

6:10 p.m. - Public Hearing - Rezoning Request



**CITY OF PERRYSBURG
CITY COUNCIL
AGENDA**

October 1, 2024

1. Call to Order - 6:30 PM
2. Roll Call
3. Pledge of Allegiance
4. Minutes of Council Meeting of September 17, 2024
5. Special Reports
6. Letters, Communications, and Citizens Communications
7. Administrative Reports
 - a. Mayor
 - b. City Administrator
 - c. Finance Director
 - d. Law Director
8. President of Council Report
9. Committee Reports
 - a. **Finance & Economic Development**
 - b. **Safety**
 - c. **Recreation**
 - d. **Planning & Zoning**

Ordinance# 63-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1220.01
"DISTRICTS ESTABLISHED"

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
A Vote is requested***

Ordinance# 64-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1220.07 "SPECIAL
DISTRICTS"

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
A Vote is requested***

Ordinance# 65-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1225.08 "LAND USE AND BASE ZONING DISTRICT TABLE"

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
A Vote is requested***

e. Personnel

Ordinance# 60-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §266.11-3 "LONGEVITY PAY" PREVIOUSLY ADOPTED THROUGH ORDINANCE 93-2003 ON JUNE 17, 2003

3rd Reading, vote requested

Ordinance# 61-2024

AN ORDINANCE ADDING CODIFIED ORDINANCE §266.06-5 "PERSONAL LEAVE TIME CONVERSION" TO THE CITY OF PERRYSBURG PERSONNEL CODE

3rd Reading, vote requested

f. Public Utilities

Resolution# 103-2024

A RESOLUTION DECLARING A 1998 FORD E250 CURRENTLY USED BY THE DEPARTMENT OF PUBLIC UTILITIES AS NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 104-2024

A RESOLUTION DECLARING A 2004 FORD E350 XL SUPER DUTY CURRENTLY USED BY THE DEPARTMENT OF PUBLIC UTILITIES AS NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 105-2024

A RESOLUTION AUTHORIZING A PURCHASE AGREEMENT WITH PETERBILT MOTORS COMPANY FOR THE PURCHASE OF A PETERBILT MODEL 567 TRUCK FOR THE DEPARTMENT OF PUBLIC UTILITIES IN AN AMOUNT NOT TO EXCEED TWO HUNDRED SIXTY THOUSAND DOLLARS AND ZERO CENTS (\$260,000.00); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 106-2024

A RESOLUTION AMENDING RESOLUTION 36-2020 AND AUTHORIZING A CHANGE ORDER TO THE AGREEMENT WITH PROUDFOOT AND ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO THE EAST RIVER ROAD WATER CONNECTION PROJECT; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

g. Service

Resolution# 107-2024

A RESOLUTION AUTHORIZING AN AGREEMENT WITH WEBER CONTRACTING IN AN AMOUNT NOT TO EXCEED NINE HUNDRED TWENTY-THREE THOUSAND SEVEN HUNDRED THIRTY-THREE DOLLARS AND TWENTY-FIVE CENTS (\$923,733.25) FOR CONSTRUCTION OF AN ELEVATED MULTI-USE TRAIL THROUGH ORLEANS PARK; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Ordinance# 66-2024

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (COVENTRY POINTE PLAT 3); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

10. Other Business

11. Adjournment

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ords 63-2024, 64-2024, 65-2024

DATE: September 26, 2024



Subject Matter/Background

The proposed Code Amendment to the chapters indicated above is to create a specialized zoning district referred to as Zone "X". Zone X is proposed to apply only to land owned and operated by the City of Perrysburg for necessary public infrastructure and service work that would otherwise be unable to satisfy the requirements of the zoning code and the existing zoning classifications. Zone X would essentially be an exemption to the zoning code and would not require variances from the Board of Zoning Appeals, nor Planning Commission review for site plans or special approval uses. It is anticipated that there should only be an extremely limited use of this zoning classification, with the first and perhaps only location being the existing Wastewater Treatment Plant (WWTP) facility.

