

DISCIPLINE INFORMATION:

| IDENTIFIER: | DISCIPLINE: |
|-------------|-------------|
| G | GENERAL |
| C | CIVIL |
| S | STRUCTURAL |

INDEX EXPLANATION:

| INDEX OF SHEETS | | |
|-----------------|---------------|----------|
| Sheet Number | Sheet Title | Sheet ID |
| 1 | TITLE | G-01 |
| 2 | SHEET INDEX | G-02 |
| 3 | GENERAL NOTES | G-03 |



GENERAL SYMBOLLOGY NOTES:

- THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLLOGY.
- ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SYMBOLGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

DRAWING CODED NOTE TYPES:

- CT CONTRACTUAL NOTES ARE DEPICTED WITH A HEXAGON, SQUARE, CIRCLE OR TRIANGLE. ALL OTHER EXISTING WRITTEN CALLOUTS SHOWN ON THE REUSED SCANNED PLANS, SECTIONS & DETAILS ARE FOR EXISTING CONDITIONS AND REFERENCE ONLY, MANY OF THOSE NOTES FROM THE SCANNED DRAWINGS PERTAIN TO PREVIOUS WORK DONE.

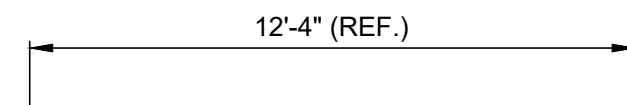
PLAN REVISIONS:

| REVISION DESCRIPTION | DEMOLITION DESCRIPTION |
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| A | 1 |
| B | 2 |

DEMOLITION CODED NOTES:

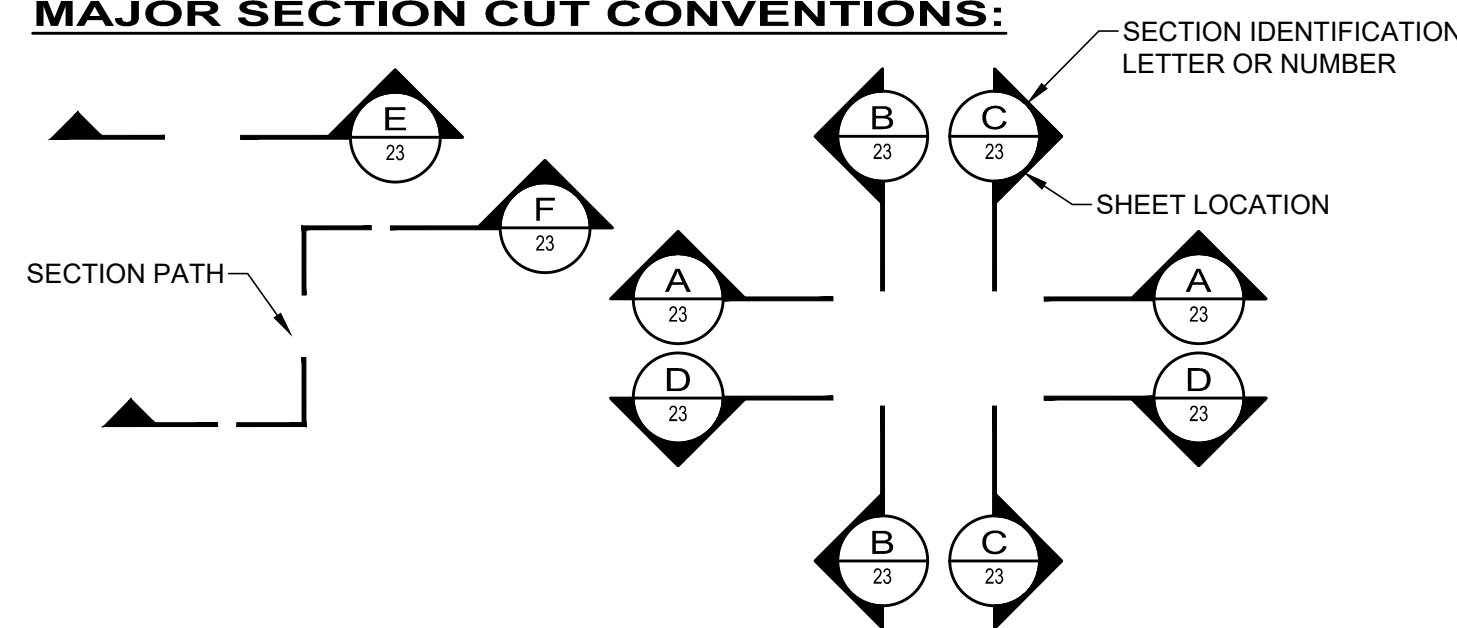
| REVISION DESCRIPTION | DEMOLITION DESCRIPTION |
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| 1 | DEMOLITION DESCRIPTION |
| 2 | DEMOLITION DESCRIPTION |

REFERENCE DIMENSION:



REFERENCE DIMENSIONS ARE GIVEN FOR INFORMATION ONLY. THEY ARE CALCULATED DIMENSIONS NOT INTENDED TO BE USED WITHOUT FIELD VERIFICATION AND ARE USEFUL IN SHOWING INTENDED DESIGN.

MAJOR SECTION CUT CONVENTIONS:



GENERAL ABBREVIATIONS:

| | | | | | |
|-----|-------------------------|------|--------------------------------|-----|-----------------------------|
| AR | AIR RELEASE VALVE | FRP | FIBERGLASS REINFORCED PLASTIC | PT | PRESSURE TEMPERATURE RELIEF |
| AV | AIR & VACUUM VALVE | FTG | FITTING | PV | PLUG VALVE |
| BA | BALL VALVE | GL | GLOBE VALVE | PVC | POLYVINYL CHLORIDE PIPE |
| BFV | BUTTERFLY VALVE | GS | GALVANIZED STEEL | R/W | RIGHT OF WAY |
| BK | BACKPRESSURE VALVE | GV | GATE VALVE | RJ | RESTRAINED JOINT |
| BM | BENCH MARK | HDPE | HIGH-DENSITY POLYETHYLENE PIPE | SAN | SANITARY |
| BP | BACKFLOW PREVENTER | KG | KNIFE GATE VALVE | SCH | SCHEDULE |
| CB | CATCH BASIN | KN | KNIFE VALVE | SB | SOIL BORING |
| CL | CENTER LINE | MH | MANHOLE | SDR | STANDARD DIAMETER RATIO |
| CO | CONE VALVE | MIN | MINIMUM | SS | STAINLESS STEEL |
| CPP | CORRUGATED PLASTIC PIPE | MJ | MECHANICAL JOINT | STA | STATION |
| CV | CHECK VALVE | MV | MUD VALVE | STL | STEEL PIPE |
| DIP | DUCTILE IRON PIPE | N | NORTHING | STM | STORM |
| E | EASTING | OH | OVERHEAD | SU | SURGE VALVE |
| EG | EXISTING GRADE | PD | PLUG DRAIN VALVE | SV | SOLENOID VALVE |
| EL | ELEVATION | PR | PRESSURE RELIEF | TYP | TYPICAL |
| EX | EXISTING | PG | PRESSURE REGULATOR | UG | UNDERGROUND |
| FG | FINISHED GRADE | PJ | PINCH VALVE | VB | VALVE BOX |
| FH | FIRE HYDRANT | PR | PROPOSED | WAT | WATER |
| FL | FLANGED | PRV | PRESSURE REDUCING VALVE | WV | WATER VALVE |

SITE SYMBOL LEGEND:

| | | |
|-----|-----|-------------------------|
| EX: | PR: | |
| MB | MB | POST, MAILBOX |
| ⌘ | ⌘ | POST, SIGN |
| ⌘ | ⌘ | POST, SIGN - DOUBLE |
| ⌘ | ⌘ | POST, SIGN - DUAL |
| ⌘ | ⌘ | BUSH |
| ⌘ | ⌘ | TREE, DECIDUOUS |
| ⌘ | ⌘ | TREE, EVERGREEN |
| ⌘ | ⌘ | TREE, STUMP |
| ⌘ | ⌘ | NAIL - MAG |
| ⌘ | ⌘ | PIN - IRON |
| ⌘ | ⌘ | PIPE - IRON |
| ⌘ | ⌘ | SPIKE |
| ⌘ | ⌘ | GAS METER |
| ⌘ | ⌘ | GAS VALVE |
| ⌘ | ⌘ | GAS VENT |
| ⌘ | ⌘ | POLE - ELECTRIC (POWER) |
| ⌘ | ⌘ | POLE - GUY |
| ⌘ | ⌘ | POLE - GUY ANCHOR |
| ⌘ | ⌘ | POLE - LIGHT |
| ⌘ | ⌘ | SANITARY MANHOLE - 48" |
| ⌘ | ⌘ | CATCH BASIN - 2X2 |
| ⌘ | ⌘ | CURB INLET - 2X3 |
| ⌘ | ⌘ | STORM DRAIN |
| ⌘ | ⌘ | STORM MANHOLE - 48" |
| ⌘ | ⌘ | WATER HYDRANT, FDC |
| ⌘ | ⌘ | WATER HYDRANT, FIRE |
| ⌘ | ⌘ | WATER VALVE W/TEXT |
| ⌘ | ⌘ | WATER METER |
| ⌘ | ⌘ | WATER METER PIT |

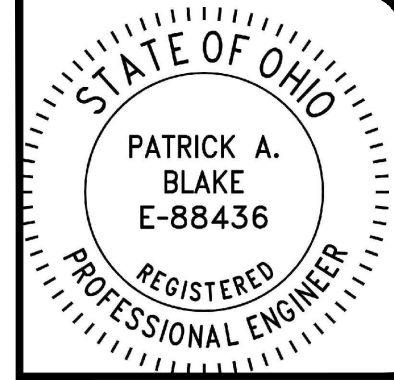
SITE LINE LEGEND:

| | | |
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| EX: | | RIGHT-OF-WAY (APPROXIMATE NOT SURVEYED) |
| --- | --- | PROPERTY LINE (APPROXIMATE NOT SURVEYED) |
| --- | --- | BUILDING OUTLINES |
| --- | --- | CONTOURS - MAJOR |
| --- | --- | CONTOURS - MINOR |
| --- | --- | DITCH CENTERLINE |
| --- | --- | SLOPE LINE |
| --- | --- | SLOPE - BREAKLINE |
| --- | --- | SLOPE - TOP |
| --- | --- | SLOPE - TOE |
| --- | --- | WATER EDGE |
| --- | --- | EDGE OF ROAD |
| --- | --- | FENCE - GENERAL |
| --- | --- | FENCE - CHAIN LINK |
| --- | --- | TREE LINE |
| --- | --- | ELECTRIC LINE |
| --- | --- | ELECTRIC LINE - OH |
| --- | --- | ELECTRIC LINE - UG |
| --- | --- | GAS LINE |
| --- | --- | GAS SERVICE |
| --- | --- | SANITARY LINE |
| --- | --- | STORM LINE |
| --- | --- | WATER LINE |
| --- | --- | WATER SERVICE |
| --- | --- | CENTERLINE |
| PR: | --- | PAVEMENT SAWCUT |
| --- | --- | EDGE OF PAVEMENT |
| --- | --- | CENTERLINE |
| --- | --- | PERMANENT CONSTRUCTION EASEMENT LINE (PCE) |
| --- | --- | TEMPORARY CONSTRUCTION EASEMENT LINE (TCE) |
| --- | --- | WORK LIMITS |
| --- | --- | DEMO - HASH |

| Sheet List Table | | |
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| 10 | SWPPP PLAN | C-07 |
| 11 | SWPPP NOTES & DETAILS | C-08 |

GENERAL MATERIAL HATCHES:

| | |
|--|-------------------------------------|
| | PROPOSED ASPHALT ROADWAY (PLAN) |
| | PROPOSED ASPHALT DRIVEWAY (PLAN) |
| | EXISTING BUILDING (PLAN) |
| | DEMOTES ITEM OR AREA FOR DEMOLITION |

