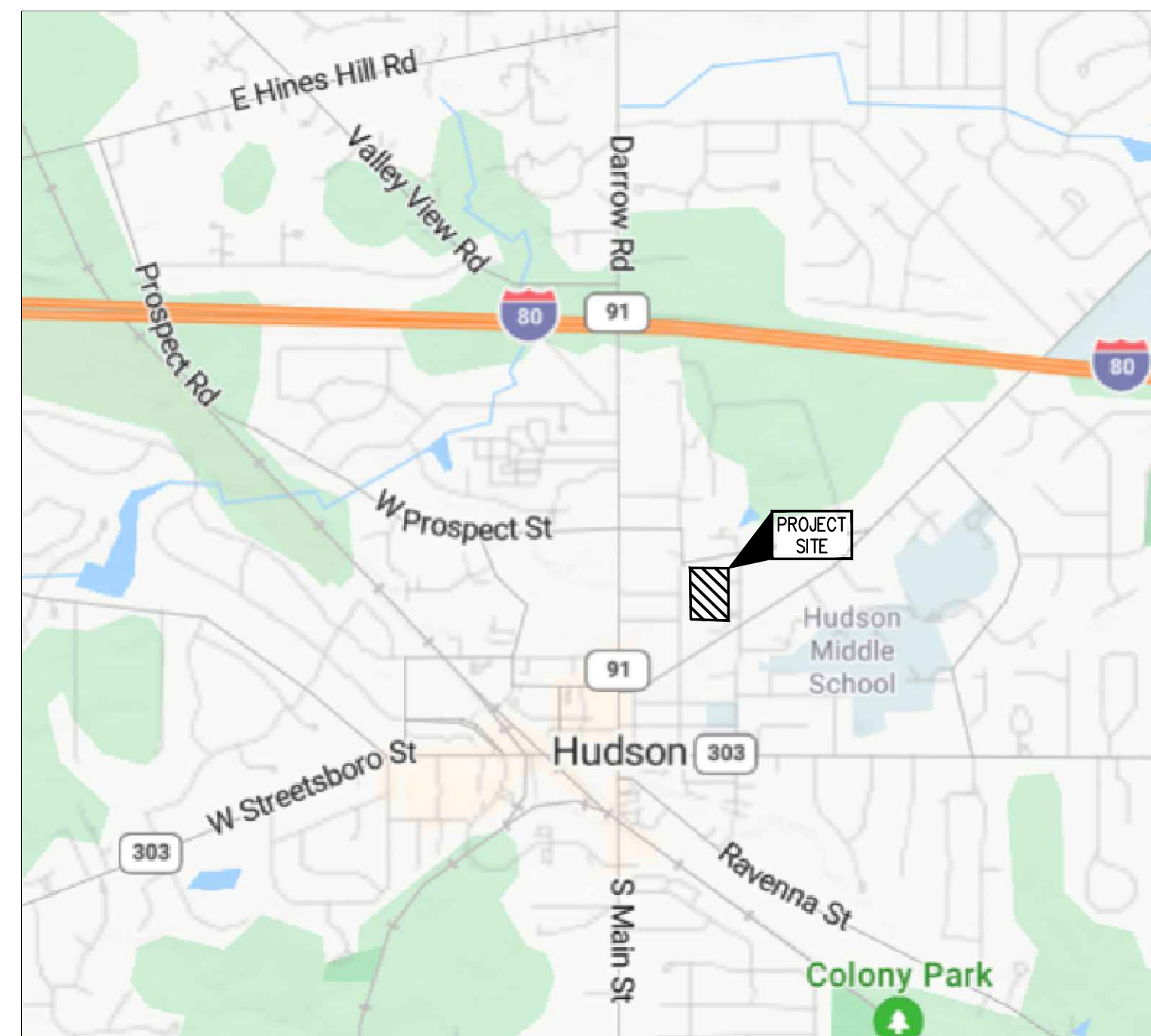


ARTS AND INNOVATION CENTER BUILDING ADDITION TO KNIGHT FINE ARTS CENTER FOR WESTERN RESERVE ACADEMY 130 N. OVIATT STREET CITY OF HUDSON, SUMMIT COUNTY, OHIO SITE IMPROVEMENT AND SWP3

PRELIMINARY
NOT FOR
CONSTRUCTION

ISSUES AND REVISIONS
1 02-09-2026 PLANNING COMMISSION
2 04-15-2026 REVISED PER PLANNING COMMISSION



VICINITY MAP
NOT TO SCALE

EXISTING LAND USE SUMMARY			
	AREA	%	C
LAWNS	11.28 AC	76.01	0.47
PAVEMENTS AND WALKS	1.89 AC	12.74	0.98
BUILDINGS	1.67 AC	11.25	0.98
TOTAL	14.84 AC	100.00	0.59

Sheet List Table	
Sheet Number	Sheet Title
C-000	TITLE SHEET
C-100	OVERALL SITE PLAN
C-200	EXISTING CONDITIONS AND DEMOLITION PLAN
C-300	SITE PLAN
C-401	UTILITY PLAN
C-402	UTILITY PROFILES
C-500	GRADING PLAN
C-601	SWPPP
C-602	SWPPP NOTES AND DETAILS
C-603	SWPPP NOTES AND DETAILS
C-604	STORM SEWER MAP
C-605	EXISTING DETENTION BASIN IMPROVEMENTS
C-700	CONSTRUCTION NOTES AND DETAILS

PROPOSED LAND USE SUMMARY			
	AREA	%	C
LAWNS	11.22 AC	75.61	0.47
PAVEMENTS AND WALKS	1.80 AC	12.13	0.98
BUILDINGS	1.82 AC	12.26	0.98
TOTAL	14.84 AC	100.00	0.59

SURVEY DISCLAIMER

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BASIS OF BEARINGS

THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

BENCHMARK

SUMMIT COUNTY CONTROL MONUMENT "HU 106 AT SOUTHEAST CORNER OF S.R. 91 AND PROSPECT STREET, 28 FEET EAST OF CENTERLINE OF S.R. 91 AND 51 FEET SOUTH OF CENTERLINE OF PROSPECT STREET.

ELEVATION = 1100.11 (NAVD88)

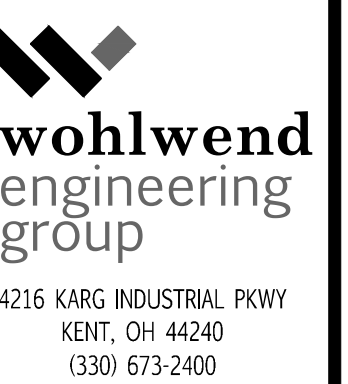
UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

ARTS AND INNOVATION CENTER
BUILDING ADDITION TO KNIGHT FINE ARTS CENTER
FOR WESTERN RESERVE ACADEMY
130 N. OVIATT STREET
CITY OF HUDSON, SUMMIT COUNTY, OHIO 44236



02-09-2026



PROJECT NUMBER
20250062

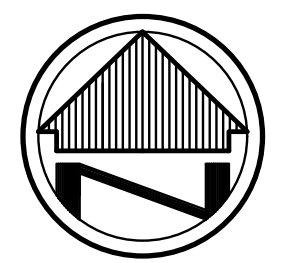
TITLE SHEET

C-000



PAVEMENT LEGEND

-  INSTALL STANDARD DUTY CONCRETE PAVEMENT.
-  INSTALL BRICK PAVEMENT.



SCALE: 1"=20'

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT NARRATIVE

THE PROPOSED WORK CONSISTS OF THE DEMOLITION OF EXISTING PATIOS AND WALKS AND THE CONSTRUCTION OF BUILDING ADDITION TO THE EXISTING ARTS CENTER BUILDING.

THE ENTIRE PARCEL IS BOUNDED BY PUBLIC STREETS. THE PROPERTIES ACROSS THE STREET ALONG THE WEST, NORTH, AND EAST SIDES OF THE PROPERTY ARE OWNED BY THE WESTERN RESERVE ACADEMY. THE PROPERTIES ACROSS THE STREET TO THE SOUTH ARE SINGLE FAMILY HOUSES.

EXISTING LAND USE SUMMARY

	AREA	%	C
LAWNS	11.28 AC	76.01	0.47
PAVEMENTS AND WALKS	1.89 AC	12.74	0.98
BUILDINGS	1.67 AC	11.25	0.98
TOTAL	14.84 AC	100.00	0.59

PROPOSED LAND USE SUMMARY

	AREA	%	C
LAWNS	11.22 AC	75.61	0.47
PAVEMENTS AND WALKS	1.80 AC	12.13	0.98
BUILDINGS	1.82 AC	12.26	0.98
TOTAL	14.84 AC	100.00	0.59

STORM WATER MANAGEMENT

THIS PROJECT CONSISTS OF REMOVING EXISTING SIDEWALKS AND RETAINING WALLS AND CONSTRUCTION A NEW BUILDING ADDITION.

THE OVERALL STORMWATER RUNOFF FOR THE EXISTING PARCEL WILL NOT BE INCREASED APPRECIABLY DUE TO THE LIMITED LIMITED SCOPE OF THIS PROJECT.

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ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES

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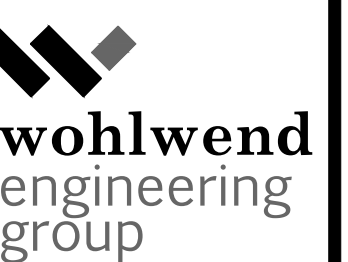
OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
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ARTS AND INNOVATION CENTER

BUILDING ADDITION TO KNIGHT FINE ARTS CENTER
FOR WESTERN RESERVE ACADEMY
130 N. OVIATT STREET
SUMMIT COUNTY, OHIO 44236



4216 KARG INDUSTRIAL PKWY
KENT, OH 44240
(330) 673-2400


02-09-2026

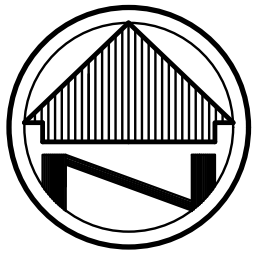
PROJECT NUMBER
20250062

OVERALL
SITE PLAN

C-100

REMOVAL LEGEND

 CONCRETE PAVEMENTS, WALKS, AND PATIOS TO BE REMOVED



SCALE: 1"=20'

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wohlwend
engineering
group
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KENT, OH 44240
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02-09-2026

PROJECT NUMBER

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EXISTING
CONDITIONS AND
DEMOLITION PLAN

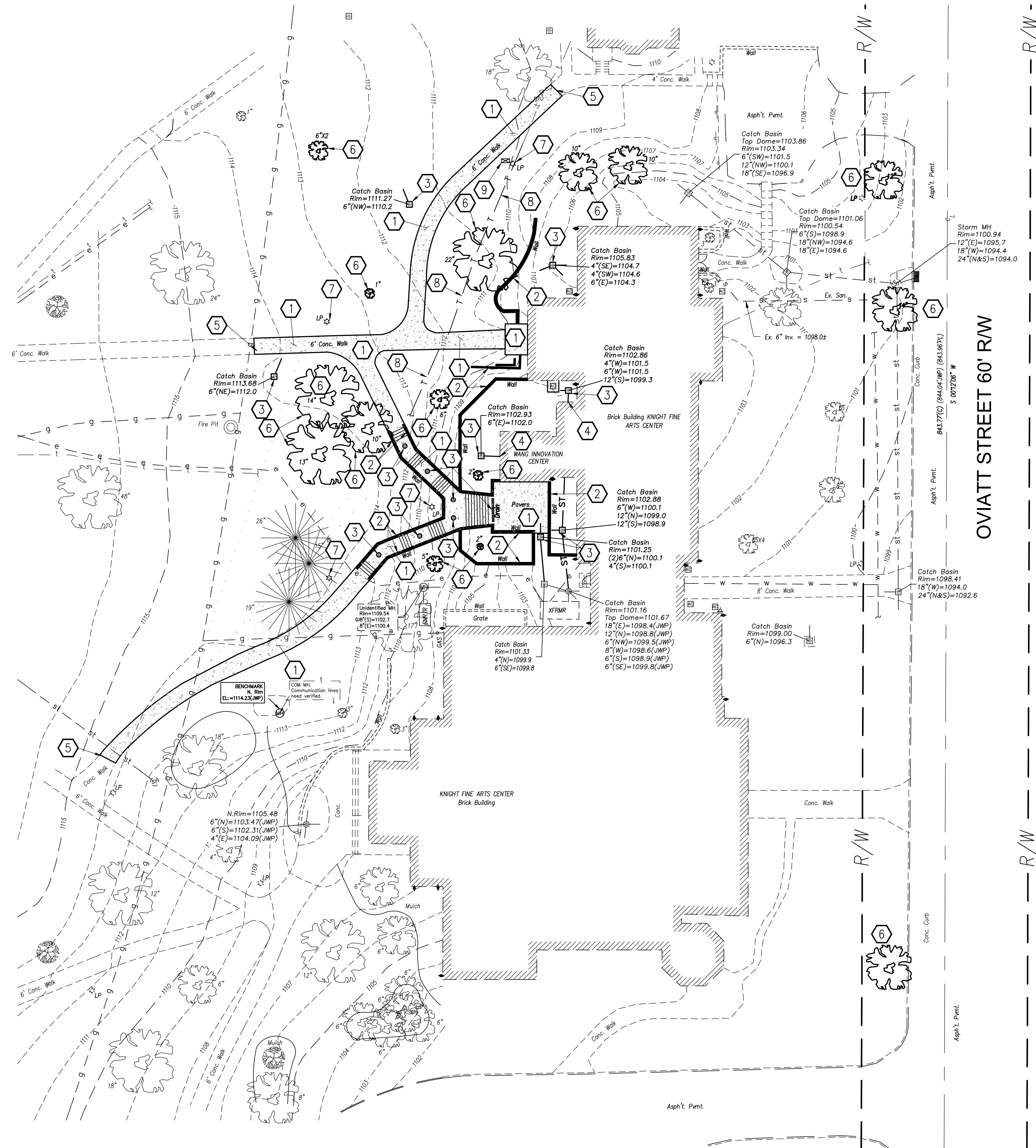
C-200

KEYED NOTES

- 1 - REMOVE EXISTING CONCRETE WALKS AND STEPS PER ODOT ITEM 202.
- 2 - REMOVE EXISTING RETAINING WALLS PER ODOT ITEM 202.
- 3 - VERIFY EXTENTS OF UNDERGROUND DRAIN PIPES ASSOCIATED WITH PROPOSED DRAINS. REMOVE EXISTING DRAINS AND ALL ASSOCIATED PIPES PER ODOT ITEM 202.
- 4 - CUT AND CAP EXISTING STORM PIPE AT FOUNDATION WALL.
- 5 - PROVIDE A FULL DEPTH AND STRAIGHT SAW CUT AT LIMITS OF EXISTING WALK TO BE REMOVED.
- 6 - EXISTING TREE TO BE REMOVED PER ODOT ITEM 201.
- 7 - REMOVE EXISTING LIGHT POLE, POLE FOUNDATION, ASSOCIATED WIRING AND CONDUITS PER ODOT ITEM 202. SEE SITE ELECTRICAL PLANS FOR FURTHER DETAILS.
- 8 - EXISTING COMMUNICATIONS LINE TO BE RELOCATED. SEE SITE ELECTRICAL PLANS FOR FURTHER DETAILS.
- 9 - REMOVE EXISTING PULL BOX, ASSOCIATED WIRING AND CONDUITS PER ODOT ITEM 202. SEE SITE ELECTRICAL PLANS FOR FURTHER DETAILS.

