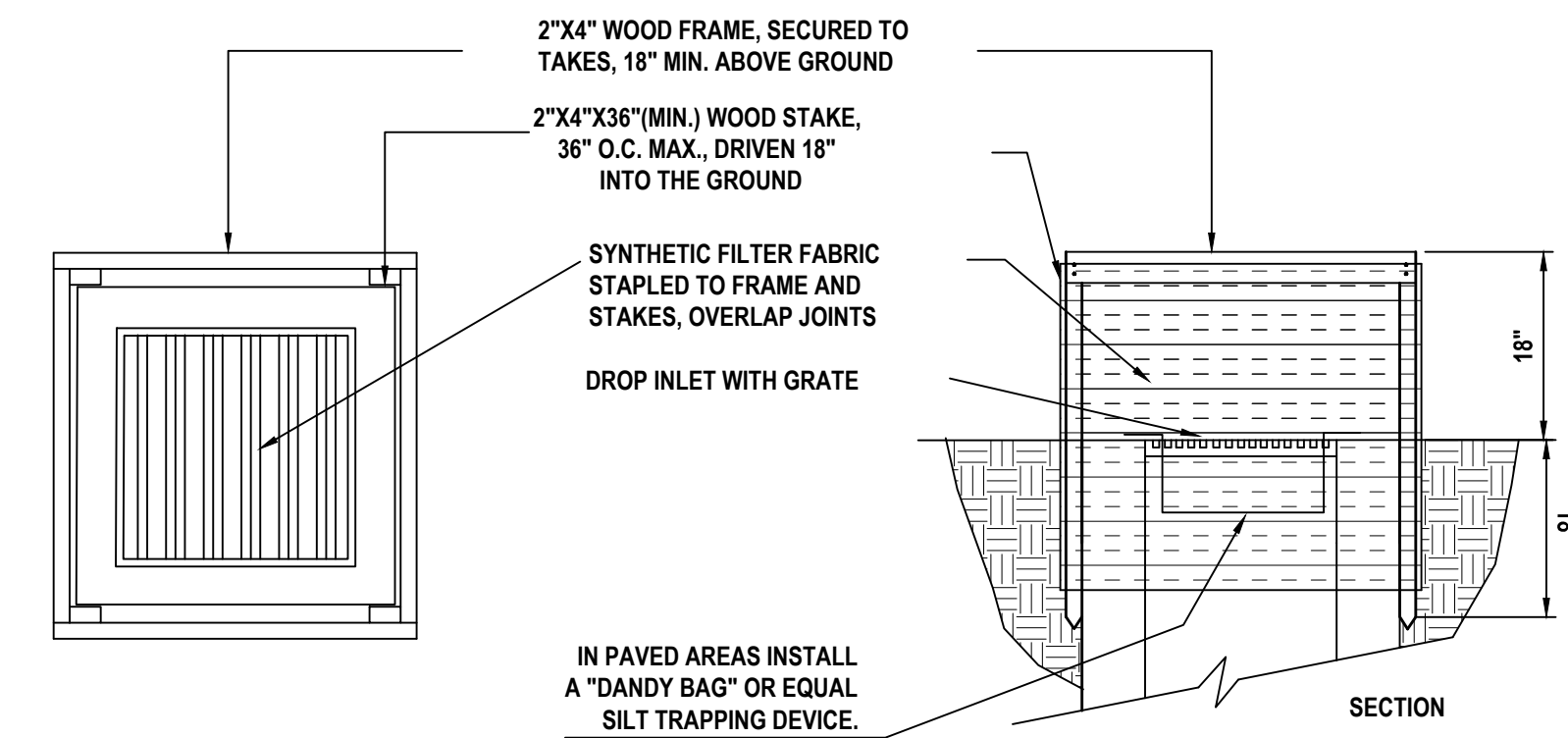


**CONCRETE WASHOUT AREA**  
SCALE: N.T.S.



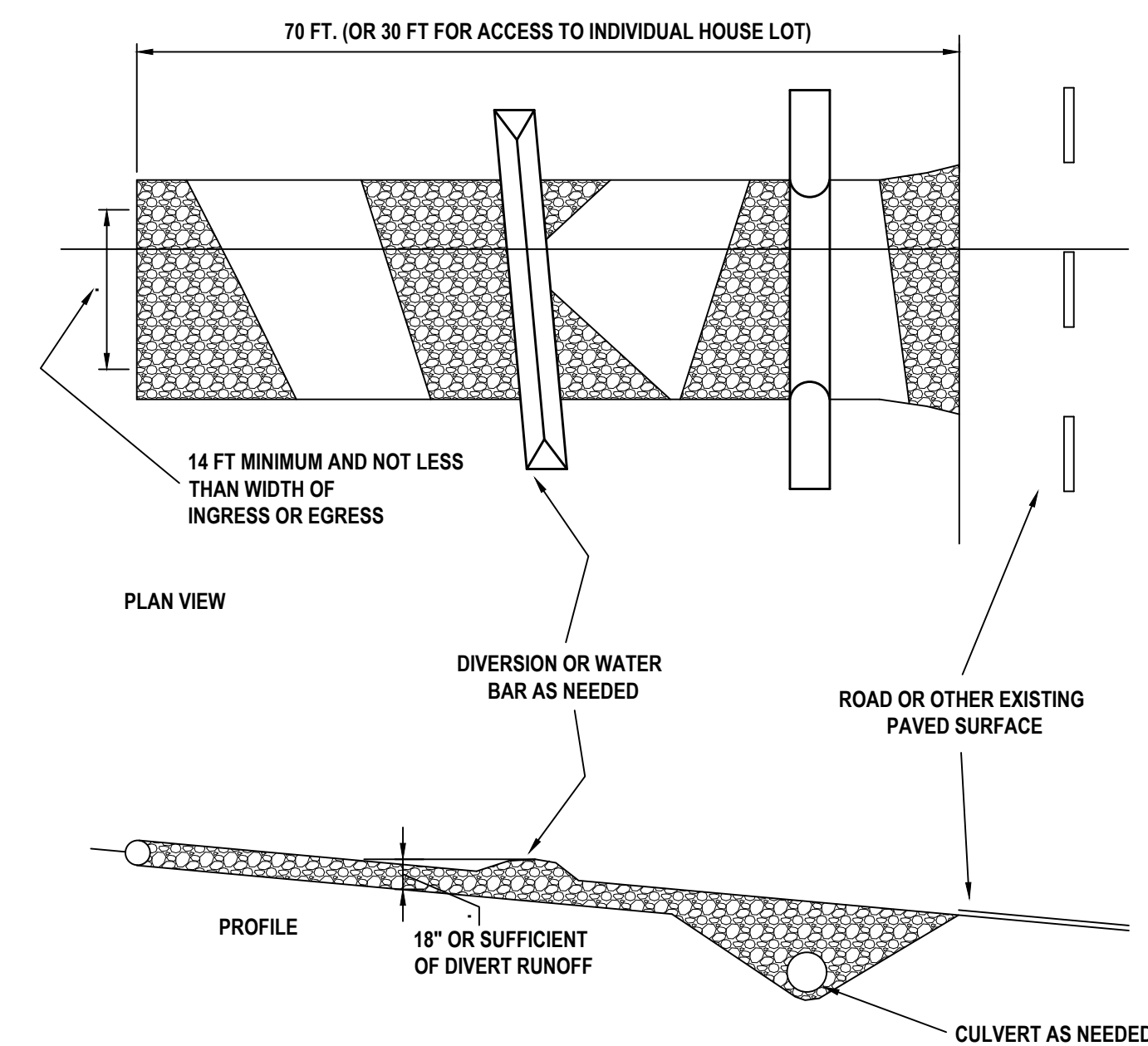
**NOTE:**

- THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE. THE CONTRACTOR SHALL SIZE THE CONCRETE WASHOUT PIT TO HANDLE HIS PROPOSED CONCRETE OPERATIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO WASHOUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. A GENERAL LOCATION FOR THE WASHOUT PIT IS SHOWN ON THE PLAN AND MAY BE MOVED TO BETTER FIT THE CONTRACTOR'S METHODS.
- LINE THE CONCRETE WASHOUT AREA WITH A NON-PERVIOUS LINER.



- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

**GEOTEXTILE INLET PROTECTION**  
SCALE: N.T.S.



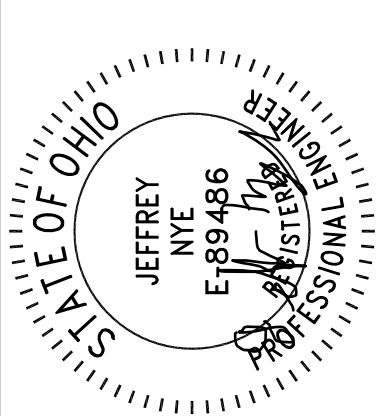
**NOTES:**

- STONE SIZE-ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH-THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS-THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES THICK FOR HEAVY DUTY USE.
- WIDTH-THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:  

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS-0.6MM.
PERMITTIVITY	1X10 <sup>-3</sup> CM/SEC.
- TIMING-THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR-A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE-TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL-THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

**CONSTRUCTION ENTRANCE**  
SCALE: N.T.S.

NO.	DATE	BY	DESCRIPTION
1	2/24/2013	JMM	CONSTRUCTION SUBMITTAL
2	2/24/2111	JMM	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
DRAWN BY: JMM  
CHECKED BY: JMM

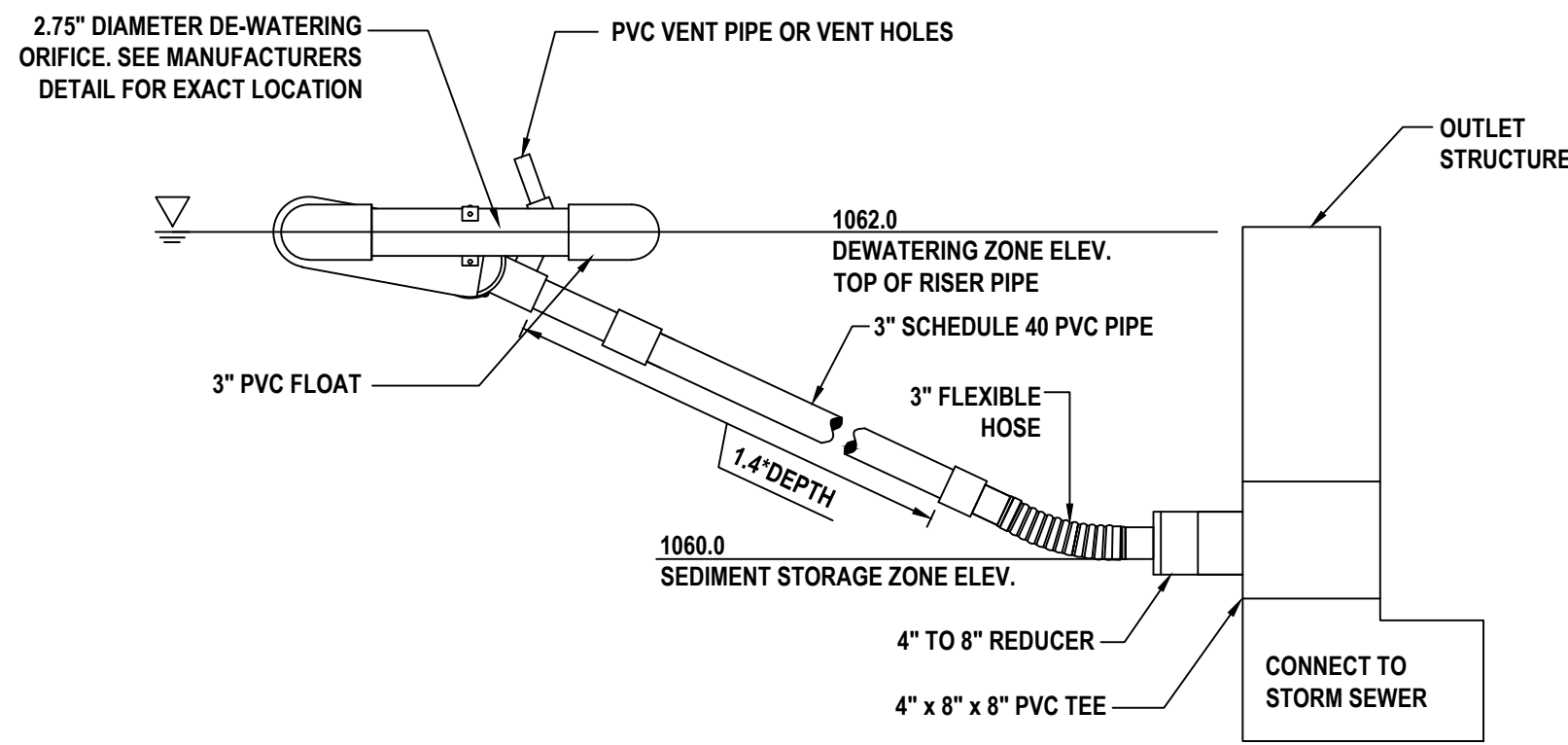
TECHNICAL SKILL.  
CREATIVE SPIRIT.

Mannik Smith GROUP  
www.MannikSmithGroup.com

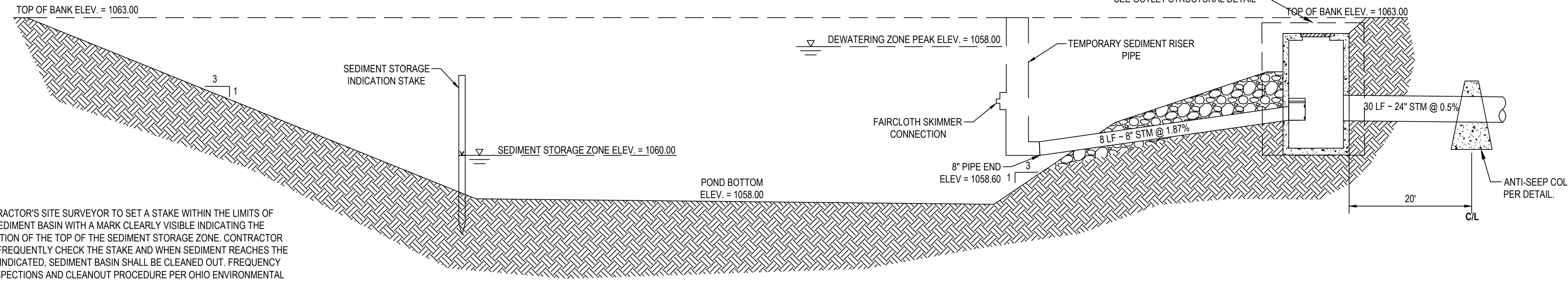
PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP., OH

