

Addendum 1

City of Canton, Ohio
Purchasing Department
218 Cleveland Ave. SW, 4th floor
Canton, Ohio 44702

Water Department Service Shop Addition and Renovation

Item/Project

Water Department

Responsible Department

2:00 PM, 4/4/2024

Bids Due

Bid Proposal Submitted By:

Company Name

Street Address

City

State

Zip

Contact Person

Phone No.

Email Address

This addendum is a modification of the Bid Document for the Work included for the above named project, and is hereby incorporated into and become a part of said Bid Document. It covers changes and clarification as follows:

REVISION/CLARIFICATION OF THE CONTRACT DOCUMENTS:

There has been an update to the Davis-Bacon prevailing wage rates for the Water Department Service Shop Addition and Renovation Project. The new wage rates are attached and these will replace the original rates included in the Invitation to Bid.

GENERAL INFORMATION

Question 1: What is the DBE goal for this project? The bid document lists two different goals.

Answer: The DBE goal for this project will be per the information contained within Appendix C WSRLA documentation which states: Goals - As a condition of receiving capitalization grants from U.S. EPA for the Water Pollution Control Loan Fund (WPCLF) and the Water Supply Revolving Loan Account (WSRLA), the Ohio EPA negotiates “fair share” Disadvantaged Business Enterprises (DBE) objectives with U.S. EPA. The current negotiated goals for construction related activities are 1.3% of all contracts to MBEs and 1.0% of all contracts to WBEs. Please disregard the 10% DBE goal as listed on page ITB-16.

Question 2: Is a maintenance bond required?

Answer: No. The bid guaranty and contract bond that is included in the original Invitation to Bid packet is what is required for this project. Upon project commencement, the bid guaranty and contract bond will automatically transfer into the performance bond for this project.

Question 3: I have read the PLA that a non-union prime contractor is able to bid this project although we have no union affiliation. Are we able to self-perform work on this project with our non-union labor?

Answer: The general answer is no, with two areas of exception depending on the work at issue or where the applicable craft’s union hall cannot meet a referral request.

1. Work that is outside the scope of the PLA. Exclusions are listed in **Article IV(2)**.
2. For work within the scope of the PLA, employer may self-perform where it cannot obtain manpower through the applicable local union referral procedure. Referral provisions are found in **Article VI**. For example, section 3 provides that where a local union with jurisdiction of the work has a job referral system, *each Contractor agrees to comply with such system, and the referral system shall be used exclusively by such Contractor, except as modified by this Article.*

Sections 4 and 5 explain the procedure for manning the project where referrals are unavailable through the appropriate union referral system. In these instances, the employer may hire employees from another source, but such employees must be dispatched through the appropriate union hall.

Question 4: The ITB page 3, Section D1.3 states that alternate number 2 for this project is...and nothing is after it. Are there 2 alternates on this project. If so, what is alternate 2.

Answer: There is only one alternate for this project.

SPECIFICATIONS

1. SPECIFICATION SECTION 08 36 13 – SECTIONAL OVERHEAD DOORS

- a. Revise Part I.1.C.1 – Tracks to be Standard Lift, in lieu of Vertical Lift.

DRAWINGS

1. DRAWING D-100 – HEAVY DUTY ASPHALT SECTION

- a. Add Heavy Duty Asphalt Pavement Section – See attached.

2. DRAWING D-1.1 – PARTIAL DEMOLITION PLAN – ADMINISTRATION AREA

- a. Add note to remove existing VCT and rubber base in Existing Lunch Room 121.

3. DRAWING A-1.2 – BRONZE PLAQUE

- a. Information on Bronze Plaque has been revised. See attached.

4. DRAWING A-2.1 – WALL TYPE LEGEND

- a. Wall Type F: Furring to be 7/8” light gauge steel furring channels at 16” on center.
- b. Wall Type G: Furring to be 7/8” light gauge steel furring channels at 16” on center.

5. DRAWING A-2.2 – PARTIAL FLOOR PLAN – EXISTING SERVICE SHOP

- a. Revise Structural Glaze Facing Tile Repair Note to read:
Clean all SGFT Walls free of scuffs and marks. Patch and repair all damaged locations (holes, broken surfaces, etc.) with materials and process by Conproco, as follows:
 - Clean and prepare damaged materials and surfaces as per manufacturer recommendations.
 - Fill all voids with either extruded polystyrene or expanding foam to provide a backup to apply repair mortar.
 - Repair and finish all locations with recommended system materials for Terra Cotta Repair as published by Conproco.See attached Conproco Terra Cotta Repair Bulletin.

6. DRAWING A-2.3 – PARTIAL FLOOR PLAN – NEW ADDITION

- a. Revise Section tag on West wall to be 4/A-5.2.

7. DRAWING A-2.4 – PARTIAL REFLECTED CEILING PLAN – ADMINISTRATION AREA and DRAWING A-2.6 – PARTIAL ROOF PLAN – EXISTING ROOF REPLACEMENT

- a. Clarification of replacement of damaged Roof Deck: Bidders shall include 200 SF of steel roof deck replacement in Base Bid.

8. DRAWING A-4.1 – RAMP DETAILS

- a. All guard and railing components are stainless steel. Omit notes that read “prime and paint”.
- b. Ramp Detail Plan RD/A-4.1: Revise elevation of intermediate landing to be 1063’-1”, in lieu of 1064’-4”.

9. DRAWING A-5.2 – WALL SECTIONS

- a. Revise Wall Section on left side of sheet to be labeled 5/A-5.2.

10. DRAWING A-6.1 – DOOR SCHEDULE

- a. Door 119: Omit Closer.
- b. Doors 124A, 124D, 124F, 124G: These are existing sectional overhead doors and are to be replaced. The note “Existing Frame to Remain” is referring to the steel structural frame system at each opening. Revise Note 6 to read: “Remove existing sectional overhead door, track and associated components. Salvage electric operator for re-installation. Furnish and install new sectional overhead door, track and associated components. Complete installation by re-installation of existing electric door operator system.”

11. DRAWING A-6.1 – ROOM FINISH SCHEDULE

- a. Revise the following finishes:
 1. Lobby 101: Revise walls to be Gypsum Drywall, in lieu of CMU.
 2. Dispatch 102: Revise walls to be Gypsum Drywall, in lieu of CMU.
 3. Service Administration 104: Revise walls to be Gypsum Drywall, in lieu of CMU.
 4. Janitor 119: Existing Floor to Remain.
 5. Lunch Room 121: Revise Base to be 4” Cover Rubber Base, in lieu of “Existing to Remain”.
 5. Repair Shop 125: Omit 4” Coved Rubber Base.
 6. Wash Bay 126: Omit 4” Coved Rubber Base.
 7. Equipment 127: Omit 4” Coved Rubber Base.
 8. Service Shop Addition 128: Omit 4” Coved Rubber Base.
- b. Clarification of Room Finish Schedule Notes:

Note 1: Prior to painting the existing CMU walls, repair the stepped cracks in CMU with “Sikadur” Structural Epoxy Crack Fix or equivalent. Remove dirt prior to application of Epoxy Crack Fill. Apply epoxy until crack is completely filled. Quantity: 200 LF

Note 2: See Item 5 Above. Quantity: Approximately (50) Spot Locations of various sizes.