DEMOLITION NOTES

1. THE EXISTING UNDERGROUND UTILITIES AS SHOWN ARE OBTAINED FROM A COMBINATION OF FIELD LOCATION AND RECORD INFORMATION OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, WHERE PROVIDED. THESE UTILITIES, THEIR LOCATION AND THEIR ACTIVE OR INACTIVE STATUS, SHOULD BE VERIFIED BY CONTACTING THE OHIO UTILITY PROTECTION SERVICE (O.U.P.S.), PRIOR TO CONSTRUCTION. LOCATION, SIZE, DEPTH, AND STATUS OF USE ARE SHOWN AS ACCURATE AS POSSIBLE WITH THE AVAILABLE DATA.
2. ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF IN A PROPER MANNER IN COMPLIANCE WITH ALL APPLICABLE CODES & LAWS.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM CONSTRUCTION, INCLUDING WORK WITHIN THE RIGHT-OF-WAY.
4. CONTRACTOR SHALL RESTORE ALL OFFSITE AREAS DISTURBED BY CONSTRUCTION TO A CONDITION THAT IS EQUAL OR BETTER THAN THE CONDITIONS THAT EXISTED PRIOR TO CONSTRUCTION.
5. ALL PAVEMENT, CURB AND SIDEWALK TO BE REMOVED SHALL BE SAW CUT FULL DEPTH AT EXISTING CONSTRUCTION JOINTS. ALL SAW CUTTING MUST BE DONE WET TO CONFORM TO THE OHIO EPA'S FUGITIVE DUST ACT.



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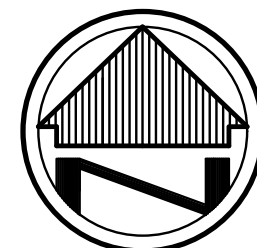
ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)



SCALE: 1"=20'

PRELIMINARY NOT FOR CONSTRUCTION

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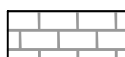
02-09-2026

PROJECT NUMBER
20250062

SITE PLAN

C-300

PAVEMENT LEGEND

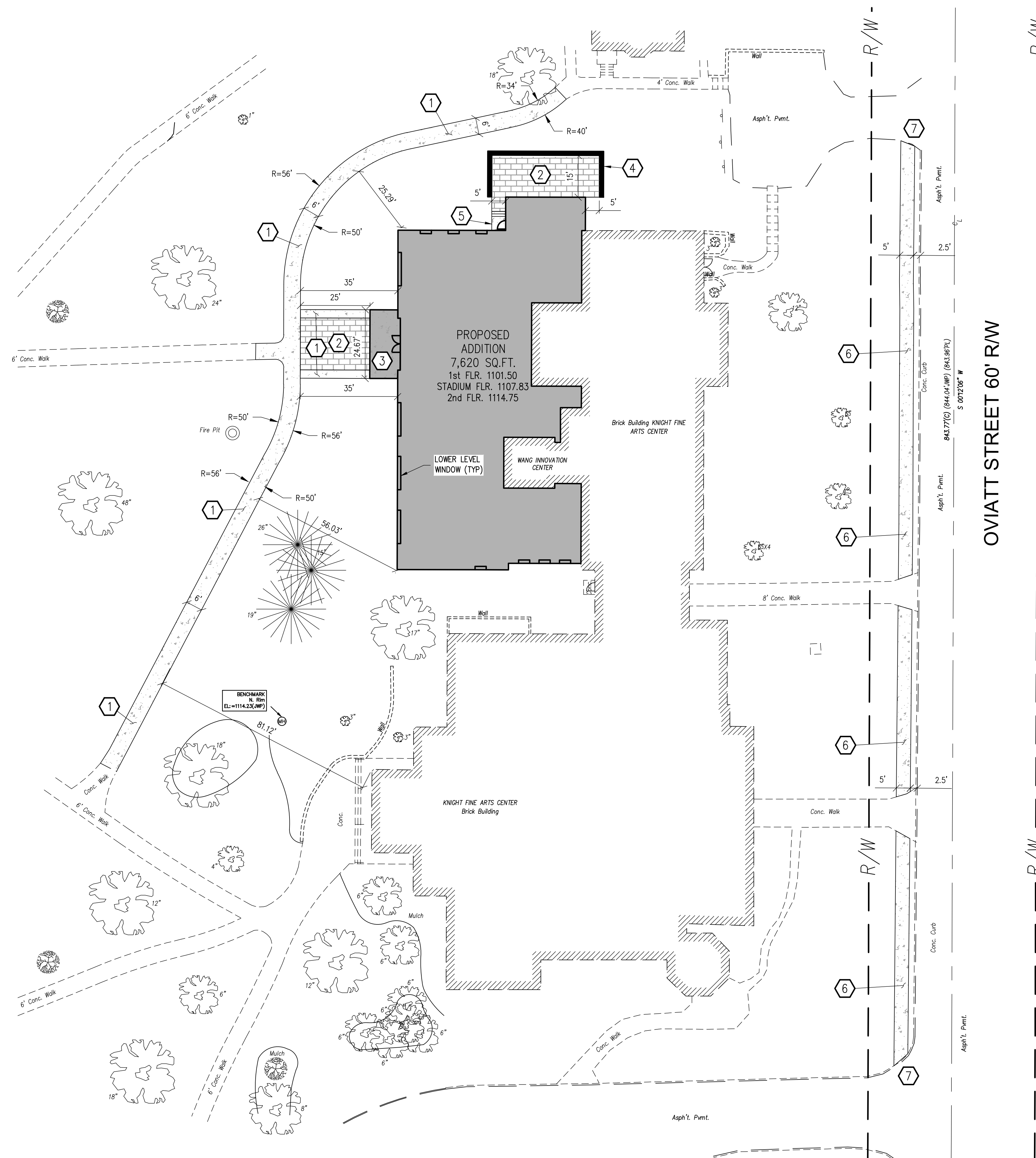
-  INSTALL STANDARD DUTY CONCRETE PAVEMENT.
-  INSTALL BRICK PAVER PAVEMENT.

KEYED NOTES

- ① - INSTALL 4" THICK CONCRETE WALK PER ODOT ITEM 608, CONSISTING OF 4" OF CLASS 'QC-1' CONCRETE OVER 4" OF COMPACTED NO. 57 LIMESTONE ON COMPACTED SUBGRADE. PROVIDE JOINTS AT 5' MAXIMUM SPACING.
- ② - INSTALL BRICK PAVER WALK/PATIO, SEE ARCHITECTURAL PLANS FOR DETAILS.
- ③ - PROPOSED COVERED PORCH. SEE ARCHITECTURAL PLANS FOR DETAILS.
- ④ - INSTALL BARN STONE LANDSCAPING WALL, SEE LANDSCAPING PLAN FOR DETAILS. 3' HIGH MAXIMUM HEIGHT.
- ⑤ - PROPOSED CONCRETE DOOR STOOP, STEPS AND HAND RAIL, SEE ARCHITECTURAL PLANS FOR DETAILS.
- ⑥ - INSTALL 5' CONCRETE WALK PER CITY OF HUDSON STANDARDS.
- ⑦ - INSTALL ADA RAMP PER CITY OF HUDSON STANDARDS.

NOTES:

1. ALL DIMENSIONS SHOWN ARE TO EDGE OF BUILDING, FACE OF CURB, OR EDGE OF PAVEMENT, UNLESS OTHERWISE SHOWN.
2. REQUIRED PERMITS FOR ALL APPROVED WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE OBTAINED BEFORE WORK BEGINS.



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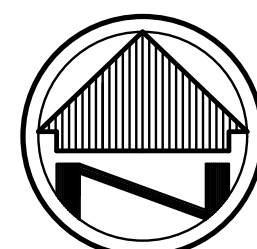
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CITY OF HUDSON, SUMMIT COUNTY, OHIO 44236

wohlwend engineering group
4216 KARG INDUSTRIAL PKWY
KENT, OH 44240
(330) 673-2400

02-09-2026

PROJECT NUMBER
20250062

UTILITY PLAN

C-401

Legend			
---	e EX. ELECTRIC LINE	---	E PROP. ELECTRIC LINE
---	g EX. GAS LINE	---	G PROP. GAS LINE
---	ohc EX. OVERHEAD LINE	---	OHE PROP. OVERHEAD LINE
---	s EX. SANITARY SEWER	---	PROP. 8" SAN. PROP. SANITARY SEWER
---	st EX. STORM SEWER	---	PROP. 12" STORM PROP. STORM SEWER
---	t EX. TELEPHONE LINE	---	W PROP. WATER LINE
---	w EX. WATER MAIN	---	A PROP. FIRE HYDRANT
⊕	EX. FIRE HYDRANT	---	V PROP. WATER VALVE
⊕	EX. WATER VALVE	■	PROP. FDC
⊕	EX. SAN. MANHOLE	■	PROP. CATCH BASIN
■	EX. CATCH BASIN	⊕	PROP. STORM MANHOLE
		⊕	PROP. SANITARY MANHOLE

KEYED NOTES

- ALL PROPOSED WATER, SANITARY, GAS, AND ELECTRIC UTILITIES FOR PROPOSED BUILDING ADDITION TO BE EXTENDED INTERNALLY FROM EXISTING BUILDING.
- CONNECT PROPOSED DOWNSPOUTS TO PROPOSED 8" PERFORATED PIPE WITHIN TRENCH DRAIN. VERIFY FINAL DOWNSPOUT LOCATIONS ON ARCHITECTURAL PLANS. INSTALL DOWNSPOUTS PER DETAIL SHEET C-700.
- INSTALL INFILTRATION TRENCH WITH PROPOSED 8" PERFORATED PIPE DRAIN PER DETAIL SHEET C-700.
- INSTALL 50 FEET OF 8" SOLID PIPE AND FITTINGS AT AT 0.5% SLOPE TO CONNECT SOUTH INFILTRATION PIPE TO NORTH INFILTRATION PIPE.
- INSTALL 26 FEET 8" SOLID PIPE AND FITTINGS AT AT 0.5% SLOPE TO CONNECT NORTH INFILTRATION PIPE TO PROPOSED STORM SEWER PIPE. USE 12"x8" WYE IN PROPOSED STORM SEWER TO MAKE CONNECTION.
- CORE DRILL EXISTING CATCH BASIN AT FOR SPECIFIED PIPE INVERT AND SIZE. CONNECT PROPOSED STORM SEWER PIPE TO EXISTING CATCH BASIN USING A KOR-N-SEAL CONNECTION.
- INSTALL 8" YARD DRAIN ON PROPOSED 8" PERFORATED PIPE PER DETAIL SHEET C-700. INSTALL ALL DRAINS WITH A TOP ELEVATION OF 1106.00 AND THE FOLLOWING INVERT ELEVATIONS:
INLET A = 1104.50
INLET B = 1104.20
INLET C = 1103.95
INLET D = 1103.81
INLET E = 1103.65
- INSTALL ACO K100 8" WIDE KLASSEK DRAIN TRENCH DRAIN WITH 6" DIAMETER OUTLET PIPE.
- INSTALL 6"x6" PVC SDR 35 WYE INTO EXISTING SANITARY LATERAL PER SUMMIT COUNTY DSSS STANDARDS AND SPECIFICATIONS.
- INSTALL 6" PVC SDR 35 PIPE AT 1.00% MINIMUM SLOPE PER SUMMIT COUNTY DSSS STANDARDS AND SPECIFICATIONS.
- INSTALL GREASE TRAP AND SAMPLING PORT, SEE BUILDING PLUMBING PLAN FOR DETAILS.

PRECONSTRUCTION MEETING NOTE
GENERAL CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY OF HUDSON PRIOR STARTING TO CONSTRUCTION.