SWPPP DETAILS

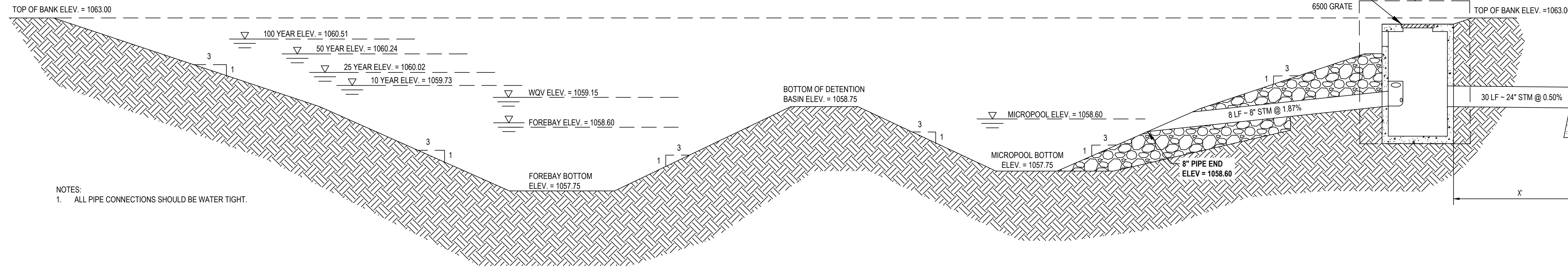


**NORTH (OCAT) BASIN - 3" FAIRCLOTH SKIMMER & RISER PIPE DETAIL**  
NOT TO SCALE



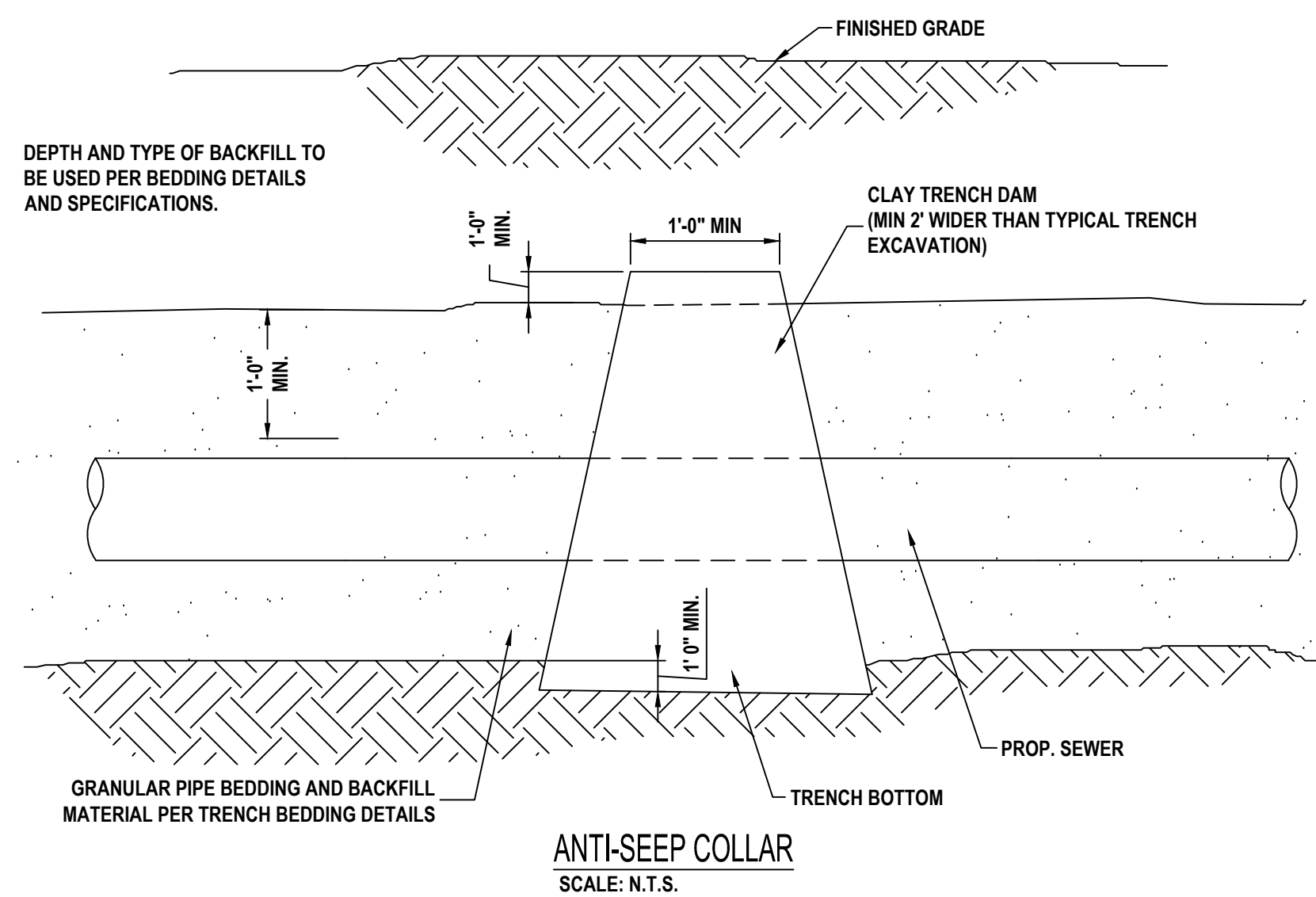
**NORTH (OCAT) TEMPORARY SEDIMENT BASIN DETAIL**  
SCALE: N.T.S.

- NOTE:**
- CONTRACTOR'S SITE SURVEYOR TO SET A STAKE WITHIN THE LIMITS OF THE SEDIMENT BASIN WITH A MARK CLEARLY VISIBLE INDICATING THE ELEVATION OF THE TOP OF THE SEDIMENT STORAGE ZONE. CONTRACTOR IS TO FREQUENTLY CHECK THE STAKE AND WHEN SEDIMENT REACHES THE MARK INDICATED, SEDIMENT BASIN SHALL BE CLEANED OUT. FREQUENCY OF INSPECTIONS AND CLEANOUT PROCEDURE PER OHIO ENVIRONMENTAL PROTECTION AGENCY RAINWATER AND LAND DEVELOPMENT MANUAL (LATEST EDITION) AND THE OEPA PERMIT OHC000006.
  - THIS SEDIMENT STORAGE INDICATION STAKE MAY BE REMOVED AT THE END OF SITE CONSTRUCTION ACTIVITIES.
  - ALL PIPE CONNECTIONS SHOULD BE WATER TIGHT.