Due to the complexity, scale, regulations, and tasks performed at the WWTP for the public benefit and for compliance with state and federal regulations, additional flexibility in zoning is necessary to accommodate current and future operations.

Financial Review

There is no financial impact to this legislation.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and vote on this legislation is requested.

ORDINANCE 63-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1220.01 “DISTRICTS ESTABLISHED”

WHEREAS, City of Perrysburg, Ohio, Codified Ordinance §1220.01 establishes zoning districts through the City of Perrysburg’s Codified Ordinances (“Code”); and,

WHEREAS, this Ordinance is being updated to allow for the introduction of an additional special district “X”; and,

WHEREAS, at their July 25, 2024 meeting, the Planning Commission recommended approval of the proposed Code amendment; and,

WHEREAS, a Public Hearing was held on September 3, 2024 and, at their September 24, 2024 meeting, the Planning and Zoning Committee considered this legislation and unanimously recommended advancement to City Council.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §1220.01 which currently reads as:

1220.01 DISTRICTS ESTABLISHED.

The City of Perrysburg is hereby divided into districts, which shall be known as: Agricultural Districts, Residential Districts, Commercial Districts, Office and Service District, Industrial Districts and Special Districts.

(a) Agricultural District

“A-1”Agricultural

(b) Residential Districts

Single Family Residential Suburban

“R-2” Single Family Residential Low Density

“R-3” Single Family Residential Medium Density

“R-4” Single Family Residential Moderate Density

“R-5” Two Family Residential

“RM” Multiple Family Residential

(c) Commercial Districts

“C-1”Neighborhood Commercial

“C-2”Central Business

“C-3”Community Shopping

“C-4”Highway Commercial

(d) Office and Service District

“OS” Office and Service

(e) Industrial Districts

“I-1” Light Industrial

“I-2” General Industrial

(f) Special Districts

“COD” Corridor Overlay District

“MUO” Municipal Utility Overlay

“PBP” Planned Business Park

“P” Parks

“UVO” Urban Village Overlay

“HIST” Historic District

“S-1” Scenic Open Space

(g) Institutional District

“INS” Institutional District

(Ord. 22-2006. Passed 3-7-06; Ord. 147-2007. Passed 10-2-07.)

is hereby amended and revised to read:

1220.01 DISTRICTS ESTABLISHED.

The City of Perrysburg is hereby divided into districts, which shall be known as: Agricultural Districts, Residential Districts, Commercial Districts, Office and Service District, Industrial Districts and Special Districts.

(a) Agricultural District

“A-1” Agricultural

(b) Residential Districts

Single Family Residential Suburban

“R-2” Single Family Residential Low Density

“R-3” Single Family Residential Medium Density

“R-4” Single Family Residential Moderate Density

“R-5” Two Family Residential

“RM” Multiple Family Residential

(c) Commercial Districts

“C-1” Neighborhood Commercial

“C-2” Central Business

“C-3” Community Shopping

“C-4” Highway Commercial

(d) Office and Service District

“OS” Office and Service

(e) Industrial Districts

“I-1” Light Industrial
“I-2” General Industrial

(f) Special Districts

“COD” Corridor Overlay District
“MUO” Municipal Utility Overlay
“PBP” Planned Business Park
“P” Parks
“UVO” Urban Village Overlay
“HIST” Historic District
“S-1” Scenic Open Space
“X” Exempt District

(g) Institutional District

“INS” Institutional District

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance shall be in full force and effect at the earliest time permitted by law.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

ORDINANCE 64-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1220.07 “SPECIAL DISTRICTS”

WHEREAS, City of Perrysburg, Ohio, Codified Ordinance §1220.07 establishes special districts through the City of Perrysburg’s Codified Ordinances (“Code”); and,

WHEREAS, this Ordinance is being updated to allow for the introduction of an additional special district “X”; and,