Note 3: Clean and paint all existing and new exposed surfaces of CMU, Structural Steel Columns, Beams, Roof Joists, and Steel Roof Deck.

Note 4: To be clarified via Addendum 2.

Note 5: Locations of mosaic floor tile replacement are indicated on the drawings. Each area can be scaled accurately.

Note 6: Joist repair is for surface rust of Joists. Locations are in vicinity of existing roof drains.

Note 7: No clarification. Repairs limited to simple blemishes similar to drywall surfaces.

Note 8: Revise to read: Clean and Paint existing rails of the existing ramps.

Note 9: See Addendum Item 5 above, and Note 1 Clarification above.

Note 10: Locations of mosaic floor tile replacement are indicated on the drawings. Each area can be scaled accurately.

12. DRAWING S-1.3A – ROOF FRAMING PLAN - EXISTING

- a. Clarification: Revise Roof Deck Infill shown for (10) locations to be for each location where skylights are indicated to be removed and infilled. There is a total of (28) locations on the existing roof. See Drawing A-2.6 Partial Roof Plan – Existing Roof Replacement.

13. DRAWING P-3.3 – PLUMBING EQUIPMENT AND DRAIN SCHEDULE

- a. Revise Frostproof Wall Hydrant FWH-1 to be

14. DRAWING FP-2.1 – AUTOMATIC SPRINKLER SYSTEM RISER DIAGRAM

- a. BFP-2 shall be Double Check Detector Check in accordance with ASSE Standard 1048.

15. DRAWING E-2.2 – PARTIAL MAIN LEVEL POWER PLAN – EXISTING SERVICE SHOP

- a. Revise note referring to Alternate for power for lift. EC shall furnish and install in Base Bid.

PRODUCT SUBMITTAL FOR SUBSTITUTION

1. Specification Section 28 46 21 – Potter is an approved substitution to specified manufacturers Tyco and Honeywell.

END OF ADDENDUM NO. 1

Water Department Service Shop Addition and Renovation

Pre-Bid Meeting - Thursday, March 14, 2024 at 1:00pm

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE NUMBER</u>	<u>EMAIL ADDRESS</u>
Kathryn Wise	City of Canton	330-438-4185	kathryn.wise@cantondio.gov
Brent Burrier	" "	330-438-6569	brent.burrier@cantondio.gov
Tyler Converse	" "	330-438-6574	tyler.converse@cantondio.gov
Richard Shortz	SET INC	330-219-9840	Richard@SETTING.BIZ
MIKE ABBOTT	ABBOTT ELECTRIC	330-452-6601	MIKEAC@ABBOTTELECTRIC.COM
Tony Petrison	Forest city Erectors	330-324-9746	T.Petrison@forestcityerectors.com
Aaron Riley	Forest-City Erectors	330-206-2654	ariley@forestcityerectors.com
Sean Finnimore	Forest City Erectors	330-340-2616	Sfinnimore@ForestCityErectors.com
TIM BLANDFORD	SEIDENSKY FORCE	330-495-7412	TIM.BLANDFORD@SEIDENSKYFORCES.COM
Row Stoberg	Hilscher-Clarke Elec.	330-958-0646	ROW.STOBERG@HILSCHEK-CLARKE.COM
Ernest Boardley	Selinsky Force	330-705-3097	E.Boardley@SelinskyForce.com
Steve Miller	Stanley Miller	330.484.2229	Steve.Miller@SmillerConst.com
CHAD DAVIDSON	CBC	330-753-6658	BIDS@CAVANAUGHBUILDING.COM
Josh Strader	CBC	" "	" "
Michael Miller	Action Contractors	440-318-5986	m.miller@actioncontractor.com
SHANE SEXTON	WAYNE DOOR	330-204-6937	SHANE@WAYNE DOOR.COM
Brendan P. PPR	TH MARTIN	330-933-1003	TH.MARTIN@THMARTIN.MPT
JAY KESTER	MCC	330-651-0901	J.KESTER@MIKECOESCONSTRUCTION.COM
Mike Haddie	MCC	330 652 0190	m.haddie@mikecoesconstruction.com

DAVID PATTERSON MOTTEN & MEADOWS 330 454-6165
 in a 10 min. he wants construction.com
 d.patterson@mottenmeadows.com
 Dylan Peoples
 1.1.2024

"General Decision Number: OH20240106 03/08/2024

Superseded General Decision Number: OH20230106

State: Ohio

Construction Type: Building

Counties: Carroll and Stark Counties in Ohio.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be

adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/05/2024
1	01/26/2024
2	03/08/2024

ASBE0002-003 08/01/2023

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 42.40	28.93

BROH0006-003 05/01/2022

	Rates	Fringes
BRICKLAYER.....	\$ 30.76	19.07

BROH0006-008 05/01/2022

	Rates	Fringes
TILE SETTER.....	\$ 30.76	19.07

BROH0008-007 06/01/2022

	Rates	Fringes
TILE FINISHER.....	\$ 24.16	16.11

CARP0285-007 05/01/2023

	Rates	Fringes
CARPENTER (Drywall Hanging and Metal Stud Installation Only).....	\$ 31.36	22.16

* ELEC0540-001 08/28/2023

	Rates	Fringes
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 25.15	17.44

* ELEC0540-008 01/01/2024

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 36.96	28.18

ENGI0018-035 05/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR Backhoe/Excavator/Trackhoe..	\$ 35.89	15.09

ENGI0066-045 06/01/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR Forklift.....	\$ 28.87	19.66
Grader/Blade.....	\$ 32.42	19.66
Mechanic.....	\$ 32.92	19.66

IRON0550-010 05/01/2023

	Rates	Fringes
IRONWORKER (Ornamental, Reinforcing and Structural).....	\$ 33.00	22.27

LAB01015-006 05/01/2023

	Rates	Fringes
LABORER Common or General.....	\$ 31.52	12.65
Mason Tender - Brick.....	\$ 33.52	12.65

PAIN0841-003 06/01/2023

	Rates	Fringes
PAINTER (Brush and Roller).....	\$ 30.18	15.50

PAIN1162-003 05/01/2023

	Rates	Fringes
GLAZIER.....	\$ 29.37	14.39

PLUM0094-007 05/01/2023

	Rates	Fringes
PLUMBER (Includes HVAC Unit Installation).....	\$ 38.03	23.09

PLUM0168-005 05/01/2016

	Rates	Fringes
PIPEFITTER (Excludes HVAC Unit Installation).....	\$ 34.53	17.49

ROOF0088-003 06/01/2023

	Rates	Fringes
ROOFER.....	\$ 30.07	21.26

SHEE0033-027 06/01/2023

	Rates	Fringes
SHEET METAL WORKER (HVAC Duct Installation Only).....	\$ 34.90	30.49