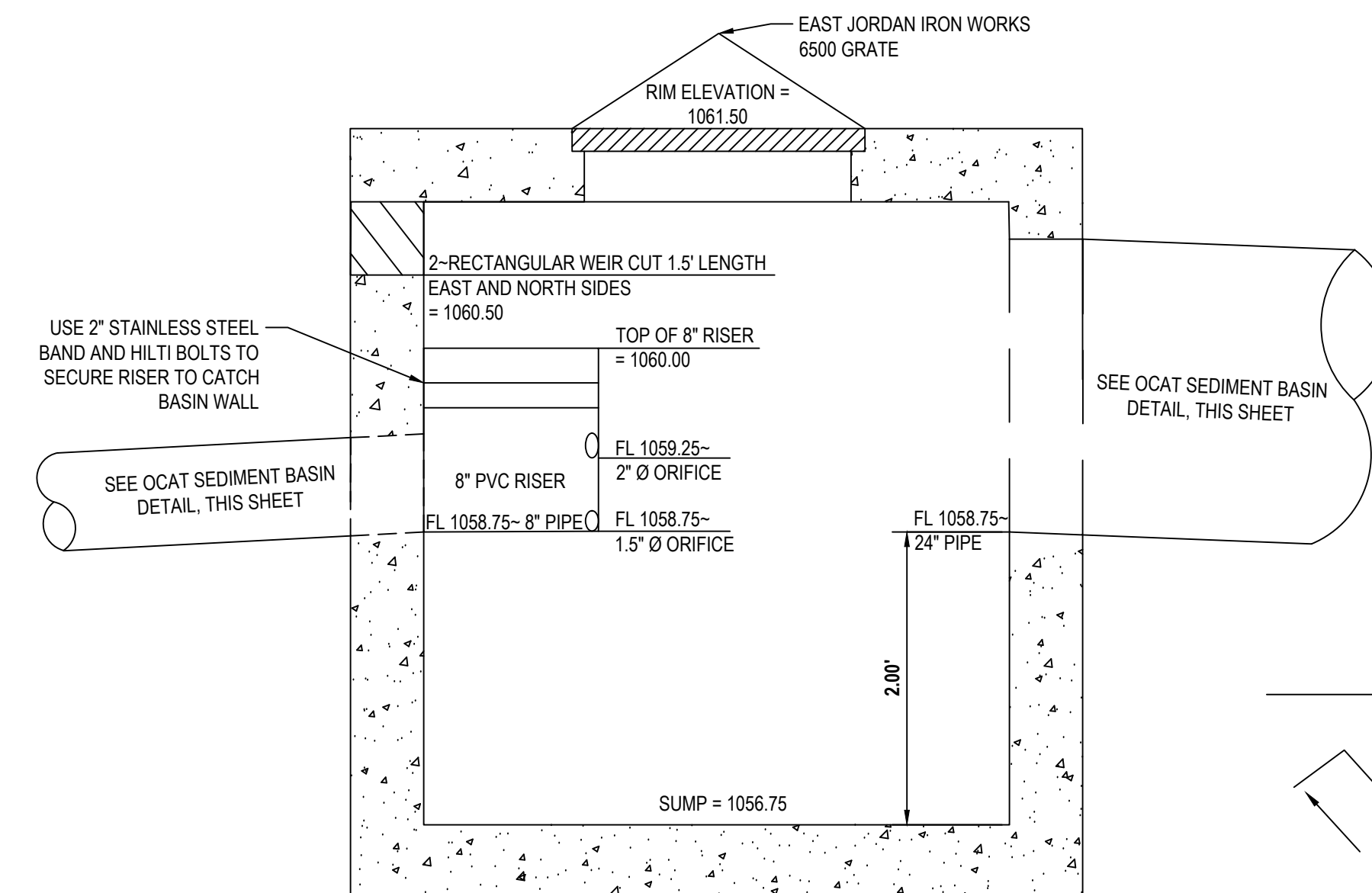


**NORTH (OCAT) POND DETENTION BASIN DETAIL**  
SCALE: N.T.S.

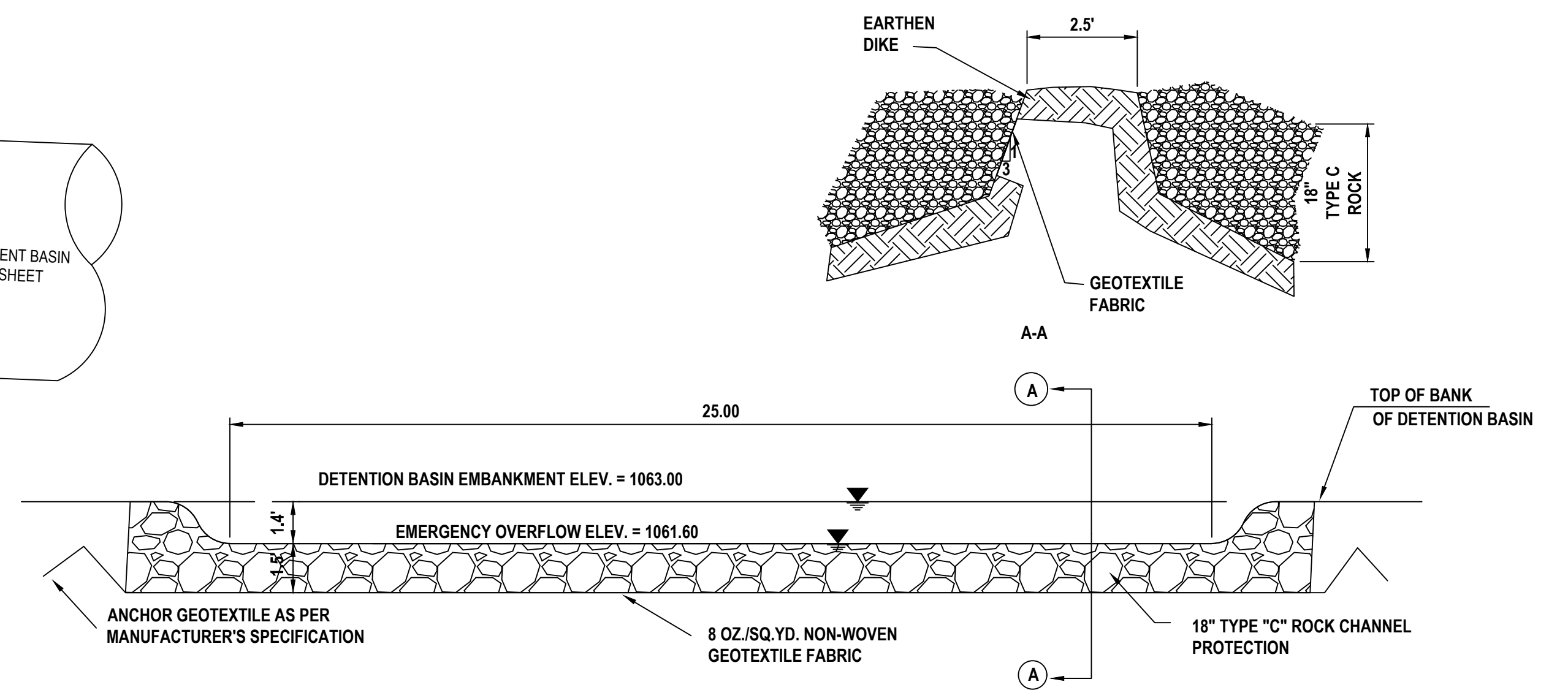
- NOTES:**
- ALL PIPE CONNECTIONS SHOULD BE WATER TIGHT.



**ANTI-SEEP COLLAR**  
SCALE: N.T.S.

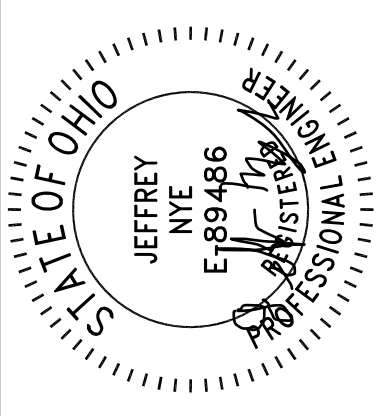


**NORTH (OCAT) POND OUTLET CONTROL STRUCTURE DETAIL**  
SCALE: 1" = 1'



**EMERGENCY SPILLWAY**  
SCALE: N.T.S.

NO.	DATE	BY	DESCRIPTION
1	1/20/24	JMN	CONSTRUCTION SUBMITTAL
2	1/20/24	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