WHEREAS, at their July 25, 2024 meeting, the Planning Commission recommended approval of the proposed Code amendment; and,

WHEREAS, a Public Hearing was held on September 3, 2024 and, at their September 24, 2024 meeting, the Planning and Zoning Committee considered this legislation and unanimously recommended advancement to City Council.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §1220.07 which currently reads as:

1220.07 SPECIAL DISTRICTS.

Special districts accommodate a specific combination of compatible land uses which, when grouped together form a unique development. These districts promote creative and innovative design, allow mixed-uses and encourage density, pedestrian amenities and variation from typical dimensional requirements regulated through an Architectural Review Committee and protect sensitive natural features and open space.

- (a) COD, “Corridor Overlay” is to maintain the long-term mobility function of arterial and collector roadways; to limit access and the number of conflict points and thereby reduce the need for additional crossover locations and traffic signals; to promote improved pedestrian and vehicular circulation; to encourage land assembly and the most desirable use of land in accordance with the Comprehensive Plan; to promote architectural continuity; to encourage designs which produce a desirable relationship between individual buildings, the circulation systems and adjacent areas; to control signage, visibility obstructions and clutter and to permit a flexible response of development to the market as well as to provide incentives for the development of a variety of land uses and activities of high quality.

- (b) MUO, “Municipal Utility Overlay” is to regulate the planned expansion of municipal utilities (water and sanitary sewers) outside of the corporate limits of the City of Perrysburg.
- (c) PBP, “Planned Business Park” A compatible mix of commercial, industrial, office and institutional land uses in a business park-like setting. (Ord. 22-2006. Passed 3-7-06.)
- (d) P (Parks) serves to protect the natural amenities and to accommodate development that is compatible with those natural amenities in areas designated as public parks. These areas will comprise of a variety of functions including active outdoor recreational activities and functions, water-related facilities, natural areas, interpretive features and open space. (Ord. 147-2007. Passed 10-2-07.)
- (e) UVO, “Urban Village Overlay” is to allow for flexibility in zoning when the result will be the development of a compact urban village which exhibits unified architectural themes, pedestrian connectivity and walkability, mixed land uses and residential neighborhoods.
- (f) HIST, “Historic District” establishes procedures whereby certain areas, places, sites, buildings, structures, objects and works of art shall be allowed subject to the issuance of a “Certificate of Appropriateness” before any alterations, demolition or new construction can be undertaken. (Ord. 22-2006. Passed 3-7-06.)
- (g) S-1 (Scenic Open Space) serves to protect and preserve public or private areas with river frontage, woodlands and areas with natural scenic features, historic scenic grounds, vistas and byways, which should be retained in an open character protecting the natural amenities they possess. (Ord. 147-2007. Passed 10-2-07.)
- (h) Institutional District: The institutional district generally is intended to provide areas for public service and are operated by a Federal, State or local government, public or private utility, public or private school or college, tax-exempt organization, and/or a place of religious assembly. INS “Institutional”: Areas which are adaptable for institutional uses such as government buildings, police, fire and emergency services, post office, YMCA, schools, hospital, museum, churches, library, public and private essential services and utilities, cultural art facility, public cemetery and senior/youth centers. Special Approval Use is generally required in order to minimize any adverse impact that can result when such uses are located near residential neighborhoods. (Ord. 125-2011. Passed 6-21-11.)

is hereby amended and revised to read:

1220.07 SPECIAL DISTRICTS.

Special districts accommodate a specific combination of compatible land uses which, when grouped together form a unique development. These districts promote creative and innovative design, allow mixed-uses and encourage density, pedestrian amenities and variation from typical dimensional requirements regulated through an Architectural Review Committee and protect sensitive natural features and open space.