* UAVG-OH-0021 01/01/2019

	Rates	Fringes
OPERATOR: Oiler.....	\$ 27.56	16.37

* UAVG-OH-0023 01/01/2019

	Rates	Fringes
LABORER: Mason Tender - Cement/Concrete.....	\$ 29.55	10.90

SUOH2012-108 08/29/2014

	Rates	Fringes
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CARPENTER, Excludes Drywall Hanging, and Metal Stud Installation.....	\$ 24.30	10.71
CEMENT MASON/CONCRETE FINISHER...	\$ 26.07	12.34
LABORER: Pipelayer.....	\$ 23.98	8.58
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 30.26	12.58
OPERATOR: Bulldozer.....	\$ 22.55	8.03
OPERATOR: Crane.....	\$ 29.51	11.77
OPERATOR: Loader.....	\$ 29.66	12.61
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 30.28	13.29
OPERATOR: Roller.....	\$ 28.83	12.72
PAINTER: Spray.....	\$ 22.78	12.40
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 34.16	0.00
TRUCK DRIVER: Dump (All Types)...	\$ 22.78	12.61

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information

on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and

non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

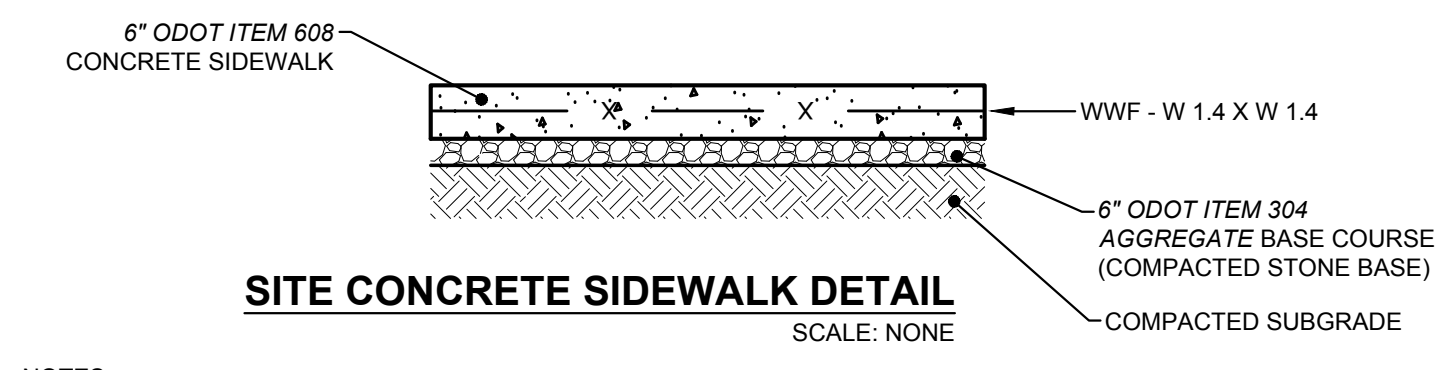
4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

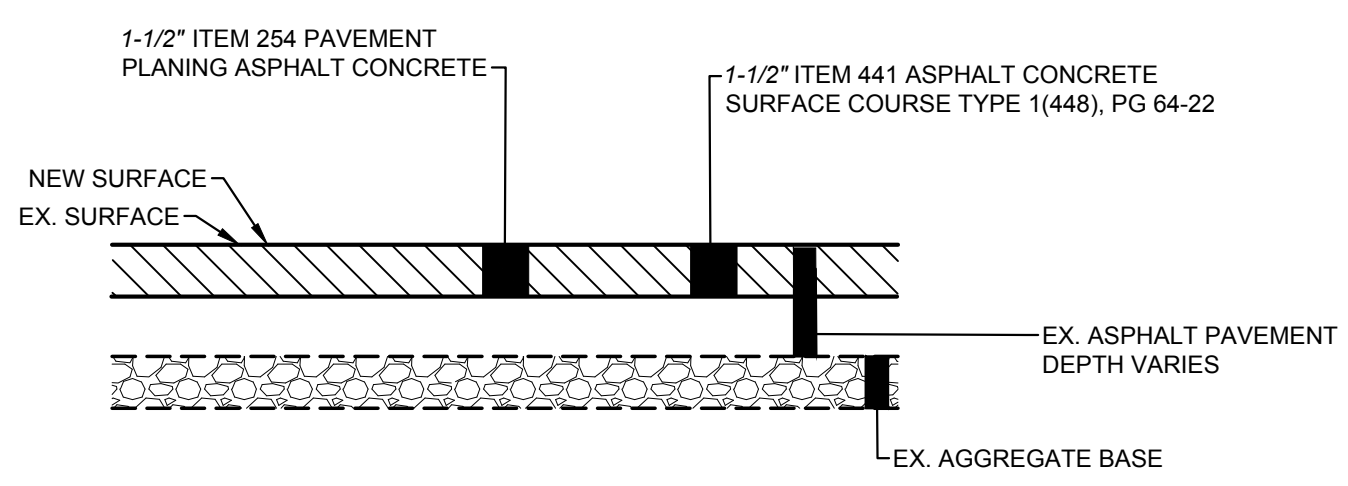
600 MARKET AVENUE NORTH CANTON OHIO 44702
MOTTER & MEADOWS ARCHITECTS
GARAGE ADDITION WATER DEPARTMENT SERVICE CENTER
 2664 HARRISBURG RD. NE CANTON, OHIO

REVISIONS:
 01 ADDENDUM #1 03-18-2024



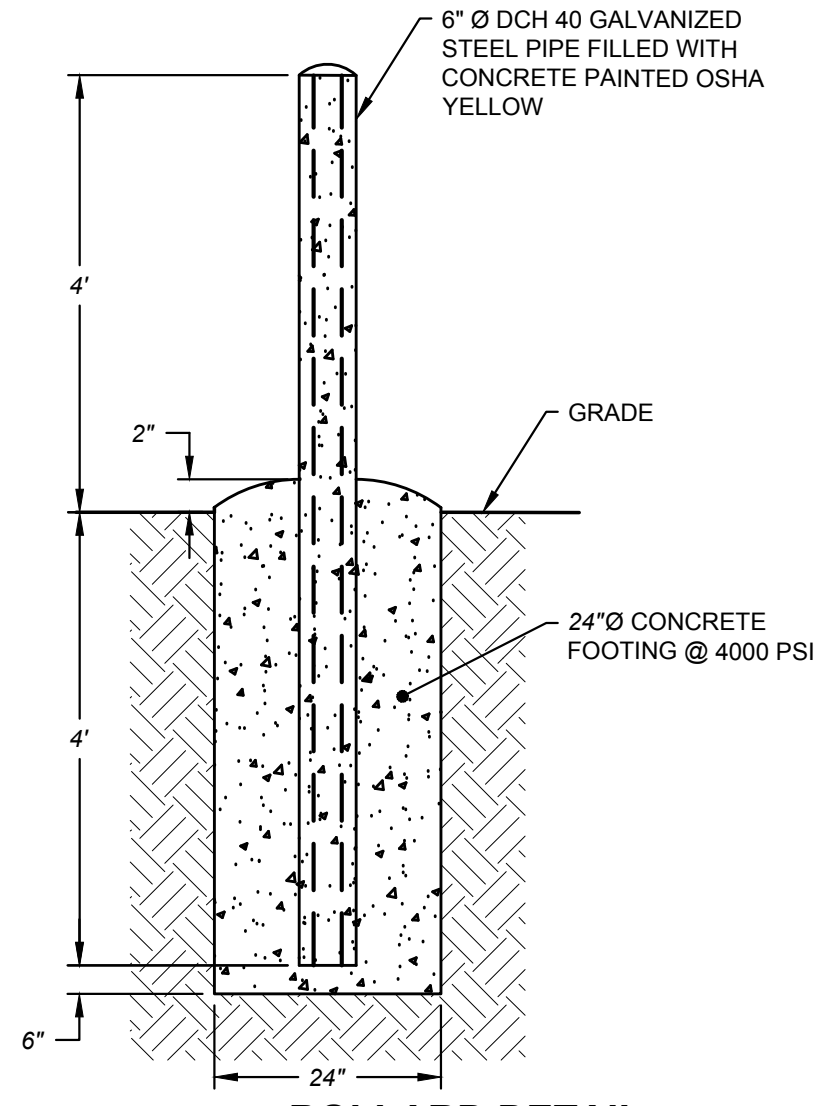
NOTES:

