

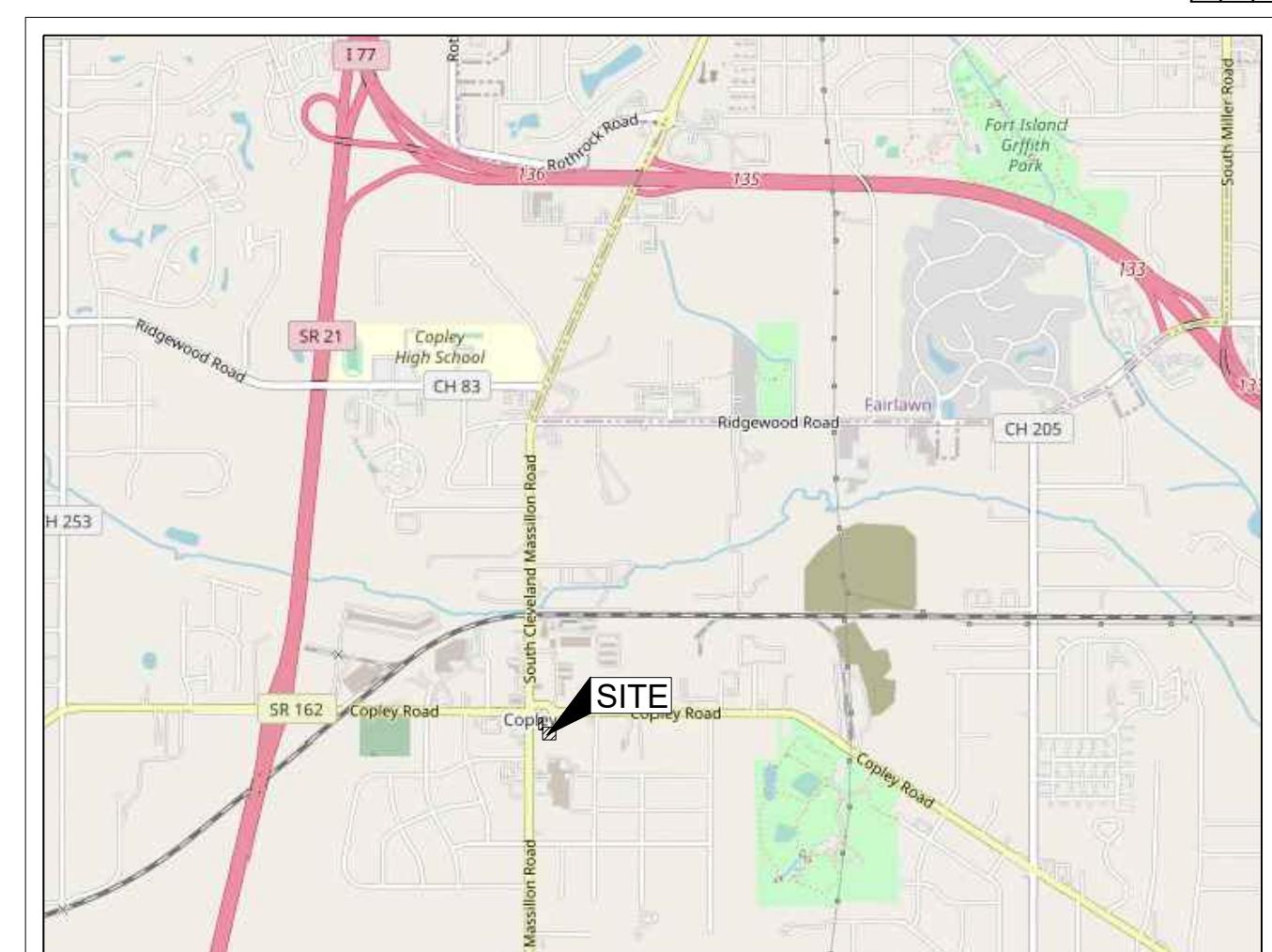
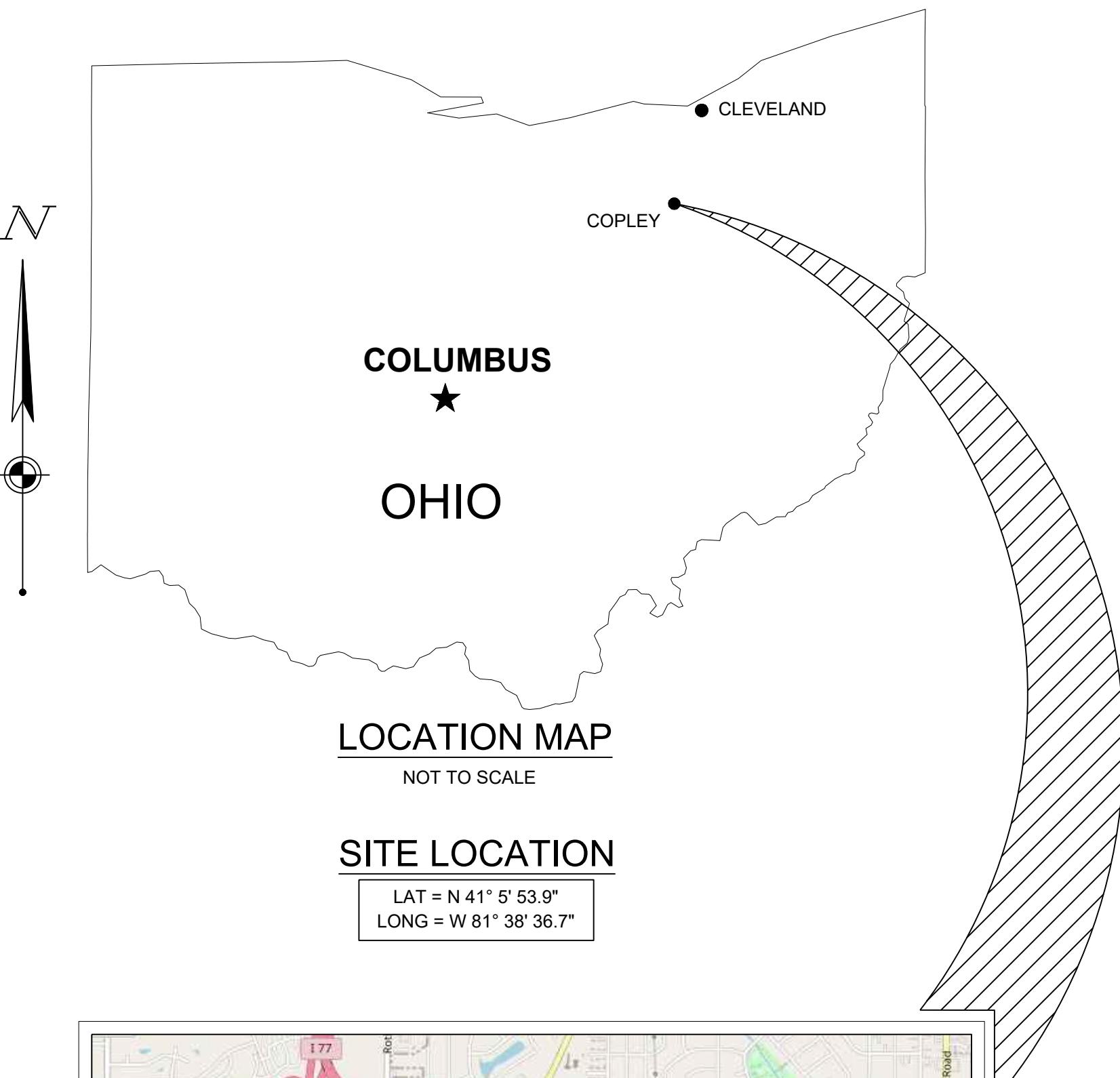
# IMPROVEMENT PLANS

## FOR

### COPLEY TOWNSHIP PARKING LOT

3550 COPLEY ROAD  
COPLEY TOWNSHIP  
SUMMIT COUNTY, OHIO

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FORTY-EIGHT (48) HOURS BEFORE  
DIGGING IS TO COMMENCE, THE  
CONTRACTORS SHALL NOTIFY THE  
FOLLOWING AGENCIES: OHIO 811 AT 811  
OR 1 (800) 362-2764 AND ALL OTHER  
AGENCIES WHICH MIGHT HAVE  
UNDERGROUND UTILITIES INVOLVING THIS  
PROJECT AND ARE NONMEMBERS OF OHIO  
811.



VARIOUS UTILITIES DO WORK WITHIN VARIOUS PARTS OF THE COUNTY. PLEASE VERIFY LOCAL UTILITIES IN THE VICINITY OF THE SITE.

**ELECTRIC:**  
FIRST ENERGY  
341 WHITE POND DR.  
AKRON, OHIO 44320  
(800) 633-4766

**STORM WATER:**  
SUMMIT COUNTY ENGINEER'S OFFICE  
538 EAST SOUTH STREET  
AKRON, OHIO 44311

#### AUTHORITIES WITH JURISDICTION

#### PROPERTY DATA:

COPLEY TOWNSHIP, SUMMIT COUNTY, OHIO  
PARCELS IN PROJECT:

150-29-22 (COPLEY ROAD)  
150-06-53  
150-01-76

MAIN PARCEL ADDRESS: 1540 S. CLEVELAND MASSILLON ROAD  
COPLEY TOWNSHIP, SUMMIT COUNTY, OH

ZONING: COPLEY - RESIDENTIAL MEDIUM DENSITY (R - MD)  
COPLEY - COMMERCIAL GENERAL RETAIL (C - GR)

FLOOD STATEMENT: PARCEL IS LOCATED WITHIN ZONE "X" (AREA OF MINIMAL  
FLOODING) AS INDICATED BY THE FLOOD INSURANCE RATE  
MAP (FIRM) MAP NUMBER 39153C0157E, EFFECTIVE DATE:  
04/19/2016; PUBLISHED BY THE FEDERAL EMERGENCY  
MANAGEMENT AGENCY.

Sheet List Table	
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C3.1	SEDIMENT & EROSION CONTROL NOTES & DETAILS
C3.2	SEDIMENT & EROSION CONTROL DETAILS
C4.0	SITE & PAVEMENT PLAN & DETAILS
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C5.1	UNDERGROUND DETENTION DETAILS
C6.0	LANDSCAPE PLAN
C7.0	CONSTRUCTION DETAILS

BENCHMARKS				
	ELEVATION*	EASTING**	NORTHING**	DESCRIPTION
BM A	1049.09	2204400.94	522967.15	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE
BM B	1049.99	2204268.16	522891.72	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE

\* VERTICAL DATUM: NAVD88 AS DETERMINED BY A SERIES OF GPS  
OBSERVATIONS USING ODOT VRS NETWORK

\*\* HORIZONTAL DATUM: U.S. STATE PLANE COORDINATE SYSTEM, OHIO NORTH  
ZONE, NAD83 (2011) AS DETERMINED BY A SERIES OF GPS  
OBSERVATIONS USING ODOT VRS NETWORK

**SURVEY PROVIDED BY:**  
CESO INC.  
175 MONROSE WEST AVE, STE 400  
AKRON, OH 44321  
PHONE: (330) 842-9061  
CONTACT: STEVE CLUTTER  
DATED: 04/12/2022

#### OWNER/DEVELOPER:

COPLEY TOWNSHIP  
1540 S. CLEVELAND-MASSILLON ROAD  
COPLEY, OHIO 44321  
LOUDAN KLEIN  
(330) 666-0108

#### CIVIL ENGINEER & SURVEYOR:

CESO, INC.  
175 MONROSE WEST AVE., STE 400  
AKRON, OH 44321  
PHONE: (330) 396-5676



REVISION DESCRIPTION

DATE



**COPLEY TOWNSHIP  
PARKING LOT**  
3550 COPLEY ROAD  
AKRON, OH 44321

#### COVER SHEET

ISSUE:  
NOT FOR CONSTRUCTION  
DATE:  
01/20/2023  
JOB NO.: 760658  
DESIGN: MBS  
DRAWN: MBS  
CHECKED: RAP

SHEET NO.  
C1.0



## DEMOLITION GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE DEMOLITION, REMOVAL AND DISPOSAL IS TO BE APPROVED BY ALL GOVERNING AUTHORITIES OF ALL FACILITIES SUCH AS: STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, WELLS, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER. IF UNDOCUMENTED FACILITIES ARE FOUND ON SITE, CONTRACTOR SHALL CONTACT THE OWNER AND UTILITY COMPANY PRIOR TO REMOVAL. ALL FACILITIES SHALL BE PLUGGED, ABANDONED, OR REMOVED PER STATE AND LOCAL REQUIREMENTS.
2. FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL GOVERN THE DISPOSAL OF DEBRIS INCLUDING ANY POTENTIALLY HAZARDOUS AND TOXIC MATERIALS. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY FOR OSHA REQUIREMENTS AT ALL TIMES.
4. PRIOR TO DEMOLITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE STATE 811 AND NOTIFY ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED/RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
5. CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO INHABITED BUILDINGS ON SITE AND ADJACENT PROPERTIES AT ALL TIMES. INTERRUPTIONS SHALL BE APPROVED BY THE OWNERS OF THE BUILDINGS/PROPERTIES.
6. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON SITE LOCATIONS OF EXISTING UTILITIES IF THE LOCATION OR ELEVATION OF THE EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE PLANS. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
7. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES TO REMAIN INSIDE AND OUTSIDE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGES AND NOTIFY THE CITY/COUNTY PRIOR TO CONSTRUCTION START. ANY EXISTING SITE FEATURE TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, CURB, ETC. SHALL BE REPAIRED TO A CONDITION THAT IS EQUAL TO, OR BETTER THAN, THE EXISTING CONDITIONS. PRIOR TO BEING DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
8. CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
9. CONTRACTOR TO MAINTAIN TRAFFIC ON COBLEY ROAD (SR 162) AT ALL TIMES IN ACCORDANCE WITH THE ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) REFER TO CONSTRUCTION DETAILS SHEET C7.0 FOR MORE INFORMATION.
10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
11. PRIOR TO DEMOLITION, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE GOVERNING AGENCIES GUIDELINES AND STANDARDS. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SAWCUT LINE PROVIDED IS FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE SAWCUT THAT WILL BE REQUIRED AS WELL AS PAVEMENT REPAIRS TO INSTALL UTILITY TRENCHING. IF ANY DAMAGE OCCURS IN ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THAT WHICH IS NECESSARY TO COMPLETE THE INTENT OF THE PROPOSED IMPROVEMENTS. SAWCUT EXISTING PAVEMENT TO FULL DEPTH, USING CARE TO CUT NEAT, STRAIGHT LINES, CUT AT EXISTING JOINTS WHERE POSSIBLE.
13. THE CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE PLANS AND VISIT THE SITE TO DETERMINE THE ITEMS THAT MUST BE REMOVED TO COMPLY WITH THE SITE DEVELOPMENT PLANS. NO EXTRA FEE WILL BE PAID FOR THE REMOVAL OF ANY ITEM NOT LISTED THAT IS VISIBLE UPON A SITE VISIT. THE DEMOLITION PLAN IS INTENDED TO PRESENT THE SCOPE OF THE DEMOLITION, AND DOES NOT GUARANTEE THAT ALL ITEMS ARE ADDRESSED.
15. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS NOTED OTHERWISE.
16. ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.
17. ALL TRENCHES, HOLES AND PITS RESULTING FROM THE REMOVAL AND ABANDONMENT OF ANY STRUCTURE OR OBSTRUCTION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
18. REMOVE EXISTING VEGETATION AND STRIP TOPSOIL TO ITS FULL DEPTH WITHIN LIMITS OF DISTURBANCE. CONTRACTOR TO DISPOSE OFF SITE ALL REMOVED VEGETATION AND STRIPPED TOPSOIL.