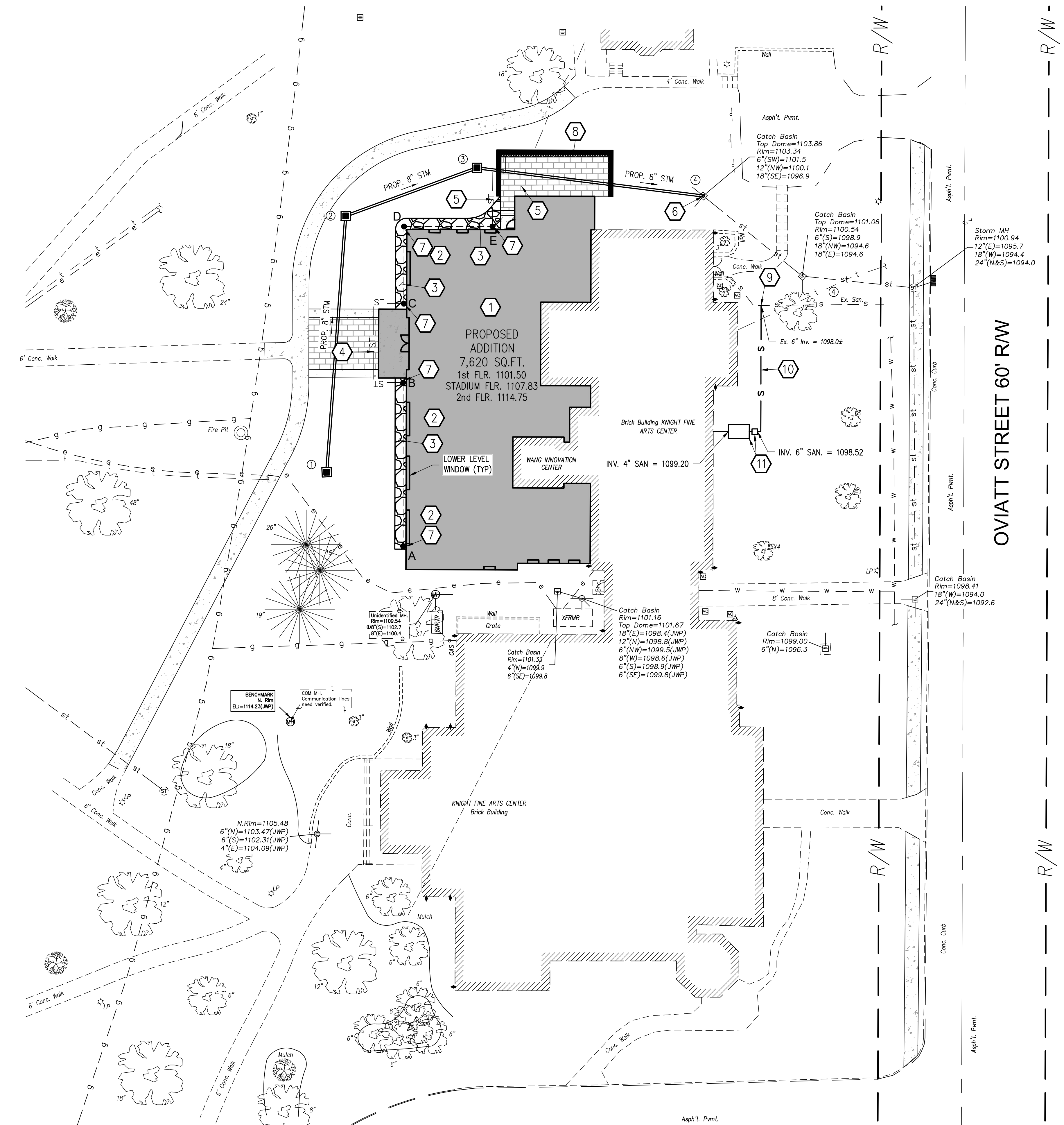
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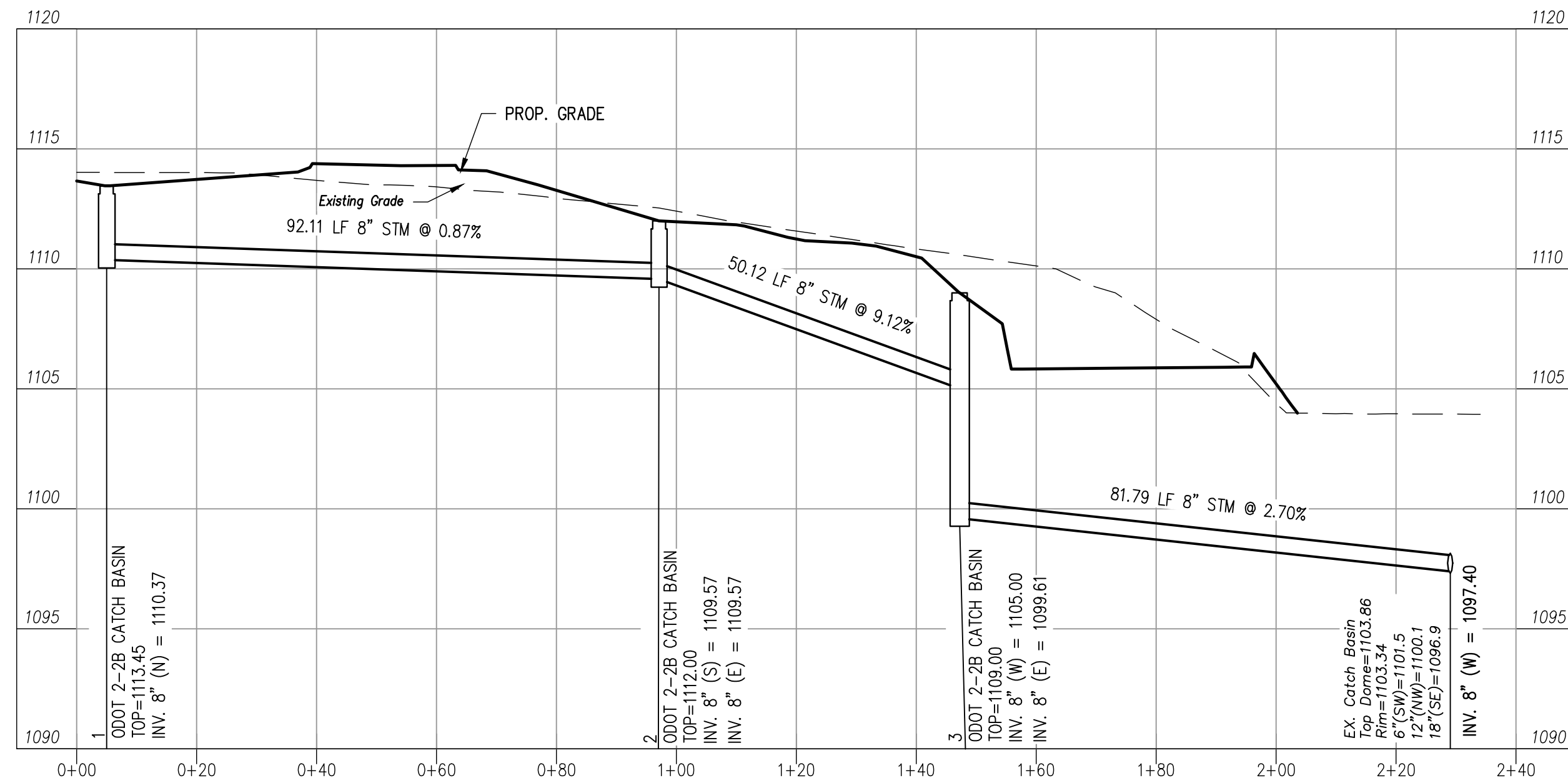
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UNDERGROUND UTILITIES
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Before You Dig
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STORM SEWER PROFILE

STORM SEWER STRUCTURE SCHEDULE				
STRUCTURE ID	TOP ELEV.	INLET PIPES	OUTLET PIPE	DESCRIPTION
1	1113.45		8" (N) = 1110.37	000T 2-2B CATCH BASIN
2	1112.00	8" (S) = 1109.57	8" (E) = 1109.57	000T 2-2B CATCH BASIN
3	1109.00	8" (W) = 1105.00	8" (E) = 1099.61	000T 2-2B CATCH BASIN
4	???	8" (W) = 1097.40		Null Structure

STORM SEWER PIPE SCHEDULE								
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	SIZE	LENGTH	SLOPE	DESCRIPTION	Min. Cover
1	2	1110.37	1109.57	8"	92.11	0.87%	CORRUGATED HDPE PIPE	1.7'
2	3	1109.57	1105.00	8"	50.12	9.12%	CORRUGATED HDPE PIPE	1.7'
3	4	1099.61	1097.40	8"	81.79	2.70%	CORRUGATED HDPE PIPE	5.2'

SCALE:
HORZ: 1"=20'; VERT: 1"=5'

PRELIMINARY
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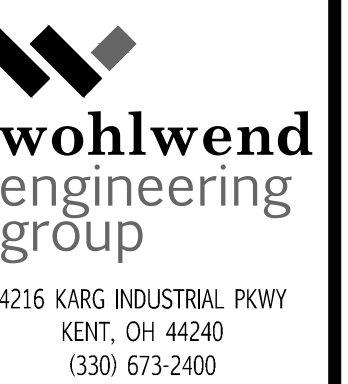
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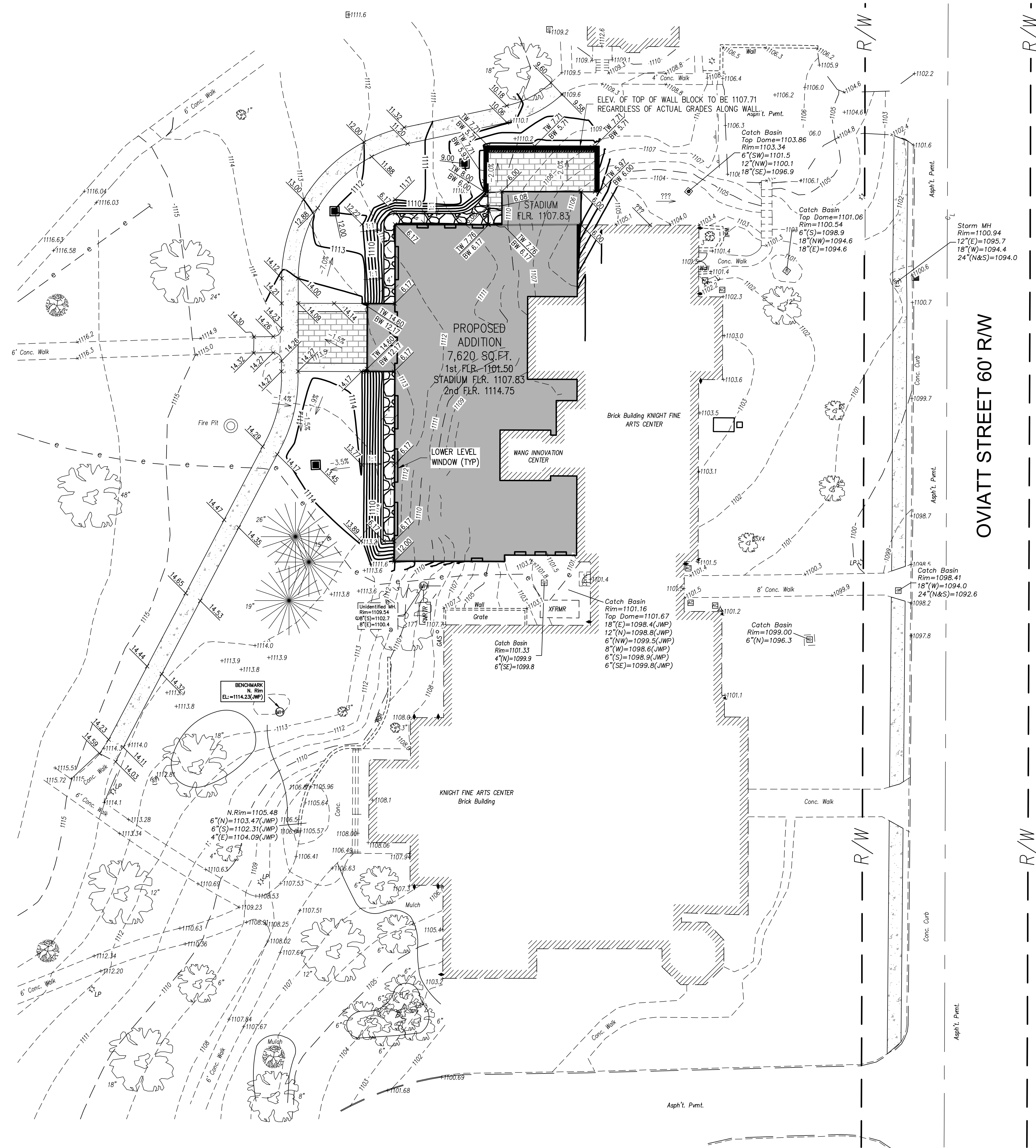
4216 KARG INDUSTRIAL PKWY
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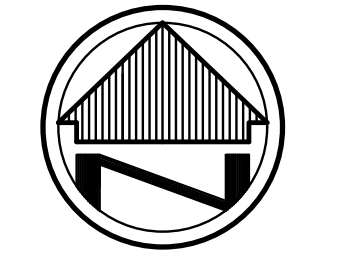
PROJECT NUMBER
20250062

UTILITY PROFILES

C-402



LEGEND	
--- 609 ---	EXISTING CONTOUR (MINOR)
--- 610 ---	EXISTING CONTOUR (MAJOR)
--- 609 ---	PROPOSED CONTOUR (MINOR)
--- 610 ---	PROPOSED CONTOUR (MAJOR)
X 78.50 78.00	PROP. TOP/BACK OF CURB
X 78.00	PROP. BOTTOM/FACE OF CURB
X 78.50 78.00	PROP. ELEVATION
X 78.50 78.00	PROP. GRADE AT TOP/BACK OF WALL
X 78.50 78.00	PROP. GRADE AT BOTTOM/FRONT OF WALL
- ADD 1100 TO ALL SPOT ELEVATIONS SHOWN	



SCALE: 1"=20'

PRELIMINARY
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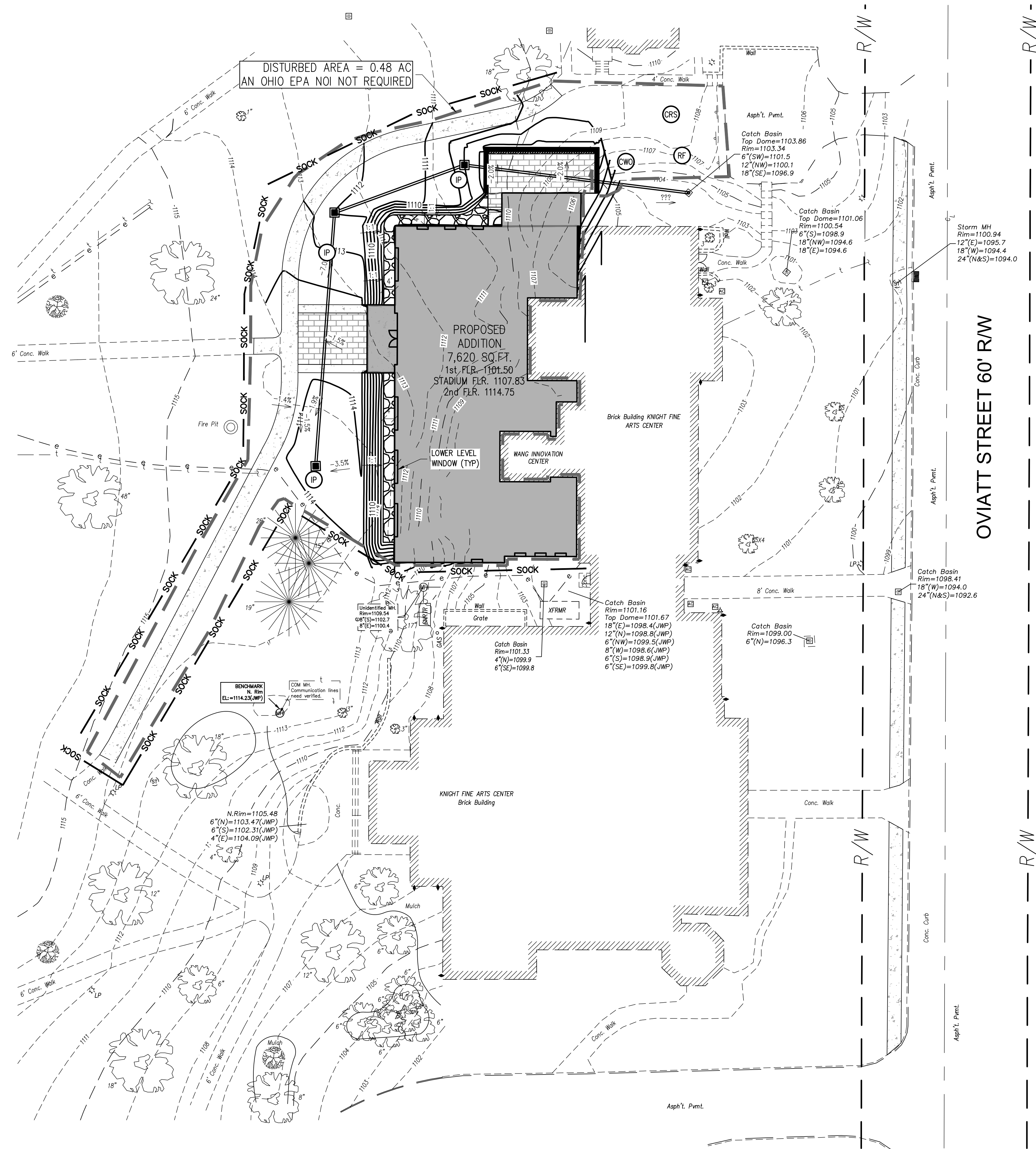
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THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).
BENCHMARK
SUMMIT COUNTY CONTROL MONUMENT "HU 106 AT SOUTHEAST CORNER OF S.R. 91 AND PROSPECT STREET, 28 FEET EAST OF CENTERLINE OF S.R. 91 AND 51 FEET SOUTH OF CENTERLINE OF PROSPECT STREET.
ELEVATION = 1100.11 (NAVD88)
UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

02-09-2026
PROJECT NUMBER
20250062
GRADING PLAN
C-500



SWP3 LEGEND

- 1076— PROPOSED CONTOUR
- - -1076- - - EXISTING CONTOUR
- SOCK — SILT FENCE OR FILTER SOCK
- IP — INLET PROTECTION
- CWO — TEMPORARY CONCRETE WASH OUT
- CRS — CONSTRUCTION ENTRANCE
- RF — REFUELING AREA
- MA — CHEMICAL MIXING AREA
- LIMITS OF EARTH DISTURBING ACTIVITIES

SCALE: 1"=20'

PRELIMINARY NOT FOR CONSTRUCTION

ISSUES AND REVISIONS

1	02-09-2026	PLANNING COMMISSION
2	04-15-2026	REVISED PER PLANNING COMMISSION

PROJECT NARRATIVE

THE PROPOSED WORK CONSISTS OF THE DEMOLITION OF EXISTING PATIOS AND WALKS AND THE CONSTRUCTION OF BUILDING ADDITION TO THE EXISTING ARTS CENTER BUILDING.