- (a) COD, "Corridor Overlay" is to maintain the long-term mobility function of arterial and collector roadways; to limit access and the number of conflict points and thereby reduce the need for additional crossover locations and traffic signals; to promote improved pedestrian and vehicular circulation; to encourage land assembly and the most desirable use of land in accordance with the Comprehensive Plan; to promote architectural continuity; to encourage designs which produce a desirable relationship between individual buildings, the circulation systems and adjacent areas; to control signage, visibility obstructions and clutter and to permit a flexible response of development to the market as well as to provide incentives for the development of a variety of land uses and activities of high quality.
- (b) MUO, "Municipal Utility Overlay" is to regulate the planned expansion of municipal utilities (water and sanitary sewers) outside of the corporate limits of the City of Perrysburg.
- (c) PBP, "Planned Business Park" A compatible mix of commercial, industrial, office and institutional land uses in a business park-like setting. (Ord. 22-2006. Passed 3-7-06.)
- (d) P (Parks) serves to protect the natural amenities and to accommodate development that is compatible with those natural amenities in areas designated as public parks. These areas will comprise of a variety of functions including active outdoor recreational activities and functions, water-related facilities, natural areas, interpretive features and open space. (Ord. 147-2007. Passed 10-2-07.)
- (e) UVO, "Urban Village Overlay" is to allow for flexibility in zoning when the result will be the development of a compact urban village which exhibits unified architectural themes, pedestrian connectivity and walkability, mixed land uses and residential neighborhoods.
- (f) HIST, "Historic District" establishes procedures whereby certain areas, places, sites, buildings, structures, objects and works of art shall be allowed subject to the issuance of a "Certificate of Appropriateness" before any alterations, demolition or new construction can be undertaken. (Ord. 22-2006. Passed 3-7-06.)

- (g) S-1 (Scenic Open Space) serves to protect and preserve public or private areas with river frontage, woodlands and areas with natural scenic features, historic scenic grounds, vistas and byways, which should be retained in an open character protecting the natural amenities they possess. (Ord. 147-2007. Passed 10-2-07.)
- (h) X (Exempt) serves to provide flexibility by exempting the unique and necessary utilitarian operations of local government from zoning requirements when the application of other traditional zoning districts would place undue hardship on the critical operations of the municipality and hinder the ability to serve the community with necessary and desired services. The requirements of this zoning code shall not apply to land zoned X - Exempt.
- (i) Institutional District: The institutional district generally is intended to provide areas for public service and are operated by a Federal, State or local government, public or private utility, public or private school or college, tax-exempt organization, and/or a place of religious assembly. INS "Institutional": Areas which are adaptable for institutional uses such as government buildings, police, fire and emergency services, post office, YMCA, schools, hospital, museum, churches, library, public and private essential services and utilities, cultural art facility, public cemetery and senior/youth centers. Special Approval Use is generally required in order to minimize any adverse impact that can result when such uses are located near residential neighborhoods. (Ord. 125-2011. Passed 6-21-11.)

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance shall be in full force and effect at the earliest time permitted by law.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

ORDINANCE 65-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §1225.08 “LAND USE AND BASE ZONING DISTRICT TABLE”

WHEREAS, City of Perrysburg, Ohio, Codified Ordinance §1220.08 establishes the land use and base zoning district tables through the City of Perrysburg’s Codified Ordinances (“Code”); and,

WHEREAS, this Ordinance is being updated to allow for the introduction of an additional special district “X”; and,

WHEREAS, at their July 25, 2024 meeting, the Planning Commission recommended approval of the proposed Code amendment; and,

WHEREAS, a Public Hearing was held on September 3, 2024 and, at their September 24, 2024 meeting, the Planning and Zoning Committee considered this legislation and unanimously recommended advancement to City Council.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §1220.08 which currently reads as:

1225.08 LAND USE AND BASE ZONING DISTRICT TABLE.

	Ag	Residential						Commercial				Office Service	Industrial		Special			Institutional INS
Agricultural	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PBP	P	S-1	
Farm Markets and Stands	P							S	S	S								
Kennels	P												S	S				
Plant Cultivation	P															P	P	P
Specialized Animal Raising	P																	
Chicken Keeping	P	P	P	P	P													