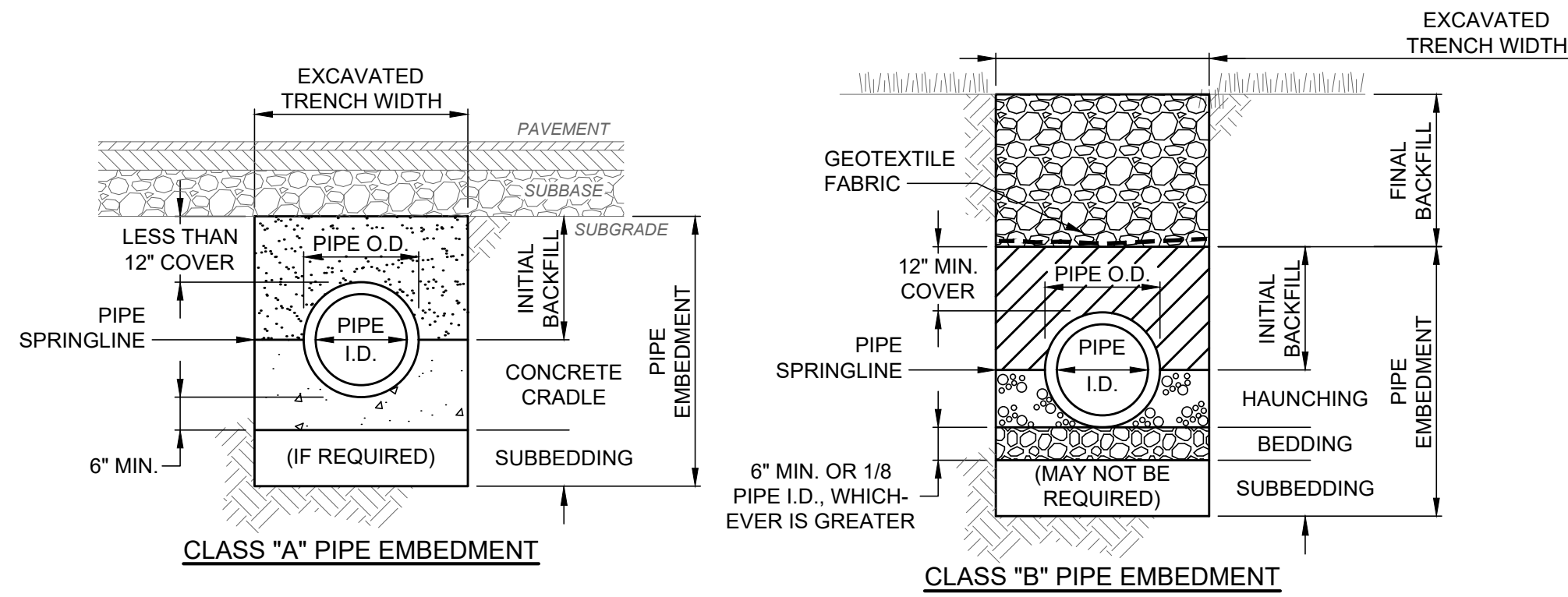


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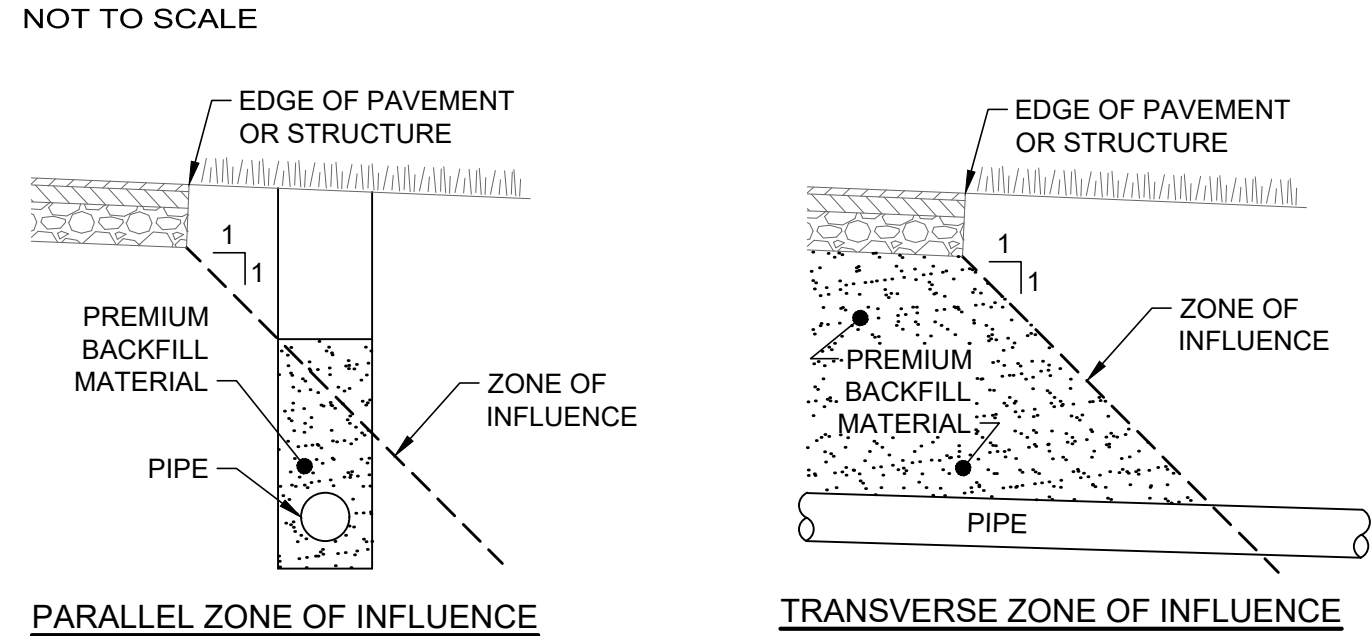
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COLLEEN DRIVE STORM IMPROVEMENTS
 MAHONING COUNTY BOARDMAN, OHIO
LEGENDS SYMBOLS & SHEET INDEX

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| DRAWING NAME | |
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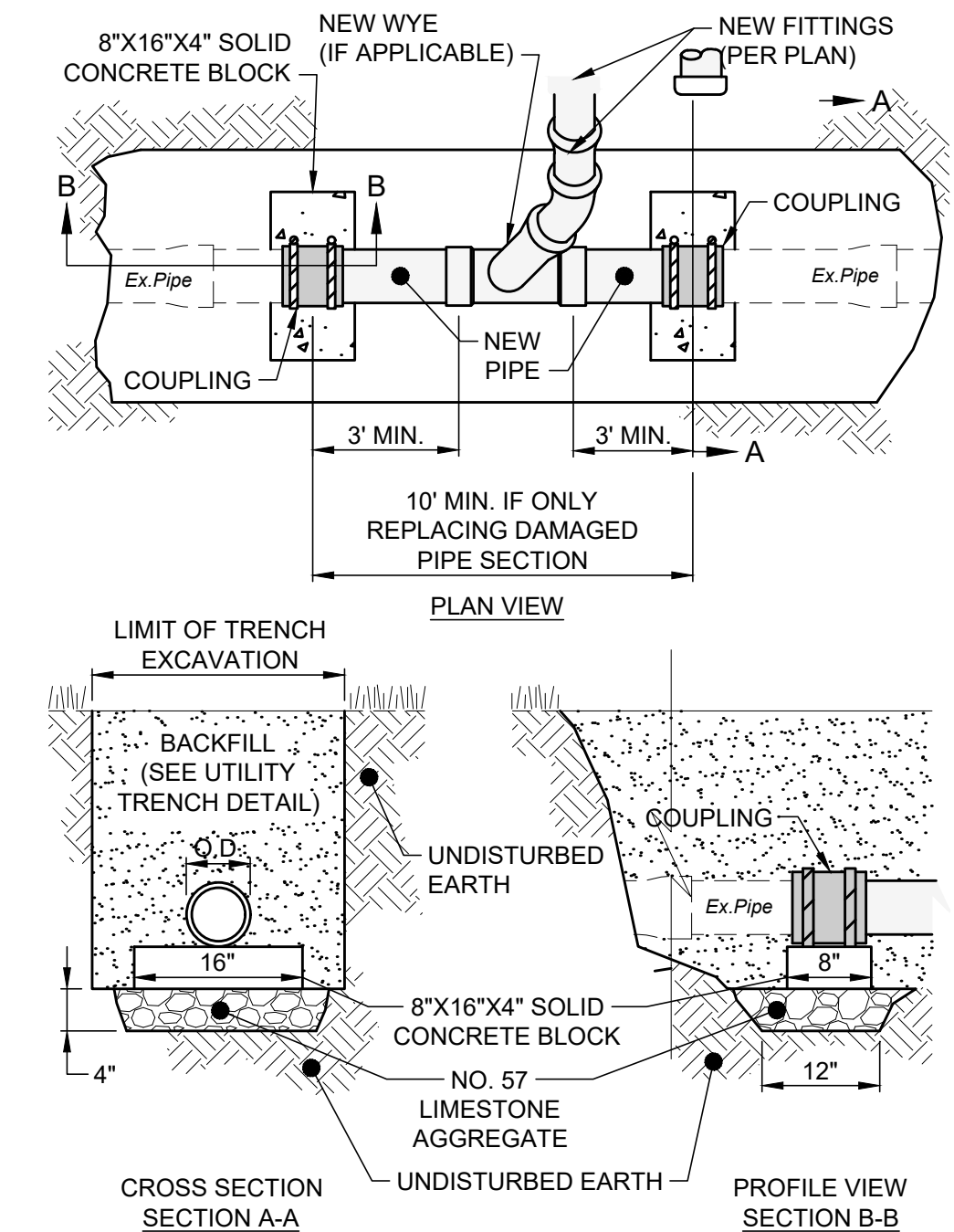


TRENCHING, EMBEDMENT AND BACKFILL DETAIL



- EXCAVATED TRENCH WIDTH: MEASURED FROM BOTTOM OF TRENCH TO 12" OVER TOP OF PIPE (WITHIN THE PIPE EMBEDMENT), THE MIN. TRENCH WIDTH SHALL BE 9" AND THE MAX. SHALL BE:
 - O.D.+24" FOR 24" AND SMALLER I.D. PIPE
 - O.D.+30" FOR 27" THRU 72" I.D. PIPE
- FINAL BACKFILL: ALL AREAS UNDER AND WITHIN 5-FT OF PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE SHALL BE PREMIUM BACKFILL (ODOT ITEM 304 LIMESTONE). PAVEMENT INCLUDES ROADWAY, SHOULDER AND DRIVEWAY, BUT NOT SIDEWALK. NO SLAG OR SLACKER AGGREGATES ALLOWED. IN ALL OTHER AREAS, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL.
- PIPE EMBEDMENT:
 - CLASS "A": SHALL BE USED FOR ALL PIPES UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12" OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS QC-1. THE INITIAL BACKFILL SHALL BE NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE.
 - CLASS "B": SHALL BE USED FOR ALL PIPES UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING AND HAUNCHING SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN ALL OTHER AREAS, THE INITIAL BACKFILL MAY BE SUITABLE ON-SITE MATERIAL FOR RIGID PIPE, AND SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE FOR FLEXIBLE PIPE.
- NOTES FOR BETWEEN RESIDENCES:

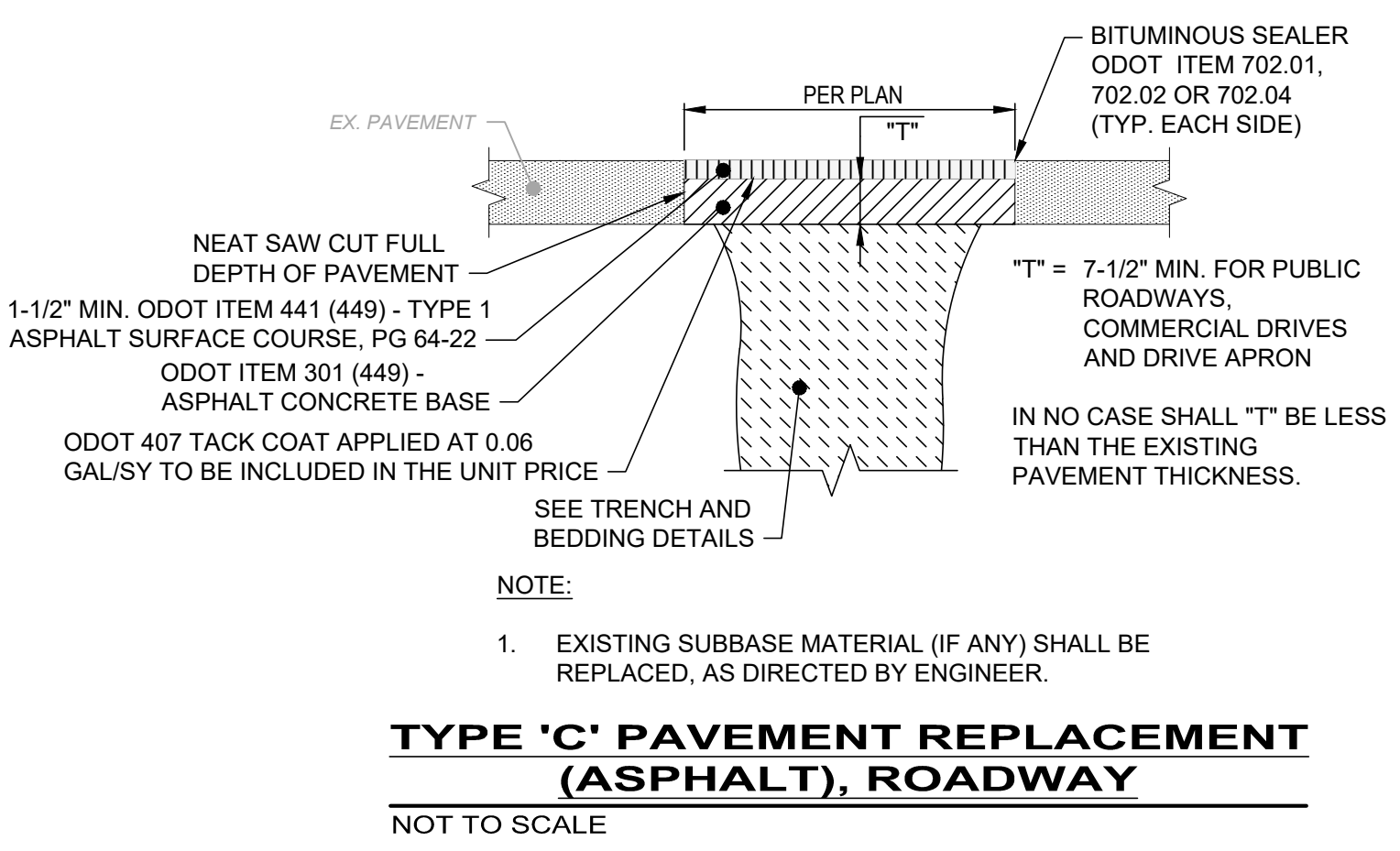
- WHERE BACKFILL OPERATIONS ARE LOCATED IN CLOSE PROXIMITY TO EXISTING STRUCTURES, COMPACTION SHOULD BE PERFORMED USING A WALK BEHIND TRENCH ROLLER (WACKER NEUSON RT, OR APPROVED EQUIVALENT) TO AVOID DISTURBANCE TO THE EXISTING STRUCTURE WALLS AND FOUNDATIONS. LARGE COMPACTION EQUIPMENT SHALL NOT BE ALLOWED IN THE SECTION OF THE TRENCH LOCATED WITHIN 25 FEET OF EXISTING STRUCTURES.
- WHERE PIPE AND TRENCHING IS TO BE PLACED BETWEEN THE EXISTING RESIDENCES, THE INITIAL BACKFILL SHALL BE FINE AGGREGATE OF NATURAL SAND MEETING GRADATION REQUIREMENTS OF ODOT ITEM 703.02.A.2 OR SHOWN IN THE CONTRACT DOCUMENTS. THE MATERIAL SHALL NOT BE LUMPY OR FROZEN, AND SHALL BE FREE FROM SLAG, CINDERS, ASHES AND OTHER DELETERIOUS MATERIALS. SAND SHALL NOT CONTAIN A TOTAL OF MORE THAN 10% BY WEIGHT OF LOAM AND CLAY. VIBRATORY OR OTHER MECHANICALLY OPERATED COMPACTION EQUIPMENT SHALL NOT BE USED IN THESE AREAS DUE TO THE PROXIMITY OF THE TRENCH EXTENTS TO THE EXISTING STRUCTURES.
- DESIGN OF THE TEMPORARY SUPPORT OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, SINCE THEIR INSTALLATION AND PERFORMANCE IS INTEGRALLY TIED TO THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS MUST BE FOLLOWED. IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO DEVELOP APPROPRIATE INSTALLATION METHODS AND EQUIPMENT SPECIFICATIONS PRIOR TO COMMENCEMENT OF WORK, AND TO OBTAIN THE SERVICES OF A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN OR APPROVE SLOPED OR BENCHED EXCAVATIONS AND/OR LATERAL BRACING SYSTEMS AS REQUIRED BY OSHA CRITERIA.
- SUBBEDDING: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER. THIS SHALL NOT BE CONSIDERED FOR ADDITIONAL PAYMENT.
- GEOTEXTILE FABRIC SHALL BE PER ODOT 712.09, TYPE A, AND INSTALLED AFTER ALL INITIAL BACKFILL.