THE ENTIRE PARCEL IS BOUNDED BY PUBLIC STREETS. THE PROPERTIES ACROSS THE STREET ALONG THE WEST, NORTH, AND EAST SIDES OF THE PROPERTY ARE OWNED BY THE WESTERN RESERVE ACADEMY. THE PROPERTIES ACROSS THE STREET TO THE SOUTH ARE SINGLE FAMILY HOUSES.

EXISTING LAND USE SUMMARY

	AREA	%	C
LAWNS	11.28 AC	76.01	0.47
PAVEMENTS AND WALKS	1.89 AC	12.74	0.98
BUILDINGS	1.67 AC	11.25	0.98
TOTAL	14.84 AC	100.00	0.59

PROPOSED LAND USE SUMMARY

	AREA	%	C
LAWNS	11.22 AC	75.61	0.47
PAVEMENTS AND WALKS	1.80 AC	12.13	0.98
BUILDINGS	1.82 AC	12.26	0.98
TOTAL	14.84 AC	100.00	0.59

STORM WATER MANAGEMENT

THIS PROJECT CONSISTS OF REMOVING EXISTING SIDEWALKS AND RETAINING WALLS AND CONSTRUCTION A NEW BUILDING ADDITION.

THE OVERALL STORMWATER RUNOFF FOR THE EXISTING PARCEL WILL NOT BE INCREASED APPRECIABLY DUE TO THE LIMITED LIMITED SCOPE OF THIS PROJECT.

SURVEY DISCLAIMER

THE EXISTING SURVEY INFORMATION SHOWN ON THIS PLAN WAS PROVIDED BY APEX LAND SURVEYING. VERIFICATION OF EXISTING INFORMATION WAS NOT PERFORMED AS PART OF THIS PLAN. IF DISCREPANCIES ARE FOUND WITH THE EXISTING CONDITIONS VERSUS WHAT IS SHOWN ON THESE PLANS, CONTRACTOR SHOULD NOTIFY ENGINEER.

BASIS OF BEARINGS

THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

BENCHMARK

SUMMIT COUNTY CONTROL MONUMENT "HU 106 AT SOUTHEAST CORNER OF S.R. 91 AND PROSPECT STREET, 28 FEET EAST OF CENTERLINE OF S.R. 91 AND 51 FEET SOUTH OF CENTERLINE OF PROSPECT STREET.

ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

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ARTS AND INNOVATION CENTER
BUILDING ADDITION TO KNIGHT FINE ARTS CENTER
FOR WESTERN RESERVE ACADEMY

130 N. OVIATT STREET
CITY OF HUDSON, SUMMIT COUNTY, OHIO 44236

wohlwend engineering group

4216 KARG INDUSTRIAL PKWY
KENT, OH 44240
(330) 673-2400

02-09-2026

PROJECT NUMBER
20250062

SWPPP

C-601

TEMPORARY SEEDING

Annual Plant Species Pure Live Seeding Rate (lb/ac)	Seeding Dates	Seed Depth
Annual Ryegrass (Lolium multiflorum)	100 March 1 to May 1 August 1 to October 1	1/2 inch
Spring Oats (Avena sativa)	128 March 1 to August 1	1 inch
Winter (Cereal) Rye (Secale cereale)	100 March 1 to November 1	1 inch
Oats (Avena sativa) Sorghum Sudangrass (Sorghum x drummondii)	64 40	1 inch 3/4 inch
Pearl Millet (Pennisetum glaucum)	20 June 1 to August 1	1/2 inch
Winter Wheat (Triticum aestivum)	100 October 1 to November 1	1 inch

Seed and Seeding

- Select the plant species appropriate for the length of time the area will be idle and the season in which temporary cover is needed. Table 5.5.1 provides guidance on recommended annual species. Equivalent mixes recommended by the Natural Resource Conservation Service – Ohio, Ohio Department of Natural Resources, or Ohio State University's Cooperative Extension may also be used.
- Seed must be labeled according to Ohio Department of Agriculture regulations and Ohio Revised Code section 907.03.
- Complete temporary seeding prior to November 1. Between November 1 and March 1 use mulch temporary stabilization. Mulch temporary stabilization over winter has limited effectiveness at an increased cost.
- Thoroughly mix all seed and sow evenly over 100 percent of the prepared areas at the required rates. Apply the seed mix with a mechanical seeder, hydroseed, or broadcast onto loose soil and in a manner that will result in good seed-to-soil contact. Broadcast seed shall be covered by raking or dragging the soil or using a cultipacker. Note that broadcast seeding may not sufficiently bury annual grains such as oats, wheat, and rye. Annual grains are likely best planted with a seed drill.

Mulching

- Mulch material shall be applied immediately following the temporary seeding. Apply the mulch material by hand or mechanically so 75 to 90 percent of the soil surface is uniformly covered. Additional protective measures may be necessary to keep soil and seed from washing away on temporarily seeded slopes.
- Mulch shall be unrotten cereal grain straw applied at the rate of two tons per acre, woodchips with a minimum particle size of 1/2 inches applied to a minimum depth of two inches, wood-fiber hydraulic mulch applied to the manufacturer's specifications at a rate of 1,500 to 2,000 pounds/acre with a tackifier, or rolled erosion control matting applied according to manufacturer's specifications.
 - Wood fiber hydraulic mulches are typically short-lived (less than 3 months) and only relied upon to establish vegetation. Do not apply hydraulic mulches to shallow vegetated channels unless used with an erosion control blanket or to saturated soils.
 - Woodchips must be manufactured expressly from clean raw wood and be free of contaminants. Do not use woodchips where flowing water could wash them away.
 - Do not use grass clippings or other materials with carbon to nitrogen (C:N) ratios less than 20:1. These materials may release nitrate-nitrogen that could cause water quality impairments.
- Mulch shall be anchored immediately after placement to hold it in place. The following are acceptable methods for anchoring mulch.
 - A straw crimper or similar coupler-like implement may be used to punch straw mulch into the soil. Soil penetration should be about three to four inches. Crimped straw shall generally be longer than six inches (finely chopped straw cannot be crimped). On sloping land where equipment can operate safely, the crimp along the contour.
 - Cotton, jute, or synthetic nettings may be used according to the manufacturer's specifications. Pin or staple netting per the manufacturer's recommendations. Biodegradable netting is recommended.
 - Polymeric emulsion blend or organic tackifiers (guar, psyllium, starch, and pitch and rosin emulsions) may be applied at the manufacturer's recommended application rates if weather conditions are compatible with the manufacturer's recommendations. Apply synthetic or organic binders in such a manner that will not result in direct contact with waters of the state. Follow weather forecasts and the product's required drying time to ensure the binders will not be washed into waters of the state. Binders must be physiologically harmless and not result in a phytotoxic effect or impede the growth of turfgrass. Petroleum-based binders are prohibited. Remove and properly dispose of all non-organic or non-biodegradable mulch and anchoring materials when the practice is terminated.

Irrigation

- Water temporary seedings performed during summer months or periods of drought at a rate of one-half inch per week until 70% cover is established.
- Irrigate at a rate and method that will not erode soil or dislodge mulch cover.

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
Any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

MULCH TEMPORARY STABILIZATION

Scope

- Apply mulch temporary stabilization to:
 - any disturbed areas within 50 feet of surface waters of the state and not at final grade within two days of the most recent disturbance if the area will remain idle for more than 14 days.
 - any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of waters of the state within seven days of the most recent disturbance within the area.
 - disturbed areas that will be idle over winter prior to the onset of winter weather, and at least seven days prior to the transfer of permit coverage for the individual residential lot(s).
- Installation**
 - Apply the mulch material by hand or mechanically so that 100 percent of the disturbed soil surface is uniformly covered.
 - Mulch shall be:
 - unrotten cereal grain straw applied at a rate of four tons per acre,
 - erosion control blankets with a 12-month functional longevity applied according to manufacturer's specifications, or
 - bonded fiber matrix (BFM) hydraulically with a cover factor (C) less than 0.01 applied at a rate of at least 3,500 pounds per acre. Do not apply BFM immediately before, during, or after a rain event. It must have the opportunity to dry for up to 24 hours after installation.
 - Straw mulch shall be anchored immediately after placement to hold it in place. The following are acceptable methods for anchoring mulch.
 - Use a straw crimper or similar coupler-like implement to punch the straw mulch into the soil. Soil penetration should be about three to four inches. Crimped straw shall be generally longer than six inches (finely chopped straw cannot be crimped). On sloping land where equipment can operate safely, crimp along the contour.
 - Cotton, jute, or synthetic netting may be used according to the manufacturer's specifications. Pin or staple netting per the manufacturer's recommendations. Degradable netting is recommended for areas to be mowed.
 - High polymer synthetic emulsions or organic binders may be used at the manufacturer's recommended application rates if weather conditions are compatible with the manufacturer's recommendations. Apply synthetic or organic binders in such a manner that will not result in direct contact with waters of the state. Follow weather forecasts and the product's required drying time to ensure the binders will not be washed into waters of the state. Binders must be physiologically harmless and not result in a phytotoxic effect or impede vegetation growth. Petroleum-based binders are prohibited.
 - Remove and properly dispose of any non-organic or non-biodegradable mulch and anchoring materials when no longer necessary. Disturbance to the stream shall be kept to a minimum. Preserve all streambank vegetation to the maximum extent practical and make the stream crossing as narrow as practical. Clearing shall be done by cutting NOT grubbing except in the case of stream flows where approaches may require more grading. Leave roots and stumps in place to help stabilize the banks and accelerate re-vegetation.

PERMANENT SEEDING

Mix Use	Plant Species	Pure Live Seeding Rate (lb/ac) ³	Percent of Mix
1. Multipurpose Lawn	Turf Type Fescue (Festuca arundinacea)	40	47
	Kentucky Bluegrass (Poa pratensis)	20	23
	Perennial Ryegrass (Lolium perenne)	25	30
	Kentucky Bluegrass (Poa pratensis)	85 lb/ac total PLS rate	41
	Creeping Red Fescue (Festuca rubra)	16.5	27
2. Quick Cover	Annual Ryegrass (Lolium multiflorum)	1.5	2
	Perennial Ryegrass (Lolium perenne)	19	30
	Kentucky Bluegrass (Poa pratensis)	11	13
	Orchardgrass (Dactylis glomerata)	22.5	37
	Annual Ryegrass (Lolium multiflorum)	1.5	10
3. Secondary Wildlife Benefits Cover	Perennial Ryegrass (Lolium perenne)	2	31
	Red Clover (Trifolium pratense)	9	4
	Hard Fescue (Festuca longifolia)	55	55
	Creeping Red Fescue (Festuca rubra)	35	35
	Annual Ryegrass (Lolium multiflorum)	10	10
4. Steep Slopes	Annual Ryegrass (Lolium multiflorum)	100 lb/ac total PLS rate	
	New England Aster (Symphyotrichum novae-angliae)		
	Partridge Pea (Chamaecrista fasciculata)		
	Echinacea purpurea, Rattlesnake Master (Eryngium yuccifolium), Ox-Eye Sunflower (Helopsis scabra), Bergamot (Monarda fistulosa), Grey-Headed Coneflower (Rudbeckia hirta), Orange Coneflower (Rudbeckia fulgida), Prairie Dock (Siphium terribinacium), Whorled Rosinweed (Siphium trifolium), Stiff Goldenrod (Solidago rigida)	15	25
	(a mixture of 5 to 12 species with any one not to exceed 5% of the mix)		
5. Meadow / Conservation Area ⁴	Big Blue Stem (Andropogon gerardi)	2	3
	Little Blue Stem (Schizachyrium scoparium)	3	5
	Indian Grass (Sorghastrum nutans)	1	2
	Annual Ryegrass (Lolium multiflorum)	40	65
	81 lb/ac total PLS rate		

Footnotes:

- Small variations within the seeding rates listed within the planned mix are acceptable so long as the mix includes all the listed species, and the total proportion of the seed mixture is 100% or more.
- The seeding rates used in this document assume the seed used is all viable. All rates listed in this document are listed as Pure Live Seed (PLS). This PLS rate must be adjusted to account for the quality of the seed being used. PLS seeding rates are to be increased by 20% if the method of seeding does not result in good soil seed contact.
- Included to account for the increased risk of poor emergence. For example, if the planned method involves broadcast seeding with no additional activities to improve seed-to-soil contact.
- This is a general mix. Ecoregion-specific seed mixes are recommended where feasible.

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Other areas at final grade	Within seven days of reaching final grade within that area

GENERAL NOTES

GENERAL

- SEDIMENT PONDS/TRAPS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS HAVE BEEN STABILIZED.
- DITCHES WITH GRADES GREATER THAN 1.5% SHALL HAVE EROSION CONTROL BLANKETS/MATTING INSTALLED AS PART OF STABILIZATION MEASURES.
- EROSION CONTROL BLANKETS SHALL BE USED TO AID IN VEGETATION ESTABLISHMENT ON ALL DISTURBED SLOPES GREATER THAN 6%.
- SLOPES OF THE ROADS AND DRIVES SHALL BE SEEDED AND BLANKETED IMMEDIATELY UPON THEIR COMPLETION.
- OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON PLAN.
- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO'S RAINWATER AND LAND DEVELOPMENT MANUAL (2006 EDITION).
- OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERN CAUSED BY EARTH-MOVING ACTIVITY.
- A FULL LOG OF EROSION AND MULCHING SHALL BE APPLIED TO ALL BARE AREAS IMMEDIATELY AFTER THE CONSTRUCTION OF THE STREETS ARE COMPLETED.
- NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO OHIO EPA FOR NPDES PERMIT 45 DAYS PRIOR TO THE START OF CLEARING AND OR GRADING.
- CONSTRUCTION MUST COMPLY WITH ALL LOCAL EROSION AND SEDIMENT REGULATIONS.
- NO SOLID OR LIQUID WASTE SHOULD BE DISCHARGED TO STORM WATER RUNOFF.
- SWPPP MUST SHOW COMPLIANCE WITH LOCAL WASTE DISPOSAL, SANITARY, AND HEALTH REGULATIONS.
- IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY OR ITS ENGINEER AT THE END OF EACH WORK DAY.
- DISTURBED AREAS ARE NOT CONSIDERED STABILIZED UNTIL VEGETATIVE GROWTH IS AT LEAST 70% OR EQUIVALENT.
- TRENCH DEWATERING MUST PASS THROUGH A FILTER BAG.
- MAINTENANCE AND INSPECTION**
- ALL INSPECTIONS ARE TO BE MADE BY QUALIFIED INSPECTION PERSONNEL.
- PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED A MINIMUM OF ONCE EVERY SEVEN DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE, CORRECTIVE MEASURES TAKEN. RECORDS MUST BE MAINTAINED FOR 3 YEARS AFTER NOTICE OF TERMINATION PER OHIO EPA NPDES PERMIT.
- REPAIRS**
- ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 3 DAYS OF THE INSPECTION IN WHICH THE DAMAGED BMP WAS NOTED.
- WINTERIZATION**
- ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.

MULCHING

- MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION. DORMANT SEEDING SHALL BE MULCHED.
- MATERIALS**
 - STRAW – IF STRAW IS TO BE USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ.FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000 SQ.FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS – IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LB./AC. OR 46 LB./1000 SQ.FT.
 - OTHER – OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
- STRAW MULCH ANCHORING METHODS
 - STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
 - 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, GENERALLY, BE LEFT LONGER THAN 6 IN.
 - MULCH NETTINGS – NETTINGS 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.