	Ag	Residential						Commercial				Office Service	Industrial		Special			Institutional INS
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Residential	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PBP	P	S-1	
One Family Dwelling	P	P	P	P	P	P	P		P									
Two-Family Dwelling						P	P		P									
Multiple Family Dwellings							P											
Apartments Above 1st Floor									P			S						
Bed & Breakfast		S	S	S	S	S			S									
Assisted Living Units							P											S
Mobile Homes (1235.04w)																		

	Ag	Residential						Commercial				Office Service	Industrial		Special			Institutional INS
Commercial	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PBP	P	S-1	
Agriculture, Construction, Semi-Truck Sales/Service	S												P	P				
Animal Services (outdoor)								S	S	S	P							
Animal Services (indoor)								P	P	P	P							
Automotive Oil & Lube Service Facilities										P	P				P			
Automotive Repair - General											S		P	P				
Automotive Repair - Light											P				P			
Automotive Sales or Lease for New and Used Vehicles- Outdoor											S		S	S	S			
Auto Wash											S				S			
Carry-Outs/Other Business, Alcoholic Beverages									S	S	S				S			
Commercial Recreational Facilities									S	S	P		P		P			
Commercial Schools									P	P	P	P			P			

	Ag	Residential						Commercial				Office Service	Industrial		Special			Institutional INS
Commercial	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PBP	P	S-1	
Commercial semi-truck sales/service													P	P				
Drive-in commercial uses											P	S			S			
Entertainment and spectator sport facilities									P	P	P				P	S		S
Grocery stores									P	P	P				P			
Gym/Fitness Facility (< 5,000 GSF)								P	P	P	P			S	S			
Gym/Fitness Facility (>5,000 GSF)										P	P			S	S			
Massage establishment									S					S	S			
Medical marijuana																		
Motels and hotels										P	P				P			
Neighborhood business less than 10,000 sq.ft.								P	P	P	P	S			P			
Office and Banks								P	P	P	P	P			P			
Personal services								P	P	P	P	S			P			
Printing									P	P	P	P	P	P	P			
Recreational vehicles/equipment outdoor sales													S	S				
Restaurant carry-out only									P	P	P				P			

	Ag	Residential						Commercial				Office Service	Industrial		Special			Institutional INS
Commercial	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PBP	P	S-1	
Restaurant drive-in										S	P				P			

Restaurant fast food								S	P	P				P			
Restaurant outdoor cafe								S	P2	S				P			
Restaurant full service								P	P	P		S		P			
Retail business: less than 60,000 GSF								P	P	P				P			
Retail business: more than 60,000 GSF									S	S				S			
Sale and storage of building materials	S									S		P	P	S			
Self-service storage										S		P	P	P			
Service station								S	S	P				P			
Sexually oriented business												S	S				
Shopping center									P	P							
Hospitality Facilities								S		S				P			
Rooming House		S	S	S	S	S	S	S									
Transient Habitation								S		S				P			
Repair Services, Consumer							P	P	P	P	P			P			
Nursery/green house	S ¹									P		P	P				

is hereby amended and revised to read:

1225.08 LAND USE AND BASE ZONING DISTRICT TABLE.

[illegible]

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Residential																			
One Family Dwelling	P	P	P	P	P	P	P		P										
Two-Family Dwelling						P	P		P										
Multiple Family Dwellings							P												
Apartments Above 1st Floor									P			S							
Bed & Breakfast		S	S	S	S	S			S										
Assisted Living Units							P												S
Mobile Homes (1235.04w)																			