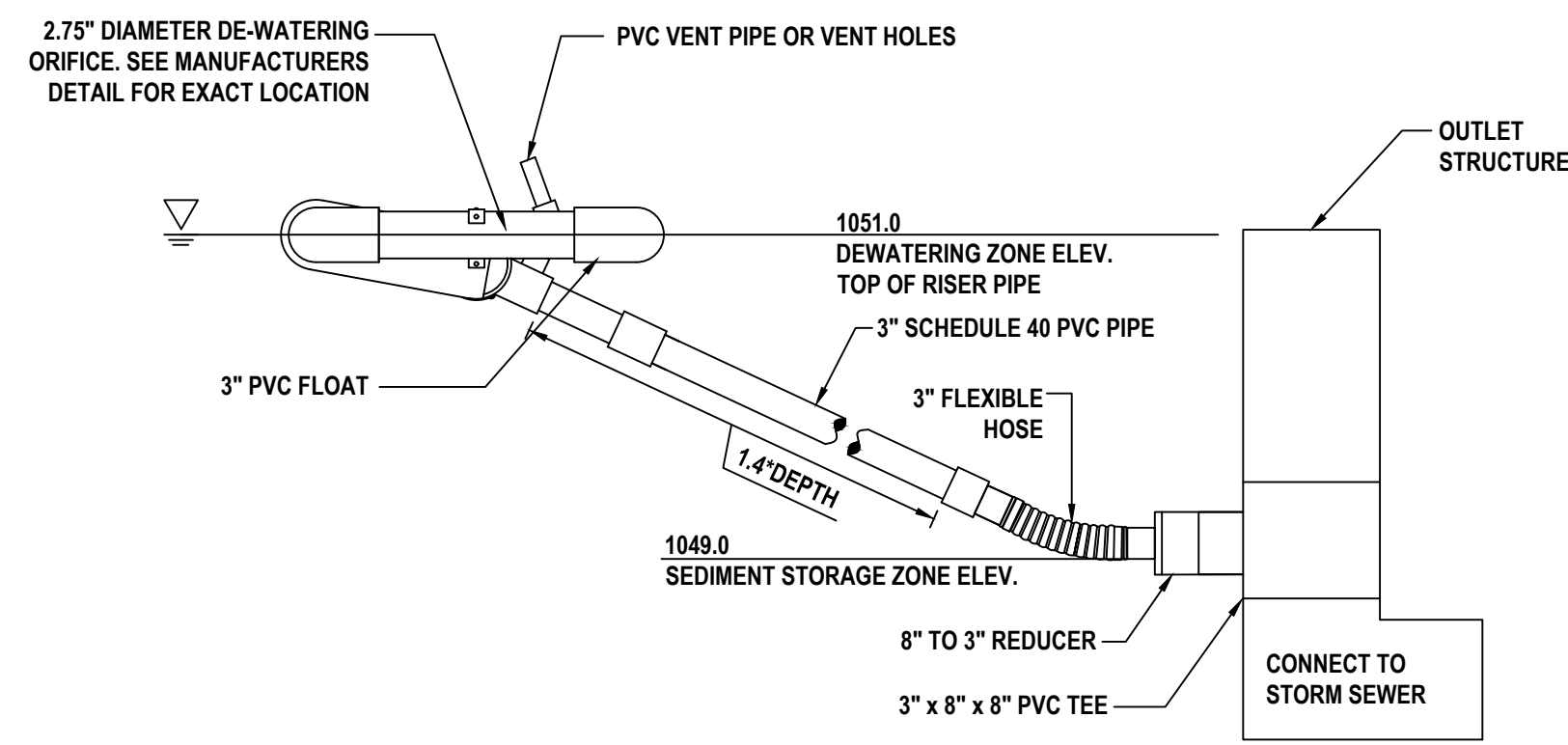


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

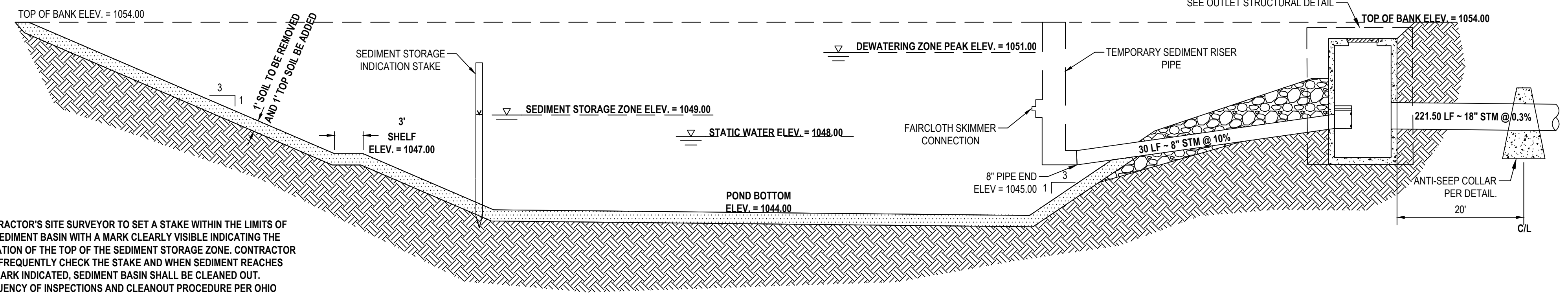
CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH

POND DETAILS - NORTH

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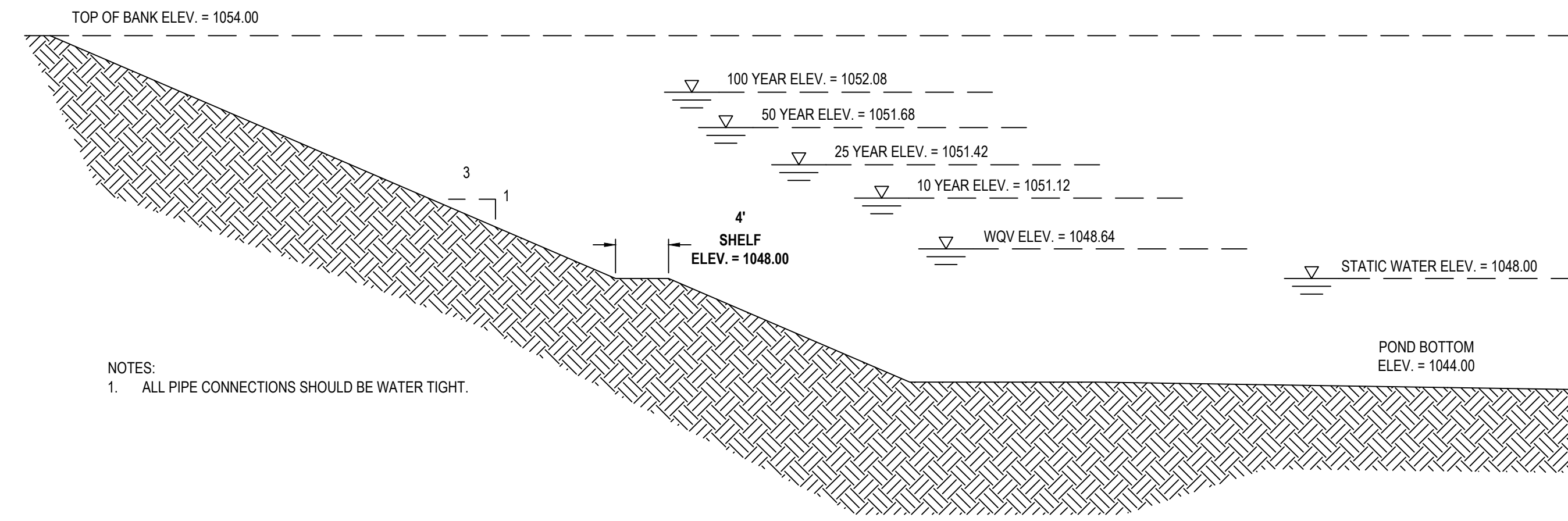