- NOTES:
- THIS DETAIL APPLIES TO REPLACING DAMAGED SECTIONS OF VCP, PVC OR RCP STORM PIPES, OR FOR INSERTING NEW CLEANOUT, TEST TEE, YARD INLET OR LATERAL INTO EX. PVC OR VCP STORM PIPE $\leq 27''$ DIA.
 - VCP SHALL BE REPLACED WITH PVC, PER PLAN. RCP SHALL BE REPLACED WITH RCP OR PVC, PER PLAN.
 - NEW PIPE SHALL BE CONNECTED TO EX. PIPE WITH APPROPRIATE NON-SHEAR, SOLID BANDED WATERTIGHT COUPLING (I.E. FERCO OR APPROVED EQUAL).
 - EX. PIPE SHALL BE SAWCUT FOR STRAIGHT, CLEAN EDGE.

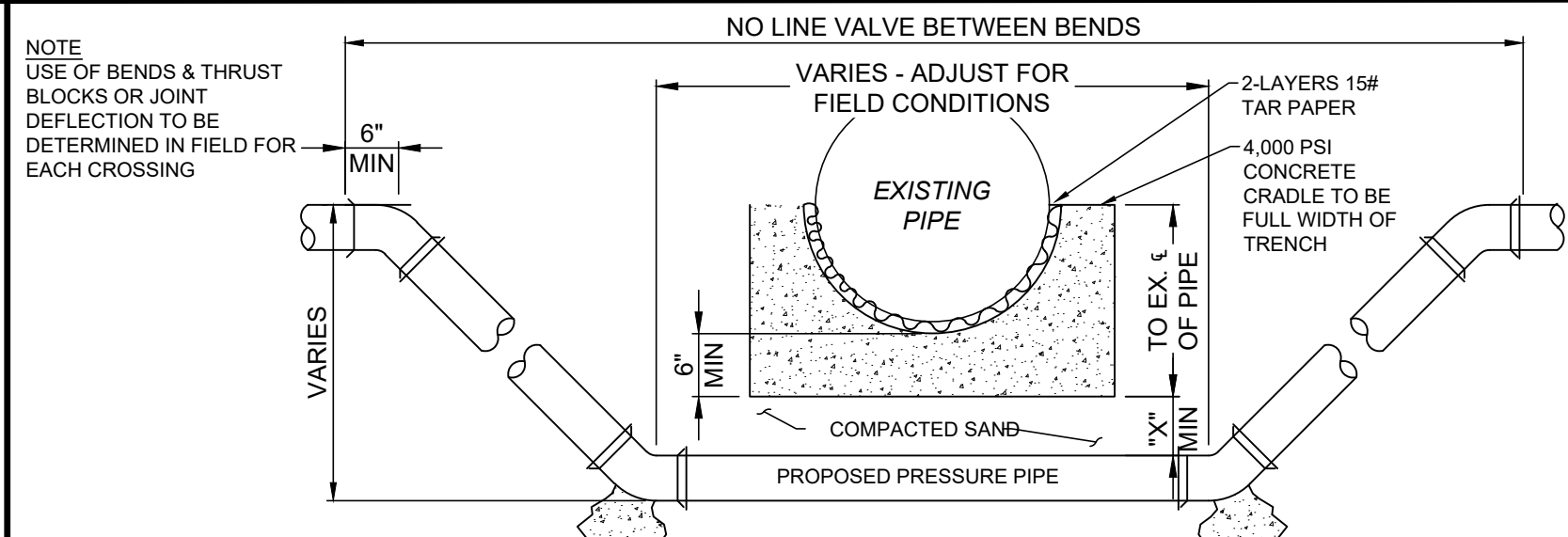
DRAIN PIPE CONNECTION DETAIL

NOT TO SCALE



TYPE 'C' PAVEMENT REPLACEMENT (ASPHALT), ROADWAY

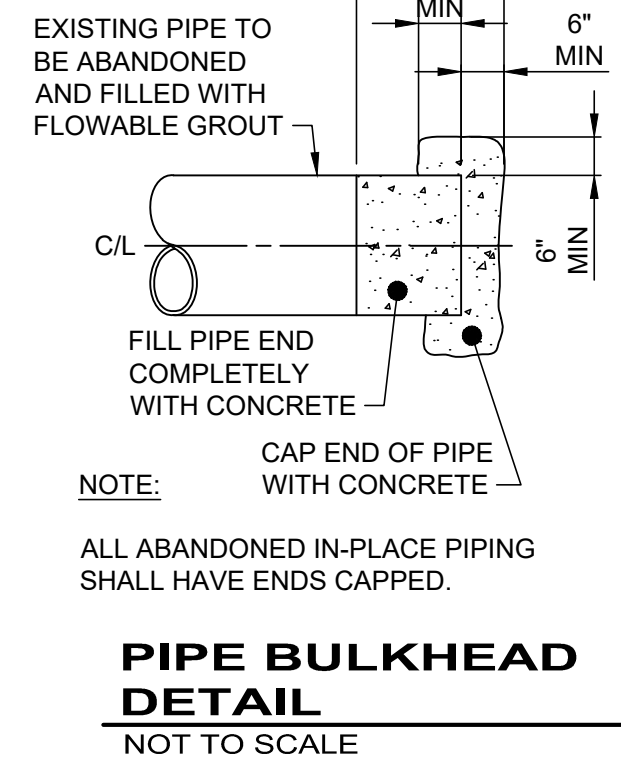
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- CONCRETE CRADLE CONDITIONS
- IF SANITARY OR STORM SEWER PIPE JOINT IS WITHIN PROPOSED IMPROVEMENT TRENCH LIMIT
 - IF CROSSING A WATERLINE AT ANY POINT
 - IF CROSSING SPACE IS LESS THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS "X" DIMENSION THEN OMIT SAND FILL AND USE CONCRETE
- "X" DIMENSION REQUIREMENTS
- 6" FOR WATERLINE CROSSING (ALSO FOR GAS & O.B.T. LINES W/ NO CRADLE NEEDED)
 - 18" FOR SANITARY OR STORM SEWER PIPE
 - IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND "X" DIMENSION TO MAKE UP DIFFERENCE

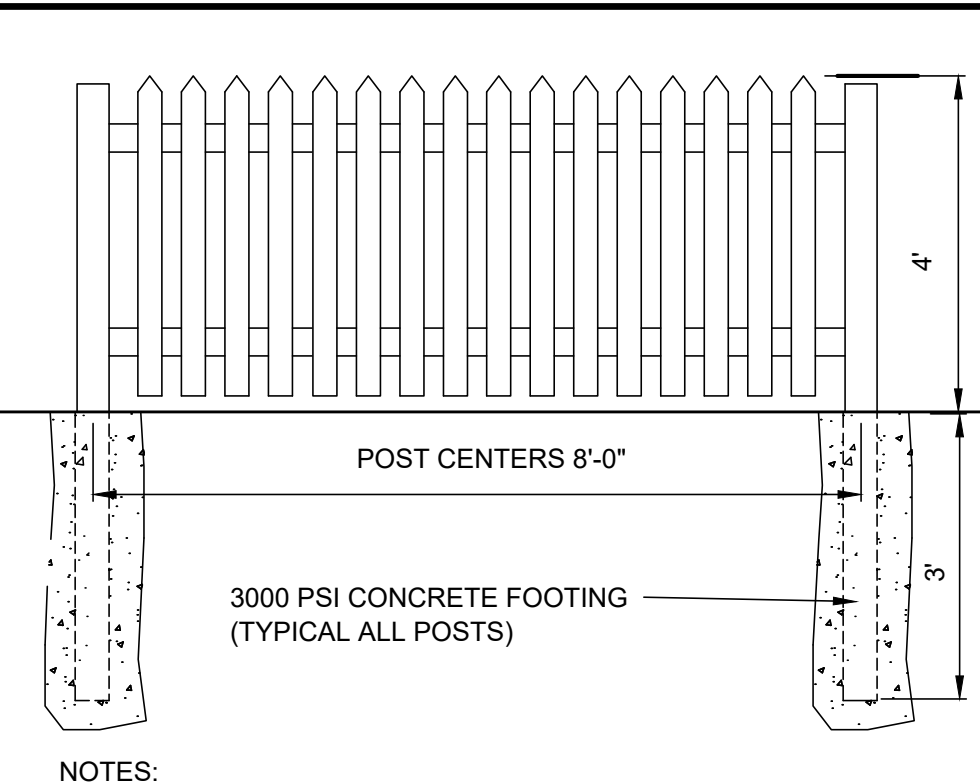
PIPE LOWERING DETAIL

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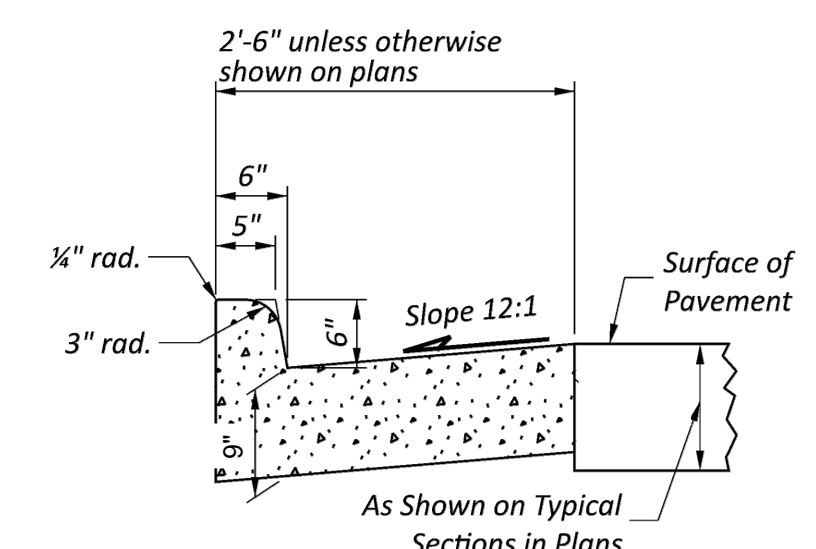
PIPE BULKHEAD DETAIL

NOT TO SCALE



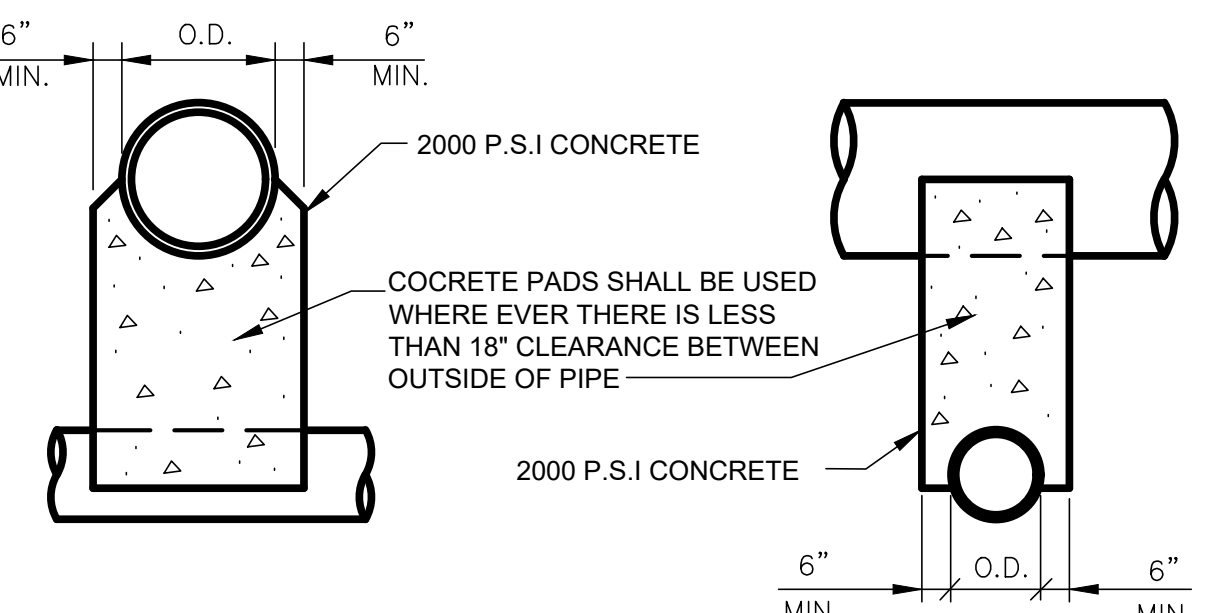
4' X 8' SPACED WOOD STOCKADE FENCE

NOT TO SCALE



6" COMB. CURB & GUTTER DETAIL

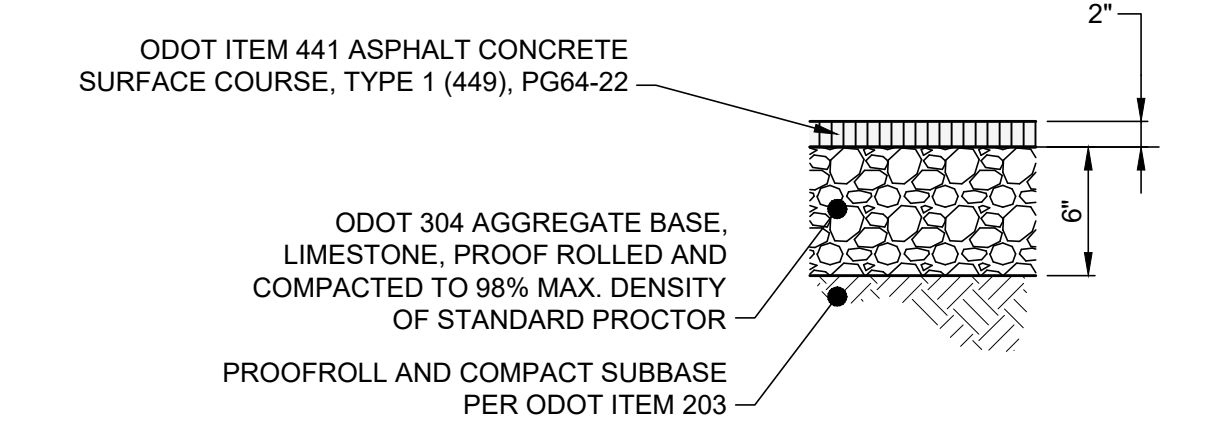
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PIPE CROSSING DETAIL

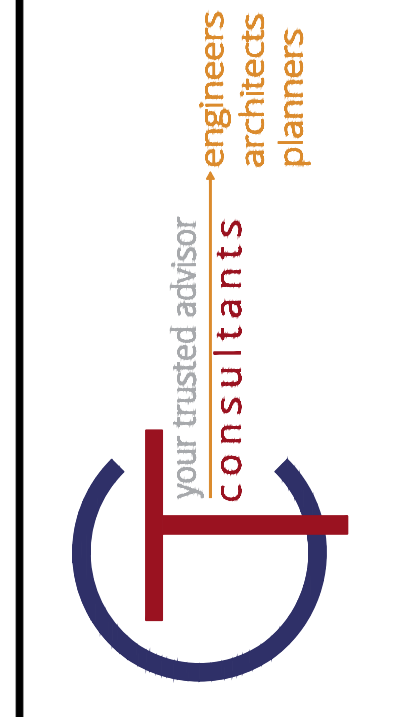
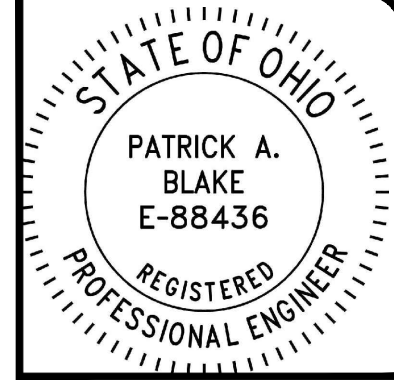
NOT TO SCALE

- NOTES:
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.