- ASPHALT EMULSION – ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GAL./AC.
- SYNTHETIC BINDERS – SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGR-TAC), DCA-70, PETROS TERRA TACK, OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- WOOD CELLULOSE FIBER – WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT 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. OF WOOD CELLULOSE FIBER.

IRRIGATION

- PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED FOR ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.
- EXCESSIVE IRRIGATION RATES SHALL BE AVOIDED AND IRRIGATION MONITORED TO PREVENT EROSION AND DAMAGE FROM RUNOFF.

PERMANENT SEEDING

- DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AND AT FINAL GRADE SHALL HAVE THE PERMANENT LANDSCAPING COVER INSTALLED PER LANDSCAPING PLAN.
- DISTURBED AREAS WITHIN 50 FEET OF A STREAM MUST HAVE A PERMANENT COVER APPLIED WITHIN 2 DAYS OF REACHING FINAL GRADE.
- EXCAVATION DEWATERING**
- ALL WATER PUMPED FROM UTILITY TRENCHES DURING CONSTRUCTION SHALL BE PASSED THROUGH A FILTER BAG THAT IS ATTACHED TO THE OUTLET HOSE OF THE PUMP AND PLACED ON A GRASS OR GRAVEL SURFACE.

Timing

- Permanent seed areas within 50 feet of surface waters of the state within two days of reaching final grade and all other areas within seven days of reaching final grade. Do not delay permanent seeding of any portion of the site at final grade, including stormwater basins, while construction on another portion of the site is being completed. Complete permanent seeding in phases, if necessary.
 - Permanent seed areas that will lie dormant for one year or more within seven days of the most recent disturbance.
 - Conduct permanent seeding according to the timeframes in Table 5.7.1.
- Seeded Preparation, Fertilizer, and Lime**
- Prior to the start of seeding operations, perform soil tests to determine site-specific application rates for both lime and fertilizer. Soil samples taken for engineering purposes or soil restoration may also be used for chemical analysis.
 - The soil being seeded must be of sufficient fertility with adequate nutrients and water-holding capacity to support vegetation. The seeded should be firm and rough with small clods, moist at the surface, and free of weeds and competing vegetation.
 - If the soil has become compacted or crusted, loosen it to a depth of three to five inches with a suitable agricultural or construction implement, such as a disc harrow, line harrow, chisel plow, or ripper. Leave the seedbed in loose condition until after fertilization and seeding. If necessary, firm it with a cultipacker.
 - Track walk seeded areas (greater than 3:1) leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. (see Chapter 5.4 Soil Rebuilding)
 - Apply starter fertilizer and lime as recommended by a soil test and work into loose soil. If fertilizer is not incorporated, apply one-half the rate described above during seeded preparation and repeat another one-half rate application of the same fertilizer within three to five weeks after seeding.
 - Track walk seeded areas (greater than 3:1) leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. (see Chapter 5.4 Soil Rebuilding)
 - Apply starter fertilizer and lime as recommended by a soil test and work into loose soil. If fertilizer is not incorporated, apply one-half the rate described above during seeded preparation and repeat another one-half rate application of the same fertilizer within three to five weeks after seeding.
- When not specified by a soil test, apply standard commercial fertilizer 10–20–10 evenly over the surface at a standard dry application rate of 20 pounds per 1,000 square feet. Other commercial fertilizer mixture ratios may be applied at the application rate specific or that ratio to provide an equivalent quantity of nutrients. All dry or liquid fertilizers must be fully labeled, delivered, and stored per applicable laws and registered with the Ohio Department of Agriculture (ODA) in accordance with Ohio Revised Code (ORC) section 905.33.
- When not specified by a soil test, apply two tons of pulverized agricultural-grade lime per acre to develop a slightly acidic growing environment. Equivalent liming materials described in Bulletin 472, *Ohio Agronomy Guide*, published by the Ohio State University Cooperative Extension Service (OSU Extension) may also be used. Liming material must be from a manufacturer licensed by ODA in accordance with ORC section 905.52.

Seed

- Select a seed mix from Table 5.7.2 or an equivalent mixture recommended by the Natural Resource Conservation Service – Ohio, Ohio Department of Natural Resources, or OSU Extension.
- Seed must be labeled according to ODA regulations and Ohio Revised Code section 907.03.
- Legume seed must be properly inoculated with nitrogen-fixing bacteria specifically prepared for the species prior to seeding and should be applied at a rate of two pounds of inoculant per 100 pounds of seed. Use four times the recommended rate when hydroseeding.

Seeding Methods

- Thoroughly mix all seed and evenly sow the seed over 100 percent of the prepared areas at the required rates. Seed may be applied by dry seeding, a mechanized seeder, or hydroseeding.
- Dry seeding may be performed with a conventional drop or cyclone seeder. Seed shall be incorporated into the soil within 24 hours of seeded preparation to a depth of one-quarter inch by raking or dragging or with a cultipacker or similar implement to assure good seed-to-soil contact. Seed may also be covered with compost or engineered soil media applied to a minimum depth of 1/4 inch over the prepared areas. Where feasible, apply seed in two directions perpendicular to each other using half the seeding rate in each direction. After seeding, firm the soil with cultipacker or similar implement.
- Mechanized seeding may be used to bury the seed at least 1/4 inches. Where practical, apply seed in two directions perpendicular to each other, using one-half of the seeding rate in each direction. On sloping land, operate seeding equipment on the contour where feasible.
- Hydroseeding should follow a two-step process to ensure the seed is in direct contact with the soil. First seed and fertilize with 25 to 30 percent mulch and tackifier onto soil in the first lift. Place the remaining 70 to 75 percent of the mulch and tackifier over the first lift in a second application. If seed, fertilizer, and mulch are applied in a single step, the seed rates in Table 5.7.2 should be increased by 50 percent to compensate for seeds not having direct contact with the soil. Hydroseeding alone does not provide adequate erosion control.

Mulching

- Mulch material shall be applied immediately following permanent seeding. Apply the mulch material by hand or mechanically so 85 to 90 percent of the soil surface is uniformly covered.
- Mulch shall be unrotten cereal grain straw applied at the rate of two tons per acre, woodchips with a minimum particle size of 1/2 inches applied to a minimum depth of two inches, wood-fiber hydraulic mulch applied to the manufacturer's specifications at a rate of 1,500 to 2,000 pounds/acre with a tackifier, or rolled erosion control matting applied according to manufacturer's specifications.
- Wood fiber hydraulic mulches are generally short-lived (less than 3 months) and should only be used during the spring and fall seeding window. Do not apply hydraulic mulches to shallow vegetated channels unless used with an erosion control blanket or to saturated soils.
- Woodchips must be manufactured expressly from clean raw wood and be free of contaminants. Do not use woodchips where flowing water could wash them away.
- Organic mulch materials with carbon to nitrogen (C:N) ratios of less than 20:1 such as grass clippings will release nitrate-nitrogen that could cause water quality impairments and should be avoided.
- Mulch shall be anchored immediately after placement to hold it in place. The following are acceptable methods for anchoring mulch.
 - Use a straw crimper or similar coupler-like implement to punch the straw mulch into the soil. Soil penetration should be about three to four inches. Crimped straw shall generally be longer than six inches (finely chopped straw cannot be crimped). On sloping land where equipment can operate safely, the operation should be on the contour.
 - Cotton, jute, or synthetic netting may be used according to the manufacturer's specifications. Pin or staple netting per the manufacturer's recommendations. Degradable netting is recommended for areas to be mowed.
 - High polymer synthetic emulsions or organic binders may be used at the manufacturer's recommended application rates if weather conditions are compatible with the manufacturer's recommendations. All applications of synthetic or organic binders must be conducted in such a manner that there is no direct contact with waters of the state. Weather forecasts must be considered to ensure the binders will not be washed into waters of the state. Binders must be physiologically harmless and not result in a phytotoxic effect or impede vegetation growth.
 - All non-organic or non-biodegradable mulch and anchoring materials shall be removed and properly disposed of when the practice is terminated.

Irrigation

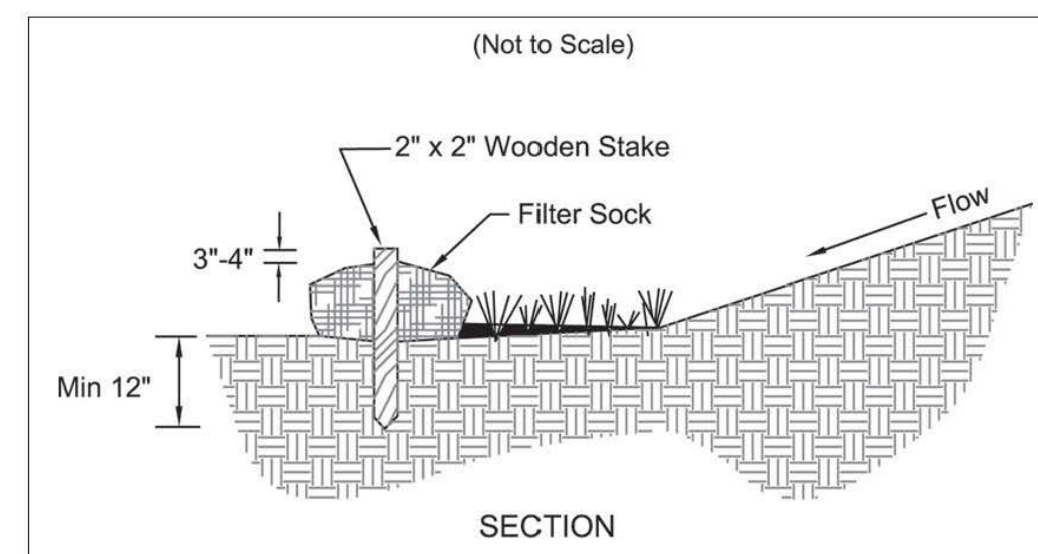
- Thoroughly water permanent seeded areas after seed germination. Apply a total rate of 300 gallons per 1,000 square feet in at least two applications spread over seven days. Perform a secondary water application seven and ten days after the primary applications. If a one-half inch or greater of rainfall occurs within the irrigation period, watering may be omitted. Irrigation seedings performed between June 1 and July 31 at a rate of one-half inch per week until 70% cover is established.
- Irrigate at a rate and method that will not erode soil or dislodge mulch cover.
- Dormant Seeding**
- Dormant seeding may occur if soil moisture conditions allow access for seeding.
- Increase all seeding rates by 50 percent when dormant.
- Dormant seeding shall be mulched so that 100 percent of the ground surface is uniformly covered with cereal grain straw applied at the rate of three to four tons per acre or bonded fiber matrix hydraulically applied at a rate of 3,500 to 4,000 pounds per acre. Hydroseed and standard hydraulic fiber mulch do sufficiently protect dormant seeded ground from erosion.

NON-SEDIMENT POLLUTANT CONTROLS

- CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
 - PREVENT SPILLS
 - USE PRODUCTS UP
 - FOLLOW LABEL DIRECTIONS FOR DISPOSAL
 - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
 - RECYCLE WASTES WHENEVER POSSIBLE
- DON'T POUR INTO WATERSHEDS, STORM DRAINS OR ONTO THE GROUND
- DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
- DON'T BURY CHEMICALS OR CONTAINERS
- DON'T BURN CHEMICALS OR CONTAINERS
- DON'T MIX CHEMICALS TOGETHER
- CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL, INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS MUST BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CDD&D) WASTE MUST BE DISPOSED OF AT AN OHIO EPA APPROVED CDD&D LANDFILL.
- NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENDANGER NATURAL WETLANDS, STREAMS OR FLOODPLAINS OR RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.
- HANDLING CONSTRUCTION CHEMICALS, MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM WATERCOURSE, DITCH OR STORM DRAIN.
- EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 60 GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM 8.
- CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER, FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.
- SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO OHIO EPA.
- CONTAMINATED SOILS: IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTI-FREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). NOTE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- OPEN BURNING: NO MATERIALS CONTAINING RUBBER, GREASE, ASPHALT, OR
- PETROLEUM PRODUCTS, SUCH AS TIRES, AUTOPARTS, PLASTICS OR PLASTIC COATED WIRE MAY BE BURNED (OAC 3745-19). OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS, WHICH ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS; 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE. OUTSIDE OF RESTRICTED AREAS, NO OPEN BURNING IS ALLOWED WITHIN A 1000 FEET OF AN INHABITED BUILDING ON ANOTHER PROPERTY. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR: HEATING, COOKING, SMOKING POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBECUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE OR LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES, EXCLUDING BUILDINGS.
- DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS. ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER WHICH PREVENTS A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.
- OTHER AIR PERMITTING REQUIREMENTS: CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION MAY REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- PROCESS WASTE WATER/LEACHATE MANAGEMENT: OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CATCH WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED, IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.
- A PERMIT TO INSTALL (PTI) IS REQUIRED PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. PLANS MUST BE SUBMITTED AND APPROVED BY OHIO EPA. ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.
- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED AND SITE PERSONNEL MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