**SOUTH (PETERBILT) BASIN - 3\"/>**



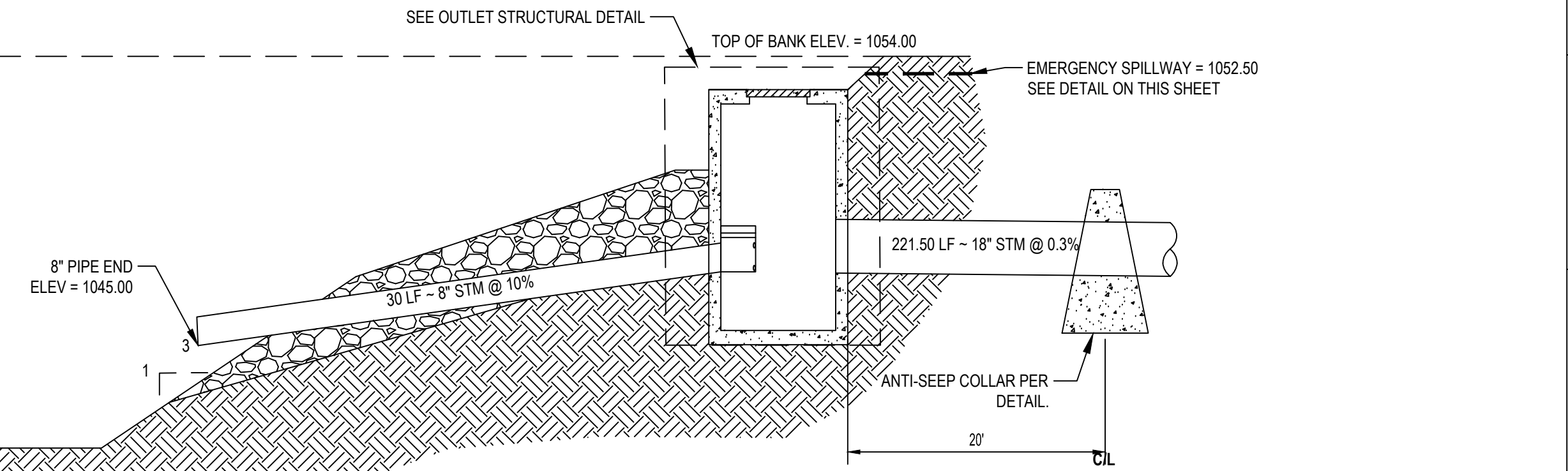
**SOUTH (PETERBILT) TEMPORARY SEDIMENT BASIN DETAIL**  
SCALE: N.T.S.

- NOTE:**
1. CONTRACTOR'S SITE SURVEYOR TO SET A STAKE WITHIN THE LIMITS OF THE SEDIMENT BASIN WITH A MARK CLEARLY VISIBLE INDICATING THE ELEVATION OF THE TOP OF THE SEDIMENT STORAGE ZONE. CONTRACTOR IS TO FREQUENTLY CHECK THE STAKE AND WHEN SEDIMENT REACHES THE MARK INDICATED, SEDIMENT BASIN SHALL BE CLEANED OUT. FREQUENCY OF INSPECTIONS AND CLEANOUT PROCEDURE PER OHIO ENVIRONMENTAL PROTECTION AGENCY RAINWATER AND LAND DEVELOPMENT MANUAL (LATEST EDITION) AND THE OEPA PERMIT OHC000006.
  2. THIS SEDIMENT STORAGE INDICATION STAKE MAY BE REMOVED AT THE END OF SITE CONSTRUCTION ACTIVITIES.
  3. ALL PIPE CONNECTIONS SHOULD BE WATER TIGHT.

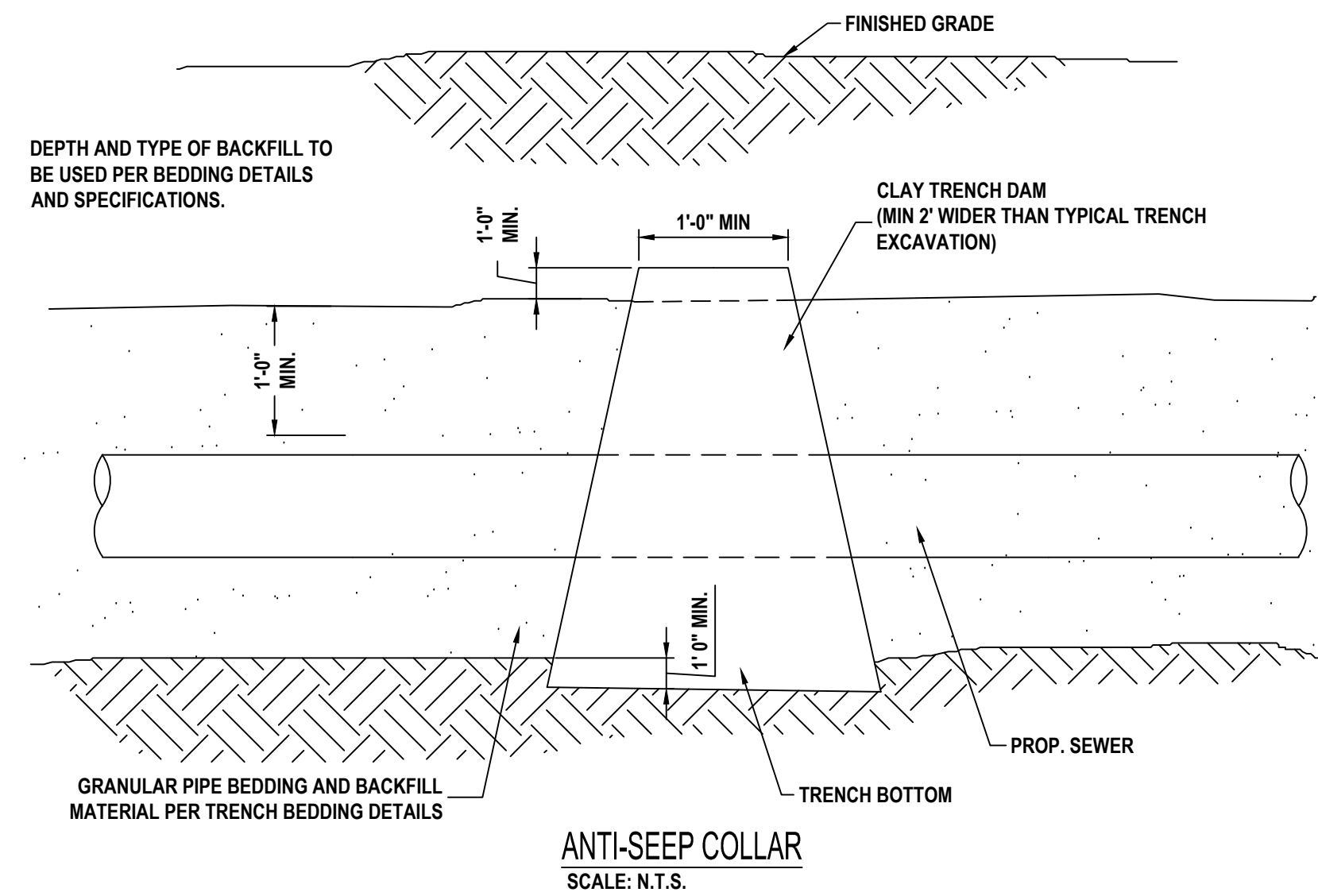
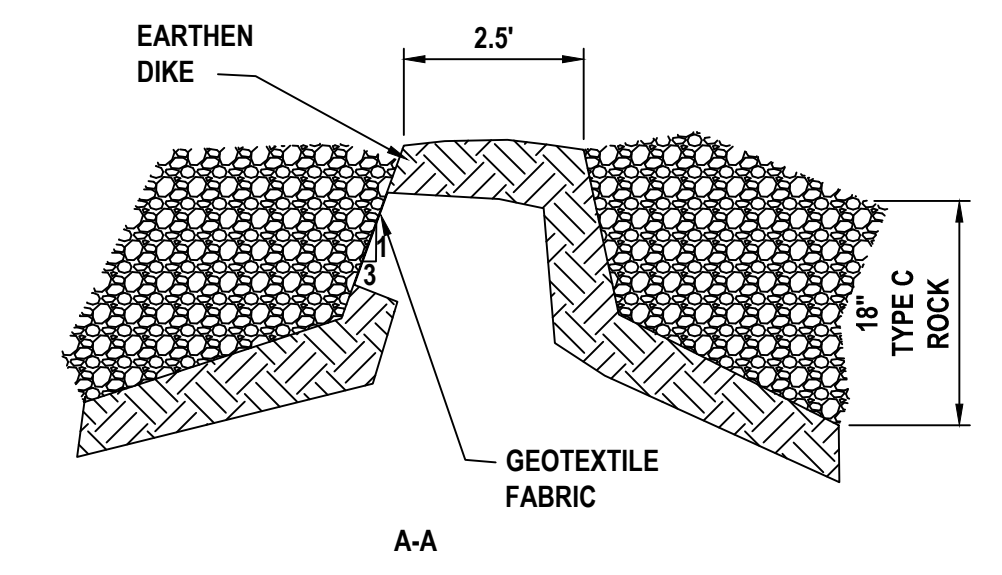