TYPE C PAVEMENT REPLACEMENT (ASPHALT), DRIVEWAY

NOT TO SCALE

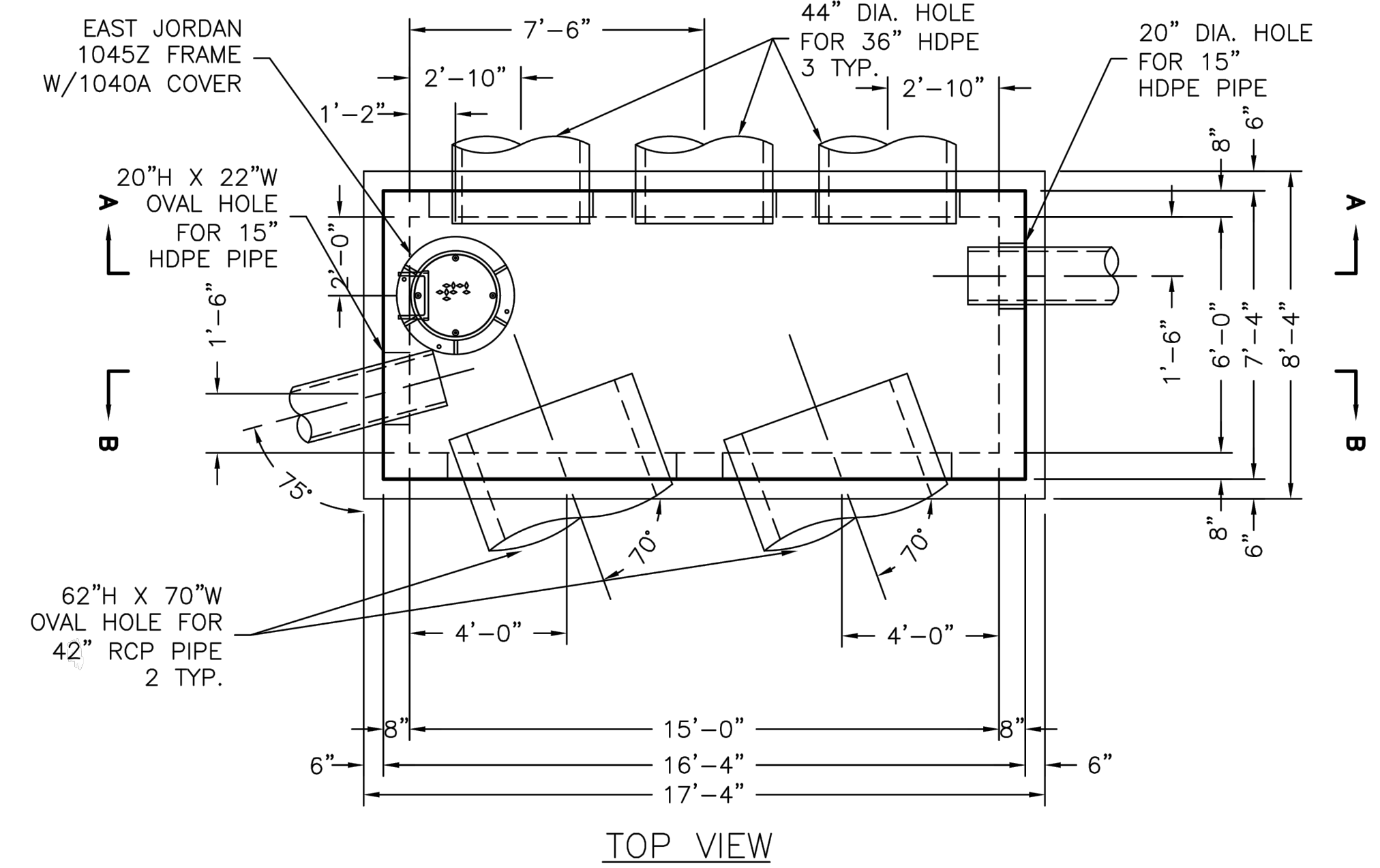
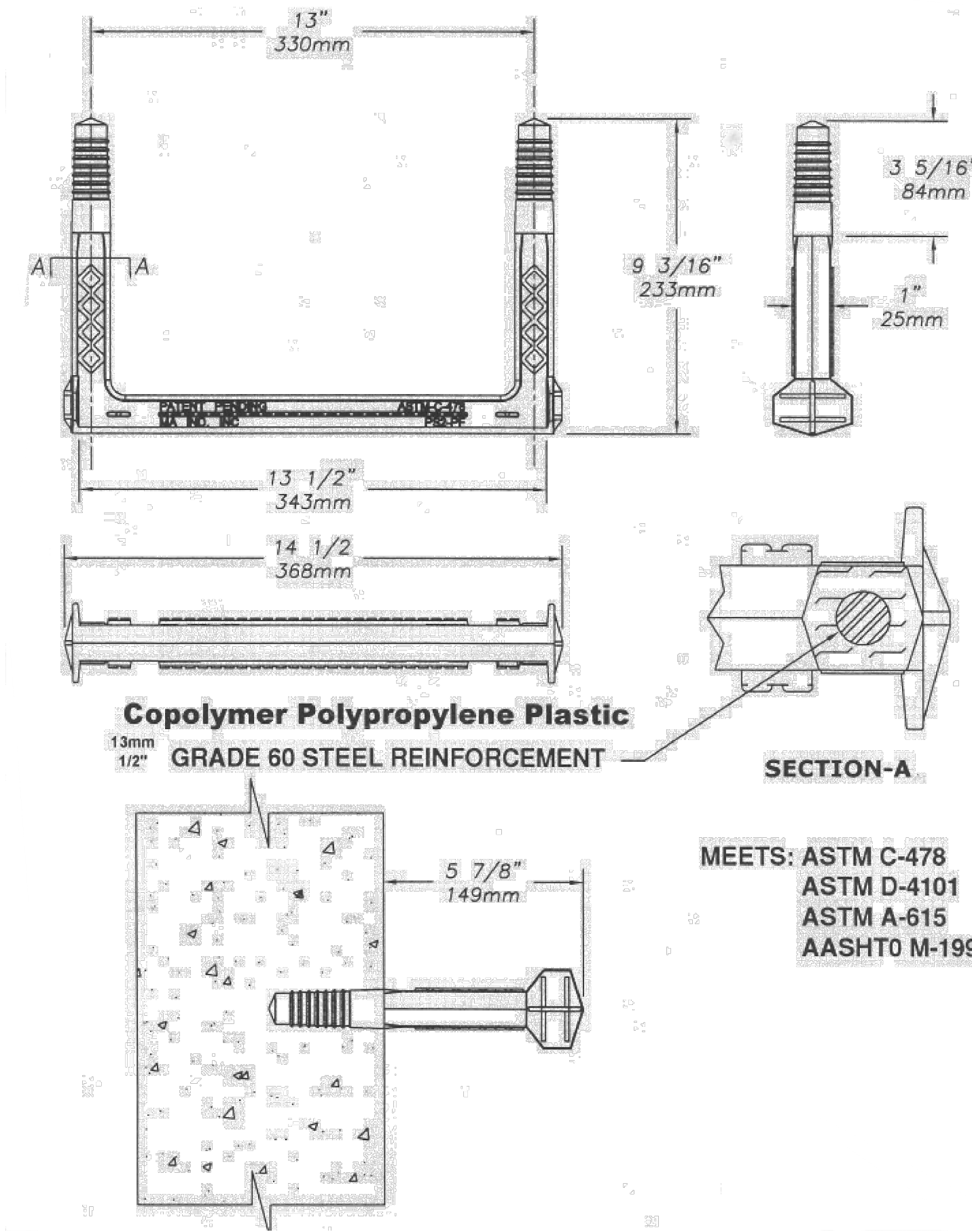
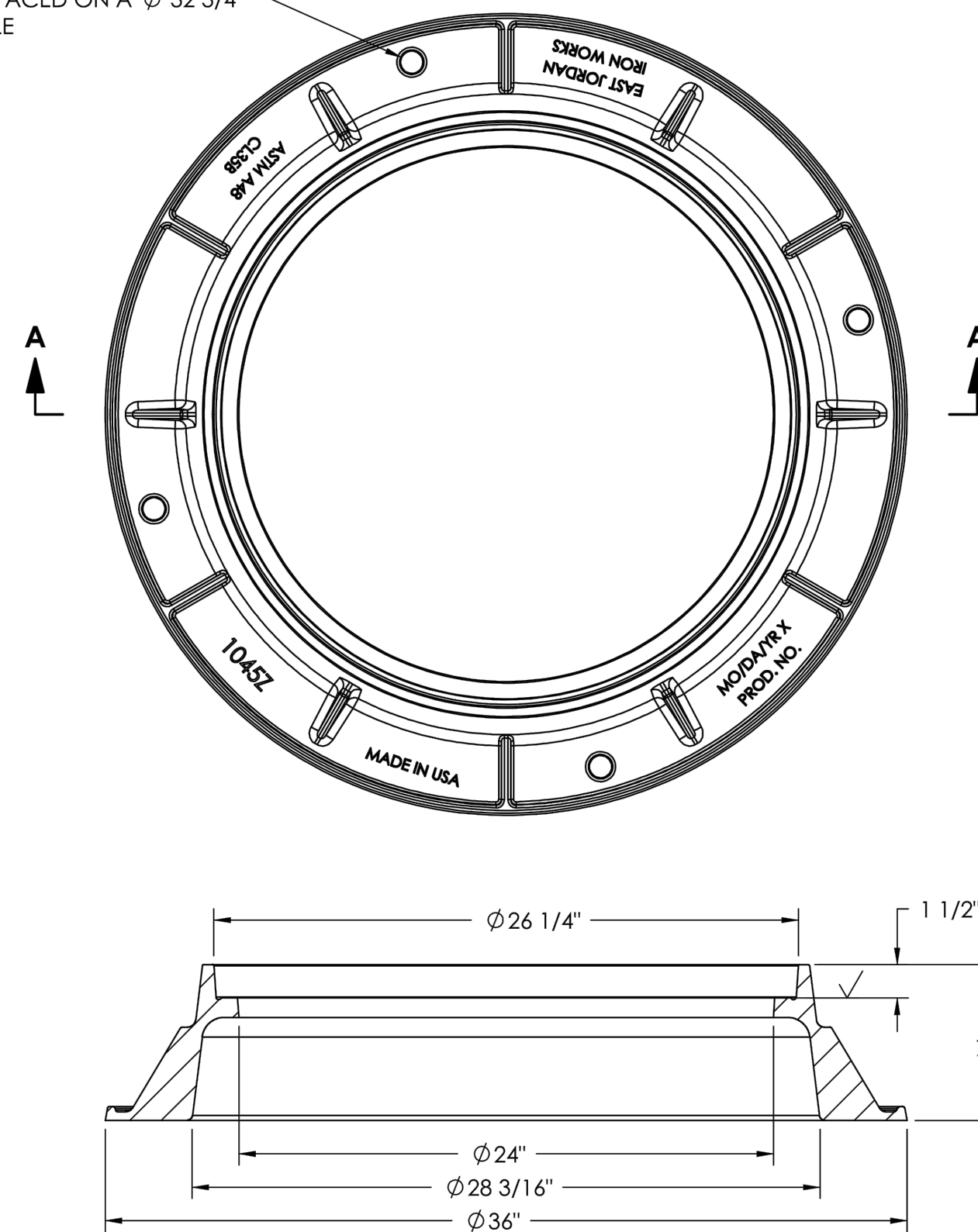


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COLLEEN DRIVE STORM IMPROVEMENTS
 MAHONING COUNTY BOARDMAN, OHIO
CONSTRUCTION DETAILS (1 OF 3)