Specifications
for
Filter Sock

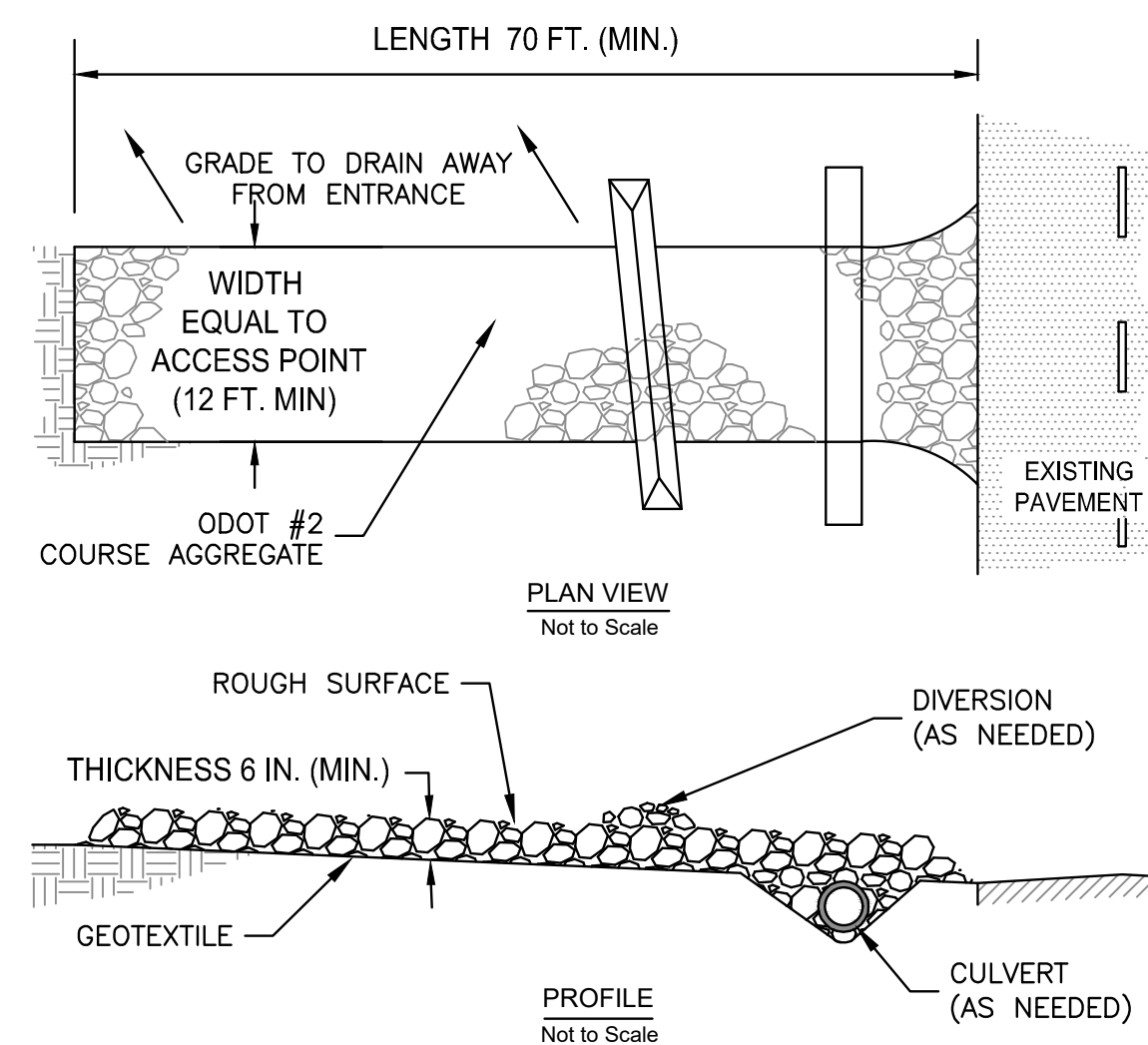
MINIMUM SIZE: 12" DIAMETER



- Materials – Compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. They shall be derived from a well-decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
 - Filter Socks shall be 3 or 5 mil continuous, tubular, HDPE 3/8" knitted mesh netting material, filled with compost passing the above specifications for compost products.
 - INSTALLATION:
 - Filter socks will be placed on a level line across slopes, generally parallel to the base of the slope or other affected area. On slopes approaching 2:1, additional socks shall be provided at the top and as needed mid-slope.
 - Filter socks intended to be left as a permanent filter or part of the natural landscape, shall be seeded at the time of installation for establishment of permanent vegetation.
 - Filter Socks are not to be used in concentrated flow situations or in runoff channels.
- MAINTENANCE:**
- Routinely inspect filter socks after each significant rain, maintaining filter socks in a functional condition at all times.
 - Remove sediments collected at the base of the filter socks when they reach 1/3 of the exposed height of the practice.
 - Where the filter sock deteriorates or fails, it will be repaired or replaced with a more effective alternative.
 - Removal – Filter socks will be dispersed on site when no longer required in such as way as to facilitate and not obstruct seedings.

50 CHAPTER 6 Sediment Controls

CONSTRUCTION ENTRANCE STABILIZATION



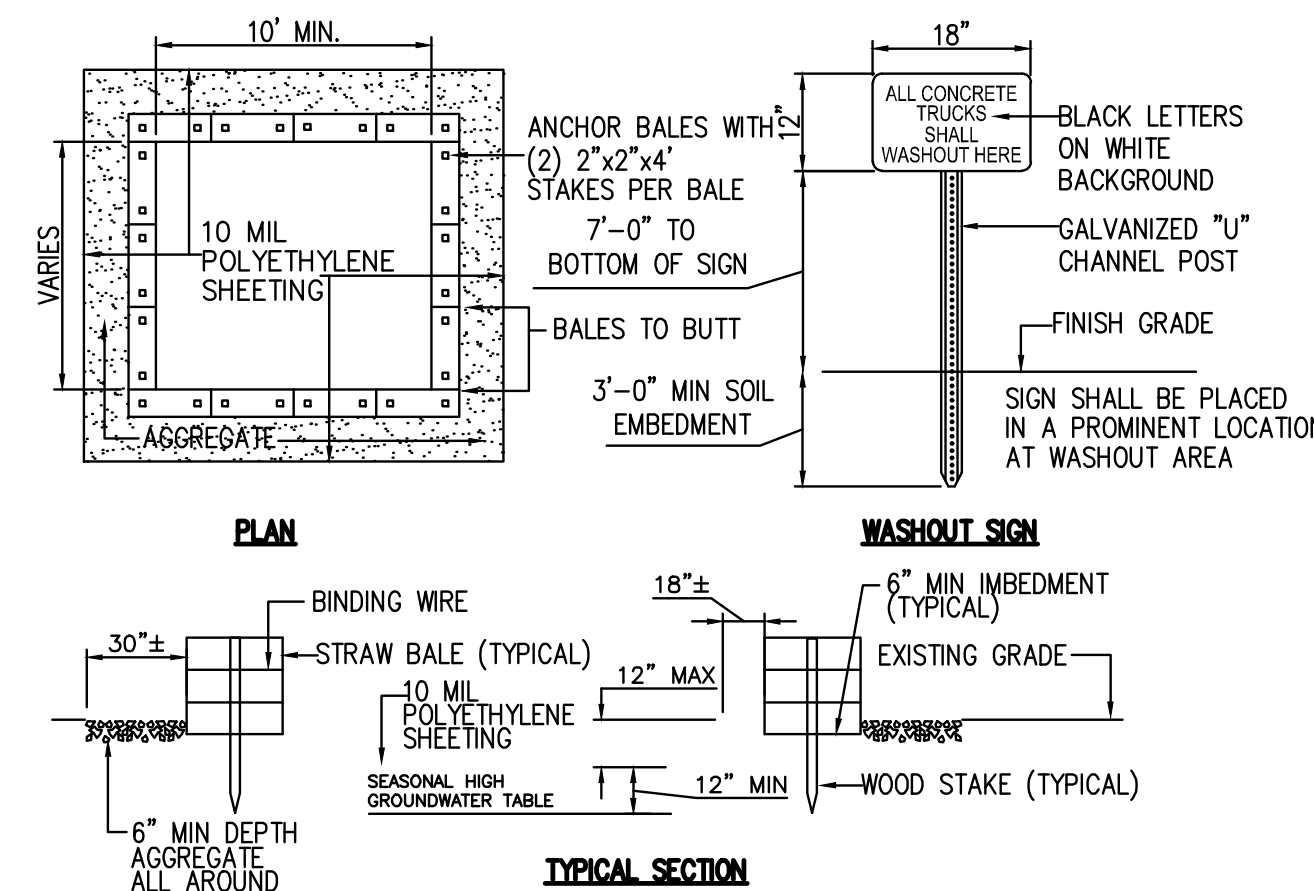
Scope
Furnish all materials, labor, and equipment necessary for constructing construction entrance stabilization in accordance with the construction drawings and these specifications.

Timing
The stabilized construction entrance shall be installed as soon as practicable and before major grading activities commence. It shall remain in place and functional until all disturbed areas are stabilized or replaced with a permanent roadway.

- Materials**
- Stone aggregate shall meet the gradation requirements for #2 (1.5 – 2.5 inch) coarse aggregate in Table 703.01 of the current Ohio Department of Transportation (ODOT) Construction and Material Specification (CMS) Specification 703, or equivalent. Poorly graded aggregate develops an abrasive surface and is preferred.
 - Geotextile shall be polymeric fibers formed into a woven or non-woven fabric that meets the current ODOT CMS specification 712.09 for Type D: Subgrade-Base Separation or Stabilization, or equivalent.
 - Abrasive manufactured mats may be used as an alternative. They must be installed to the same dimensions as stone stabilization and in accordance with the manufacturer's specifications, including allowable loads, anchoring, and connections.

- Installation**
- Remove and stockpile all topsoil. Lay geotextile over the entire subgrade prior to placing the stone layer.
 - The construction entrance shall be not less than 70 feet long (30 feet on an individual residence lot less than 1 acre) and not less than the full width of the ingress or egress point with a minimum width of 12 feet.
 - The stone layer shall be a minimum of 6 inches thick (at least 10 inches is recommended for heavy use). The stone surface should be above the adjoining ground surface to prevent run-on.
 - The stone surface should be rough or abrasive, do not compact or roll the surface smooth.
 - Divert stormwater from up-slope areas away from the entrance. Construct a water bar or mountable berm where necessary to prevent runoff from flowing down the length of the construction entrance. Construct a culvert under the stone where necessary to prevent surface water from flowing across the entrance. Convey sediment-laden runoff to sediment control practices.

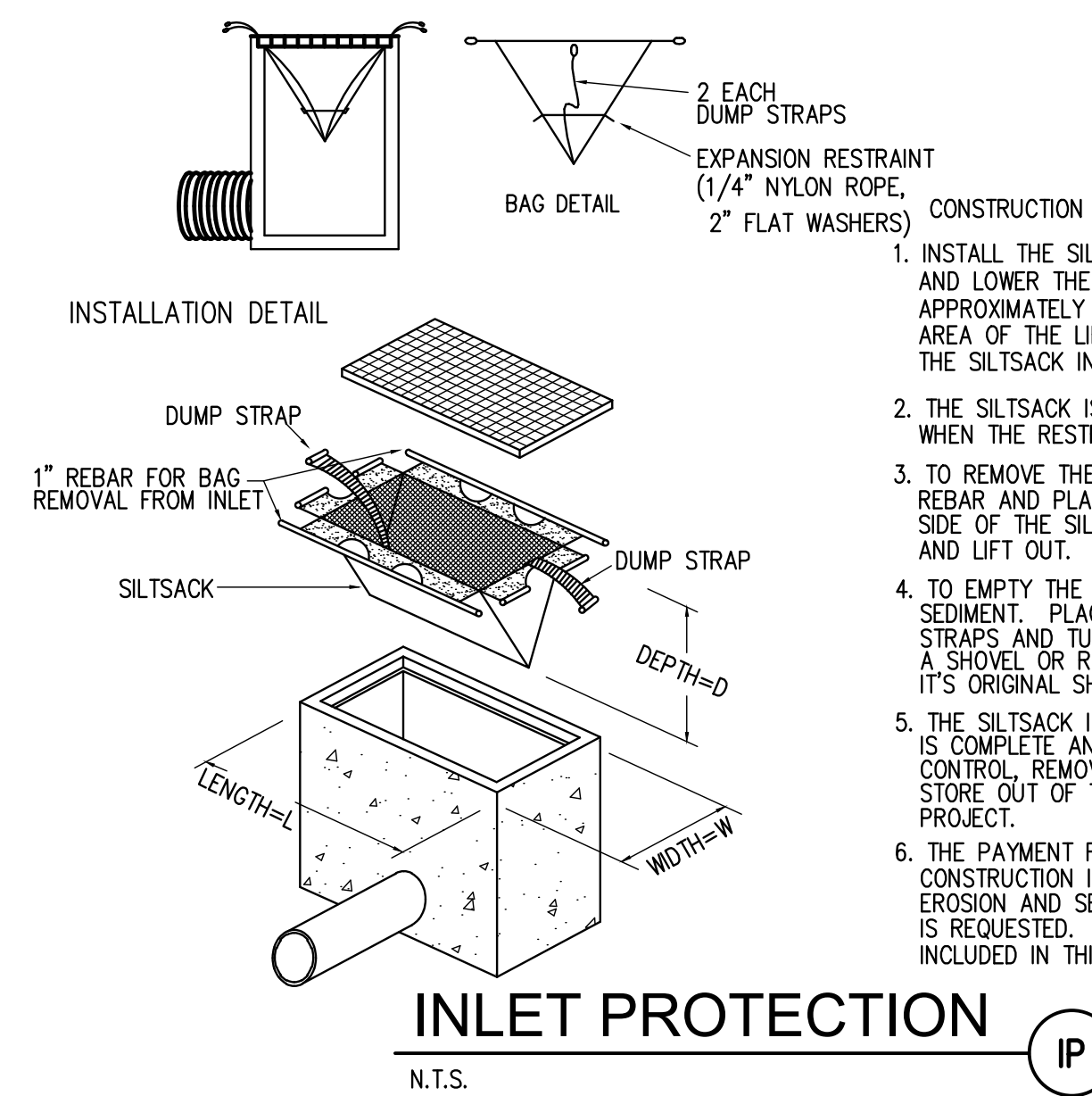
- Maintenance and Removal**
- Periodically top dress with additional stone or reworking existing stone to maintain abrasiveness.
 - Routinely remove mud from the aggregate surface. This may be accomplished with a street sweeper, broom attachment, or raking the stone.
 - Do NOT wash the entrance unless the wash water can be contained, collected, and treated before disposal.
 - Remove and properly dispose of all aggregate and geotextile at the end of use.



- NOTES:**
- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
 - CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
 - WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
 - WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 - ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
 - AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CONCRETE WASHOUT AREA

N.T.S.



INLET PROTECTION

N.T.S.

- CONSTRUCTION SEQUENCE**
- INSTALL THE SILTSACK IN A CATCH BASIN, REMOVE THE GRATE AND LOWER THE SILTSACK INTO THE OPENING. LEAVE APPROXIMATELY SIX INCHES ABOVE THE FRAME. THIS IS THE AREA OF THE LIFTING LOOPS. REPLACE THE GRATE TO HOLD THE SILTSACK IN PLACE.
 - THE SILTSACK IS CONSIDERED FULL AND SHOULD BE EMPTIED WHEN THE RESTRAINING STRAP IS NO LONGER VISIBLE.
 - TO REMOVE THE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON THE LONG SIDE OF THE SILTSACK. ATTACH LIFTING CABLES TO THE REBAR AND LIFT OUT.
 - TO EMPTY THE SILTSACK, PLACE IT WHERE YOU WANT THE SEDIMENT. PLACE THE LIFTING REBAR THROUGH THE DUMP STRAPS AND TURN THE SILTSACK INSIDE OUT. CLEANS WITH A SHOVEL OR RINSE THE FABRIC. RETURN THE SILTSACK TO ITS ORIGINAL SHAPE AND REINSTALL IN THE CATCH BASIN.
 - THE SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION PROJECT IS COMPLETE AND IT IS NO LONGER NEEDED FOR SEDIMENT CONTROL, REMOVE THE SILTSACK FROM THE CATCH BASIN AND STORE OUT OF THE SUNLIGHT UNTIL NEEDED ON THE NEXT PROJECT.
 - THE PAYMENT FOR ANY SILTSACK USED DURING THE CONSTRUCTION IS TO BE INCLUDED IN THE BID OF THE OVERALL EROSION AND SEDIMENT CONTROL PLAN UNLESS A UNIT PRICE IS REQUESTED. MAINTENANCE OF THE SILTSACK IS ALSO INCLUDED IN THIS PRICE.

SURVEY DISCLAIMER

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BASIS OF BEARINGS
THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

BENCHMARK
SUMMIT COUNTY CONTROL MONUMENT "HU 106 AT SOUTHEAST CORNER OF S.R. 91 AND PROSPECT STREET, 28 FEET EAST OF CENTERLINE OF S.R. 91 AND 51 FEET SOUTH OF CENTERLINE OF PROSPECT STREET.

ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

PRELIMINARY
NOT FOR
CONSTRUCTION

ISSUES AND REVISIONS
1 02-09-2026 PLANNING COMMISSION
2 04-15-2026 REVISED PER PLANNING COMMISSION

ARTS AND INNOVATION CENTER
BUILDING ADDITION TO KNIGHT FINE ARTS CENTER
FOR WESTERN RESERVE ACADEMY

130 N. OVIATT STREET
CITY OF HUDSON, SUMMIT COUNTY, OHIO 44236

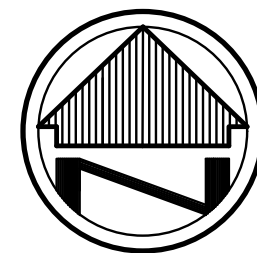
wohlwend
engineering
group
4216 KARG INDUSTRIAL PKWY
KENT, OH 44240
(330) 673-2400

02-09-2026

PROJECT NUMBER
20250062

SWPPP NOTES
AND DETAILS

C-603



SCALE: 1"=20'

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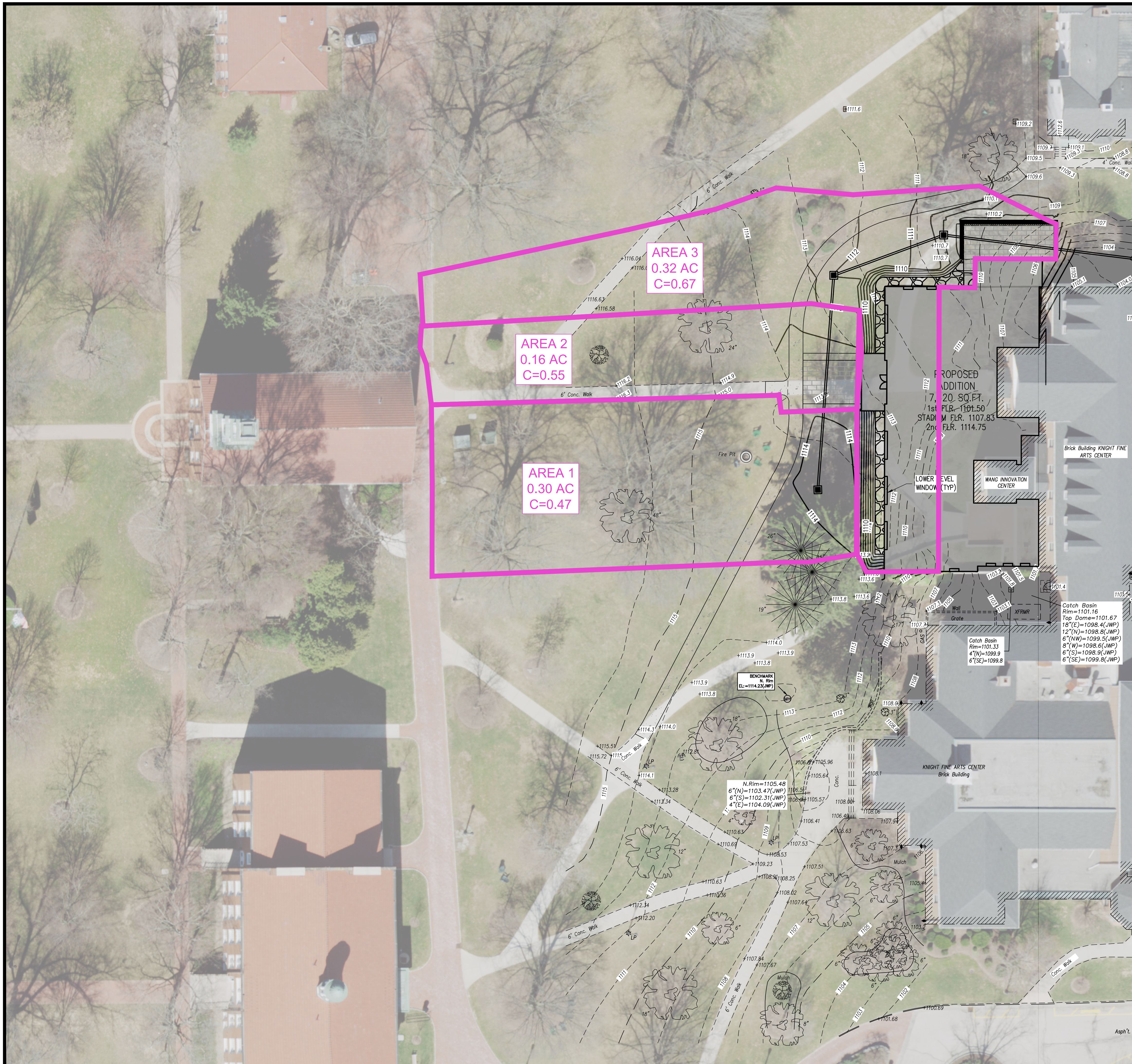
02-09-2026

PROJECT NUMBER

20250062

STORM SEWER
MAP

C-604



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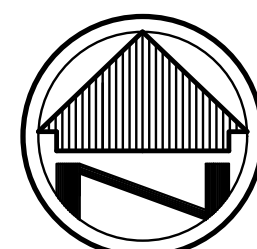
ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES

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OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)



SCALE: 1"=20'

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(330) 673-2400

02-09-2026

PROJECT NUMBER

20250062

EXISTING
DETENTION BASIN
IMPROVEMENTS

C-605

LEGEND

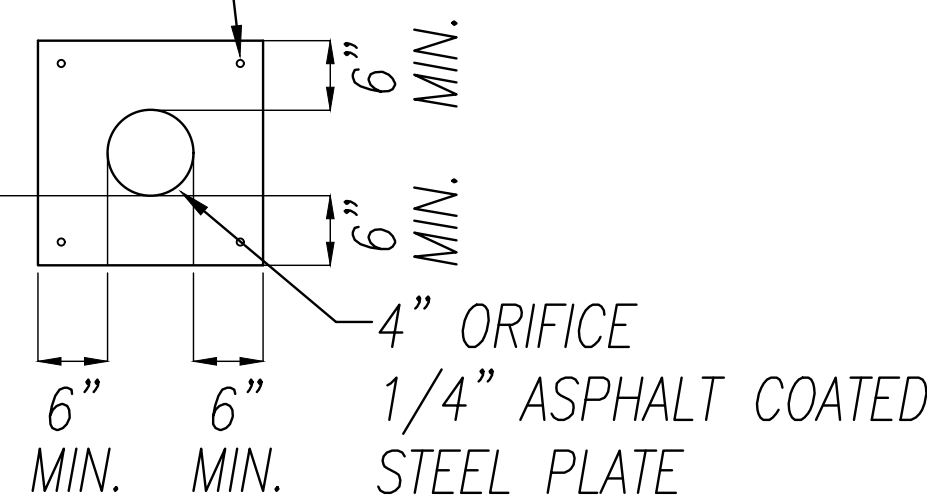
- 609--- EXISTING CONTOUR (MINOR)
- 610--- EXISTING CONTOUR (MAJOR)
- 609--- PROPOSED CONTOUR (MINOR)
- 610--- PROPOSED CONTOUR (MAJOR)

PROP. TOP/BACK OF CURB
 PROP. BOTTOM/FACE OF CURB
 PROP. ELEVATION

- ADD 1100 TO ALL SPOT ELEVATIONS SHOWN

4 1/2" STAINLESS STEEL
BOLTS W/ CONCRETE
ANCHORS TYP.

INV. 4" ORIFICE
1117.10

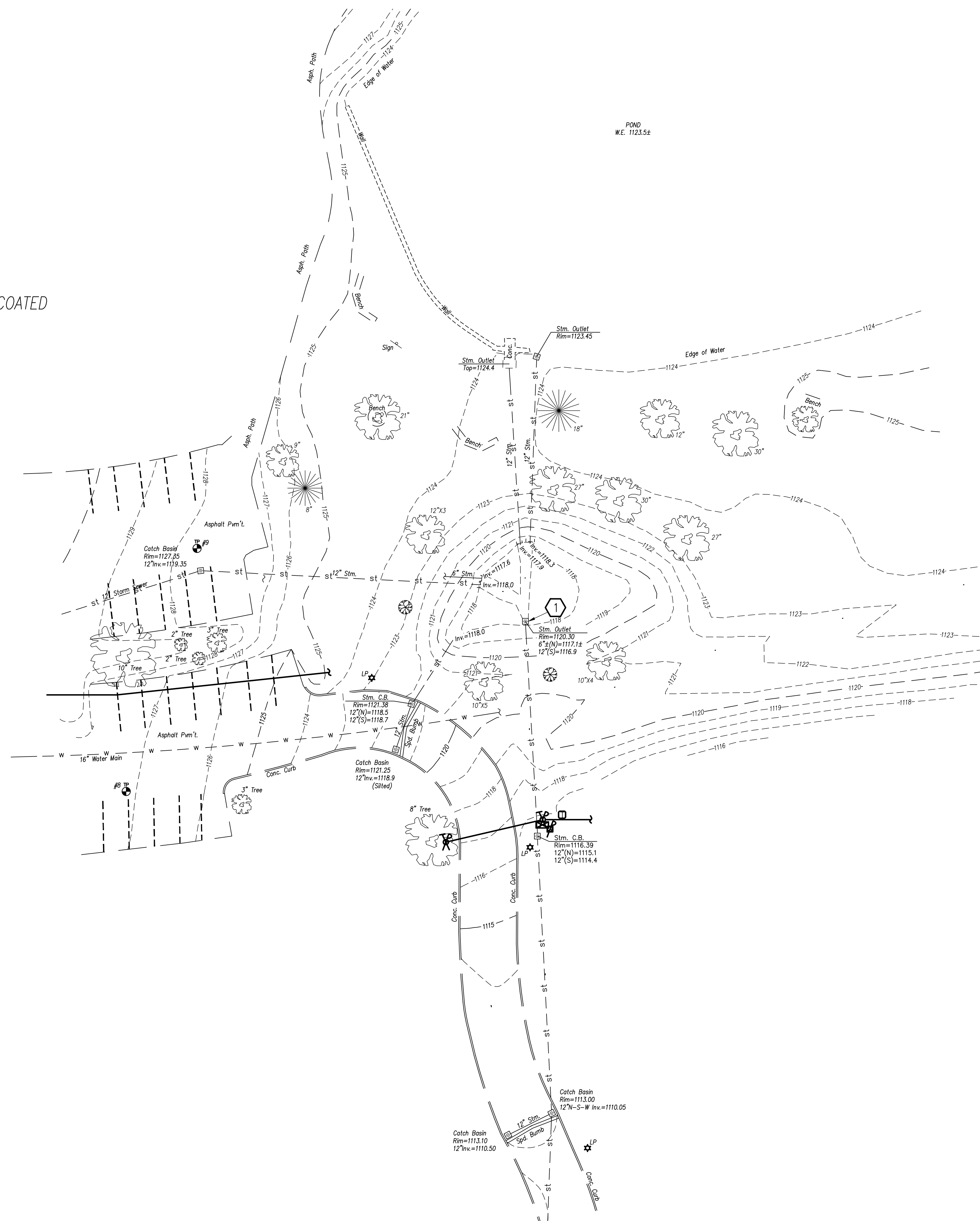


ORIFICE PLATE DETAIL

NOT TO SCALE

KEYED NOTES

- 1 - INSTALL PROPOSED 4" ORIFICE PLATE OVER EXISTING 6" ORIFICE ON EXISTING OUTLET STRUCTURE. ENSURE INVERT OF 4" ORIFICE MATCHES INVERT OF 6" ORIFICE.



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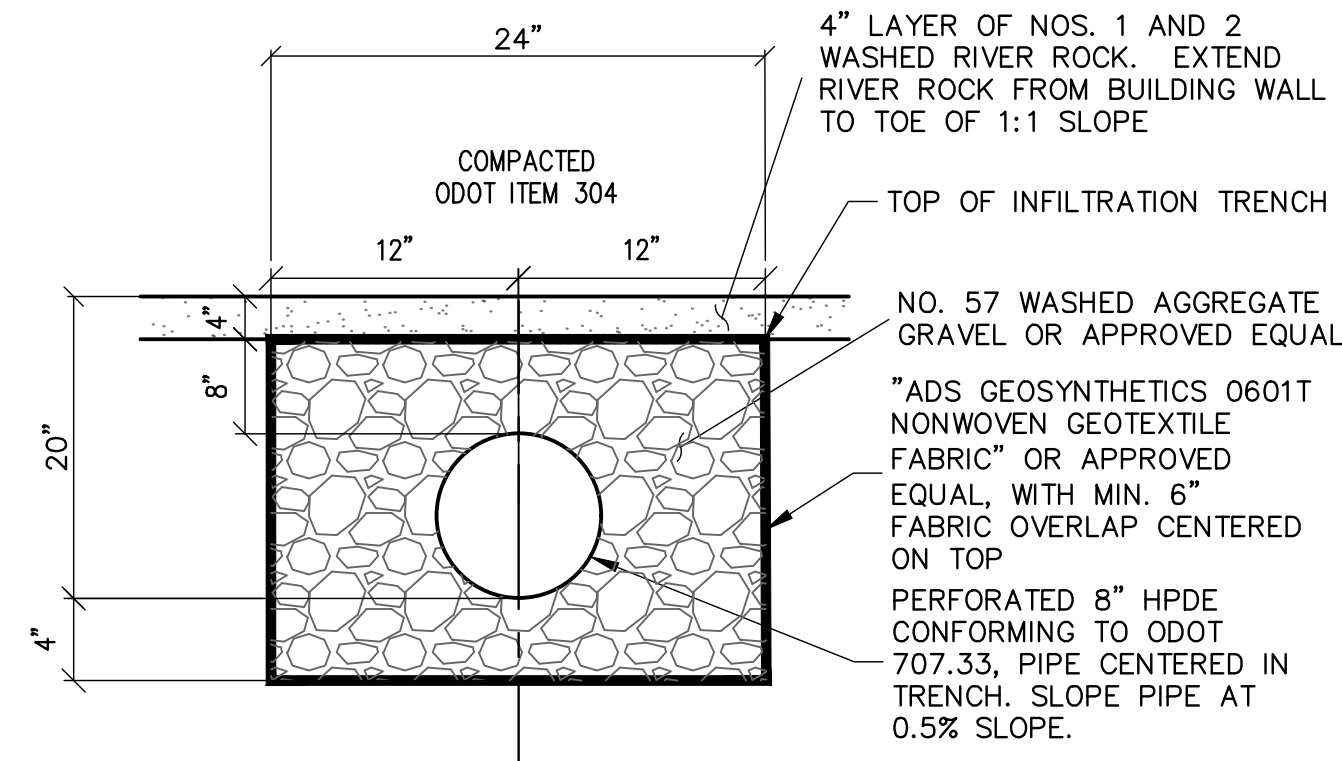
Contact Two Working Days
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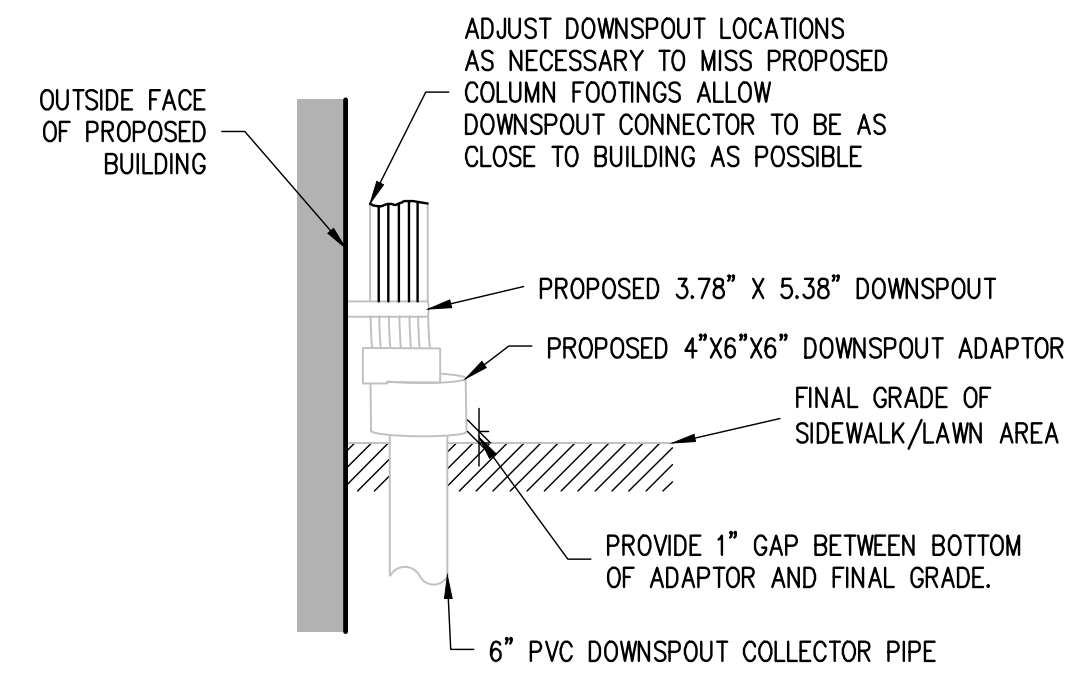
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GENERAL NOTES