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Commercial																			
Agriculture, Construction, Semi-Truck Sales/Service	S												P	P					
Animal Services (outdoor)								S	S	S	P								
Animal Services (indoor)								P	P	P	P								
Automotive Oil & Lube Service Facilities										P	P				P				
Automotive Repair - General											S		P	P					
Automotive Repair - Light											P				P				
Automotive Sales or Lease for New and Used Vehicles - Outdoors											S		S	S	S				
Auto Wash											S				S				
Carry-Outs/Other Business, Alcoholic Beverages									S	S	S				S				
Commercial Recreational Facilities									S	S	P		P		P				
Commercial Schools									P	P	P	P			P				

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Commercial																			
Commercial semi-truck sales/service													P	P					
Drive-in commercial uses											P	S			S				

Entertainment and spectator sport facilities									P	P	P				P	S			S
Grocery Stores									P	P	P				P				
Gym/Fitness Facility (<5,000 GSF)								P	P	P	P	P		S	S				
Gym/Fitness Facility (>5,000 GSF)										P	P			S	S				
Massage Establishment								S						S	S				
Medical Marijuana																			
Motels and hotels										P	P				P				
Neighborhood business less than 10,000 SF								P	P	P	P	S			P				
Office and Banks								P	P	P	P	P			P				
Personal Services								P	P	P	P	S			P				
Printing									P	P	P	P	P	P	P				
Recreational vehicles/equipment outdoor sales													S	S					
Restaurant carry-out only									P	P	P				P				

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB	P	S-1	X	INS
Commercial																			
Restaurant drive-in										S	P				P				
Restaurant fast food									S	P	P				P				
Restaurant outdoor café									S	P2	S				P				
Restaurant full service									P	P	P		S		P				
Retail business: less than 60,000 GSF									P	P	P				P				
Retail business: more than 60,000 GSF										S	S				S				
Sale and storage of building materials	S										S		P	P	S				
Self-service storage											S		P	P	P				
Service station									S	S	P				P				
Sexually oriented business													S	S					
Shopping center										P	P								
Hospitality Facilities									S		S				P				
Rooming House		S	S	S	S	S	S		S										
Transient Habitation									S		S				P				
Repair Services, Consumer								P	P	P	P	P			P				
Nursery/green house	S1										P		P	P					

- 1 Excluding retail sales of any type on premises.
- 2 With the exception of those commercial centers zoned C-3 that are adjacent to residential properties. In those situations, Chapter 1235 - Special Approval use, specifically, Chapter 1235.04(mm) shall apply.
- 3 Only within an Urban Village Overlay District (UVO).

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Office								S	P	P	P	P			P				S
Medical Offices												P			P				S
Medical Urgent Care Facilities											P		P	P	P				S

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Institutional												P			P	P	S		INS
Accessory	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		P	P
Cemetery	S	S	S	S													S		S
Child Day Care Centers		S	S	S	S	S	S	S	S	S	S	S	S		S				S
Club, Lodges, Fraternal and Civic Assembly										P	P				P				S
College and Universities																			S
Convalescent and Nursing Homes							S												S
Essential Services	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		S	P	P
Hospital															P				S
Institutional Use													S	S	P			P	S
Mortuaries/Funeral Homes								S	S	S	S				P				
Non-Commercial Recreation Facilities	S	S	S	S	S	S	S						S	S	S	S		P	
Parks and Recreation Facilities	S	S	S	S	S	S	S	S	S			S			S	S		P	
Part-Time Child Day Care Centers		S	S	S	S	S	S	S	S	S	S	S	S		P				S
Postal Service															P				S
Public and Private Schools								S		S	S								S
Public Service Facility	S	S	S	S	S	S	S	S	S	S	P		P	P	P			P	S
Public/Private Utility	S	S	S	S	S	S	S	P	P	P	P	P	P	P	P			P	S
Wireless Telecommunication Facility	S										S		S	S	S			S	S