## EXISTING FEATURES LEGEND

APPLIES TO ALL CIVIL SHEETS

○ Cleanout	○ Power Telephone Pole	□ Gas Test Valve
□ Curb Inlet	○ Telephone Pole	← Guy Wire
○ Dec Tree	○ Signal Pole	○ Light Pole
○ Storm Manhole	↓ Sign	○ Water Valve
○ Telephone Manhole	○ Ground Light	□ Traffic Control Box
○ Bollard	○ Post	○ Fire Hydrant
□ Catch Basin	○ Power Pole	□ Gas Meter
○ Catch Basin round	○ Power Telephone Light Pole	○ Gas Valve
□ Electric Box	○ Utility Pole	○ Water Shut-Off
□ Electric Meter	○ Sanitary Manhole	#### Structure Number

## PROPOSED FEATURES LEGEND

REMOVE EXISTING GRAVEL PAVEMENT
SAWCUT AND REMOVE EXISTING PAVEMENT
REMOVE EXISTING FINE GRAVEL SURFACE

X X X X X UTILITY LINE TO BE REMOVED &amp; OR RELOCATED

REMOVE AND DISPOSE OF EXISTING TREE
REMOVE AND DISPOSE OF EXISTING FENCE

REMOVE EXISTING TREE LINE
LOD LIMITS OF DISTURBANCE

BENCHMARKS			
	ELEVATION*	EASTING**	NORTH**
BM A	1049.09	2204400.94	522967.15
BM B	1049.99	2204268.16	522891.72

\* VERTICAL DATUM: NAVD88 AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK

\*\* HORIZONTAL DATUM: U.S. STATE PLANE COORDINATE SYSTEM, OHIO NORTH ZONE NAD83 (2011) AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK

40-8 (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: OHIO 811 AT 811 OR 1 (800) 362-2764 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF OHIO 811.

ISSUE: NOT FOR CONSTRUCTION  
DATE: 01/20/2023  
JOB NO.: 760658  
DESIGN: MBS  
DRAWN: MBS  
CHECKED: RAP  
SHEET NO. C2.0

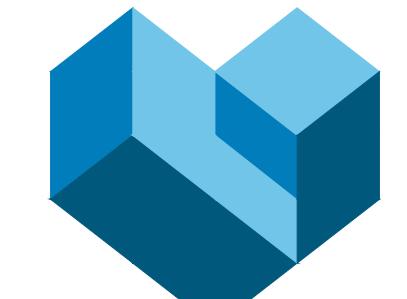
CESO  
www.cesoinc.com

STATE OF OHIO  
SARA J.  
HARVILLE  
E-82322  
REGISTERED  
PROFESSIONAL  
ENGINEER  
1/18/2023

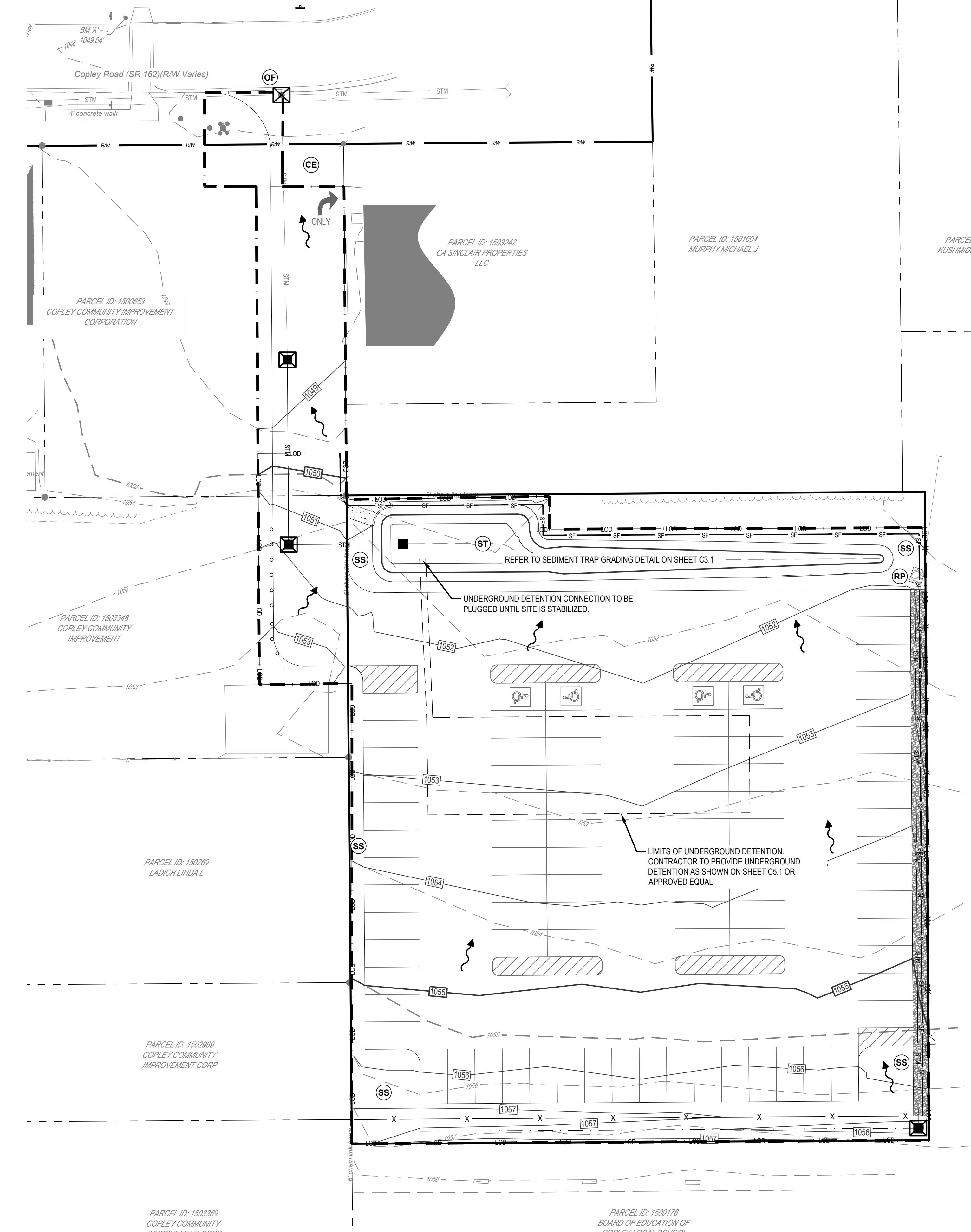
COBLEY TOWNSHIP  
PARKING LOT3550 COBLEY ROAD  
AKRON, OH 44321DEMOLITION  
PLAN

Ohio Utilities Protection Service  
**Call 811**  
before you dig

STRIPPED TOPSOIL.



REVISION DESCRIPTION  
DATE  
NO.



BENCHMARKS				
	ELEVATION*	EASTING**	NORTHING**	DESCRIPTION
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FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: OHIO 811 AT 811 OR 1 (800) 362-2764 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF OHIO 811.

## COPLEY TOWNSHIP PARKING LOT

3550 COPLEY ROAD

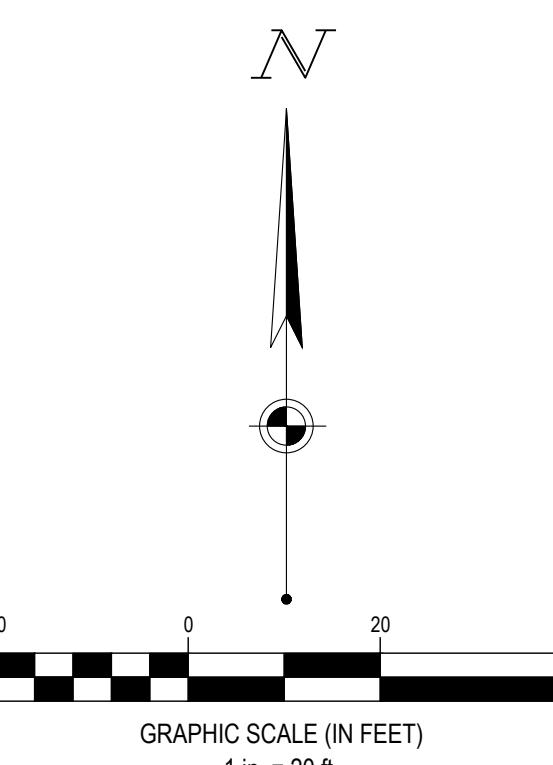
AKRON, OH 44321

### SEDIMENT & EROSION CONTROL PLAN

ISSUE:  
NOT FOR CONSTRUCTION  
DATE:  
01/20/2023

JOB NO.: 760658  
DESIGN: MBS  
DRAWN: MBS  
CHECKED: RAP

SHEET NO.  
C3.0



REVISION DESCRIPTION

DATE

EXISTING	REFER TO C2.0 FOR EXISTING FEATURES LEGEND
PROPOSED	
1050	MAJOR CONTOUR
1051	MINOR CONTOUR
—	PAVEMENT
—	STM
—	STORM SEWER
—	SF
—	SILT FENCE
—	SITE CONSTRUCTION LIMITS
—	LOD
—	LIMITS OF DISTURBANCE
—	SWALE
—	FLOW ARROW
—	INLET PROTECTION
—	STORM MANHOLE
—	YARD DRAIN
—	SEDIMENT TRAP
—	STORMWATER OUTFALL POINT
—	SOIL STABILIZATION
—	CONSTRUCTION ENTRANCE
—	RIPRAP OUTLET PROTECTION

#### EROSION AND SEDIMENT CONTROL:

PLAN ENGINEERS: CESO, INC. DEVELOPER: COBLEY TOWNSHIP  
178 MONROE WEST AVENUE 1940 S. CLEVELAND-MASSILLON RD.  
SUITE 400 PHONE: (330) 396-5151 CONTACT: LOUDAN KLEIN  
CONTACT: SARA HARVILLE

THE PROPOSED PROJECT IS THE CONSTRUCTION OF AN OVERFLOW PARKING LOT IN COBLEY TOWNSHIP. THE TOTAL DISTURBED AREA IS 0.94 ACRES.

THE SITE DRAINS TO STORM SEWER SYSTEM ALONG COBLEY RD VIA SHEET FLOW.

ON-SITE SOILS: CANFIELD - URBAN LAND COMPLEX

HYDROLOGIC SOIL GROUP = D

THE PRE-EXISTING CONDITIONS ON-SITE IS A BASEBALL FIELD CONSISTING OF OPEN GRASS AND FINE GRADED GRAVEL. TREES AND VEGETATION EXIST ALONG THE NORTH AND WEST PROPERTY LINES.

#### SEQUENCE OF CONSTRUCTION

1. NOTIFY SUMMIT COUNTY ENGINEER BEFORE WORK IS TO BEGIN.
2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE, CONSTRUCTION ENTRANCE, AND INLET PROTECTION.
3. SITE DEMOLITION AND CLEARING.
4. INSTALL SEDIMENT TRAP, ROUGH GRADING, PROVIDE TEMPORARY SEEDING OF DISTURBED AREAS WHICH ARE INACTIVE.
5. STORM SEWER AND UNDERGROUND UTILITY CONSTRUCTION.
6. FINE GRADING AND PAVEMENT SUBGRADE PREPARATION.
7. ASPHALT PAVING.
8. FINAL SEEDING.

\* CONTRACTOR SHALL MODIFY THE SEQUENCE OF CONSTRUCTION BASED ON SITE CONDITIONS. CONTRACTOR TO NOTIFY PROJECT MANAGER PRIOR TO CHANGING SEQUENCE OF CONSTRUCTION.

#### EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO: EROSION AND SEDIMENT CONTROL PLANS.
2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY EROSION AND SEDIMENT CONTROL. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
4. SEDIMENT STRUCTURE AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
5. PERMANENT SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF VEGETATION, LANDSCAPE TYPE MULCHING, MATTING, SOIL RIP RAP, AND OTHER APPROVED LANDSCAPING TECHNIQUES TO BE APPLIED AS FOLLOWS:
  - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR ONE (1) YEAR OR MORE.
  - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM AT FINAL GRADE.
  - WITHIN SEVEN (7) DAYS FOR ANY OTHER AREA AT FINAL GRADE.
6. TEMPORARY SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF TEMPORARY VEGETATION, MULCH, GEOTEXTILES, AND PRESERVATION OF EXISTING VEGETATION, AND OTHER APPROVED TECHNIQUES TO BE APPLIED AS FOLLOWS:
  - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM NOT AT FINAL GRADE.
  - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR MORE THAN TWENTY ONE (21) DAYS, BUT LESS THAN ONE (1) YEAR.
  - PRIOR TO THE ONSET OF WINTER WEATHER FOR AREAS THAT WILL BE IDEL OVER WINTER.
7. TEMPORARY SEEDING, MULCHING, AND FERTILIZER SPECIFICATIONS:
 

**SEEDING:** ANNUAL RYEGRASS AT 2.02 POUNDS PER 1,000 S.F.

**MULCHING:** STRAW MATERIAL SHALL BE UNROLLED SMALL GRAIN STRAW APPLIED AT A RATE OF TWO (2) TON/ACRE, OR 80-100 POUNDS PER 1,000 S.F. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF SEEDS AND SEEDS SHALL BE FREE OF PROHIBITIVE NOXIOUS WEEDS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICAL MEANS. FROM NOVEMBER 01 THRU MARCH 15 INCREASE THE RATE OF STRAW MULCH TO THREE (3) TON/ACRE.