- ALL CONCRETE IS TO BE AIR-ENTRAINED 4000 PSI (NO FLY ASH), UNLESS OTHERWISE DIRECTED BY ENGINEER.
- SLOPE SURFACE TO DRAIN (MIN 1% MAX 2% CROSS-SLOPE).
- 1/2" PREFORMED JOINT MATERIAL, CONTINUOUS STRIP SHALL BE INSTALLED EVERY 30' AND / OR BETWEEN SIDEWALK AND ANY FIXED STRUCTURE EXTENDING THE FULL DEPTH OF THE SIDEWALK.
- SIDEWALK JOINTS SHALL BE DIVIDED INTO EQUALLY SPACED BLOCKS, BUT NOT GREATER THAN 10' O.C. (I.E. 5' INTERVALS FOR 5' WIDE SIDEWALKS). JOINTS SHALL BE HAND TOoled OR SAW CUT TO A DEPTH OF 1/4" OF THE SLAB THICKNESS.
- MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS.
- CONCRETE WALK IS TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.



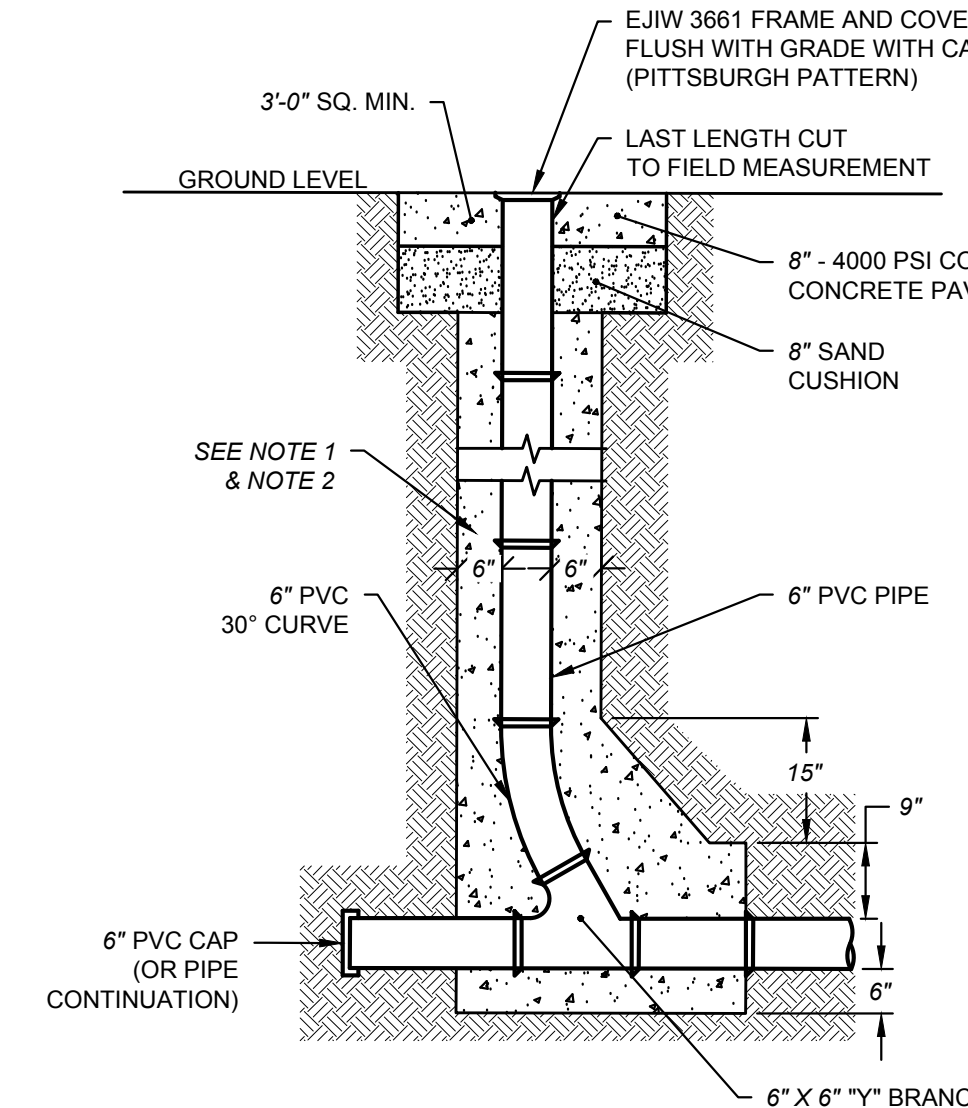
NOTES:

- ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
- TACK COAT TO BE APPLIED IN ACCORDANCE WITH ODOT ITEM 407 SPECIFICATIONS.
- MILL BUTT JOINTS WHERE MILLING OPERATION ABUTS ASPHALT PAVEMENT.
- TAPER NEW PAVEMENT TO MATCH EXISTING PAVEMENT.
- ADJUST EXISTING CATCH BASIN GRATES, MANHOLE COVERS, AND MISCELLANEOUS CASTINGS AS REQUIRED.
- ASSURE POSITIVE DRAINAGE DURING MILLING AND REPAVING OPERATIONS (1.5% MINIMUM SLOPED DESIRED, NO BIRD BATHS)



NOTES:

- ALL CONCRETE SHALL BE 4000 PSI, AIR ENTRAINED, (NO FLY ASH) UNLESS OTHERWISE DIRECTED BY ENGINEER.
- 1/2" PREFORMED EXPANSION JOIN WHEN ADJACENT TO STRUCTURE.
- 1/2" FOAM EXP JOINT WITH 1/2" REVEAL FILL JOINT WITH ONE COMPONENT SEALER (SIKA, OR APPROVED EQUAL), SELECT COLOR TO MATCH SURROUNDING PAVEMENT.