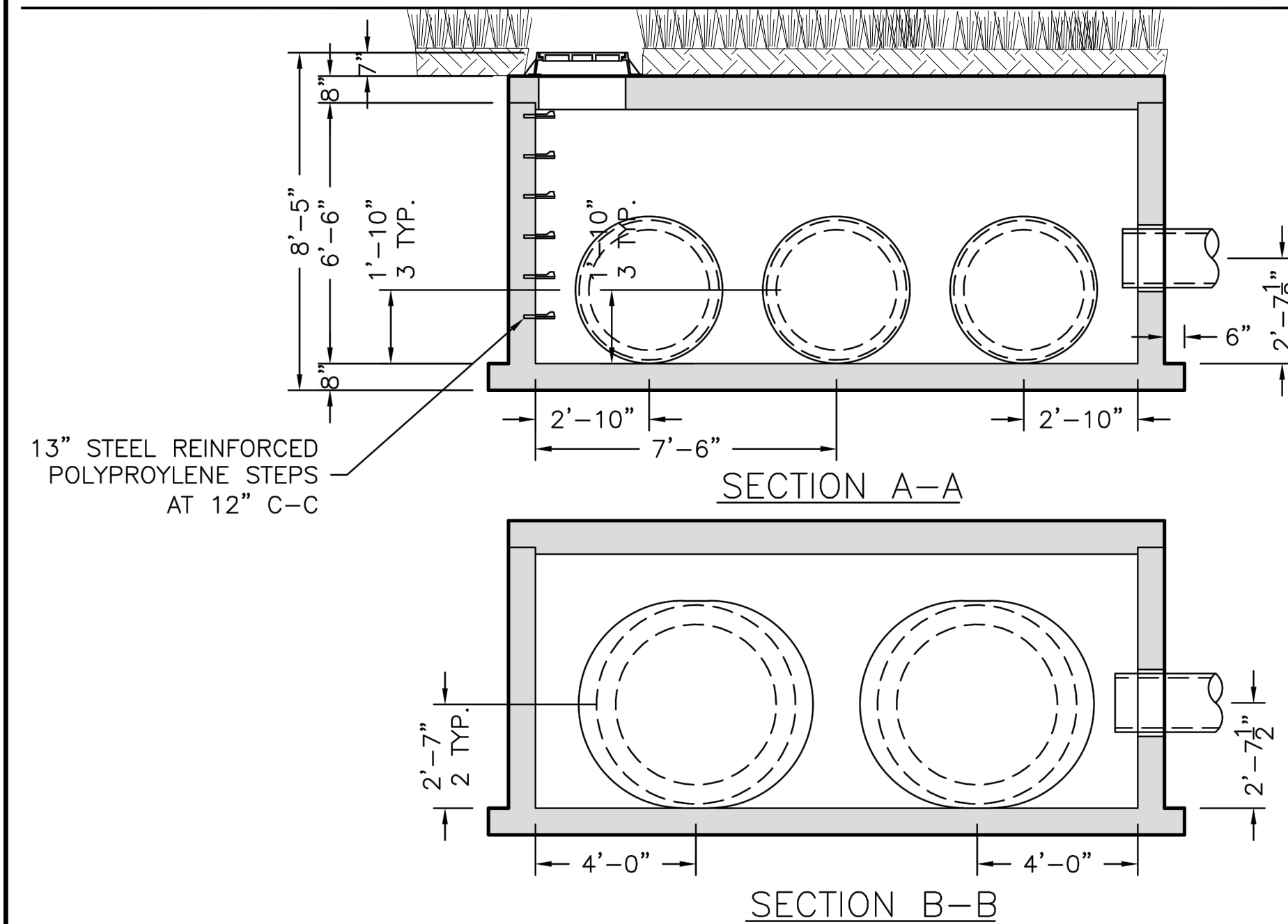
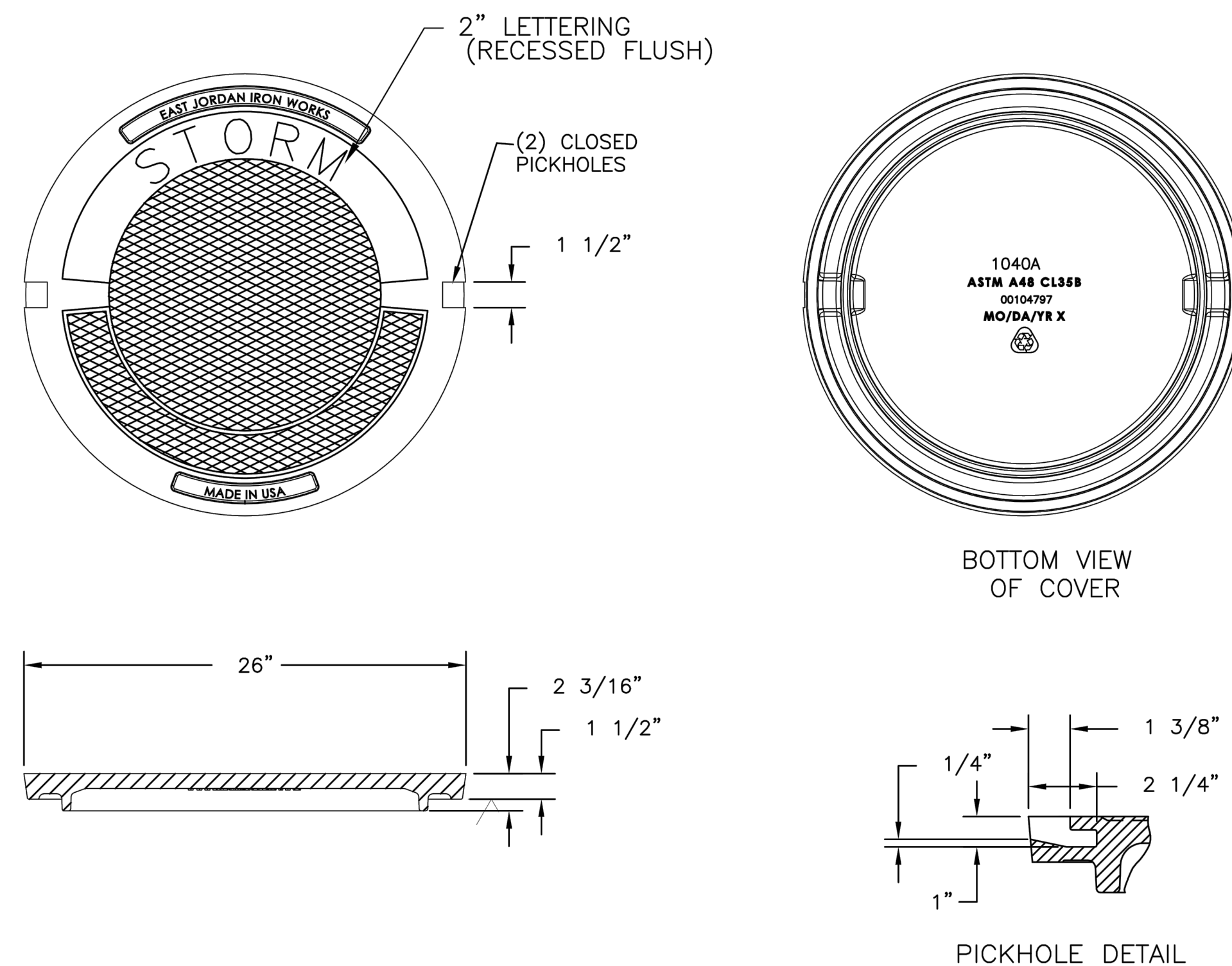
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(4) ϕ 1" BOLT HOLES
EQUALLY SPACED ON A ϕ 32 3/4"
BOLT CIRCLE



NOTES:

1. REINFORCED PRECAST CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
2. REINFORCING TO BE H-20 LOADING, #5 BARS AT 8" C-C, E.W., BENT CONTINUOUSLY AROUND CORNERS.
3. CONSTRUCTION JOINT TO BE SEALED WITH CONSEAL CS-102 MASTIC SEALANT.
4. ANY PIPING AND EQUIPMENT NOT SHOWN, TO BE SUPPLIED BY OTHERS.
5. **HEAVIEST LIFT APPROX. 35,428 LBS (8.75 YARDS)**



NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PRECAST JUNCTION CHAMBER WITH SUPPORTING PE STAMPED DETAILED DESIGN OF STRUCTURE, INCLUDING REINFORCING REBAR DESIGN, SPACING, SIZING AND CONNECTIONS FOR ENGINEER & OWNER REVIEW AND APPROVAL PRIOR TO ORDERING STRUCTURE.
2. THE INVERTS OF THE EXISTING STORM SEWER WERE GATHERED FROM A COMBINATION OF SURVEYED DATA AND RECORD AS BUILT INFORMATION. THE CONTRACTOR SHALL CONFIRM THE DEPTHS OF EXISTING 12 & 15 INCH STORM SEWERS BY FIELD INVESTIGATION/POTHOLING PRIOR TO ORDERING STRUCTURE. MAINTAIN EXISTING SLOPE OF SEWERS FOR EXTENSION INTO THE STORM CHAMBER. PROVIDE ALL NECESSARY FITTINGS AND COUPLINGS TO CONNECT TO THE CHAMBER.

PRECAST CONCRETE JUNCTION CHAMBER DETAILS
NOT TO SCALE




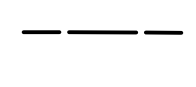


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COLLEEN DRIVE STORM IMPROVEMENTS
MAHONING COUNTY BOARDMAN, OHIO
CONSTRUCTION DETAILS (3 OF 3)

| |
|------------------------------|
| PROJECT NO: 232474 |
| DRAWING NAME: C-03 |
| SHEET 6 OF 11 |

LEGEND:

-  EXISTING PAVEMENT REMOVAL
-  PAVEMENT SAWCUT
-  EXISTING SEWER TO BE REMOVED
-  TREE TO BE REMOVED

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN HEREIN ARE PER TOPOGRAPHIC SURVEY PREPARED BY CT CONSULTANTS, INC DATED JANUARY 23, 2024.
2. EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE TO CONFIRM EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. IN THE EVENT UTILITY LOCATION OR DEPTHS DIFFER FROM IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE ENGINEER.



EXISTING FAILING DRIVEWAY - 6817 COLLEEN DR (FACING WEST)



EXISTING INLET (TO BE REMOVED)



EXISTING JUNCTION CHAMBER

DEMOLITION CODED NOTES:

- 1 REMOVE AND PROPERLY DISPOSE OF (3) EXISTING 36" CMP STORM PIPES, AS NOTED, FROM JUNCTION CHAMBER TO EXTENTS SHOWN IN PLAN
- 2 EXISTING ASPHALT PAVEMENT IN COLLEEN DRIVE FOR REMOVAL OF EXISTING SEWERS AND INSTALLATION OF NEW CULVERT. CONTRACTOR TO PROVIDE CLEAN AND NEAT SAWCUT EDGE FOR REMOVAL. REFER TO ASPHALT PAVEMENT REPLACEMENT DETAIL FOR REPLACEMENT SECTION IN THE ROADWAY.
- 3 EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED.
- 4 CONTRACTOR SHALL RESTORE LANDSCAPE BEDS NEAR THE RESIDENCE THAT ARE IMPACTED BY THE REMOVAL AND REPLACEMENT OF STORM SEWER IN THE SAME OR BETTER CONDITION.
- 5 REMOVE EXISTING WOODEN PRIVACY FENCE, POSTS AND FOUNDATIONS TO EXTENTS SHOWN. CONTRACTOR TO COORDINATE WITH HOMEOWNER TO REPLACE PRIVACY FENCE LIKE-IN-KIND.
- 6 REMOVE EXISTING TREE, STUMP, AND ROOT SYSTEM IMPACTED BY CONSTRUCTION OF THE PROPOSED STORM SEWER IMPROVEMENTS. TO BE INCLUDED IN CLEARING AND GRUBBING BID ITEM.
- 7 CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF EXISTING STORM INLET.
- 8 CONTRACTOR TO ABANDON SECTION OF FAILING 36" DIAMETER CMP STORM SEWER PIPE IN PLACE BY FILLING WITH FLOWABLE FILL OR GROUT. BULKHEAD ENDS OF THE SEWER WITH CONCRETE PER PIPE BULKHEAD DETAIL. CONTRACTOR SHALL USE MECHANISM TO ENSURE PIPE IS COMPLETELY FILLED WITH GROUT AND DOES NOT HAVE VOID SPACE REMAINING WITHIN THE PIPE.
- 9 CONTRACTOR SHALL REMOVE EXISTING ASPHALT DRIVEWAY FOR REPLACEMENT AT 6817 COLLEEN DRIVE. REFER TO TYPE "C" PAVEMENT REPLACEMENT (ASPHALT), DRIVEWAY DETAIL.
- 10 REMOVE AND CUT BACK EXISTING 15" STORM SEWER FOR CONNECTING TO PROPOSED JUNCTION CHAMBER.

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COLLEEN DRIVE STORM IMPROVEMENTS
 MAHONING COUNTY BOARDMAN, OHIO
EXISTING CONDITIONS PLAN

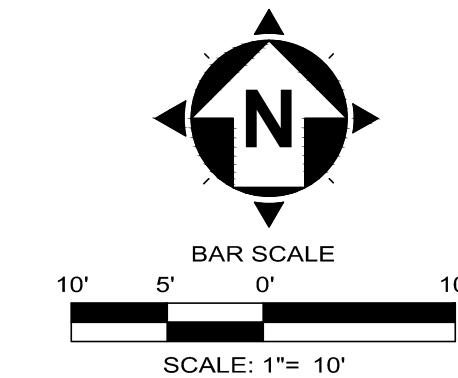
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SITE GENERAL NOTES:

1. CONTRACTOR TO COORDINATE WITH ODOT FOR STORM SEWER CLEANING THAT OCCURS WITHIN THE ROW.
2. ALL DEFECT LOCATIONS MARKED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING DEFECT LOCATIONS PRIOR TO CONDUCTING ANY REHABILITATION.
3. CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER IF THE CONDITION OF THE SEWER IS NOT REPRESENTATIVE OF THE PLANS.

STORM REHABILITATION NOTES:

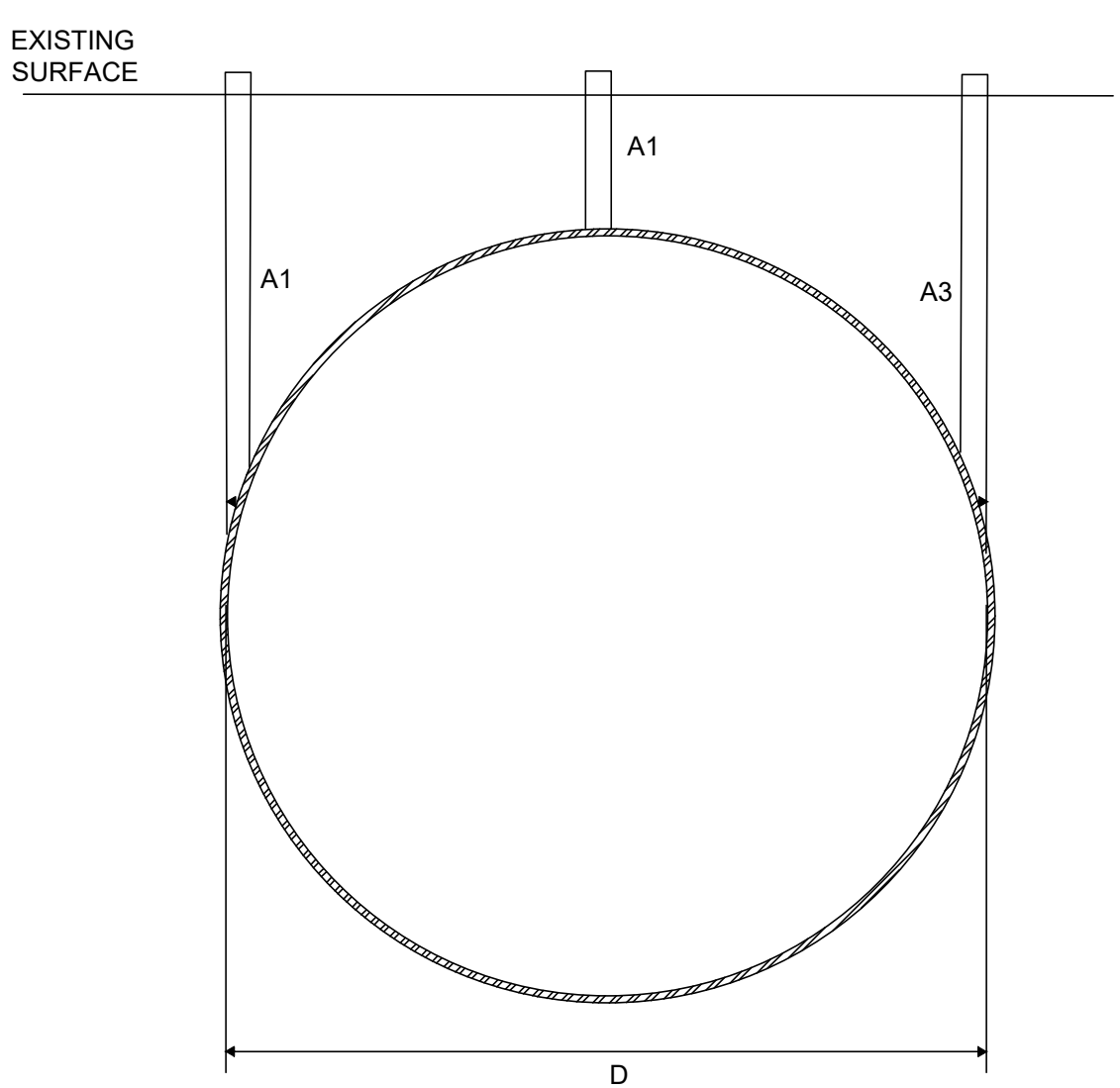
1. EXISTING STORM SEWERS TO RECEIVE HEAVY CLEANING PER EXTENTS SHOWN ON THE PLAN. THE LENGTHS SHOWN ARE APPROXIMATE AND TO SHOW INTENT. CONTRACTOR TO CONFIRM THE LENGTH THROUGH FIELD INVESTIGATION.
2. ROOT CUTTING AT JOINT. APPROXIMATELY 113FT UPSTREAM FROM AMH C-3.
3. INJECTABLE JOINT REPAIR - 113FT UPSTREAM AMH C-3.