**FERTILIZER:** APPLY FERTILIZER AT HALF THE RATE OF PERMANENT APPLICATION AND AS PER ODOT SPECIFICATIONS. IF PROJECT CONDITIONS PREVENT FERTILIZING THE SOIL, THEN THIS ITEM MAY BE WAIVED.

8. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEDED, AND CURLED BLANKETS BY AMERICAN EXCLOSIR COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.

9. NO SOLD OTHER THAN LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OF SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT LIQUID AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUZE AND CHEMICAL SPILLS MUST BE KEPT ON SITE.

10. IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

12. DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.

13. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION BY THE USE OF BEST MANAGEMENT PRACTICES. THESE AREAS MUST BE SHOWN IN THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. AT A MINIMUM SILT FENCE TO BE PLACED AT PERIMETER OF STOCKPILE AREA TO PREVENT SOIL FROM LEAVING THE STOCKPILE AREA.

14. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

15. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH DAY; THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR ASPHALT FOR ROAD CONSTRUCTION.

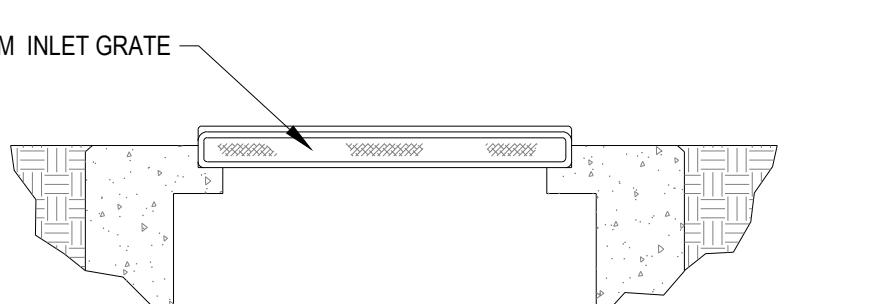
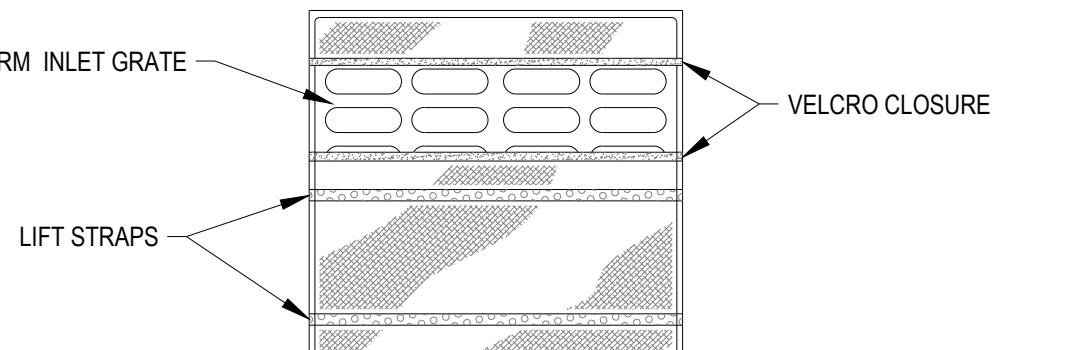
16. THE LAST LAYER OF SOIL, INCLUDING TOP SOIL SHOULD BE COMPAKTED TO 80% - 85% OF THE MAXIMUM STANDARD PROCTOR DENSITY. AREAS OUTSIDE THE PARKING LOT THAT WILL RECEIVE EROSION. THIS IS PARTICULARLY IMPORTANT IN THE SLOPE AND ELEVATION AREA. IN ELEVATION AREA, AREA IS RECOMMENDED THAT THE SOIL BE COMPAKTED TO 98% AND 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY RESPECTIVELY. THE LAST COMPAKTED LAYER MAY BE SCARIFIED TO IMPROVE THE SOIL GROWTH CHARACTERISTICS.

17. ALL DEWATERING ACTIVITIES SUCH AS PUMPING DOWN OF FLOODED FOUNDATION AND UTILITY TRENCHES MUST PASS THROUGH THE RETROFITTED DETENTION BASIN OR A SEDIMENT CONTROL PRACTICE PRIOR TO LEAVING THE SITE.

18. SILT FENCE AND OTHER PERIMETER EROSION CONTROL MEASURES SHOWN OFF LIMITS OF DISTURBANCE FOR CLARITY PURPOSES ONLY. CONTRACTOR TO ENSURE PERIMETER EROSION CONTROL MEASURES ARE PLACED AT THE LIMITS OF DISTURBANCE. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER PRIOR TO PLACEMENT OF ANY EROSION CONTROL MEASURES.

#### EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES

1. ALL CONTROL MEASURES STATED IN THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING.
2. INLET PROTECTION DEVICES AND CONTROLS SHALL BE REPAIRED OR REPLACED WHEN THEY SHOW SIGNS OF UNDERMINING AND OR DETERIORATION. INLET PROTECTION DEVICES SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
4. MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, AND STORM SEWER SYSTEMS. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
7. STONE CONSTRUCTION EXIT TO BE MAINTAINED BY GENERAL CONTRACTOR UNTIL SITE HAS BEEN PAVED OR IS NO LONGER REQUIRED.
8. ALL CATCH BASIN GRATES ARE TO BE PROTECTED WITH INLET BAGS AFTER THEY ARE INSTALLED. THEY SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
9. CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.
10. BRICKS, HARDENING CONCRETE AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.
11. CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY SHALL BE SUBJECT TO ANY LOCAL PROHIBITIONS FROM THE TYPE OF DISPOSAL.
12. ALL CONSTRUCTION AND DEMOLITION DEBRIS (ADD WASTE) SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED LANDFILL AS REQUIRED BY OHIO REVISED CODE 374. CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED IN AN OHIO EPA APPROVED LANDFILL. ALSO MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 745.20).
13. AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
14. EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
15. A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE. TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
16. ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS OR OTHER STORMWATER DRAINAGE AREAS.
17. ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
18. THE CONTRACTOR SHALL CONTACT THE OEP, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.
19. OPEN BURNING IS NOT PERMITTED ON THE SITE.
20. CONTRACTOR TO ENSURE STREETS SHALL BE CLEARED OF DEBRIS FROM SITE AND SWEEP CLEAN ON AN AS NEEDED BASIS.

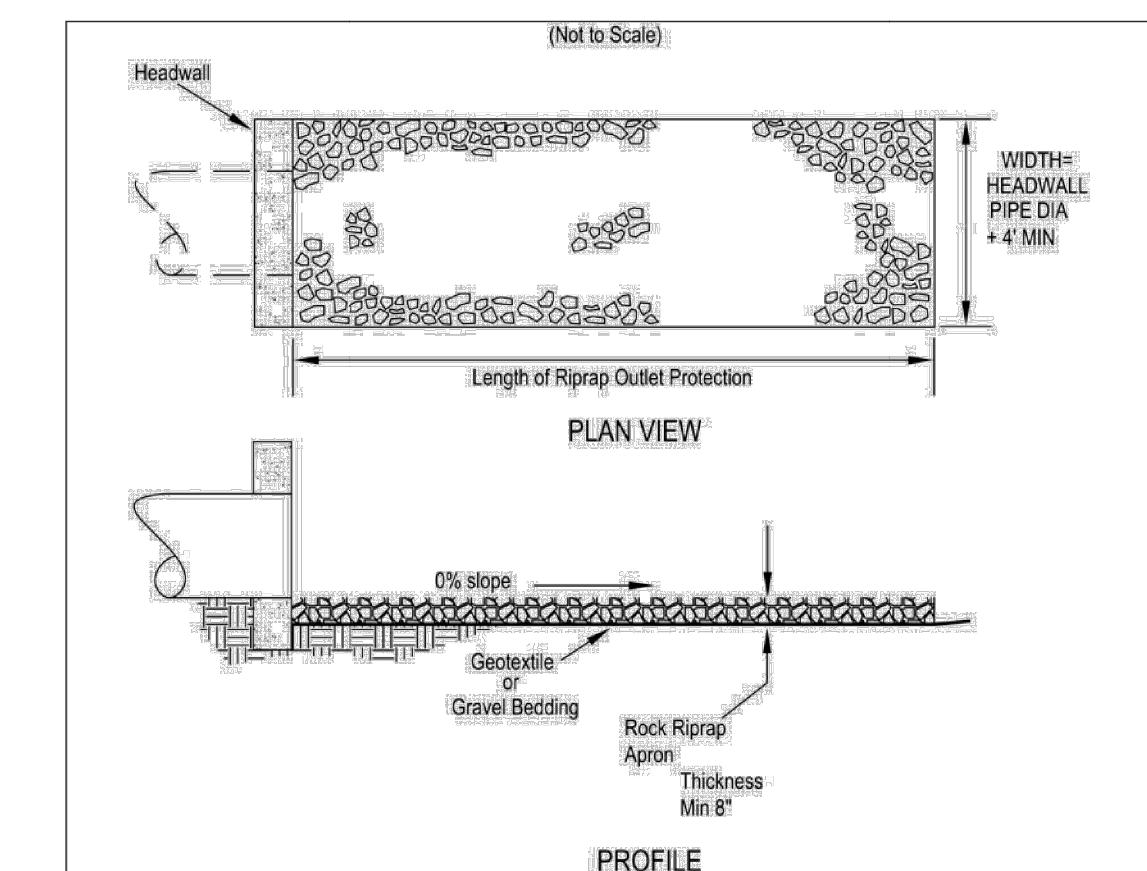


NOTE:  
INLET PROTECTION SHALL BE DANDY BAG OR APPROVED OTHER.

#### INLET PROTECTION

NTS

Specifications  
for  
**Rock Outlet Protection**



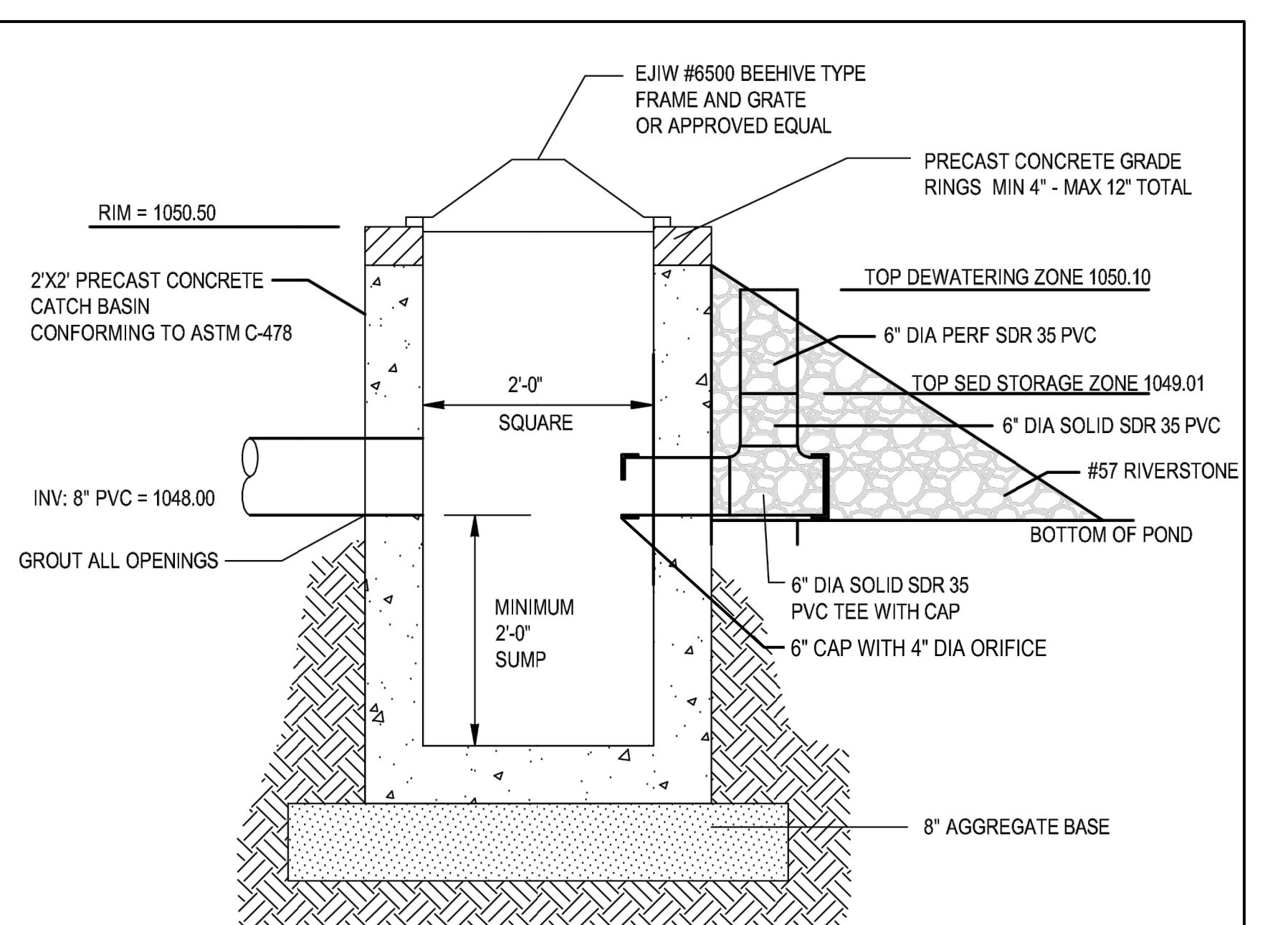
1. Subgrade for the filter or bedding and riprap shall be prepared to the required lines and grades as shown on the plan. The subgrade shall be cleared of all trees, stumps, roots, sod, loose rock, or other material.
2. Riprap shall conform to the grading limits as shown on the plan.
3. Geotextile shall be securely anchored according to manufacturers' recommendations.
4. Geotextile shall be placed by a method that does not cause segregation of sizes. Extensive pushing with a dozer causes segregation and shall be avoided by delivering riprap nears final location within the channel.
5. Gravel bedding shall be ODOT No. 67's or 57's unless shown differently on the drawings.
6. Riprap may be placed by equipment but shall be placed in a manner to prevent slippage or damage to the geotextile.
7. Riprap shall be placed by a method that does not cause segregation of sizes. Extensive pushing with a dozer causes segregation and shall be avoided by delivering riprap nears final location within the channel.
8. Construction shall be sequenced so that outlet protection is placed and functional when the storm drain, culvert, or open channel above it becomes operational.
9. All disturbed areas will be vegetated as soon as practical.