**SOUTH (PETERBILT) DETENTION BASIN DETAIL**  
SCALE: N.T.S.

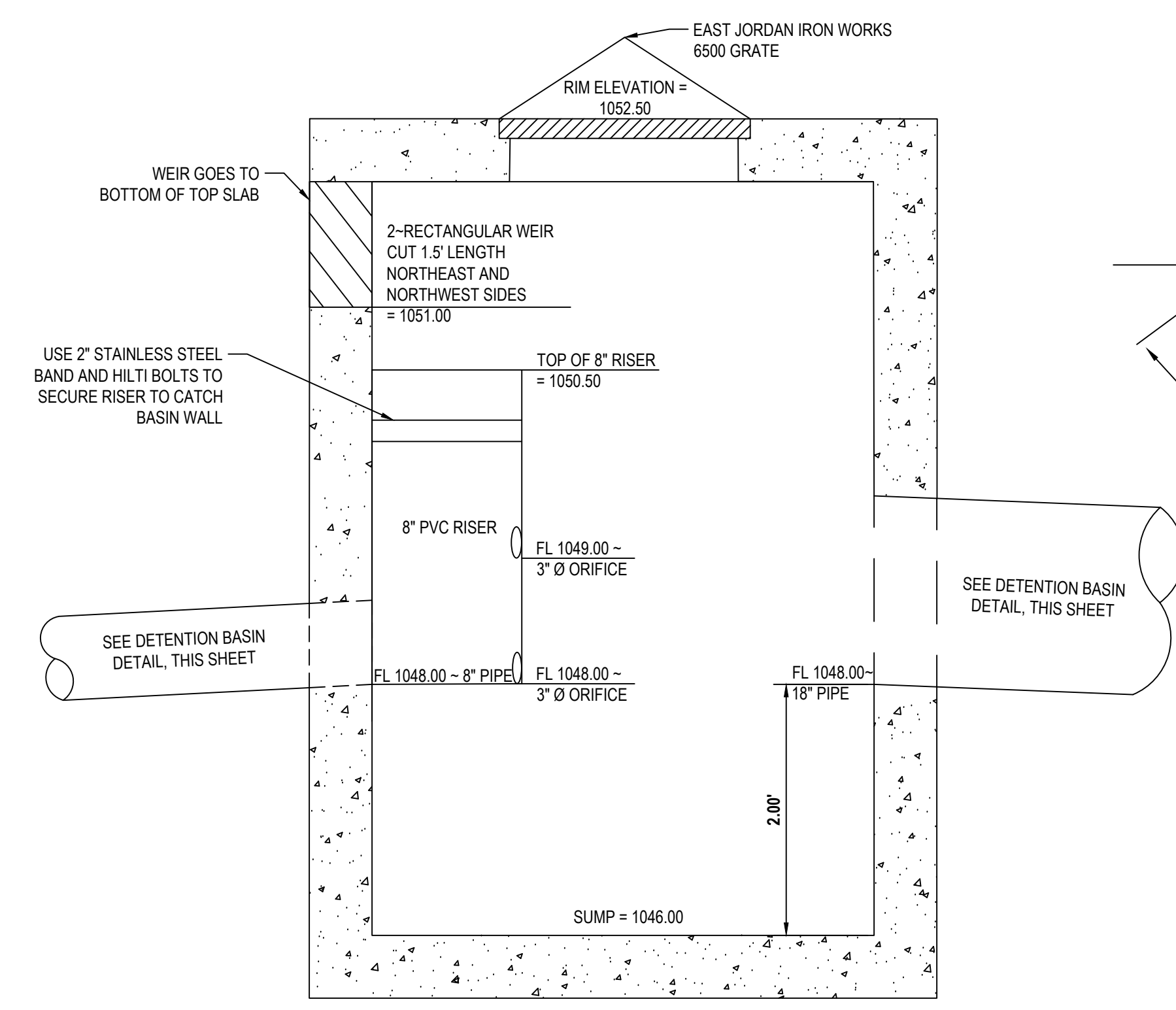
- NOTES:**
1. ALL PIPE CONNECTIONS SHOULD BE WATER TIGHT.



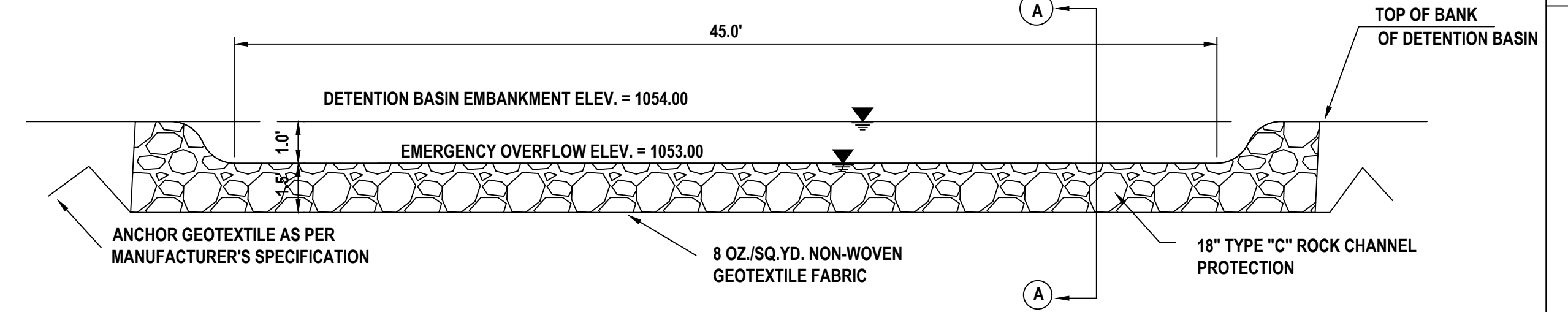
**EMERGENCY SPILLWAY**  
SCALE: N.T.S.



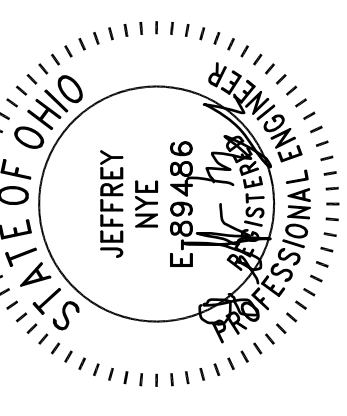
**ANTI-SEEP COLLAR**  
SCALE: N.T.S.