* PHOTO PER CCTV REPORT PREPARED BY INSIGHT ON 3/3/2023



* PHOTO PER FIELD VISIT CONDUCTED BY CT CONSULTANTS ON 2/29/2024 (FACING WEST)

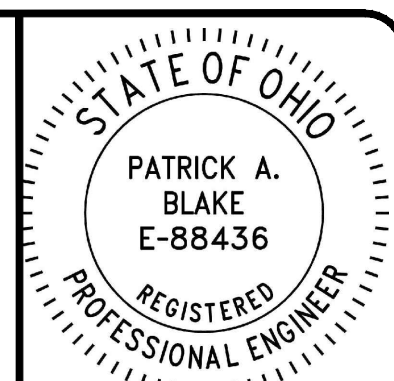


REFERENCE
 "A1" - INJECTION INSERTION POINT AT EDGE OF JOINT
 "A2" - INJECTION INSERTION POINT AT CENTER OF JOINT
 "A3" - INJECTION INSERTION POINT AT EDGE OF JOINT
 "D" - INNER DIAMETER = 36"

- NOTES:**
1. INJECTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH SECTIONS 330130.61 AND 330130.63.
 2. INJECTION POINTS WILL BE DRILLED THROUGH PAVEMENT OR GRASS AREAS. PAVEMENT MUST BE RESTORED AND BACKFILLED BY COMPLETION OF CONSTRUCTION.
 3. INSERTION POINTS SHALL BE MADE SUCH THAT THEY ARE ABLE TO SUFFICIENTLY SEAL THE PIPE JOINTS. THE CONTRACTOR SHALL MARK LOCATIONS AFTER TELEVISIONING THE SEWER. IN LOCATIONS WHERE DEPTH FROM TOP OF PIPE TO SURFACE IS GREATER THAN 6'-0", CONTRACTOR SHALL DRILL TO 6'-0" OR A DEPTH TO ENSURE MATERIAL ENCOMPASSES AREA AROUND JOINT.
 4. INJECTION POINT SIZE SHALL BE NO LARGER THAN 1" IN DIAMETER. EACH INJECTION POINT SHALL BE CAPPED, CUT, AND FLUSH WITH EXISTING GROUND SURFACE AFTER INJECTION MATERIAL HAS COMPLETELY CURED. CONTRACTOR IS RESPONSIBLE TO ENSURE NO DAMAGE IS MADE TO EXISTING UTILITIES WITHIN 10'-0" OF INJECTION POINT. CONTRACTOR SHALL REFERENCE TYPICAL CROSS SECTIONS FOR UTILITY CLEARANCE.
 5. CONTRACTOR SHALL COMPLETE POST CONSTRUCTION VERIFICATION AND REMOVE ANY EXCESS MATERIAL BEFORE COMPLETION OF CONSTRUCTION.
 6. CONTRACTOR SHALL USE 3016 OR WHAT IS REQUIRED TO FILL VOIDS AND SEAL JOINTS. MATERIAL USED OVER 3016 SHALL BE PAID AS EXTRA PER THE POUND.

JOINT REPAIR DETAIL
 NOT TO SCALE

PROPOSED STORM SEWER REHABILITATION

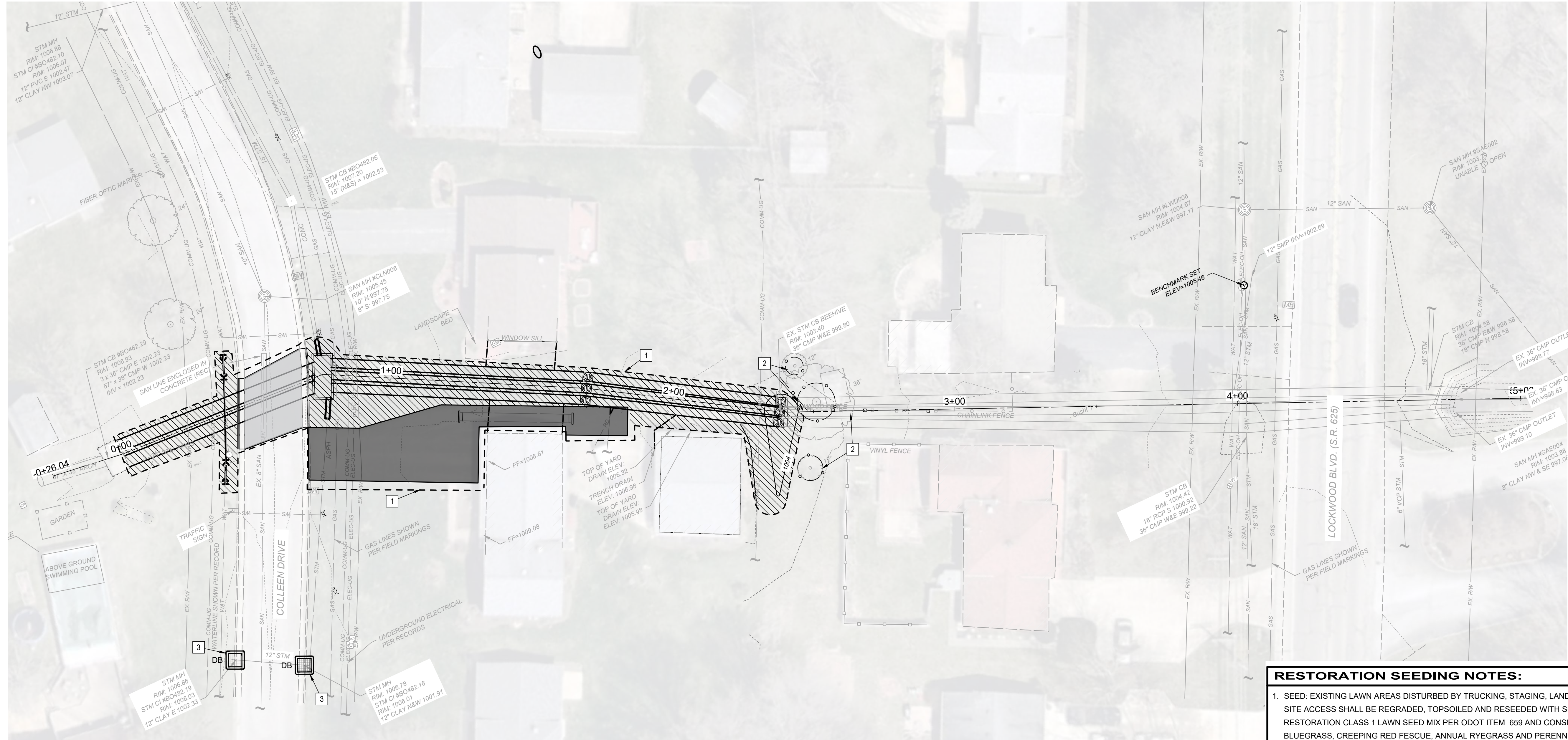
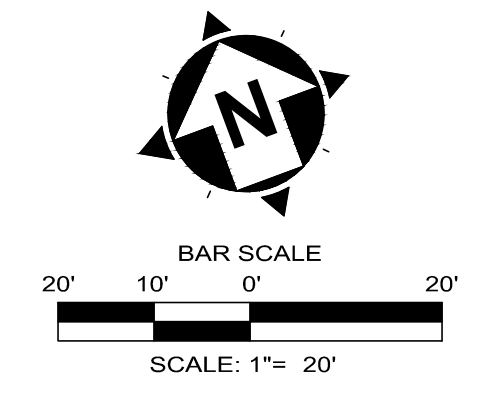


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COLLEEN DRIVE STORM IMPROVEMENTS
 MAHONING COUNTY BOARDMAN, OHIO
PROPOSED STORM SEWER REHAB

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- SWPPP LEGEND:**
- DISTURBED LIMITS
 - o-o- TREE PROTECTION FENCE
 - DB [] STORM INLET PROTECTION; DANDY BAG

- GENERAL NOTES:**
- THE INTENTION OF THIS PLAN IS TO PROVIDE GENERAL GUIDANCE FOR TEMPORARY EROSION & SEDIMENT CONTROL DURING CONSTRUCTION TO BE IMPLEMENTED BY THE CONTRACTOR. REFER TO SWPPP NOTES AND DETAIL SHEETS FOR DETAILED INFORMATION ON CONSTRUCTION STORMWATER MANAGEMENT CONTROLS. LUMP SUM PRICE FOR EROSION AND SEDIMENT CONTROL INCLUDES CONTRACTOR TO DETERMINE SWPPP PLAN WITH ESC CONTROLS AND IMPLEMENTATION OF SAID PLAN.

- CODED NOTES:**
- APPROXIMATE WORK LIMITS
 - CONTRACTOR SHALL INSTALL TREE PROTECTION FENCE, PER DETAIL.
 - STORM INLET PROTECTION, PER DETAIL

- SEEDING LEGEND:**
- [Hatched Box] RESTORATION SEED MIX CLASS 1 -500 SY (SHOWN FOR INTENT)
ALL AREAS DISTURBED BY CONSTRUCTION OR VEHICLE TRACKING TO RECEIVE RESTORATION SEEDING.