CHAPTER 4 Permanent Runoff Control

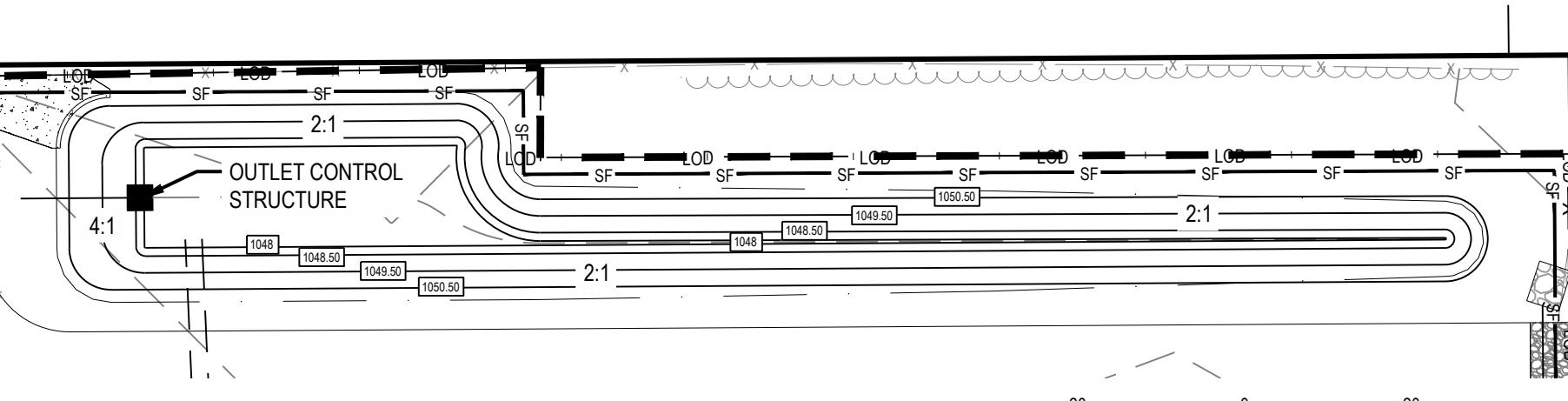
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#### ROCK OUTLET PROTECTION

ROCK TYPE	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
C	5	5	1.5



OUTLET STRUCTURE DURING  
CONSTRUCTION  
NOT TO SCALE



Specifications  
for  
**Temporary Seeding**

**Mulching Temporary Seeding**

1. Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization.
2. Materials:
  - Straw—If straw is used, it shall be unrotted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales)
  - Hydroseeds—If wood cellulose fiber is used, it shall be used at 2000 lbs./ac. or 46 lb./1,000-sq.-ft.
  - Other—Other acceptable mulches include mulch matting applied according to manufacturer's recommendations or wood chips applied at 6 ton/ac.
3. Straw Mulch shall be anchored immediately to minimize loss by wind or water. Anchoring methods:
  - Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but left to a length of approximately 6 inches.
  - Mulch Netting—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
  - Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates recommended by the manufacturer.
  - Wood-Cellulose Fiber—Wood-cellulose fiber binder shall be applied at a net dry wt. of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal.

Specifications  
for  
**Temporary Seeding**

Table 7.8.1 Temporary Seeding Species Selection

Seeding Dates	Species	Lb/1000 ft <sup>2</sup>	Lb/Acre
March 1 to August 15	Oats	3	128 (4 Bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
	Creeping Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
August 16th to November	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Rye	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	40
	Perennial Ryegrass	3.25	40
	Creeping Red Fescue	0.4	40
	Kentucky Bluegrass	0.4	40

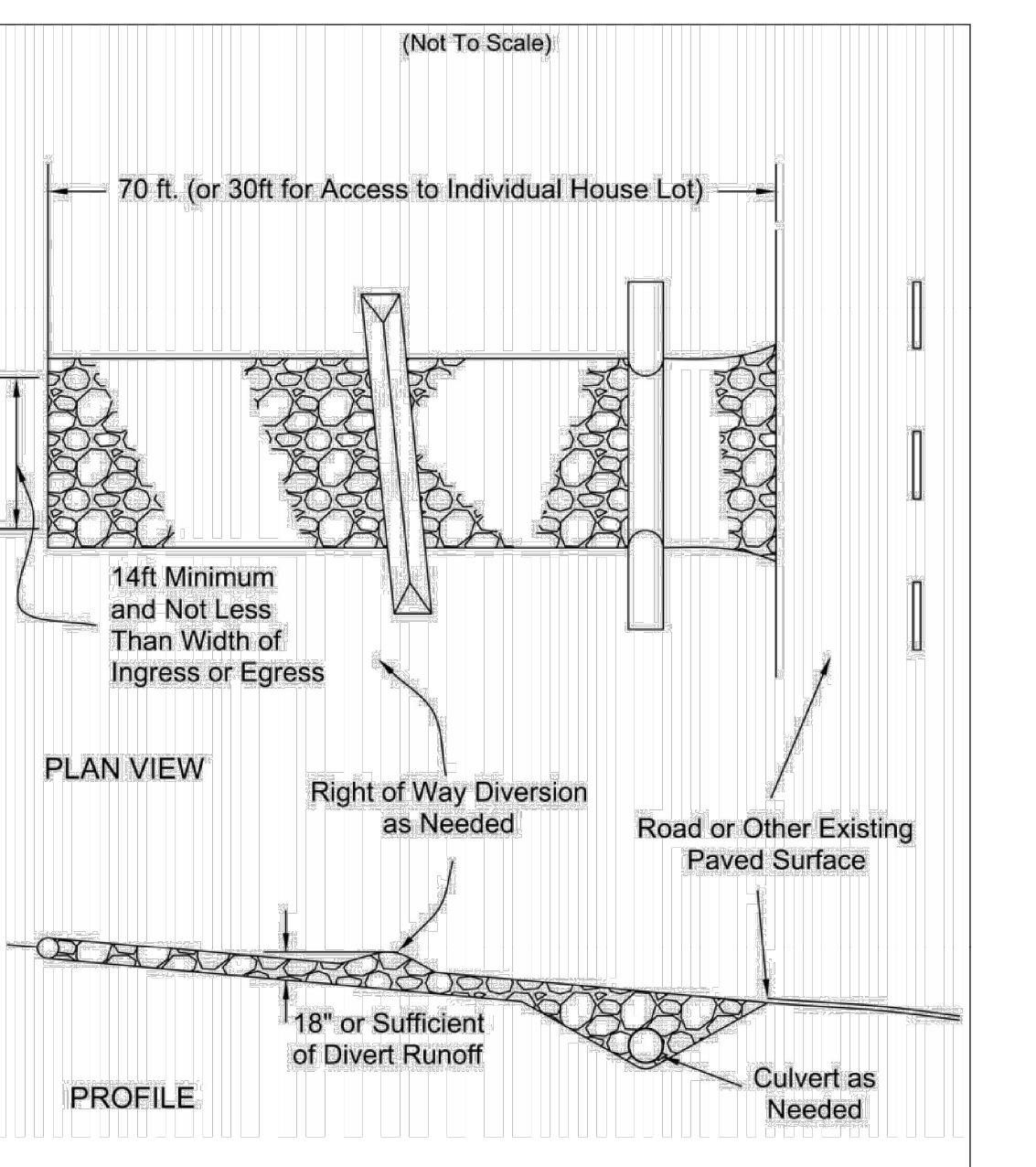
November 1 to Feb. 29 Use mulch only or dormant seeding

Note: Other approved species may be substituted.

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

CHAPTER 7 Soil Stabilization 35

Specifications  
for  
**Construction Entrance**

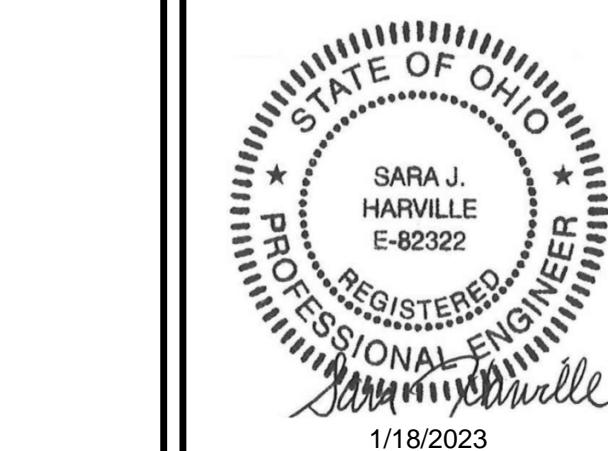


1. Stone Size—ODOT # 2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.
2. Length—The construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 ft. (exception: apply 30 ft. minimum to single residence lots).
3. Thickness—The stone layer shall be at least 6 inches thick for light duty entrances or at least 10 inches for heavy duty use.
4. Width—The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.
5. 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:

Figure 7.4.1

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 < 0.6 mm.
Permeability	1x10-3 cm/sec.

10. 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.
11. Removal—the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.



Specifications  
for  
**Permanent Seeding**

**Site Preparation**

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

**Seedbed Preparation**

1. Lime—Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 pounds per 1,000-sq. ft. or 2 tons per acre.
2. Fertilizer—Fertilizer shall be applied as recommended by a soil test. In place of a soil test, fertilizer shall be applied at a rate of 25 pounds per 1,000-sq. ft., or 1000 pounds per acre of a 10-10-10 or 12-12-12 analysis.

3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 inches. On sloping land, the soil shall be worked on the contour.

**Seeding Dates and Soil Conditions**

Seeding should be done March 1 to May 31 or August 1 to September 30. If seeding occurs outside of the above-specified dates, additional mulch and irrigation may be required to ensure a minimum of 80% germination. Tillage for seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

**Dormant Seedings**

1. Seedlings should not be made from October 1 through November 20. During this period, the seeds are likely to germinate but probably will not be able to survive the winter.
2. The following methods may be used for "Dormant Seeding":

3. Straw and Mulch Anchoring Methods
  - Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates specified by the manufacturer.
  - Wood Cellulose Fiber—Wood cellulose fiber shall be applied at a net dry weight of 750 lbs./ac. The wood cellulose fiber shall be mixed with water with the mixture containing a maximum of 50 pounds cellulose per 100 gallons of water.
4. Irrigation
 

Permanent seeding shall include irrigation to establish vegetation during dry weather or on adverse site conditions, which require adequate moisture for seed germination and plant growth.

Irrigation rates shall be monitored to prevent erosion and damage to seeded areas from excessive runoff.

Table 7.10.2 Permanent Seeding

Seed Mix	Seeding Rate		Notes:
	Lbs./acre	Lbs./1,000 Sq. Feet	
General Use			
Creeping Red Fescue	20-40	1/2-1	For close mowing & for waterways with <2.0 ft/sec velocity
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	20-40	1/2-1	
Tall Fescue	40-50	1-1 1/4	
Turf-type (dwarf) Fescue	90	2 1/4	
Steep Banks or Cut Slopes			
Tall Fescue	40-50	1-1 1/4	
Crown Vetch	10-20	1/4-1/2	Do not seed later than August
Tall Fescue	20-30	1/2-3/4	
Flat Pea	20-25	1/2-3/4	Do not seed later than August
Tall Fescue	20-30	1/2-3/4	
Road Ditches and Swales			
Tall Fescue	40-50	1-1 1/4	
Turf-type (dwarf) Fescue	90	2 1/4	
Kentucky Bluegrass	5	0.1	
Lawns			
Kentucky Bluegrass	100-120	2	
Perennial Ryegrass		2	
Kentucky Bluegrass	100-120	2	For shaded areas
Creeping Red Fescue		1-1/2	

Note: Other approved seed species may be substituted.

Specifications  
for  
**Silt Fence**

1. Silt fence shall be constructed before upslope land disturbance begins.
2. 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.
3. 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.
4. Silt fence shall be placed on the flattest area available.
5. 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.
6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
7. 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.
8. The silt fence shall be placed on 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.
9. 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).
10. Maintenance—Silt fence shall allow runoff to pass 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.