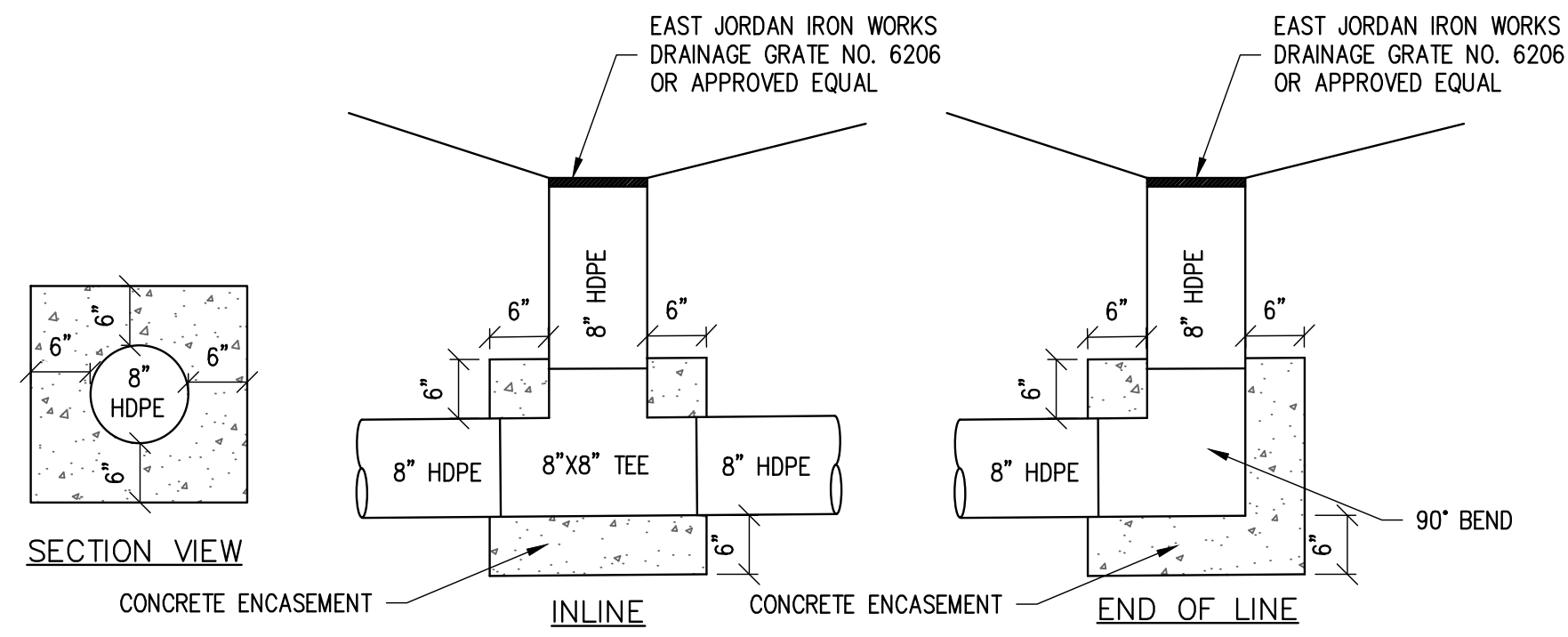
- LOCAL GOVERNMENT REQUIREMENTS TOGETHER WITH THE LATEST EDITION OF THE STATE OF OHIO, DEPT. OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED. IF THERE ARE ANY DISCREPANCIES, THE CITY REQUIREMENTS SHALL GOVERN. ALL FIELD TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (MATERIAL COMPOSITION, MATERIAL COMPACTION, CONCRETE TESTING, ETC.).
- ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PRIOR TO CONSTRUCTION.
- EXISTING UTILITIES SHOWN ARE FROM BEST AVAILABLE RECORDS AND FIELD INVESTIGATION, AND ARE NOT NECESSARILY COMPLETE OR EXACT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION, AND SHALL MAKE ADJUSTMENTS IN ELEVATIONS TO PROVIDE SUFFICIENT CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) THREE WORKING DAYS PRIOR TO WORK.
- ANY PROPERTY CORNER PINS OR PERMANENT SURVEY MARKINGS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO KEEP THE WORK AREA CLEAN OF DEBRIS, OR FAILS TO CLEAN MUD OR DIRT OFF OF STREETS, THE CITY MAY TAKE ACTION AND ASSESSE THE DEVELOPER FOR THE COSTS THAT ARE INCURRED.
- NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON STREETS; EXCEPTIONS MAY BE GRANTED WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA.
- ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN THE VICINITY OF EXISTING TREES TO REMAIN. TAKING ALL MEASURES POSSIBLE TO PROTECT AND PRESERVE THEM. THE CONTRACTOR SHALL BE GOVERNED BY THE PROVISIONS OF HIS CONTRACT WITH THE OWNER.
- ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ITS ORIGINAL CONDITION OR CONNECTED TO THE STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER.
- APPROVAL OF THESE PLANS IS CONTINGENT ON ALL EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE WORK BEING SECURED AND SUBMITTED TO THE CITY FOR RECORDING PRIOR TO COMMENCEMENT OF THE WORK, AND NO WORK WHICH REQUIRES AN EASEMENT WILL BE ALLOWED TO PROCEED UNTIL THIS HAS BEEN DONE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 7 CONSTRUCTION AND MAINTENANCE OPERATIONS, COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.
- STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT. CONES ARE NOT PERMITTED TO BE USED FOR NIGHT WORK.
- ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON WORKING HOURS.
- ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- ALL AREAS WITHIN THE PUBLIC RIGHT-OF-WAY THAT ARE DISTURBED BY THIS PROJECT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION, PER CMS ITEM 659 (SEEDING AND MULCHING) OR OTHER APPLICABLE SPECIFICATIONS.
- AT ALL UTILITY CROSSINGS WHERE THE EXISTING UTILITY IS EXPOSED IN THE TRENCH, THE BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH CMS ITEM 603 BETWEEN THE DEEPER AND SHALLOWER PIPE. WHERE PROPOSED UTILITIES OR SERVICES CROSS PROPOSED OR EXISTING PAVEMENT AREAS, BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH CMS ITEM 603 EXTENDING AT LEAST 3 FEET BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT. COST IS TO BE INCLUDED IN THE PRICE BID FOR RELATED PIPE.
- IN THE EVENT EXCAVATION FOR THE STREET IS FROM 0" TO 6" BELOW THAT CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL WITH ITEM 304 AGGREGATE, AND SHALL BE PAID FOR BY THE CONTRACTOR.
- CURB INLETS, MANHOLES, AND CATCH BASINS SHALL BE CHanneled AS DIRECTED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BARRICADE THE STREET IN THE VICINITY OF ALL EXPANSION JOINTS UNTIL SUCH TIME AS THE STREET IS OPEN TO TRAFFIC.
- WHERE NECESSARY TO DISTURB PAVEMENTS OR DRIVES, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES. THE DEPTH OF SAW CUT SHALL BE AT LEAST 2 INCHES.
- THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR CONSEQUENCES OF CONSTRUCTION THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE JOB SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAT EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- ALL SIGNS, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF SUCH WORK SHALL BE PAID FOR BY THE CONTRACTOR.
- PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY BEFORE COMMENCING CONSTRUCTION. WHEN OPEN-CUTTING OF EXISTING PAVEMENT IS PERMITTED, CONTROLLED DENSITY BACKFILL MAY BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL. ASPHALT SURFACES SHALL BE HEAT WELDED.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.
- ALL BENCHMARKS ARE BASED ON UNITED STATES GEOLOGICAL SURVEY (USGS) DATUM.
- CONTRACTOR AND OWNER SHALL ENSURE FIRE DEPARTMENT ACCESS AND WATER SUPPLY TO THE TEMPORARY AND PERMANENT FACILITIES AT ALL TIMES DURING CONSTRUCTION.



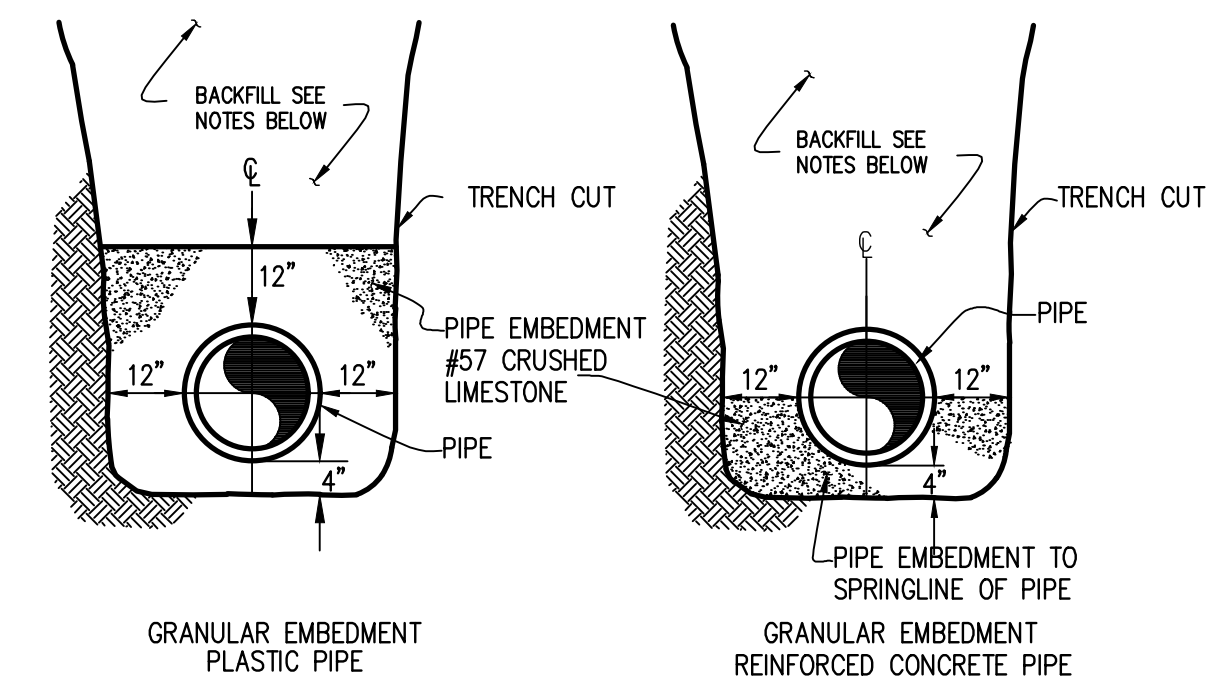
INFILTRATION TRENCH DETAIL
NOT TO SCALE



DOWNSPOUT CONNECTION DETAIL
NOT TO SCALE

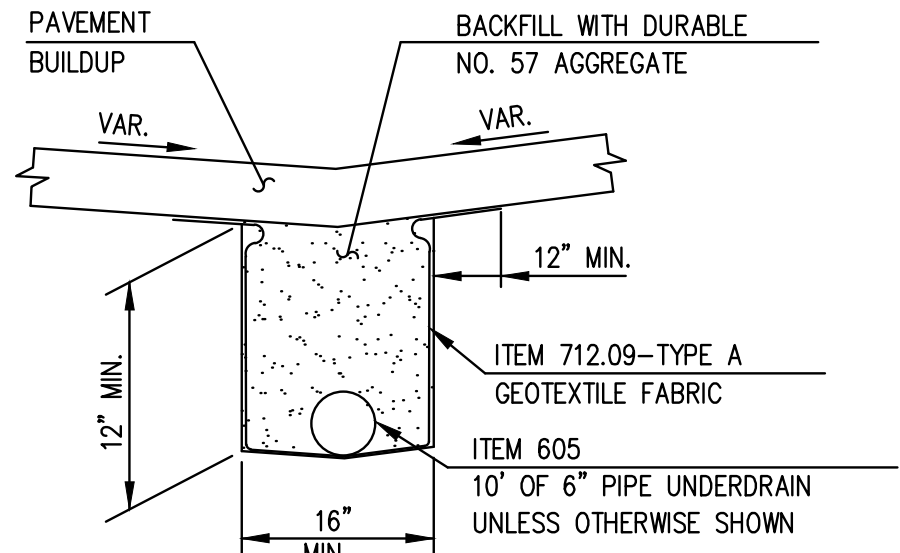


YARD INLET DETAILS
N.T.S.



- BACKFILL NOTES:**
- BACKFILL UNDER PAVEMENTS SHALL BE ODOT 304 AGGREGATE BASE UP TO THE TOP OF SUBGRADE.
 - BACKFILL UNDER NON-PAVEMENT AREAS SHALL CONFORM TO ODOT ITEM 203. MATERIAL EXCAVATED FROM TRENCHES MAY BE USED PROVIDED IT CONFORMED TO ODOT ITEM 203.

SEWER TRENCH DETAIL
NOT TO SCALE



CATCH BASIN FINGER DRAIN DETAIL
NOT TO SCALE

SURVEY DISCLAIMER

THE EXISTING SURVEY INFORMATION SHOWN ON THIS PLAN WAS PROVIDED BY APEX LAND SURVEYING. VERIFICATION OF EXISTING INFORMATION WAS NOT PERFORMED AS PART OF THIS PLAN. IF DISCREPANCIES ARE FOUND WITH THE EXISTING CONDITIONS VERSUS WHAT IS SHOWN ON THESE PLANS, CONTRACTOR SHOULD NOTIFY ENGINEER.

BASIS OF BEARINGS

THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

BENCHMARK

SUMMIT COUNTY CONTROL MONUMENT "HU 106 AT SOUTHEAST CORNER OF S.R. 91 AND PROSPECT STREET, 28 FEET EAST OF CENTERLINE OF S.R. 91 AND 51 FEET SOUTH OF CENTERLINE OF PROSPECT STREET.

ELEVATION = 1100.11 (NAVD88)

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

PRELIMINARY
NOT FOR
CONSTRUCTION

ISSUES AND REVISIONS	DATE	DESCRIPTION
1	02-09-2026	PLANNING COMMISSION
2	04-15-2026	REVISED PER PLANNING COMMISSION

ARTS AND INNOVATION CENTER
BUILDING ADDITION TO KNIGHT FINE ARTS CENTER
FOR WESTERN RESERVE ACADEMY
130 N. OVIATT STREET
CITY OF HUDSON, SUMMIT COUNTY, OHIO 44236



PROJECT NUMBER
20250062

CONSTRUCTION
NOTES AND DETAILS

C-700