**SOUTH (PETERBILT) POND OUTLET CONTROL STRUCTURE DETAIL**  
SCALE: 1" = 1'



NO.	DATE	BY	DESCRIPTION
1	1/20/24	JMN	CONSTRUCTION SUBMITTAL
2	1/20/24	JMN	CONSTRUCTION SUBMITTAL



11/11/24

20600 CHAGRIN BLVD  
SUITE 500, SHAKER  
HEIGHTS, OH 44122  
TEL: 216.378.1490  
FAX: 216.378.1497  
PROJECT DATE: 05/09/2024  
PROJECT NO.: 2300610  
DRAWN BY: JMN  
CHECKED BY: MAS

**TECHNICAL SKILL:  
CREATIVE SPIRIT.**

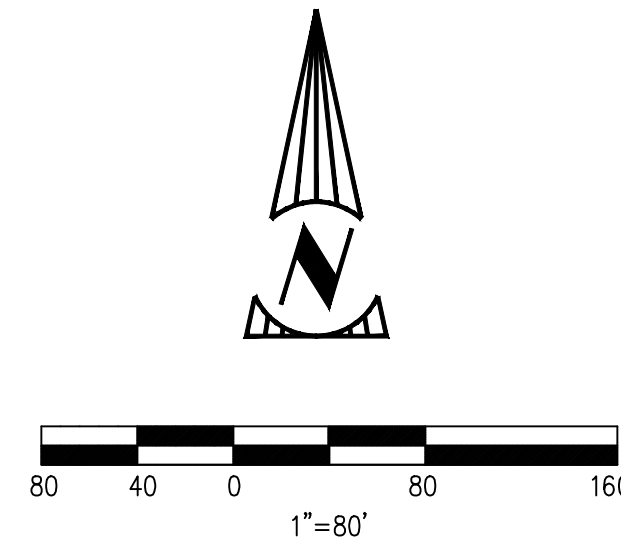
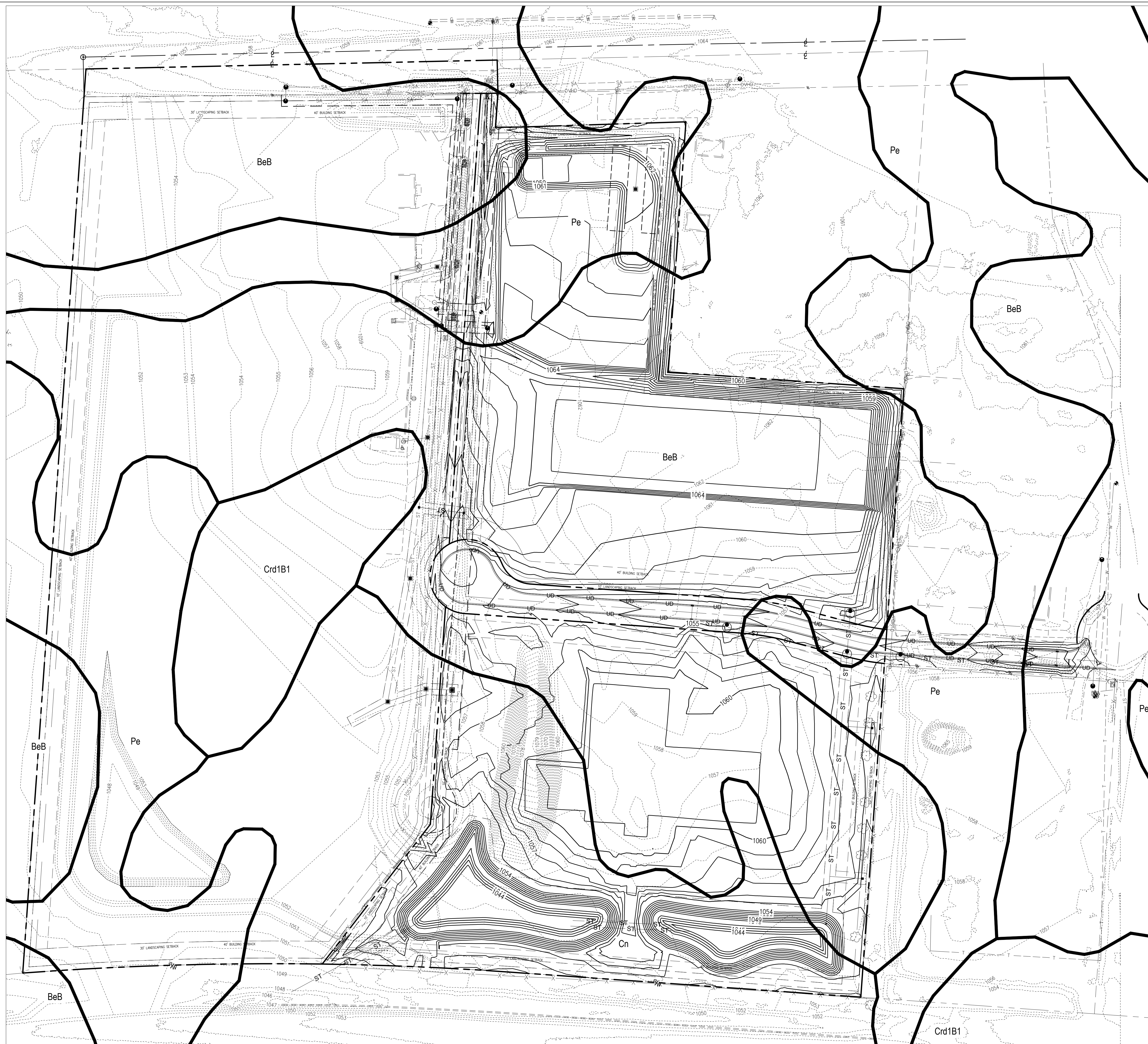


PREPARED FOR:  
OMCO BUILDING, LLC  
3893 EAST ROYALTON ROAD  
BROADVIEW HEIGHTS, OH 44147

**CARTER POINT -  
MASS GRADING PLAN  
ETNA TWP, OH**

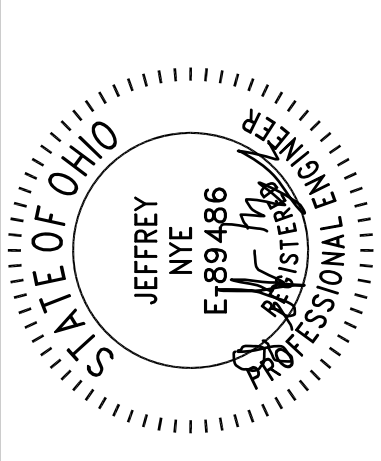
**POND DETAILS - SOUTH**

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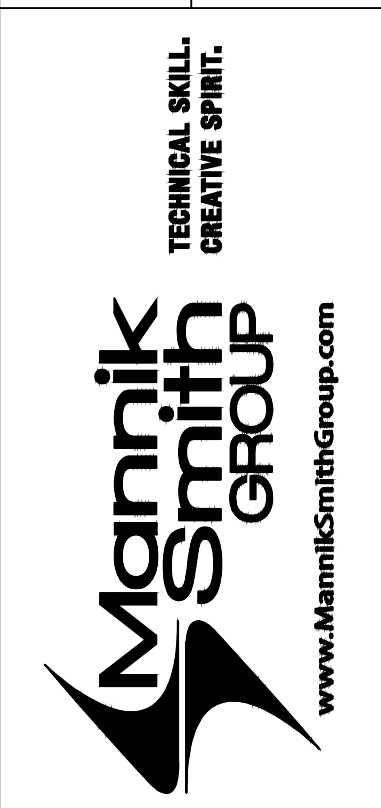


SOIL TYPES	
BeB	BENNINGTON SILT LOAM, 2 TO 6 PERCENT SLOPES
Cn	CONDIT SILT LOAM, 0 TO 1 PERCENT SLOPES
Crd1B1	CARDINGTON SILT LOAM, 2 TO 6 PERCENT SLOPES
Pe	PEWAMO SILTY CLAY LOAM, LOW CARBONATE TILL, 0 TO 2 PERCENT SLOPES

NO.	DATE	BY	DESCRIPTION
1	2/24/2019	JMN	CONSTRUCTION SUBMITTAL
2	2/24/2111	JMN	CONSTRUCTION SUBMITTAL



11/11/24  
 20600 CHAGRIN BLVD  
 SUITE 500, SHAKER  
 HEIGHTS, OH 44122  
 TEL: 216.378.1490  
 FAX: 216.378.1497  
 PROJECT DATE: 05/09/2024  
 PROJECT NO.: 2300510  
 DRAWN BY: JMN  
 CHECKED BY: MAS



PREPARED FOR:  
 OMCO BUILDING, LLC  
 3893 EAST ROYALTON ROAD  
 BROADVIEW HEIGHTS, OH 44147

CARTER POINT -  
 MASS GRADING PLAN  
 ETNA TWP, OH

SOIL MAP

C408