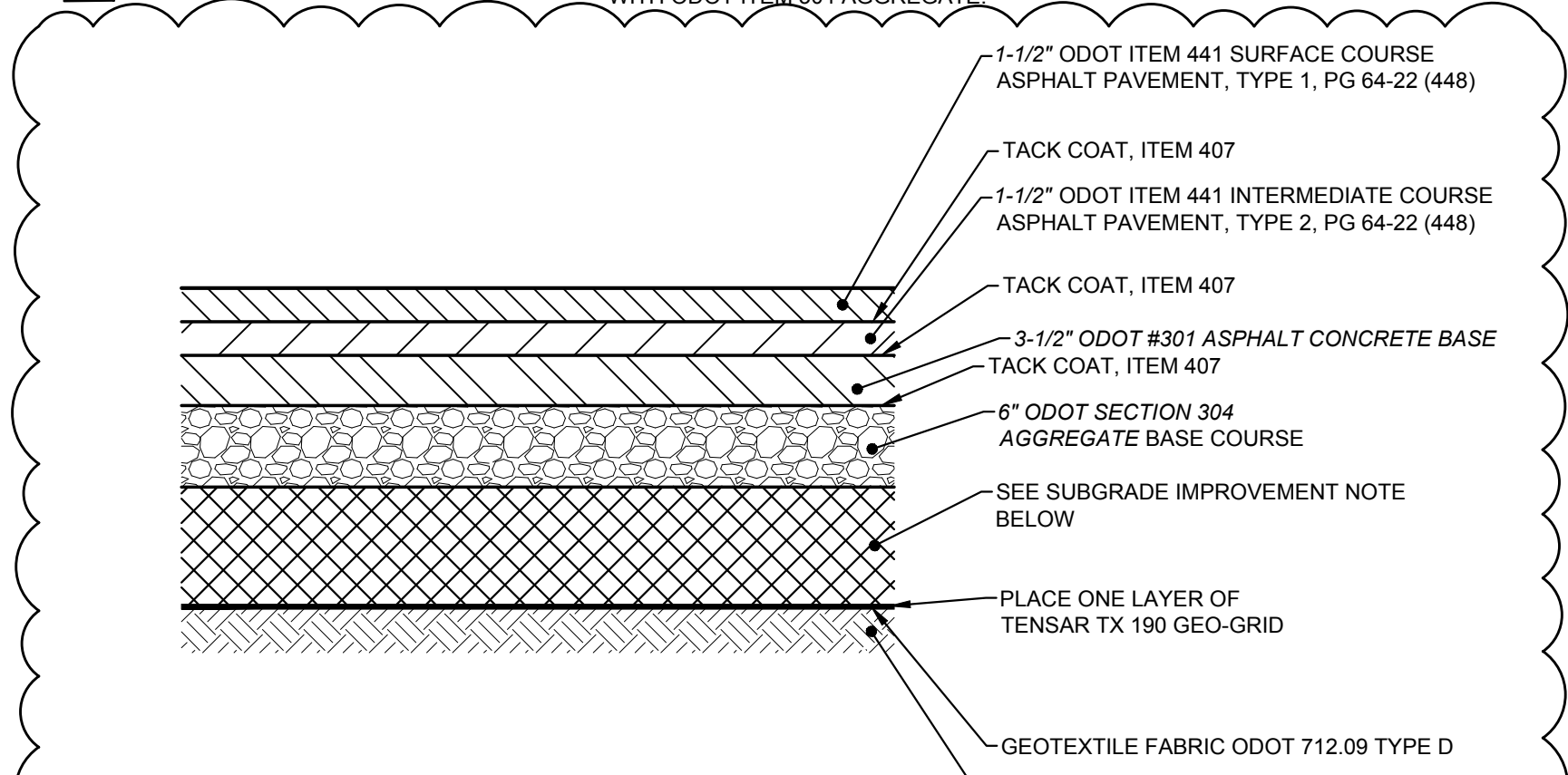


NOTES:

- CONCRETE (4000 PSI) ENCASUREMENT FOR CLEANOUT IS OPTIONAL WITHIN LANDSCAPE. CONSULT ENGINEER BEFORE PROCEEDING.
- CONCRETE (4000 PSI) ENCASUREMENT FOR CLEANOUT IS REQUIRED WHEN SUBJECT TO TRAFFIC.
- 8" CLEANOUT SHALL BE USED FOR 8" SEWER AND LARGER.
- SMALLER SIZE SEWERS AND LAMP HOLES SHALL HAVE SAME SIZE PIPE.
- CLEANOUT TO HAVE A WATERTIGHT CAP ON RISER.
- RISER IS TO BE TERMINATED JUST BELOW GRADE. USE C.I. LAMPHOLE FRAME AND COVER WHEN SUBJECT TO TRAFFIC.
- INSTALL CLEANOUTS ON ALL STORM & SANITARY LINES LEAVING THE BUILDING. LOCATIONS TO BE FIELD DETERMINED.

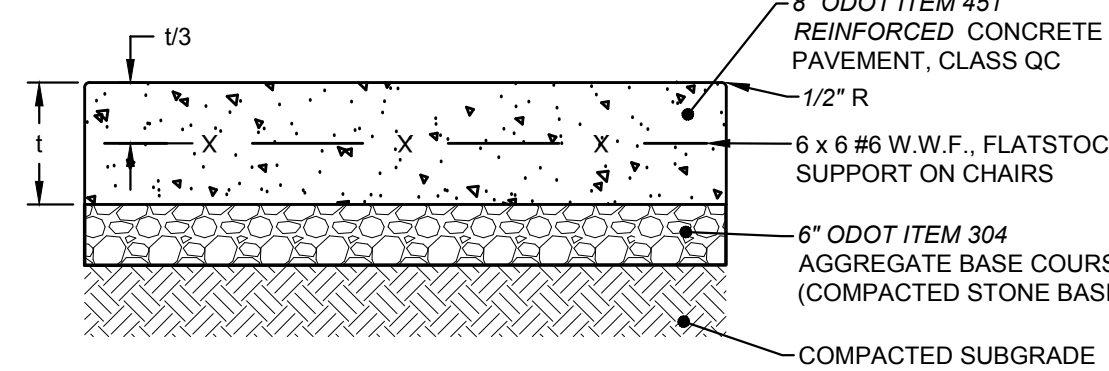
SUBGRADE IMPROVEMENT NOTE

CONTRACTOR SHALL PROOF ROLL EXPOSED PAVEMENT SUBGRADE ANY AREAS SHOWING DEFICIENT COMPACTION SHALL BE REMOVED TO 24" BELOW SUBGRADE AS DIRECTED BY ENGINEER AND APPROVED BY OWNER. INSTALL ASTM #1 AND #2 STONE ABOVE ONE LAYER OF TENSAR TX 190 GEO-GRID AND GEOTEXTILE FABRIC ODOT 712.09 TYPE D, CHOKE #1S AND #2S WITH ODOT ITEM 304 AGGREGATE.