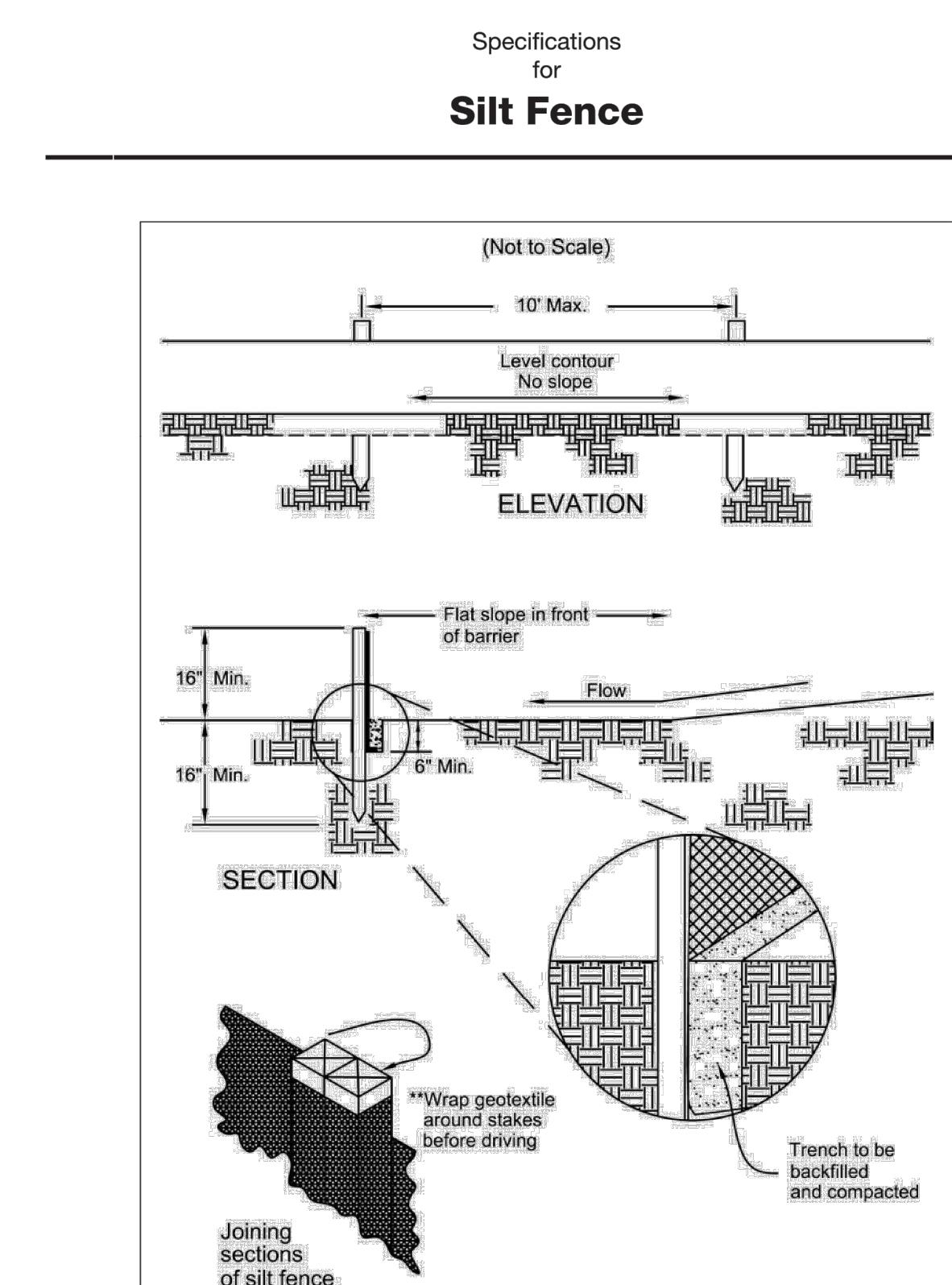
Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of the silt fence.

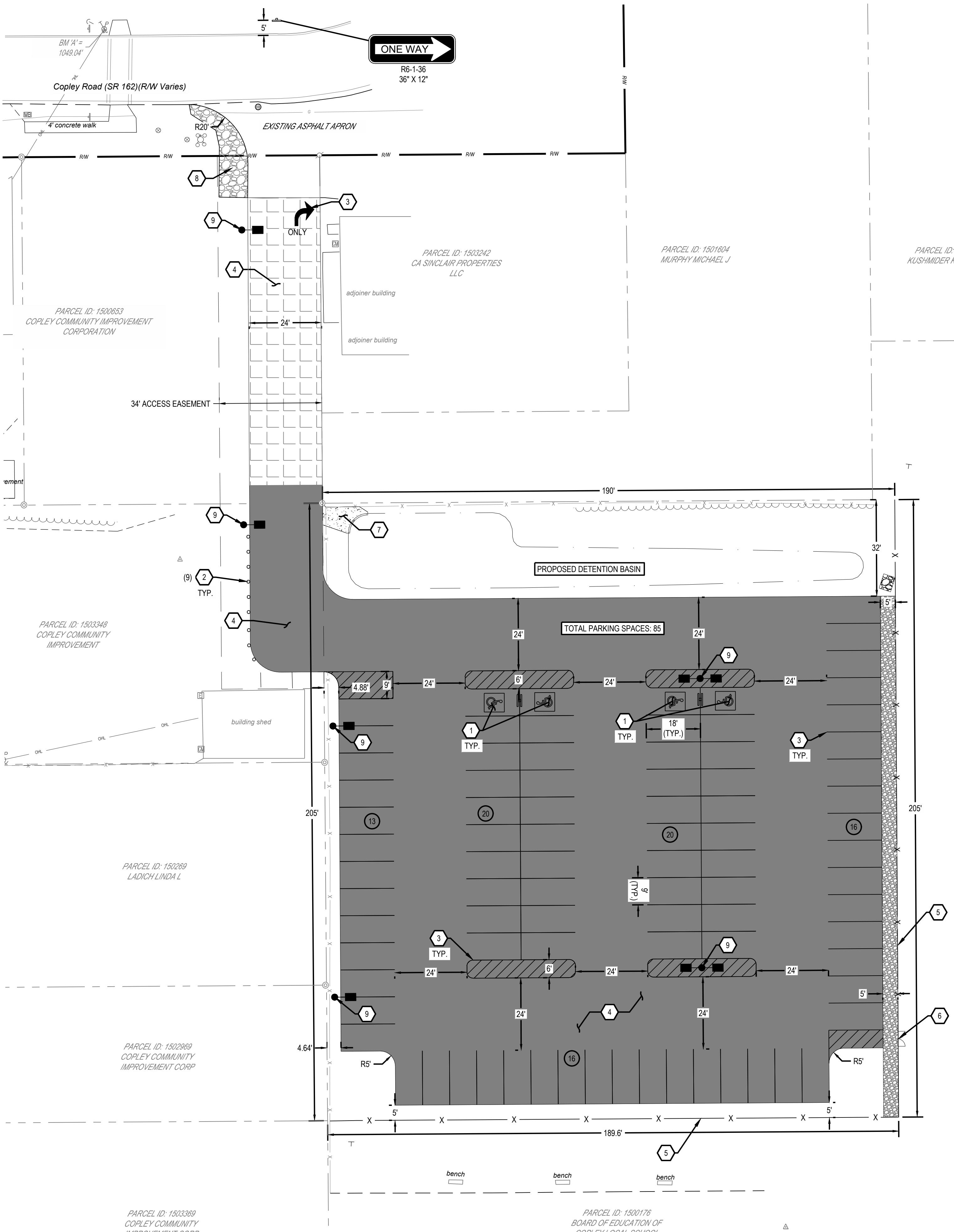
Silt fences shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately.

Criteria for silt fence materials

1. 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.
2. Silt fence fabric—See chart below.

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 (180 N)	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permeability	1X10-2 sec.-1	ASTM D 4491
UV Exposure Strength Retention	70%	ASTM G 4355

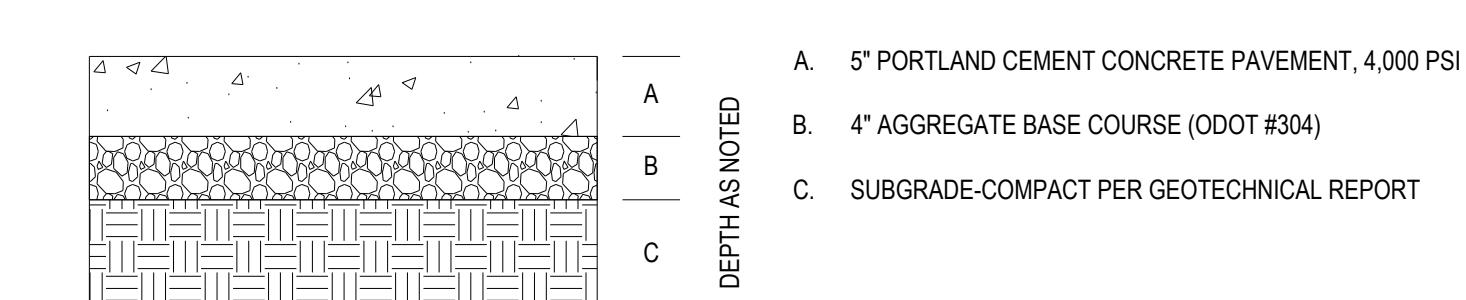
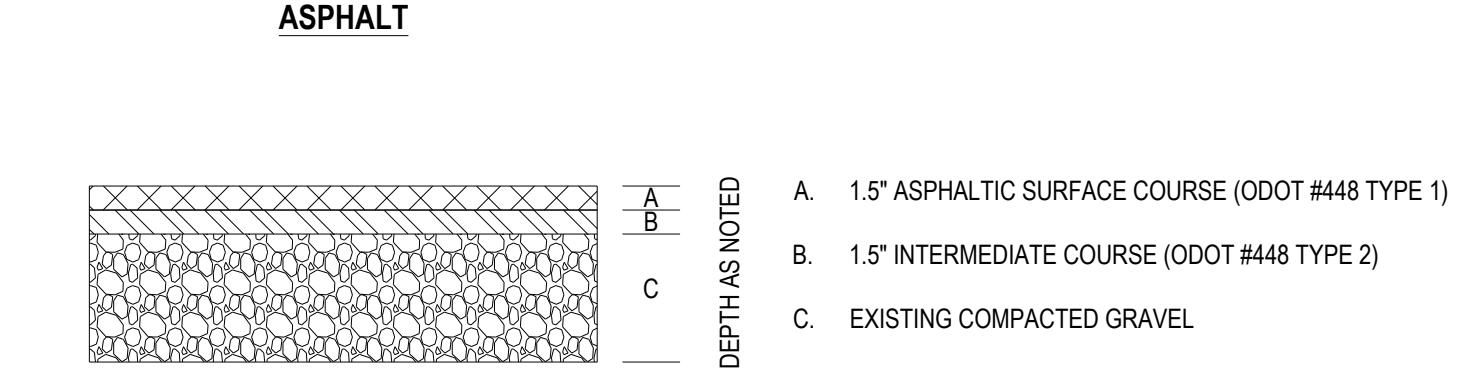
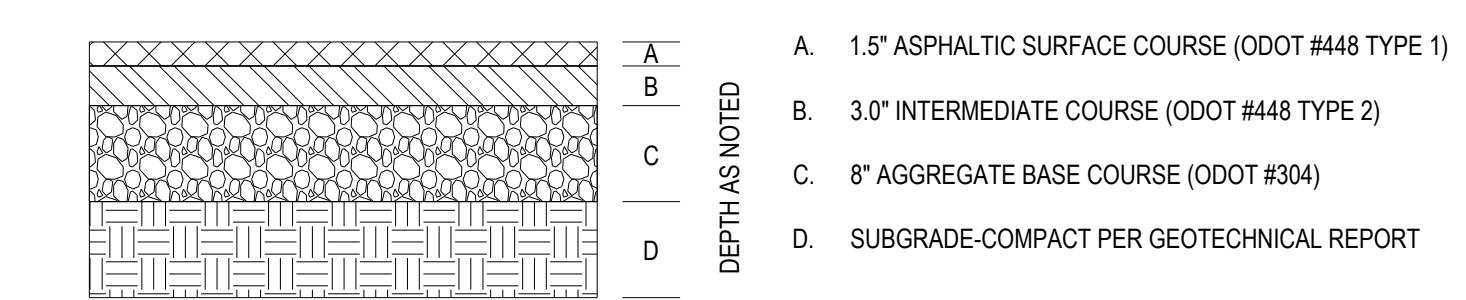


SITE GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL STATE, LOCAL, DOT AND OSHA STANDARDS. THE CONTRACTOR SHALL OBTAIN FINAL APPROVALS/PERMITS AND INSPECTIONS AS NECESSARY PRIOR TO CONSTRUCTION.
2. REFER TO CONSTRUCTION DETAILS/ GEOTECHNICAL REPORT FOR PAVEMENT SECTION RECOMMENDATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
4. CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS. AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION, CONTRACTOR SHALL PROVIDE SAFETY RAILINGS AT ALL AREAS WHERE FALL PROTECTION IS REQUIRED.
6. ALL SIGNAGE SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
7. ALL PAVEMENT MARKINGS AND STRIPING SHALL COMPLY WITH ODOT ITEM 641 AND OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.)
  - a. LANE LINE: 6' WHITE (PER SECTION 38.04 O.M.U.T.C.D.)
  - b. PARKING STALLS: 4' WHITE (PER SECTION 38.18 O.M.U.T.C.D.)
  - c. STOP LINE: 12' WHITE (PER SECTION 38.16 O.M.U.T.C.D.)
  - d. CROSSWALKS: TRANSVERSE LINES WITH DIAGONAL MARKINGS PER SECTION 38.17 (GAP BETWEEN TRANSVERSE LINES SHALL BE 4') ALL PAINTED WHITE.
8. CONTRACTOR TO WORK WITH COPLEY TOWNSHIP SERVICE DIRECTOR FOR SITE LIGHTING ELECTRICAL WORK. REFER TO PHOTOMETRIC PLAN BY WLS FOR ADDITIONAL INFORMATION.

CODED NOTES:

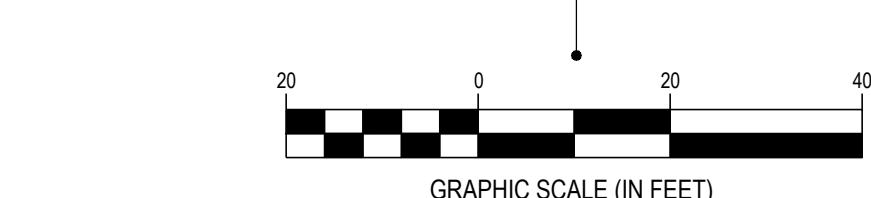
1. ADA ACCESSIBLE PARKING SPACE WITH SIGNAGE. REFER TO CONSTRUCTION DETAILS, SHEET C7.0.
2. PROPOSED WOODEN BOLLARD 6' X 8" DIAMETER TREATED WOOD GUARDRAIL POSTS, EXPOSING +/- 30" ABOVE GRADE. TYPICAL GUARDRAIL 6' SPACING.
3. PROPOSED ASPHALT PAVEMENT MARKING PER ODOT ITEM 642.
4. PROPOSED ASPHALT PAVEMENT. REFER TO CONSTRUCTION DETAIL ON THIS SHEET.
5. PROPOSED 6' OPAQUE VINYL FENCE. REFER TO CONSTRUCTION DETAILS, SHEET C7.0.
6. PROPOSED GATE.
7. PROPOSED CONCRETE PAVEMENT. REFER TO CONSTRUCTION DETAIL ON THIS SHEET.
8. ODOT ITEM 411 AGGREGATE TO BE ADDED OVER EXISTING AGGREGATE BASE.
9. PROPOSED APPROXIMATE LOCATION OF LIGHT POLES. REFER TO PHOTOMETRIC PLAN.