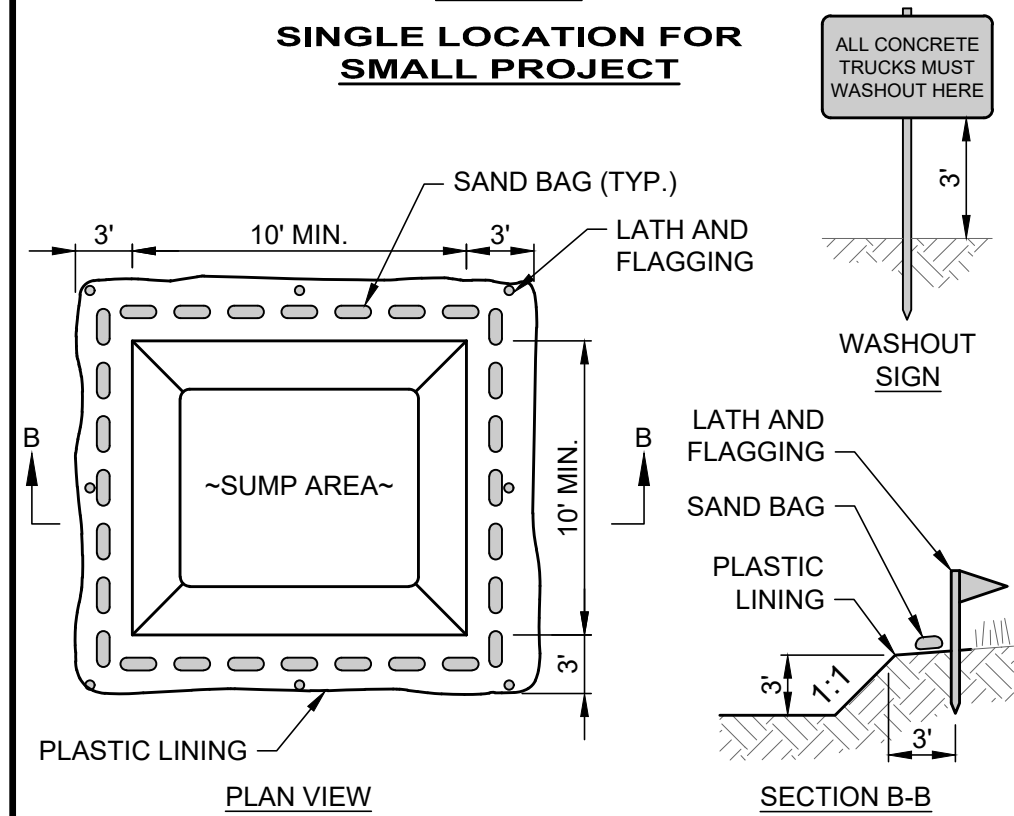
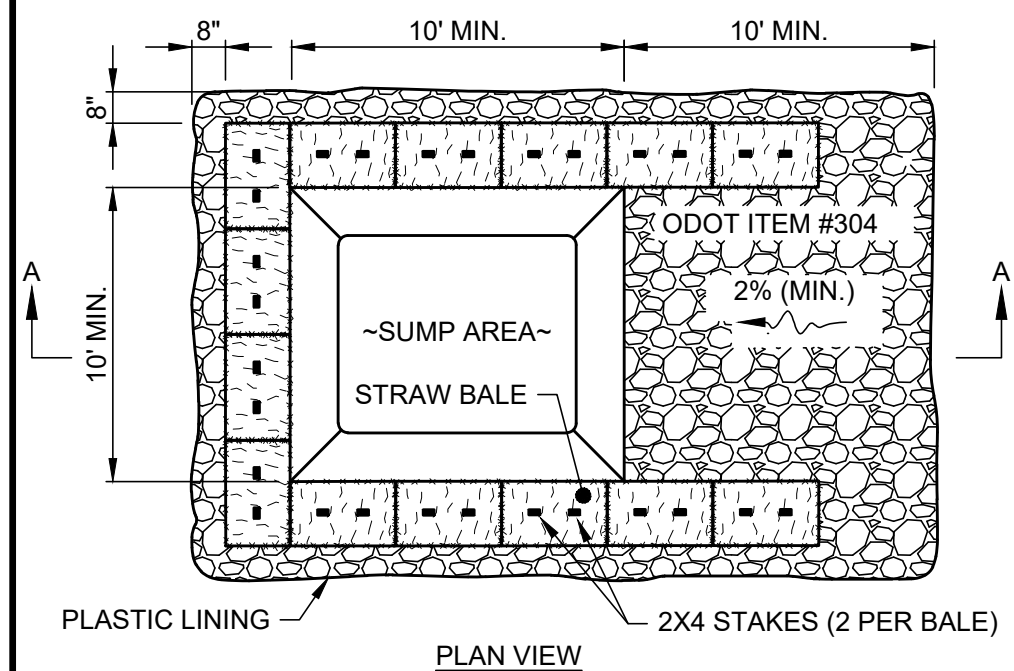
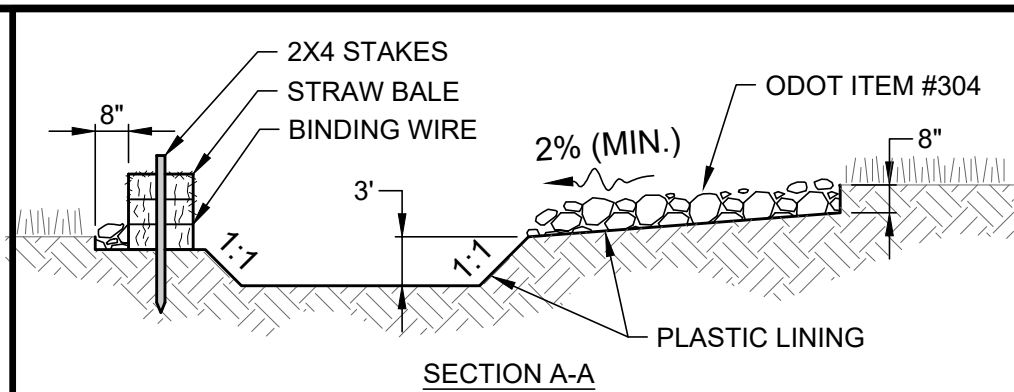
- RESTORATION SEEDING NOTES:**
- SEED: EXISTING LAWN AREAS DISTURBED BY TRUCKING, STAGING, LANDSCAPE REMOVAL, AND SITE ACCESS SHALL BE REGRADED, TOPSOILED AND RESEEDED WITH SPECIFIED LAWN RESTORATION CLASS 1 LAWN SEED MIX PER ODOT ITEM 659 AND CONSISTS OF KENTUCKY BLUEGRASS, CREEPING RED FESCUE, ANNUAL RYEGRASS AND PERENNIAL RYEGRASS APPLIED AT A RATE OF 5-10 LBS/1,000 SQ. FT. THE QUANTITY OF SEED MIX IS BASED ON THE ESTIMATED EXTENTS OF STAGING AND ESTIMATE SITE ACCESS ROUTE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE LAWN RESTORATION SEED MIX TO RETURN LAWN, EXPOSED LANDSCAPE BED AREA AND RIGHT OF WAY AREAS TO ORIGINAL OR BETTER CONDITION. SEEDING IS TO BE INCLUDED IN PRICE OF LAWN RESTORATION.
 - SCHEDULE: SPRING SOWN WORK SHALL BE INSTALLED BETWEEN APRIL 1ST AND MAY 30TH AND FALL SOWN WORK SHALL BE INSTALLED BETWEEN SEPTEMBER 1ST AND OCTOBER 15TH. NO PERMANENT SEEDING SHALL TAKE PLACE BETWEEN MAY 30TH AND SEPTEMBER 1ST AND BETWEEN OCTOBER 15TH AND APRIL 1ST WITHOUT THE ENGINEER'S APPROVAL.
 - MOWING: MOW LAWN AREAS DURING THE PERIOD OF MAINTENANCE TO A HEIGHT OF 2 INCHES WHENEVER THE HEIGHT OF THE GRASS BECOMES 3 INCHES. A MINIMUM OF 3 MOWINGS IS REQUIRED DURING THE PERIOD OF MAINTENANCE.
 - WATERING: THE CONTRACTOR SHALL KEEP ALL WORK AREAS WATERED DAILY TO ACHIEVE SATISFACTORY GROWTH. WATER SHALL BE APPLIED AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET. IF WATER IS LISTED AS A PAY ITEM, IT SHALL BE SEPARATELY PAID FOR BASED ON THE ACTUAL AMOUNT OF WATER USED, MEASURED IN THOUSANDS OF GALLONS.

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COLLEEN DRIVE STORM IMPROVEMENTS
MAHONING COUNTY BOARDMAN, OHIO
SWPPP PLAN

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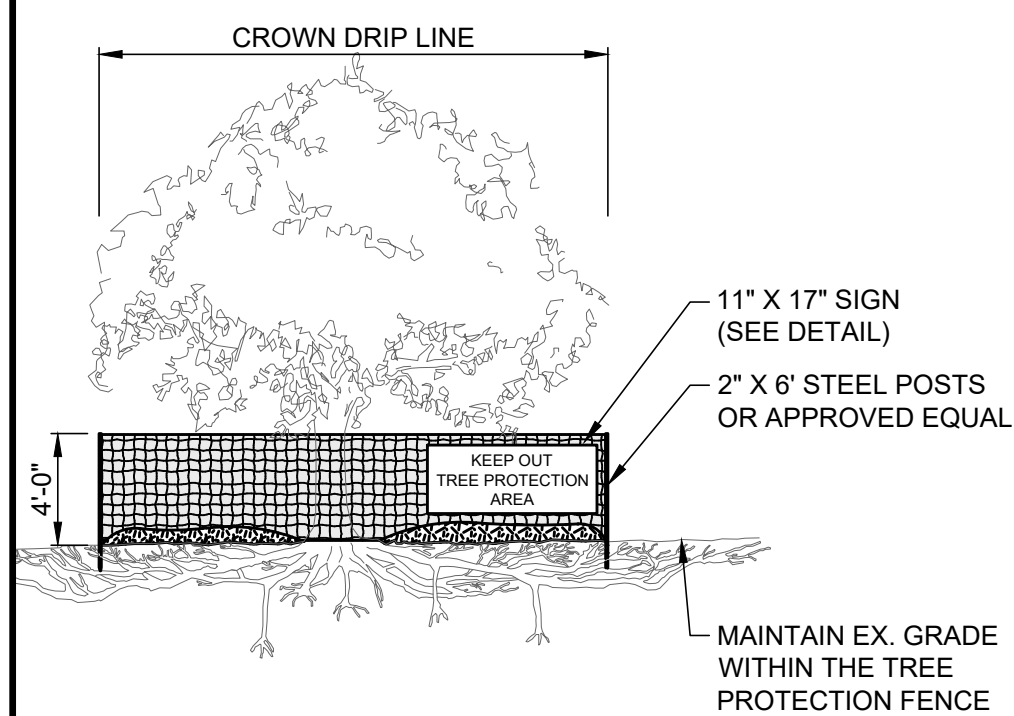
TEMPORARY LOCATION FOR MULTIPLE PHASE OR LARGE PROJECT

NOTES:

- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
- IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
- CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
- PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
- CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

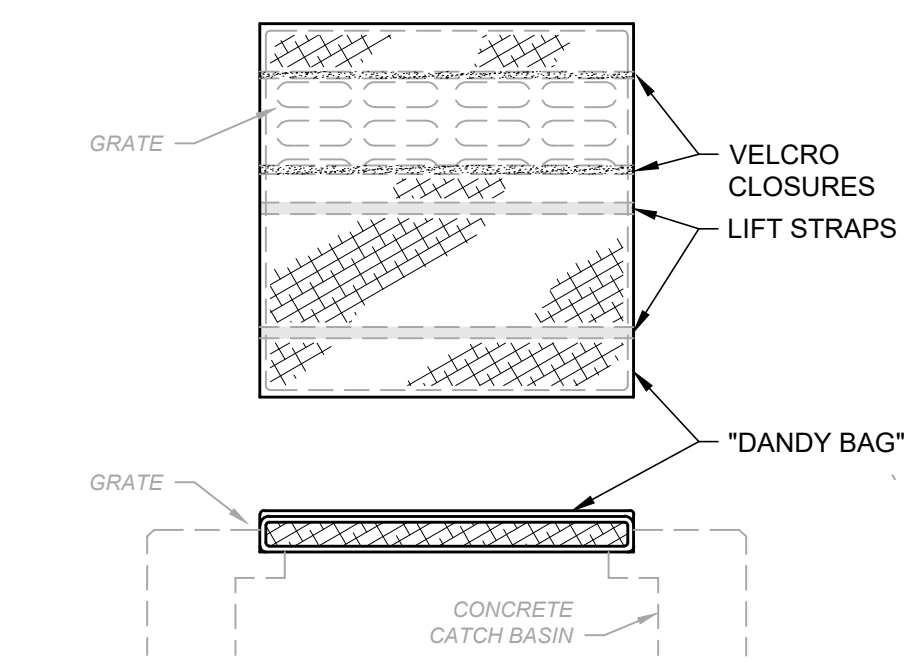
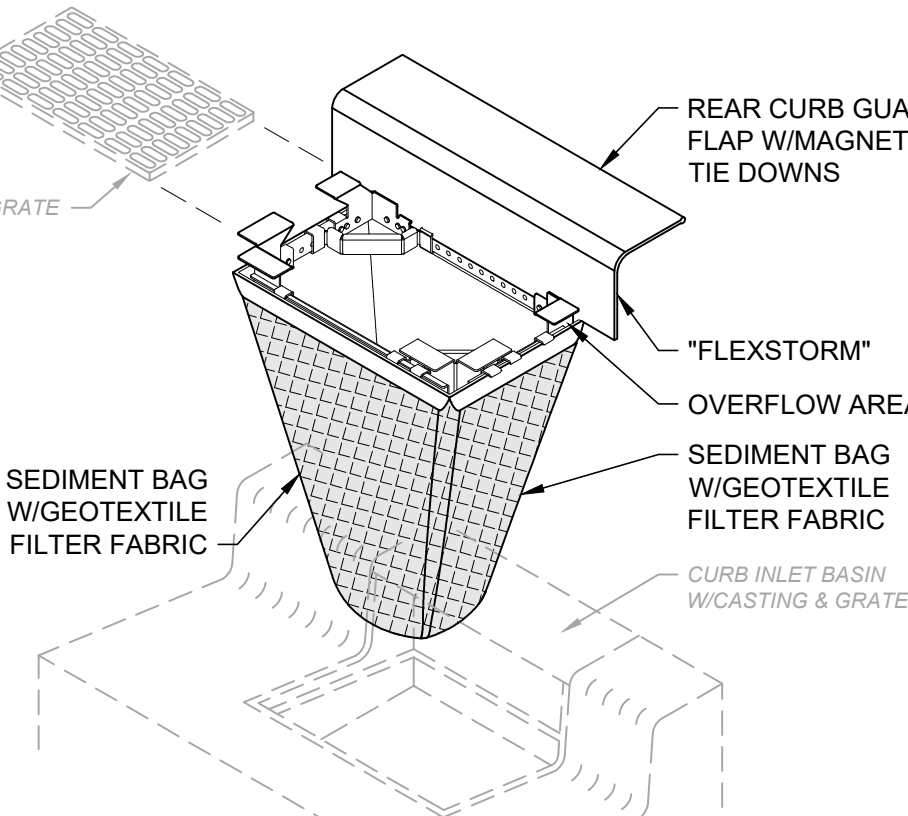
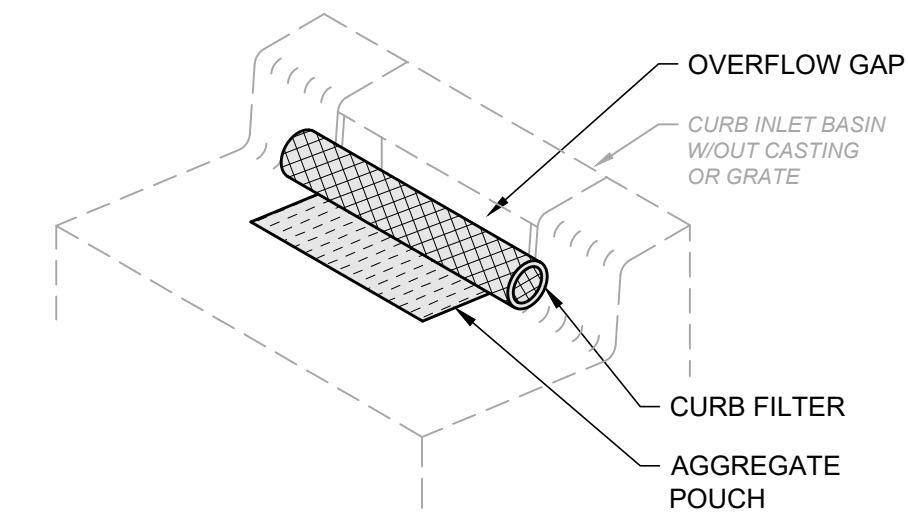
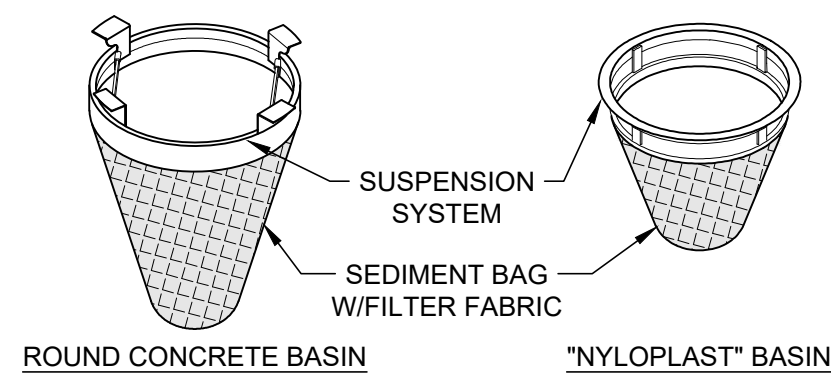
CONCRETE WASHOUT DETAIL

SCALE: NONE



TREE PROTECTION DETAIL

SCALE: NONE



NOTES:

- ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED.
- INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
- NOT ALL ITEMS SHOWN MAY APPLY OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.

INLET PROTECTION DETAIL

SCALE: NONE

NOTES:

- TREE PROTECTION FENCE MUST BE INSTALLED PRIOR TO BEGINNING CLEARING OPERATIONS AND REMAIN UNTIL FINAL GRADING HAS BEEN COMPLETED.
- FENCE MUST BE PLACED BEYOND THE DRIP LINE OR CANOPY OF TREES.
- FENCE SHALL BE ORANGE COLOR, HIGH DENSITY POLYETHYLENE FENCING WITH 3.5' X 1.5' OPENINGS.
- STEEL POSTS SHALL BE INSTALLED AT 8' O.C. MIN.
- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING, INCLUDING FENCE INSTALLATION AND REMOVAL.