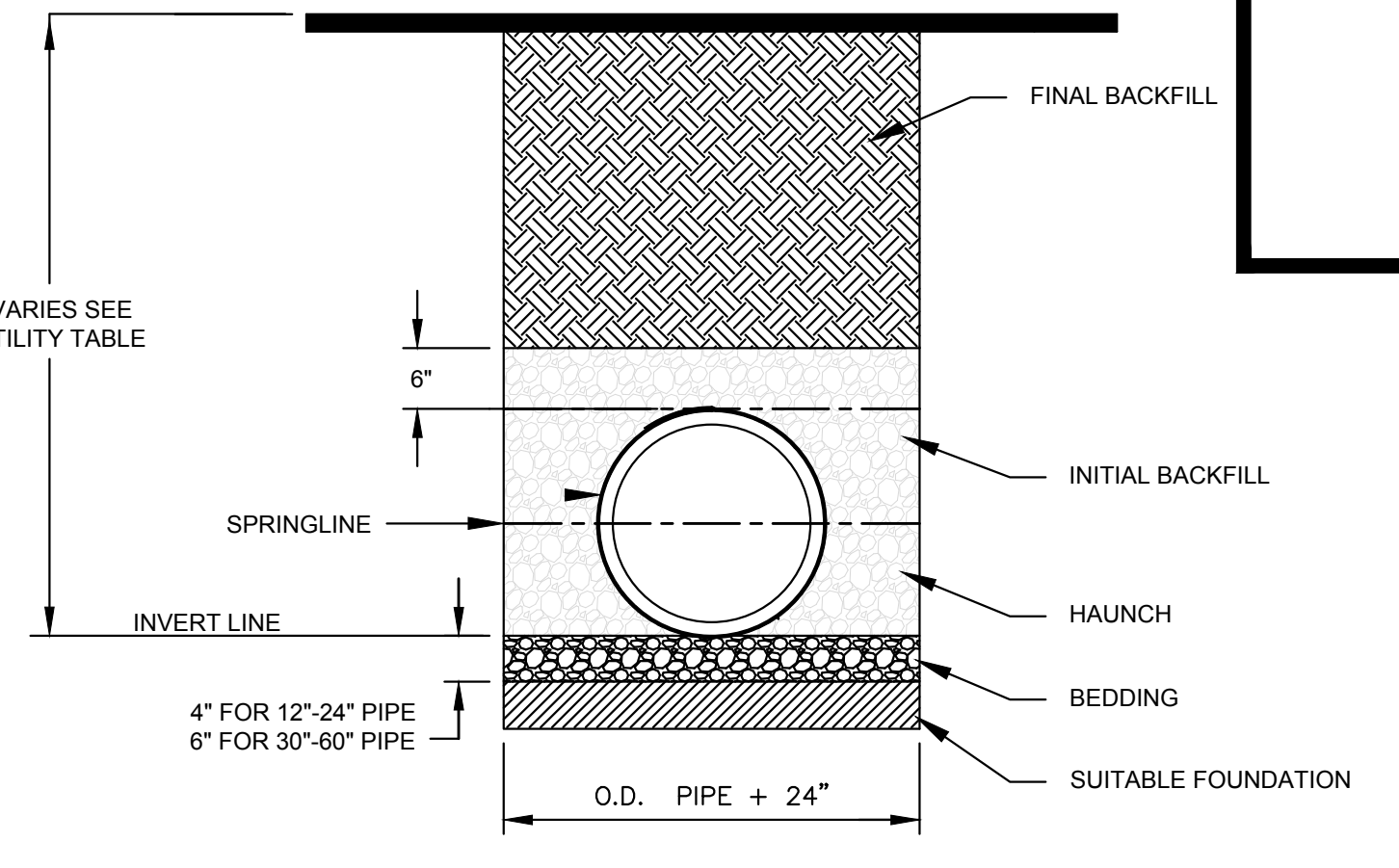
NOTES:

- ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
- PRIOR TO PAVING, SUBBASE IS TO BE PROOF ROLLED BY CONTRACTOR.
- TACK COAT TO BE APPLIED IN ACCORDANCE WITH ODOT SPECIFICATIONS
- WHERE APPLICABLE, REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR PROOF ROLLING PER THE PROJECT SPECIFICATIONS



NOTES:

- ALL CONCRETE IS TO BE AIR-ENTRAINED 4000 PSI (NO FLY ASH), UNLESS OTHERWISE DIRECTED BY ENGINEER.
- SLOPE SURFACE TO DRAIN
- CONCRETE PAVEMENT TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.
- PROVIDE EXPANSION JOINTS AT 50'-60' O.C. AND WHERE CONCRETE ABUTS BUILDING, CURBS, OR OTHER STRUCTURES.
- CONTRACTION JOINTS SHOULD NOT EXCEED 15' O.C.
- COORDINATE LOCATION OF ALL JOINTS WITH THE ENGINEER.
- MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS.



NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6" ASTM NO 57 STONE.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
- FINAL BACKFILL

BACKFILL UNDER PAVEMENT SHALL BE PREMIUM BACKFILL SHALL BE ODOT 304 LIMESTONE. THE BACKFILL SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

BACKFILL IN LAWN AREAS - SUITABLE MATERIAL MAY BE CLASS I, II, III, OR EXCAVATED MATERIAL - MAX. 8" LIFTS, 93% COMPACTION. NO ROCKS OVER 1-1/2" Ø ARE ACCEPTABLE IN UPPER 8" OF BACKFILL. A 4" (MIN.) LAYER OF SCREENED TOPSOIL IS REQUIRED IN LAWN AREAS.

HDPE PIPE SEWER TRENCH DETAIL
SCALE: NONE

DESCRIPTION	DATE	BY
REVISION TO NOTES 7 & 8	06/04/2012	CDB
REVISION TO NOTES 7	06/10/2013	CDB
REVISION TO NOTES 2, 3, 5	09/23/2020	RMB
TITLE BLOCK REVISION	02/26/2021	GML
REVISION TO BACKFILL NOTES	3/2/2021	RMB

STANDARD DRAWING NO. 19
UTILITY TRENCH REQUIREMENTS
CE_19_20210226.DWG

NOTES:

- BEDDING:**
MATERIALS SHALL BE AASHTO M 43 NO. 56, 57, OR 67 CRUSHED STONE. NO ALTERNATES UNLESS APPROVED BY THE CITY ENGINEER. PRIVATE UTILITIES MAY PROVIDE ALTERNATE BEDDING MATERIAL AS APPROVED BY THE CITY ENGINEER.
BEDDING WIDTH TABLE

PIPE TYPE	MIN. WIDTH, TYP.	MAX. WIDTH, TYP.
NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM)	PIPE I.D. x 1.25 + 1'-0"	PIPE O.D. + 2'-0"
RIGID PIPE (CONC., VIT. CLAY, DUCTILE IRON)	PIPE I.D. x 1.33	PIPE O.D. + 2'-0"