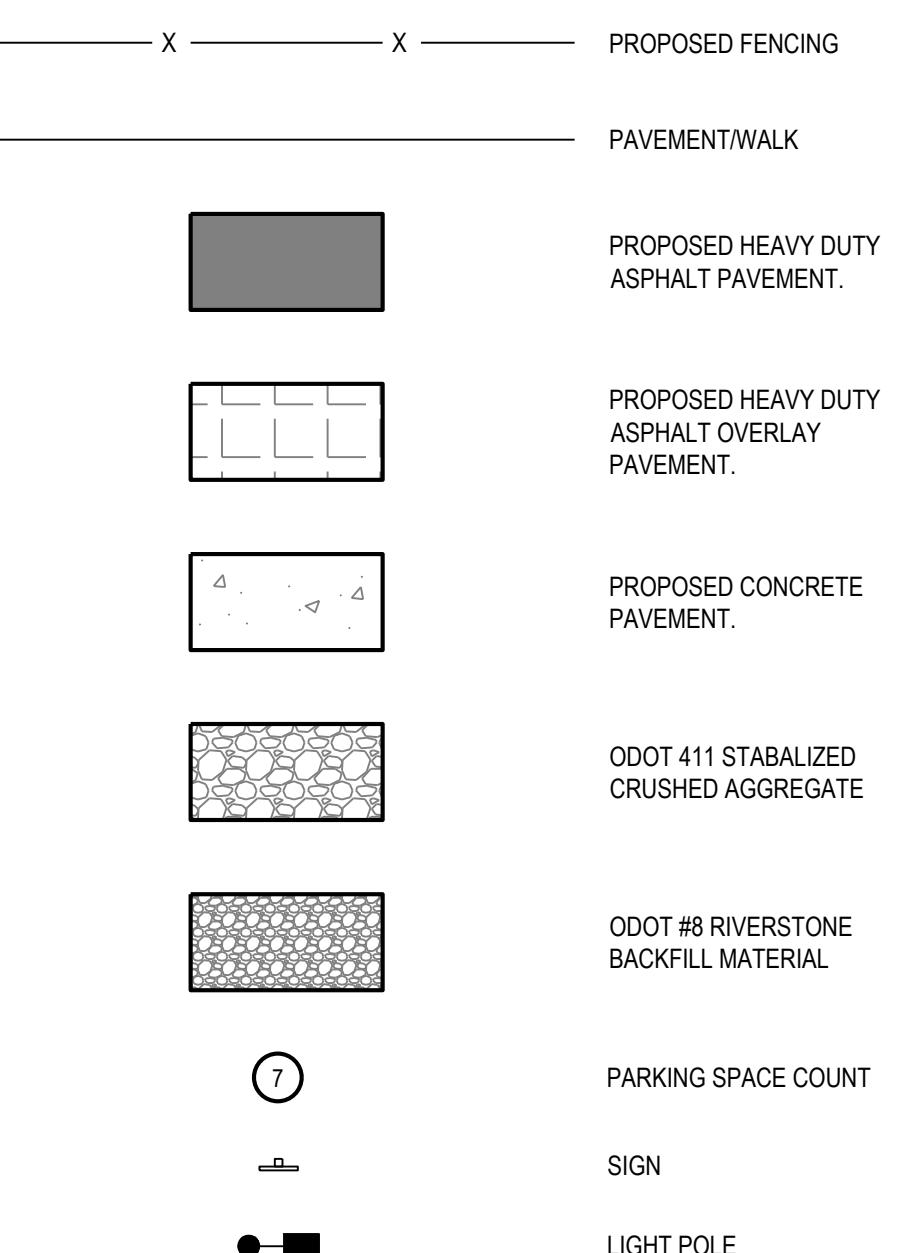
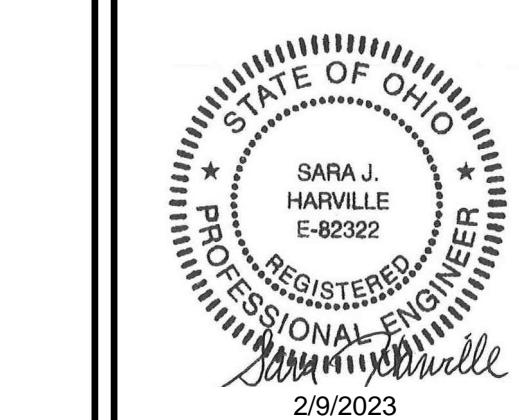
◆ BENCHMARKS				
	ELEVATION*	EASTING**	NORTHING**	DESCRIPTION
BM A	1049.09	2204400.94	522967.15	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE
BM B	1049.99	2204268.16	522891.72	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE

\* VERTICAL DATUM: NAVD88 AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK

\*\* HORIZONTAL DATUM: U.S. STATE PLANE COORDINATE SYSTEM, OHIO NORTH ZONE, NAD83 (2011) AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK



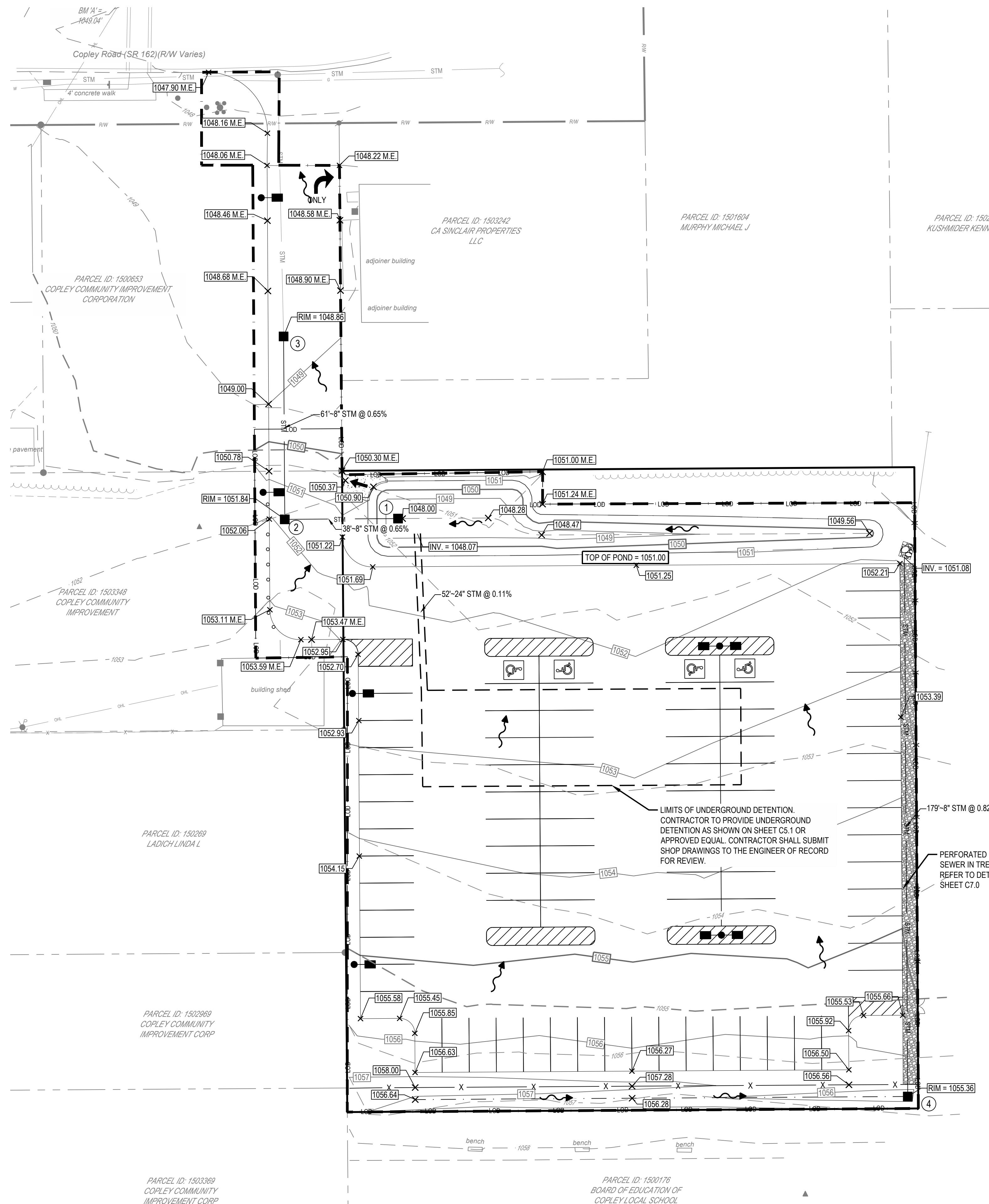
FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: OHIO 811 AT 811 OR 1 (800) 362-2764 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF OHIO 811.

LEGENDREVISION DESCRIPTION**COPLEY TOWNSHIP  
PARKING LOT**

3550 COPLEY ROAD

AKRON, OH 44321

**SITE &  
PAVEMENT  
PLAN &  
DETAILS**ISSUE:  
NOT FOR CONSTRUCTIONDATE:  
01/20/2023JOB NO.: 760658  
DESIGN: MBS  
DRAWN: MBS  
CHECKED: RAPSHEET NO.  
C4.0





REVISION DESCRIPTION

DATE

STATE OF OHIO  
SARA J.  
HARVILLE  
E-8232  
PROFESSIONAL ENGINEER  
2/9/2023

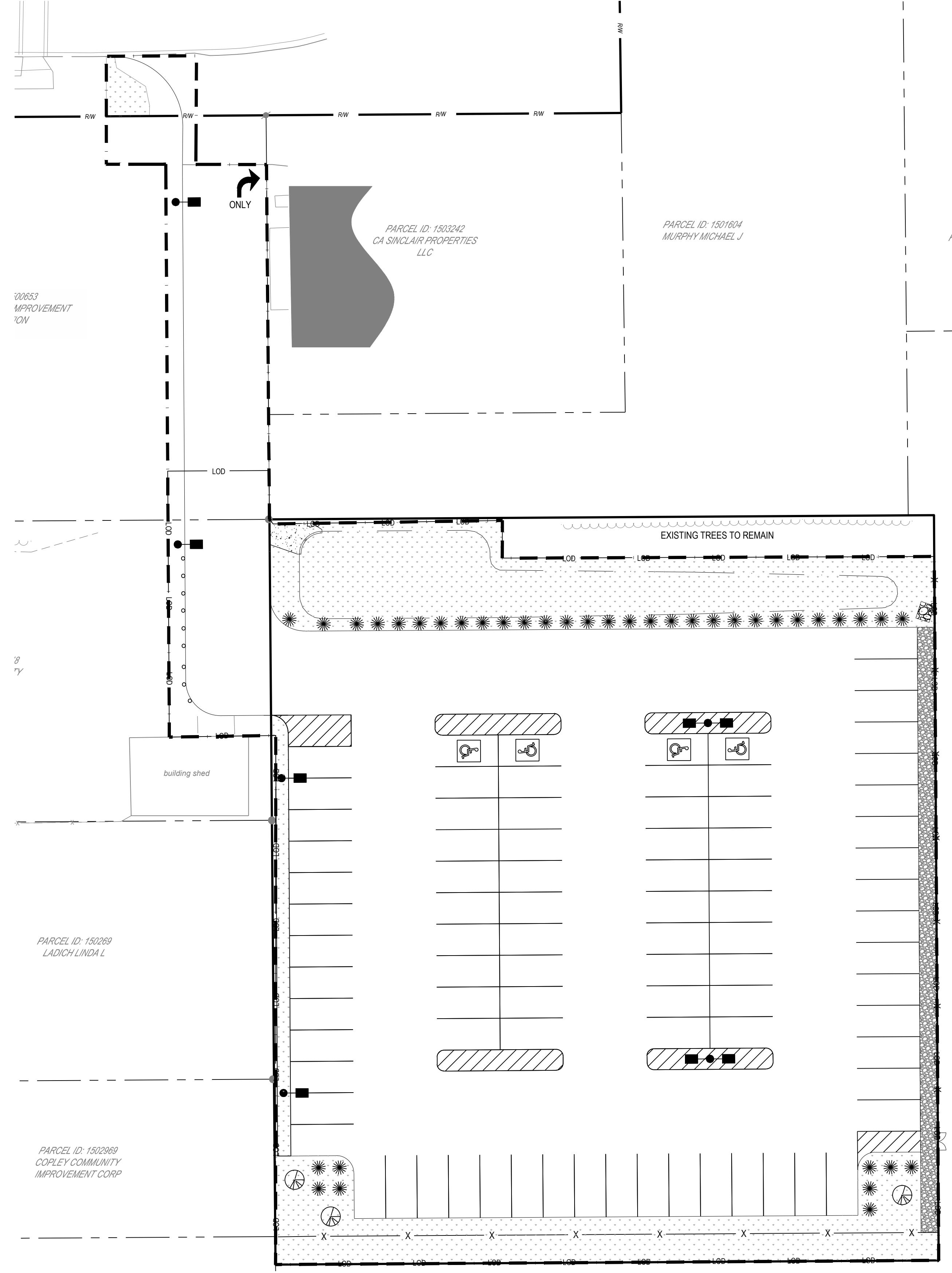
## COPLEY TOWNSHIP PARKING LOT

3550 COPLEY ROAD  
AKRON, OH 44321

## LANDSCAPE PLAN

ISSUE:  
NOT FOR CONSTRUCTION  
DATE:  
01/20/2023  
JOB NO.: 760658  
DESIGN: JAG  
DRAWN: JAG  
CHECKED: RAP

SHEET NO.  
C6.0



## LANDSCAPE PLANT MATERIAL SCHEDULE

TREES	ITEM	SIZE	SPACING	QTY
	ACER RUBRUM RED MAPLE	3'4" HT.	AS SHOWN	3
	BUXUS SINICA VAR. INSULARIS KOREAN BOXWOOD	2'-3" HT.	6' O.C.	41
GROUNDCOVERS	ITEM	SIZE	SPACING	QTY
	SEED PER LOCAL SPECIFICATIONS	SEED		9,165 SF

## PLANTING NOTES:

- ALL PLANT MATERIAL SHALL BE NORTHERN NURSERY GROWN NO. 1 GRADE AND INSTALLED ACCORDING TO ACCEPTED PLANTING PROCEDURES. ALL PLANT MATERIALS SHALL MEET CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. DO NOT PLANT MATERIALS UNTIL DIRECTED BY OWNER/CONSTRUCTION MANAGER. THE OWNER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL, FOR ANY REASON BEFORE OR AFTER IT IS INSTALLED.
- SIZES SPECIFIED ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE INSTALLED. ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE MUNICIPALITY AND OWNER.
- ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MUNICIPAL STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTH AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIALS ARE TO BE REPLACED IMMEDIATELY AFTER NOTIFIED TO DO SO. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER PLANTING AND ACCEPTANCE.
- PLANT TREES AND SHRUBS IN ACCORDANCE WITH PLANTING DETAILS. DIG TREE PITS PER DETAILS. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROX. 1/4 OF THE ROOT BALL ABOVE GRADE.
- REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. REMOVE THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE BURLAP FROM AROUND TRUNK.
- FINELY SHREDDED HARDWOOD BARK MULCH, NATURAL COLOR (NON-COLORED), IS REQUIRED FOR ALL PLANTINGS AND PLANTING BEDS. MULCH PER PLANTING DETAILS. MULCH IN PLANT BEDS SHALL BE 3" THICK AT TIME OF INSPECTION AND AFTER COMPACTED BY RAIN OR IRRIGATION.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. IF A CONFLICT WITH UTILITIES EXISTS, NOTIFY OWNER/CONSTRUCTION MANAGER PRIOR TO PLANTING.