TREE PROTECTION DETAIL

SCALE: NONE

SITE INFORMATION

PROJECT INFORMATION:
6817 COLLEEN DR., 6811 COLLEEN DR., 6820 LOCKWOOD BLVD,
AND 6840 LOCKWOOD BLVD
TOWNSHIP OF BOARDMAN, MAHONING COUNTY, OHIO 44512

ENGINEER INFORMATION:
CT CONSULTANTS, INC.
8150 STERLING COURT
MENTOR, OHIO 44060
CONTACT: PATRICK BLAKE, PE
PHONE: 440-530-2341

TYPE OF CONSTRUCTION:
(x) NEW () MAINTENANCE () REDEVELOPMENT

TYPE OF PROJECT:
(x) UTILITY

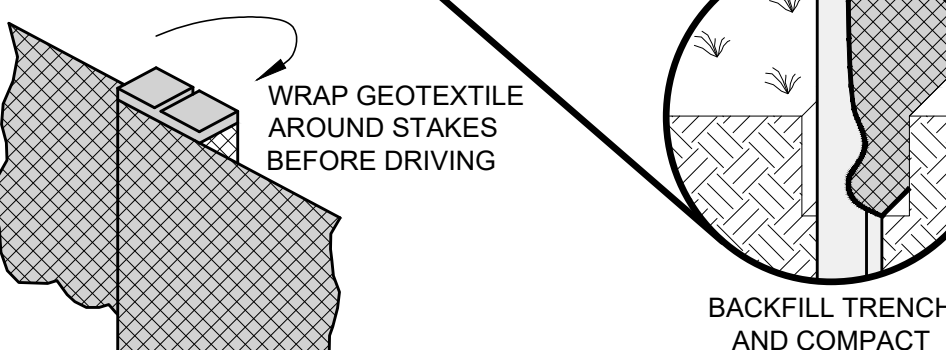
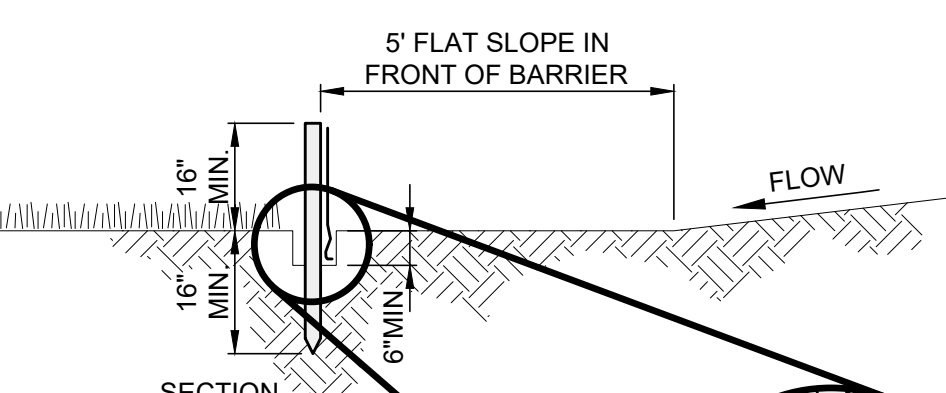
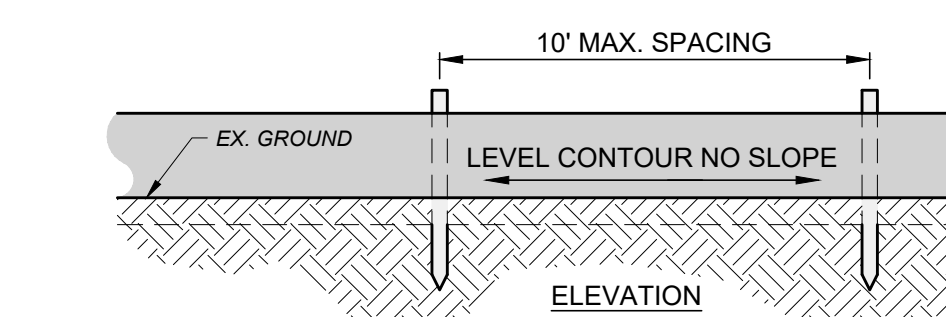
DESCRIPTION OF PROJECT:
REMOVE OF EXISTING TRIPLE BARREL 36" STORM SEWER. INSTALL NEW SEWERS FROM WEST SIDE OF COLLEEN DRIVE TO IN BETWEEN RESIDENTIAL HOMES. PERFORM REHABILITATION OF SEGMENT OF EXISTING SEWERS. GRADING AND RESTORATION ABOVE THE NEW SEWER INSTALLATION TO PROMOTE POSITIVE DRAINAGE TO THE SEWER.

SOIL DISTURBING ACTIVITIES INCLUDE:
EROSION AND SEDIMENT CONTROL INSTALLATION; REMOVAL OF VEGETATION, TOPSOIL, UTILITIES AND SOIL BENEATH PAVEMENT SUBBASE; EARTHWORK GRADING; AND INSTALL OF NEW UTILITIES

DESCRIPTION OF PRIOR LAND USE:
RESIDENTIAL AREA IN BETWEEN FOUR HOMES BETWEEN COLLEEN DR. AND LOCKWOOD BLVD. STORM SEWER DISCHARGES TO A DITCH WHICH IS TRIBUTARY TO CRANBERRY RUN.

SITE AREA INFORMATION:
PROJECT LIMIT/CONSTRUCTION AREA: 0.20 AC.
AREA OF SOIL DISTURBANCE: 0.10 AC.
INCREASE/DECREASE OF IMPERVIOUS AREA: 0 %

NAME OF RECEIVING STREAM, SURFACE WATER OR MS4:
BOARDMAN TOWNSHIP MS4 TO UNNAMED DITCH EAST OF LOCKWOOD BLVD.



NOTES:

- SILT FENCE MAY ONLY PASS RUNOFF AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, THEN CHANGE THE LAYOUT OF THE SILT FENCE, REMOVE ACCUMULATED SEDIMENT OR INSTALL OTHER PRACTICES.
- SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, VERIFICATION FABRIC IS SECURELY ATTACHED TO FENCE POSTS, AND VERIFICATION FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED 1/3 THE FENCE HEIGHT.

SILT FENCE DETAIL

SCALE: NONE

EROSION CONTROL NOTES

- SPECIAL MEASURES SHALL BE TAKEN TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
- DIVERT SURFACE RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN THE TIME FRAMES IN THE FOLLOWING TABLES:

| AREA REQUIRING TEMPORARY STABILIZATION | TIME FRAME TO APPLY CONTROLS |
|--|--|
| ANY OTHER AREA TO BE DORMANT MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR | WITHIN 7 DAYS OF MOST RECENT DISTURBANCE |
| AREA TO REMAIN IDLE OVER WINTER | PRIOR TO ONSET OF WINTER WEATHER |
| AREA TO BE PAVED | STABILIZE WITH STONE SUBBASE UNTIL PAVED |

| AREA REQUIRING PERMANENT STABILIZATION | TIME FRAME TO APPLY CONTROLS |
|--|---------------------------------------|
| ANY AREA AT FINAL GRADE | WITHIN 7 DAYS OF REACHING FINAL GRADE |

OTHER WASTE CONTROL NOTES

- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS. ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, MUST BE DISPOSED OF IN A CONCRETE WASHOUT AREA TO COLLECT AND HARDEN.
- OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADS TO REMOVE MUD, DIRT OR ROCK TRACKED FROM THE SITE AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY. DUMP TRUCKS Hauling MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPULIN.
- IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS SOLID OR LIQUID WASTE INCLUDING TRASH, CONSTRUCTION DEBRIS, SOLVENTS, PAINT, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUND, ANTIFREEZE OR OTHER TOXIC OR HAZARDOUS WASTE. WASTE MATERIALS SHALL BE COLLECTED IN A SECURELY LIDDED DUMPSTER, DISPOSED OF IN AN APPROVED LANDFILL AND EMPTIED AS NECESSARY.
- FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA WITH A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. A DIKED AREA IS NOT NECESSARY IF A SELF-CONTAINED SPILL PROOF TANK IS USED.
- ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES TO THE LOCAL FIRE DEPARTMENT AND OHIO EPA.
- CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED OR HAZARDOUS WASTE MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK AND DISPOSED OF AS A WASTE WATER.

GENERAL NOTES

- THE CONTRACTOR SHALL REVIEW AND FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE CURRENT, ACTIVE OHIO EPA NPDES PERMIT NO. 3IN00000*HD.
- THIS SWP3 HAS BEEN PREPARED SHOWING THE ITEMS LISTED BELOW, BUT THE CONTRACTOR MAY NEED TO MOVE OR ADD ITEMS AS CONSTRUCTION PROGRESSES OR DURING THE VARIOUS STAGES OF CONSTRUCTION.
 - LIMITS OF EARTH DISTURBING ACTIVITY
 - EROSION AND SEDIMENT CONTROL MEASURES
 - INLET PROTECTIONS
 - CONCRETE WASHOUT PIT
 - ANY OTHER EROSION CONTROL REQUIRED
- ALL WORK REQUIRED TO IMPLEMENT THE SWP3 INCLUDING INSPECTION FEES, MAINTENANCE AND REPAIRS SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL AMEND THE SWP3 WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES INSTALLATION OF BMPs OR MODIFICATION TO EXISTING BMPs.
- THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORMWATER GENERAL PERMIT OHC000006 AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
- THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE A "DELEGATION OF AUTHORITY FOR STORMWATER POLLUTION PREVENTION PLAN" AND PROVIDE A COPY TO THE OWNER AND SWCD.
- ALL PROCEDURES AND REQUIREMENTS CONTAINED IN THIS SWP3 APPLY TO ALL GENERAL AND SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, INFORM, REQUIRE AND ENFORCE ALL ASPECTS AND PROCEDURES OF THE SWP3. THE CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS THAT ARE OR MAY BE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORMWATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL", AND PROVIDE A COPY TO THE OWNER AND SWCD AS NEEDED. EACH CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL FINES, DAMAGES AND LIABILITY RESULTING FROM FAILURE TO PROVIDE THE REQUIRED POLLUTION CONTROL.
- THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE SWP3 AND INSPECTION LOGS/REPORTS.
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD.

MAINTENANCE REQUIREMENTS

- BMPs SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS, POSSESS THE TECHNICAL SKILLS TO ASSESS SITE CONDITIONS THAT COULD IMPACT STORM WATER QUALITY, AND CAN ASSESS THE EFFECTIVENESS OF ANY BMP SELECTED.
- TO DETERMINE IF THE SWP3 WAS PROPERLY IMPLEMENTED.
- THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION SUMMARIZING INSPECTION RESULTS INCLUDING THE FOLLOWING:
 - DATE OF INSPECTION
 - NAME AND QUALIFICATION OF THE INSPECTOR
 - WEATHER CONDITIONS
 - LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION OR OTHER POLLUTANTS WERE OBSERVED.
 - LOCATIONS OF BMPs NEEDING MAINTENANCE.
 - LOCATIONS OF BMPs FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION.
 - LOCATION OF AREAS IN NEED OF ADDITIONAL BMPs NOT IN PLACE AT THE TIME OF INSPECTION.
 - CORRECTIVE ACTIONS REQUIRED, CHANGES TO THE SWP3 AND IMPLEMENTATION DATES.
 - EROSION AND SEDIMENT CONTROL AMENDMENT LOG
- ALL INCIDENCES OF NON-COMPLIANCE MUST BE IDENTIFIED IN THE REPORT. IF A REPORT DOES NOT IDENTIFY INCIDENCES OF NON-COMPLIANCE, IT MUST CONTAIN A CERTIFICATION THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
- THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER WEATHER (I.E. SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
 - FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR EXTENDED PERIODS OF TIME (I.E. MORE THAN 1 MONTH).

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

- CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES.
- BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPs.
- ESTABLISH STAGING AREA AND NON-SEDIMENT BMPs.
- INSTALL SILT FENCE, INLET PROTECTION
- INSTALL OTHER TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS AS SOON AS POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER FIRST SOIL DISTURBANCE. INSPECT AND MAINTAIN BMPs FOR THE PROJECT DURATION UNTIL UPSLOPE AREAS ARE PERMANENTLY STABILIZED.
- BEGIN SITE DEMOLITION AND CONSTRUCTION.
- BEGIN EARTHWORK OPERATIONS.
- APPLY TEMPORARY SEED.
- INSTALL STORM SEWERS AND INLETS.
- INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND INLETS.
- APPLY PERMANENT SEED.
- INSTALL LANDSCAPING.
- CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING, AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED.
- REMOVE TEMPORARY BMPs FROM STORM SEWER AND INLETS, AND OPEN GUTTERS AND DITCHES TO OBTAIN FREE DRAINAGE.
- DISPOSE OF ALL DEBRIS AND WASTE MATERIAL.

EROSION CONTROL TIMETABLE

| STABILIZATION TYPE | YEAR | | | | | | | | | | | |
|--------------------|------|---|---|---|---|---|---|---|---|---|---|---|
| | J | F | M | A | M | J | J | A | S | O | N | D |
| TEMPORARY SEEDING | | | | | o | o | o | o | o | o | o | |
| PERMANENT SEEDING | | | | | o | o | o | o | o | o | o | |
| SODDING | | | | | o | o | o | o | o | o | o | |
| MULCHING | o | o | o | o | o | o | o | o | o | o | o | o |
| PAVING | | | | | | o | o | o | o | o | o | |

o IRRIGATION NEEDED

SEDIMENT CONTROL NOTES

- INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING.
- PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF CLEARING AND GRUBBING, AND CONTINUE TO FUNCTION UNTIL ALL DISTURBED UPLAND AREAS ARE STABILIZED.
- SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL.
- TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT, PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
- SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.



| DATE | REVISION | NO | SCALE | DATE | DESIGNED BY | DRAWN BY | CHECKED BY |
|------|----------|----|-------|------------|-------------|----------|------------|
| | | | NONE | 10/22/2024 | FAB | FAB | FAB |

| DATE | DESIGNED BY | DRAWN BY | CHECKED BY |
|------------|-------------|----------|------------|
| 10/22/2024 | FAB | FAB | FAB |

PROJECT NO:
232474

DRAWING NAME
C-08

SHEET **11** OF **11**

COLLEEN DRIVE STORM IMPROVEMENTS
BOARDMAN, OHIO
MAHONING COUNTY

SWPPP NOTES & DETAILS