 CENTER PIPE HORIZONTALLY WITHIN BEDDING AREA. ANY DEVIATION TO TYPICAL BEDDING REQUIREMENTS ARE SUBJECT TO THE DISCRETION OF THE CITY ENGINEER.
 THE BEDDING LIMITS SHOWN APPLY ALL CASES EXCEPT FOR WHEN PIPE MANUFACTURER SPECIFIES A BEDDING WIDTH DIFFERENT FROM THAT SHOWN AND THE CITY ENGINEER PERMITS SAME.
- BACKFILL:**
BACKFILL WITHIN THE PUBLIC STREET R/W:
MATERIALS SHALL BE ODOT 304, 703.11, TYPE 1 GRANULAR MATERIAL OR TYPE 2 GRANULAR MATERIAL, ODOT 813, LOW STRENGTH MORTAR OR ALTERNATE GRANULAR MATERIAL ONLY IF APPROVED BY THE CITY ENGINEER (ALSO, SEE NOTE 5). DEVIATIONS FROM SPECIFIED MATERIALS ARE AS FOLLOWS:
 A) NO FOULING SAND OR SLAG IS PERMITTED.
 B) ALTERNATE GRANULAR MATERIAL SHALL BE PERMITTED ONLY WITH THE SUPPLEMENTAL APPROVAL OF THE CITY ENGINEER. TO PETITION FOR SUCH SUPPLEMENTAL APPROVAL, THE BIDDING CONTRACTOR SHALL SUBMIT IN WRITING THE FOLLOWING:
 * SOURCE OF THE ALTERNATE BACKFILL MATERIAL
 * GRADATION REPORT IN ACCORDANCE WITH AASHTO T 11 AND T 27
 * PROCTOR CURVE ANALYSIS IN ACCORDANCE WITH ASTM D 698
 * PROPOSED COMPACTION METHOD.
 THE CITY ENGINEER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL, REGARDLESS OF APPROVAL OF SIMILAR MATERIAL ON A PREVIOUS PROJECT.
 THE CITY ENGINEER FURTHER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL, THE CITY FINDS NOT CONSISTENT WITH THE APPROVED SOURCE, GRADATION REPORT, PROCTOR REPORT, OR COMPACTION METHOD.
- COMPACTON:**
ALL BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12-INCHES LOOSE DEPTH AND COMPACTED BY APPROVED MECHANICAL MEANS. JETTING IS NOT APPROVED WITHOUT THE CITY ENGINEER'S APPROVAL. BUCKET COMPACTION MUST BE SUPPLEMENTED WITH VIBRATION OR TAMPING EQUIPMENT AS DIRECTED. ANY MODIFICATIONS TO THESE REQUIREMENTS MUST BE APPROVED BY THE CITY ENGINEER.
- SURFACE:**
TRENCHES SHALL BE TOPPED WITH 4" OF ODOT 304 LIMESTONE OR ASPHALT GRINDINGS WITH EXISTING STREET PAVEMENTS WHEN THE STREET WILL BE OPENED TO VEHICULAR TRAFFIC PRIOR TO PAVEMENT REPLACEMENT. THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED FLUSH WITH THE ADJOINING PAVEMENT.
 STREET RESTORATION:
 CONCRETE OR ASPHALT STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 32. BRICK OR ASPHALT-BRICK COMPOSITE STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 31.
 SIDEWALK, CURB, AND DRIVEWAY RESTORATION:
 DRIVEWAY SURFACES SHALL BE REPLACED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF CANTON SPECIFICATIONS FOR CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS; AND CITY STD. DWG. NOS. 28 THRU 33.
 LAWN RESTORATION:
 LAWN SURFACES SHALL BE REPLACED WITH A MINIMUM OF 4" TOPSOIL, SEEDED, AND MULCHED. SEED MIX SHALL CONFORM TO ADJOINING LAWN GRASS.
- APPLICABILITY:** THE STANDARD DRAWING HEREIN IS APPLICABLE WHEN ODOT 611 IS NOT SPECIFIED FOR CONDUIT INSTALLATION.
- ODOT REFERENCES** ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

PAVEMENT OR SURFACE REPLACEMENT MAXIMUM PAY LIMITS:
 PIPE DEPTH OF 4" OR LESS = O.D. OF PIPE + 4'-0"
 PIPE DEPTH BETWEEN 4" TO 8" = O.D. OF PIPE + 5'-0"
 PIPE DEPTH GREATER THAN 8" = O.D. OF PIPE + 6'-0"
 (PIPE DEPTH BEING MEASURED FROM THE PIPE INVERT (FLOWLINE) TO THE SURFACE OF THE TRENCH)

RESTORE TRENCH SURFACE. SEE NOTES 4 & 5.
 SAWCUT PAVEMENT FULL DEPTH PRIOR TO REMOVING EXISTING PAVEMENT OVER TRENCH. PROVIDE A SECOND CUT, AS DIRECTED BY THE CITY ENGINEER, TO REMOVE AND REPLACE UNDERMINED PAVEMENT.
 4" MIN. VARIES.
 12" - NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM)
 3" - RIGID PIPE (CONCRETE, VITRIFIED CLAY, OR DUCTILE IRON)
 8" - NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM)
 3" - RIGID PIPE (CONCRETE, VITRIFIED CLAY, OR DUCTILE IRON)

BACKFILL (INCLUDES) WITH COST OF PIPE (SEE NOTES 2, 3 & 7)
 BACKFILL (INCLUDES) WITH COST OF PIPE (SEE NOTES 1 & 7)
 BEDDING (INCLUDES) WITH COST OF PIPE (SEE NOTES 1 & 7)
 EXTRA FOUNDATION MATERIAL (SEE NOTE 7.C)
 BEDDING WIDTH: SEE TABLE
 IN NOTE 1.
 EVERY REVISION ENTRY PAID FOR UNDER EXTRA FOUNDATION MATERIAL (SEE NOTE 7.B)

TOP OF SANITARY SEWER MANHOLE COVER (SEE NOTE 2 FOR STORM SEWER COVER)

DESCRIPTION	DATE	BY
CAD DRAWING	JAN 2012	CDB
MH COVER CITY LOGO	02/28/2014	RMB
NOTE 2 REVISED, ADD GRATED COVER	01/17/2015	RMB
REMOVED OLD CITY LOGO COVER	12/08/2017	RMB
TITLE BLOCK REVISION	02/26/2021	GML

STANDARD DRAWING NO. 12
MANHOLE COVER
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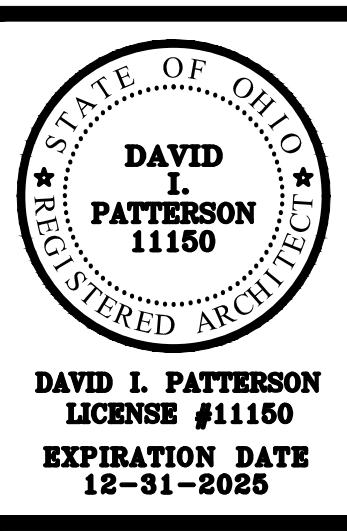
NOTES:

- COVER AND FRAME TO BE CAST OF GRAY IRON IN COMPLIANCE WITH ASTM SPEC. ASTM A-48 CLASS 35 AND AASHTO M 306. CASTINGS SHALL BE OF THE HEAVY DUTY RATING.
- SANITARY MANHOLE COVER/FRAME**
-EAST JORDAN 1850 B VENTED COVER (PRODUCT NO. 185026) AND 1850 FRAME.
-NEENAH R-1654 FRAME AND VENTED COVER.
-OR EQUAL APPROVED BY CITY ENGINEER.
- STORM MANHOLE COVER/FRAME**
-EAST JORDAN 1850 M GRATED COVER AND 1850 FRAME.
-NEENAH R-1654 FRAME AND GRATED COVER.
-USE THE VENTED COVER WITH CITY LOGO WITHIN CROSSWALKS.
- MACHINE BEARING SURFACES BETWEEN LID AND FRAME.
- CONTACT CITY ENGINEER FOR CAD DRAWING OF CITY LOGO.
- CASTINGS ARE NOT REQUIRED TO BE PAINTED.
- ALTERNATE FRAMES**, SUITABLE WITH EJ 1850 COVER, FOR USE AS DIRECTED BY THE CITY ENGINEER:
 -EAST JORDAN 2015 (10-1/2" FRAME HEIGHT)
 -EAST JORDAN 1622 (5" FRAME HEIGHT, OR FLAT IF FRAME IS INVERTED)

3/4" LETTERS (RECESSED FLUSH)
 1-1/2" LETTERS (RECESSED FLUSH)
 3/16" RECESSED AREAS
 CITY LOGO (RECESSED FLUSH)
 (8) 3/4" DIA VENT HOLES ON 14" DIA BOLT CIRCLE
 1-1/2" LETTERS (RECESSED FLUSH)
 11-5/8" R
 10-1/8" R
 7-7/8" R
 6-3/8" R

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2435 30th St. NE 44705 330-489-3380 www.cantonohio.gov/engineering

STANDARD DRAWING NO. 12
MANHOLE COVER
CE_12_20210226.DWG



THIS DWG :
SITE DETAILS

COMM DATE 21161-B 03-18-2024

DWG
D-100

Terracotta Repair

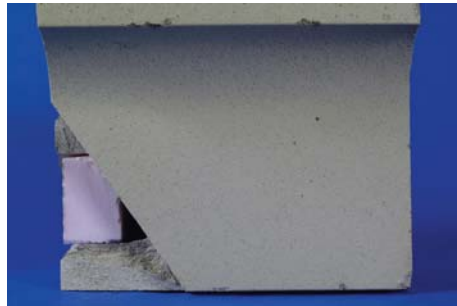
**With the Matrix system, on-site color matching becomes a reality.
The result is a repair that blends well with the parent material.**

The repair of terracotta follows the same principles of proper stone and concrete repair. Achieving an aesthetically pleasing result requires the right materials, tools and excellent craftsmanship. Terracotta repair can be categorized as shallow repairs (glaze spall <1/4") see page 2 or deep repairs (bisque spall 1/2" +) below. The method of repair can vary slightly depending on the category.

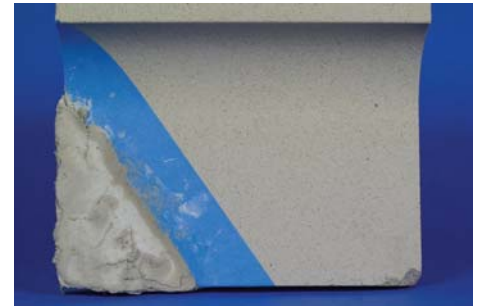
Bisque Spall Repair (1/2" +)



STEP 1 - Match the primary color of the terracotta using the Matrix fobs. Make three 'pucks', one the color closest to the terracotta, one a shade darker and one a shade lighter. The finish must be troweled smooth.



STEP 2 - Cut out the damaged area (minimum 1/2 inch deep) so that the area to be repaired will be a geometric shape. Be sure to have square cut shoulders and avoid feather edges for the repairs. Be sure NOT to fill any structural voids in the terra cotta. In this case foam insulation was used to prevent filling the cavity with the repair mortar.



STEP 3 - Apply the color matched Matrix to the repair zone. Over build and allow to 'set' until thumbprint.



STEP 4 - Shave the Matrix with a mitre rod or edge of trowel to final form. Finish the repair to match the existing surface of terra cotta. In this case, the repair was finished smooth.



STEP 5 - (OPTIONAL) If Matrix material was color matched to parent terracotta, skip to **STEP 6**. If not, apply Terra-Color matched to the primary color of the terracotta. Shown above is Terra-Color paint, two 'pucks', brushes and sandpaper.



STEP 6 - Apply Terra-Color matched to the accent color(s) and same pattern as to the parent stone. Allow to dry for a minimum of 12 hours. Apply Terracotta Finish to the repaired area - either Gloss or Matte to match the finish.

Commentary - One of the advantages of this system is that the color of the Matrix repair mortar can closely match the finish. The result is an appearance that will always be close to the parent terracotta. Proper substrate preparation is critical to any repair. The repair area should always be geometric in shape, square, rectangle or triangle. Attempting to blend a repair into the parent stone to make it "invisible" will seldom produce satisfactory results. It is recommended to overlap repair coating over existing parent terracotta to architectural break point to create a watertight seal.

Terracotta Repair

Glazed Spall Repairs (< 1/4")

Glazed spall repairs should be attempted on damaged terracotta spalls of 1/4" or less. First inspect the glaze near the perimeter of the spall. Be sure it is still sound (well bonded) and free of biological growth. To minimize feathering, create a square shoulder for the spalled area. Following the instructions on the data sheet, apply Matrix TR (in 1/16" lifts if necessary) to repair the spall. The Matrix TR should be textured during finishing to match the existing terra cotta texture. The Matrix TR can be color matched to the existing terra cotta if desired. The repaired spall should be coated with Terra-Color and Terracotta Finish as described in Steps 5 and 6 on the other side of this page).



Example of faux finish with Terra-Color

Materials Used

Matrix

Matrix is a single component repair mortar compatible with terracotta, natural stone and brick.

The Matrix system provides the tools necessary for the trained applicator to closely match the color of the parent material on-site. This eliminates the costly and often times frustrating process of sending samples to the material manufacturer for matching.

Terra-Color

Terra-Color is a 100% acrylic waterproof coating to recreate the color and pattern (faux finish) of terracotta before application of Terracotta Finish.

It is used to create colored glaze finishes for brick and terracotta repair. Terra-Color is UV stable, mildew resistant and formulated to resist harsh weather conditions. It is colorfast and comes in an extensive color spectrum including 38 standard colors and custom matching.

Terracotta Finish

Terracotta Finish is a water-based non-yellowing acrylic used to replicate the finish of the original terracotta.

Apply over Terra-Color to match surrounding undamaged terracotta. It is available in Gloss and Matte finishes and can be brush or roller applied.

Matrix TR

Matrix TR is a two component repair mortar compatible with terracotta, natural stone and architectural concrete.

Matrix TR is used as a coating for thin/surface repairs and is available in 11 standard colors. It is applied with a stiff bristle brush or sponge float and can be finished with a float or trowel to mimic existing textures.

Technical Data

Refer to the most current version of the Product Technical Data Bulletin before beginning work.

Current information on all products is available on our website at www.conproco.com.