## GENERAL LANDSCAPE NOTES

- CONTRACTOR IS REQUIRED TO PERFORM MINOR CLEARING AND GRUBBING SERVICES FOR ENTIRE SITE PRIOR TO INSTALLING PLANT MATERIAL. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL OF WEEDS, TRASH, AND SCRUB LIKE MATERIAL. IT IS POSSIBLE THIS MAY INCLUDE SOME FINE GRADING SERVICES TO ENSURE NO HOLES OR TRIPPING HAZARDS ARE PRESENT. CONTRACTOR SHOULD INCLUDE THIS IN BID PRICE.
- AREAS OF THE LAWN MAY CONTAIN CATCH BASINS AND AREA DRAINS. CONTRACTOR SHALL USE BEST JUDGEMENT TO FINE GRADE AROUND CATCH BASINS AND OTHER APPURTENANCES TO MINIMIZE EROSION AND MAINTAIN AESTHETIC VALUE. CONTACT OWNER'S REPRESENTATIVE WITH ANY DISCREPANCIES.
- CONTRACTOR SHALL INSTALL ALL PLANT MATERIAL IN SIZE AS INDICATED IN THE PLANT SCHEDULE UNLESS OTHERWISE SPECIFIED ON THE PLAN SET. ALL SIZES AND QUALITY OF PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS OF THE AMERICAN STANDARD FOR NURSERY STOCK. SEE DETAILS AND NOTES FOR FURTHER INFORMATION.
- TREES LOCATED IN DRAINAGEWAYS TO BE FIELD ADJUSTED TO PLACE TREES OUTSIDE THE DRAINAGE WAY.
- CONTRACTOR WILL FLAG ALL PROPERTY LINES, EASEMENT LINES, ETC. TO INSTALL PLANTING AS PER PLANS. CONTRACTOR TO CONTACT OWNER AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION IF ANY LOCATIONS ARE UNCLEAR.

## LANDSCAPE ORDINANCE REQUIREMENTS

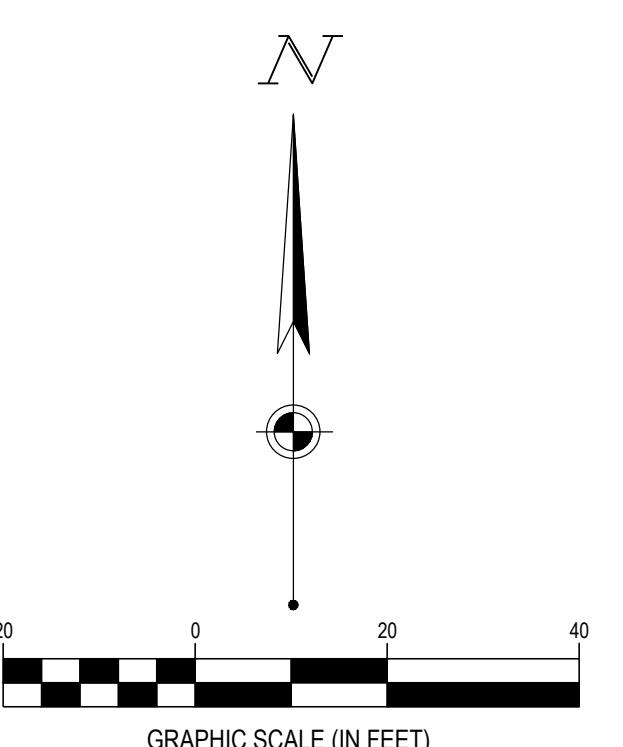
GENERAL LANDSCAPE REQUIREMENTS:  
STREET TREE REQUIREMENTS: 9 TREES, 36 SHRUBS, 1360 SQ.FT. LANDSCAPE BEDS  
OFF-STREET PARKING SCREENING REQUIRED: NONE  
ADJACENT PROPERTY BUFFER REQUIRED: NONE

## LEGEND

EXISTING  
REFER TO C2.0 FOR EXISTING FEATURES

LEGEND  
PROPOSED

- GRASS / LAWN
- PROPOSED FENCE
- LOD — LIMITS OF DISTURBANCE
- GRADING/SEEDING LIMITS (LIMITS OF DISTURBANCE)

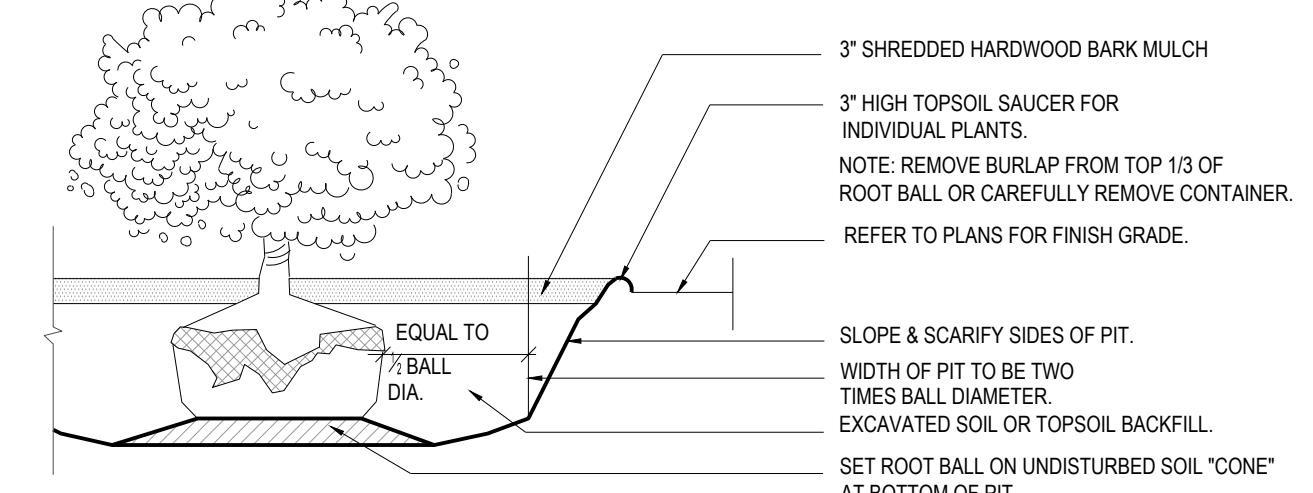


## BENCHMARKS

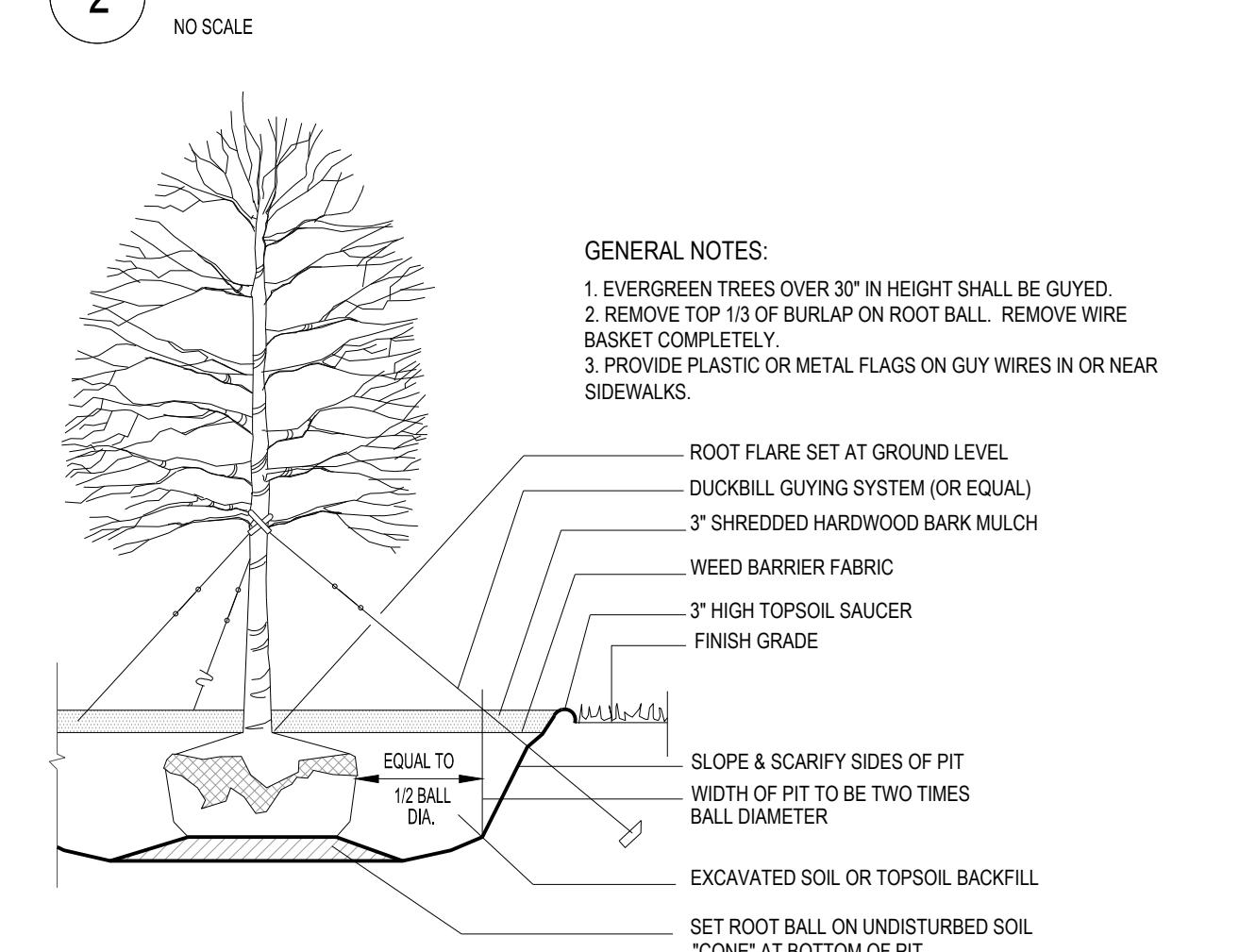
	ELEVATION*	EASTING*	NORTHING**	DESCRIPTION
BM A	1049.09	2204400.94	522967.15	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE
BM B	1049.99	2204268.16	522891.72	SPIKE SET IN SOUTH SIDE OF POWER TELEPHONE POLE

\* VERTICAL DATUM: NAVD88 AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK

\*\* HORIZONTAL DATUM: U.S. STATE PLANE COORDINATE SYSTEM, OHIO NORTH ZONE, NAD83 (2011) AS DETERMINED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK



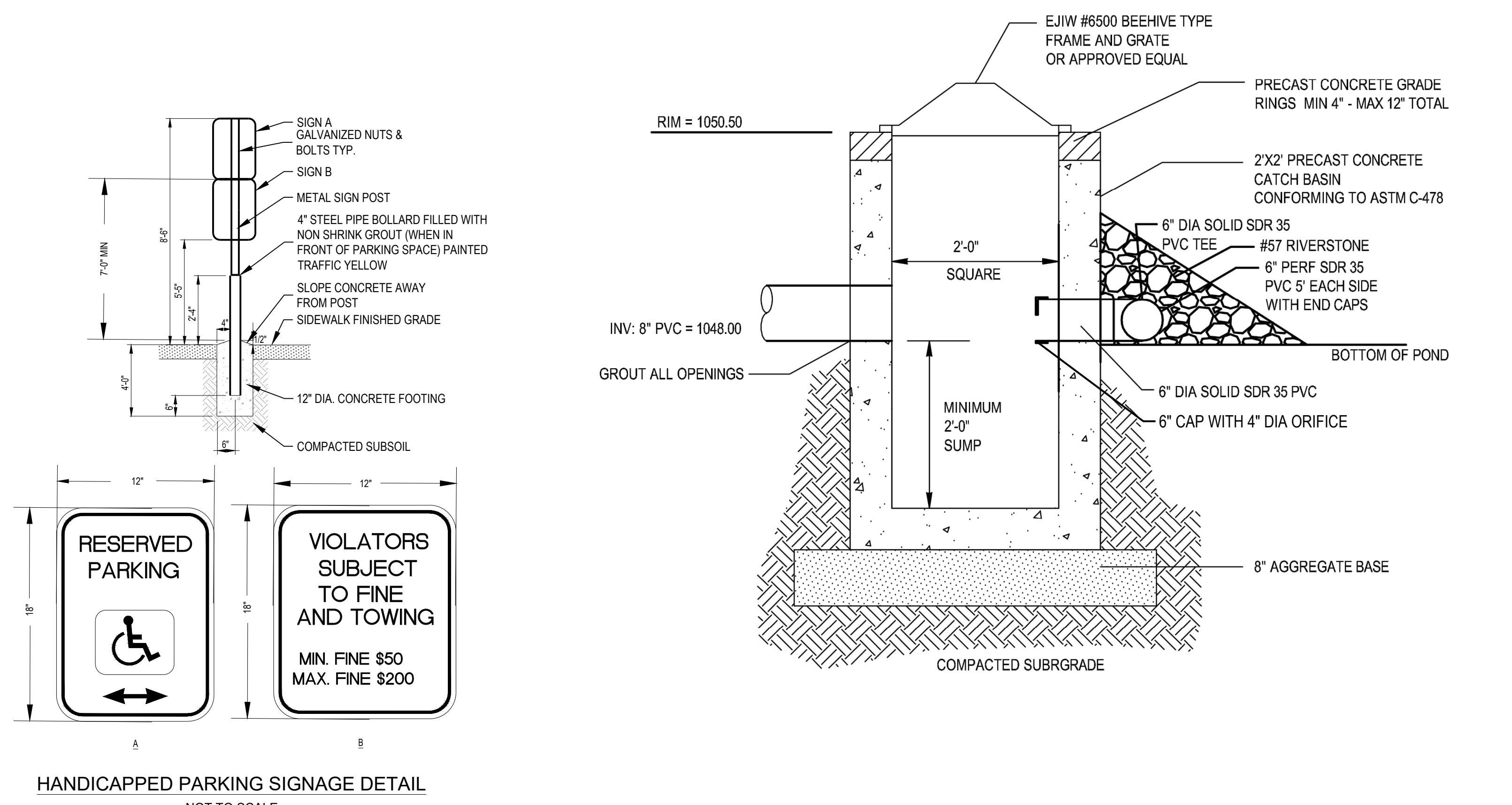
## 2 SHRUB PLANTING



## 3 TREE PLANTING

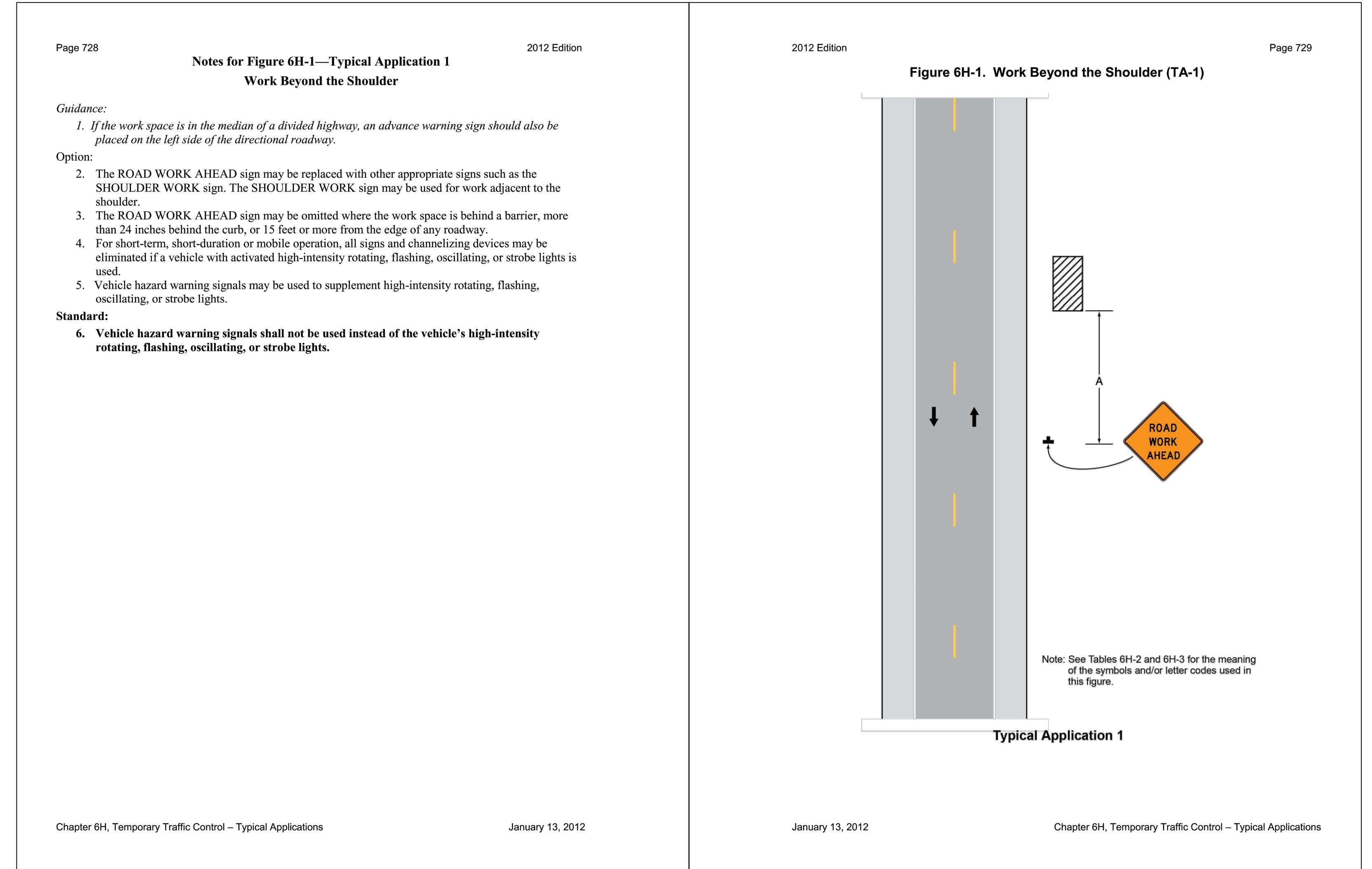
Ohio Utilities Protection Service  
**Call 811**  
before you dig

FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: OHIO 811 AT 811 OR 1 (800) 362-2764 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF OHIO 811.

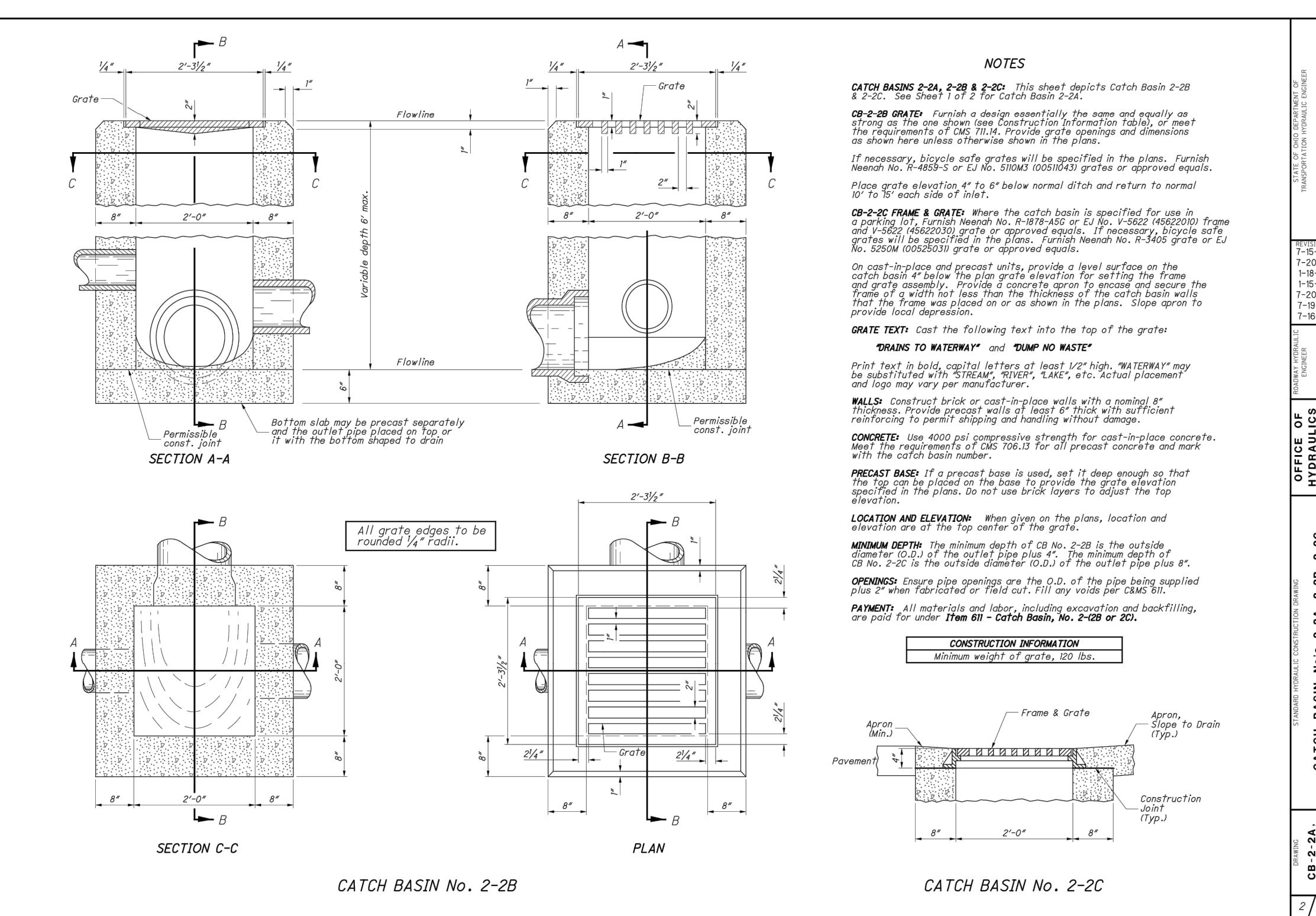


# HANDICAPPED PARKING SIGNAGE DETAIL

NOT TO SCALE



## MAINTENANCE OF TRAFFIC DETAILS FOR WORK WITHIN RIGHT-OF-WAY



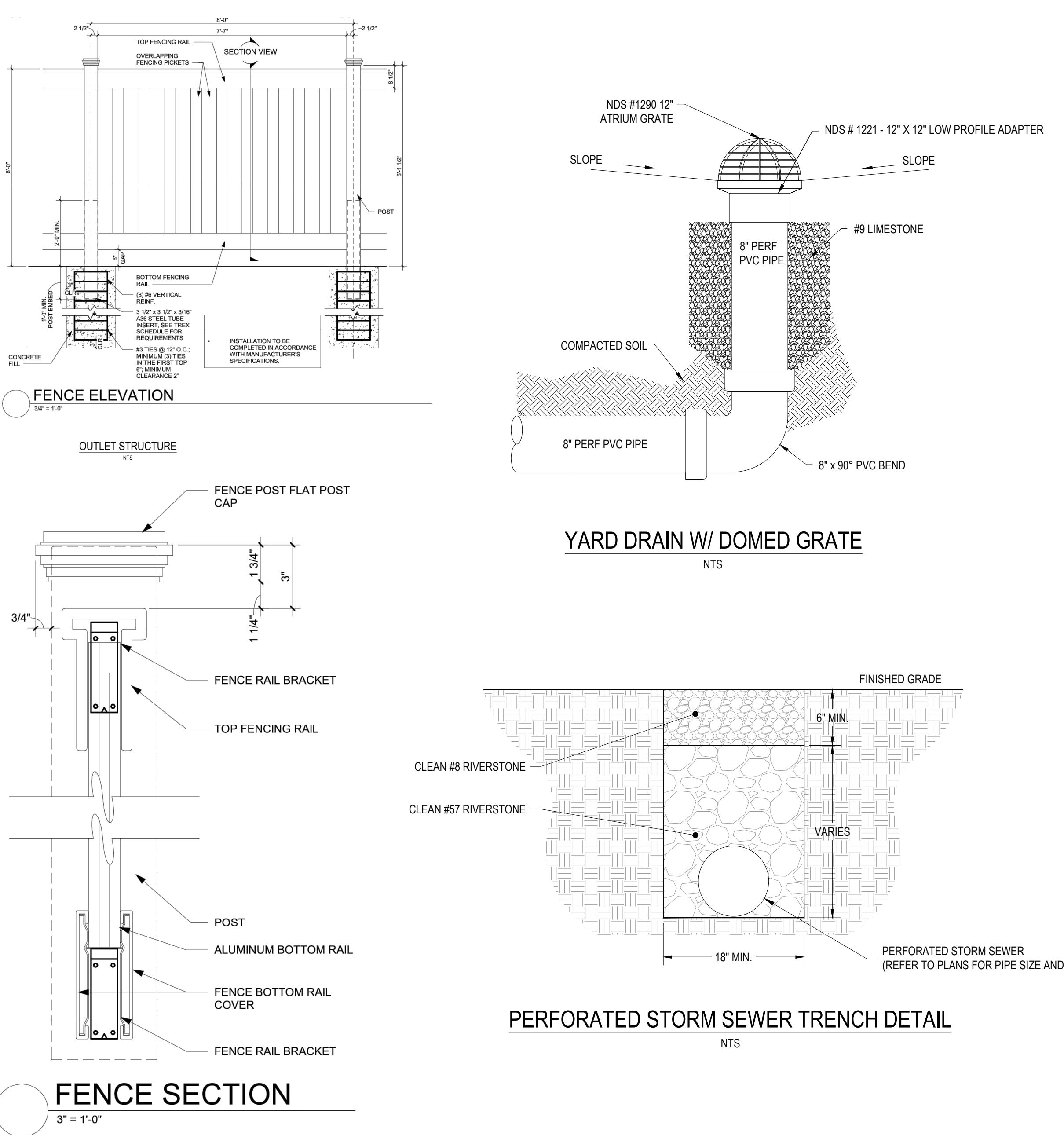
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# COPLEY TOWNSHIP

# COPLEY TOWNSHIP

# PARKING LOT

# CONSTRUCTION DETAILS



# PERFORATED STORM SEWER TRENCH DETAIL

ISSUE:	NOT FOR CONSTRUCTION
DATE:	01/20/2023
JOB NO.:	760658
DESIGN:	MBS
DRAWN:	MBS
CHECKED:	RAP
SHEET NO.	
C7.0	