	Ag	Residential						Commercial				Office Service	Industrial		Special				Institutional
	A-1	R-1	R-2	R-3	R-4	R-5	RM	C-1	C-2	C-3	C-4	OS	I-1	I-2	PB P	P	S-1	X	INS
Industrial																			
Auto & Metal Salvage, Junk Yards														S					
Excavation of Sand, Gravel, Clay, Stone and Topsoil	S													S					
Food Processing													P	P	P				
Laboratories													P	P	S			P	
Manufacturing, Sale/Storage Building Materials													P	P					
Manufacturing: General														P					
Manufacturing: Light													P	P	P				
Oil & Gas Wells													S	S					S
Outside Storage	S												S	S	**			P	S
Publishing													P	P	P				
Research & Testing													P	P	P			P	
Transport & Trucking													S	S				P	
Warehousing													P	P	P			P	
Wholesale Business											P		P	P	P				
Wind Generator (Turbine)	S	S4											S	S					S

4 Minimum lot size is 30,000 square feet.

** Outside storage is prohibited, unless specifically permitted and maintained in accordance with the established ARC Site Development Standards.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance shall be in full force and effect at the earliest time permitted by law.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ord 60-2024

DATE: August 29, 2024



Subject Matter/Background

City of Perrysburg, Ohio, Codified Ordinance §266.11-3 establishes “Longevity Pay” through the City of Perrysburg’s Codified Ordinances (“Code”) titled “Personnel Policy.” The City of Perrysburg has determined it is appropriate to update §266.11-3 in order to provide uniformity to the longevity pay calculation throughout the City.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

First Reading – 9/3/2024

Second Reading – 9/17/2024

Third Reading and Vote – 10/1/2024

ORDINANCE 60-2024

AN ORDINANCE AMENDING CODIFIED ORDINANCE §266.11-3 “LONGEVITY PAY” PREVIOUSLY ADOPTED THROUGH ORDINANCE 93-2003 ON JUNE 17, 2003

WHEREAS, City of Perrysburg, Ohio, Codified Ordinance §266.11-3 establishes “Longevity Pay” through the City of Perrysburg’s Codified Ordinances (“Code”) titled “Personnel Policy”; and,

WHEREAS, this Ordinance is being updated to help clarify this portion of the Code; and,

WHEREAS, the Personnel Committee considered this legislation at its meeting on August 27, 2024 and unanimously recommended advancement to City Council.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §266.11-3 which currently reads as:

266.11-3 LONGEVITY PAY.

Each full time staff member covered by this Personnel Policy of the City shall receive longevity pay equal to fifty-five dollars (\$55.00) for each year, or part thereof, of service to be paid with the first pay in July. Longevity pay contemplated by this section shall be paid the nearest pay day on or after July first of each year. Eligibility and years of service will be determined as of January first of each year. Provided, however,

A. No such longevity pay shall accrue to a staff member below the Senior Administrative staff level until such person has completed twelve (12) years of continuous service with the City.

B. No such longevity pay shall accrue to a Senior Administrative staff member until such person has completed ten (10) years of continuous service with the City.

C. No such longevity pay shall accrue to an Executive Staff Member or Human Resources Manager until such person has completed four (4) years of continuous service with the City.

(Ord. 177-2006. Passed 8-1-06.)

is hereby amended and revised to read:

266.11-3 LONGEVITY PAY

Each full-time permanent non-bargaining unit employee shall receive longevity pay equal to fifty-five dollars (\$55.00) for each year of service **after completing four (4) full**

years of continuous service with the City. Eligibility and full years of service will be determined as of January 1 of each year and will be paid with the first pay period of July.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance shall be in full force and effect at the earliest time permitted by law.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ord 61-2024

DATE: August 29, 2024



Subject Matter/Background

The City is making a concerted effort to review the Perrysburg Codified Ordinances and provide updates and additions in order to ensure clarity within the Code.

In an expand and clarify the language regarding use of leave, the City is adding Ordinance §266.06-5 establishing “Personal Leave Time Conversion” to the City of Perrysburg’s Codified Ordinances (“Code”) titled “Personnel Policy.”

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

First Reading – 9/3/2024

Second Reading – 9/17/2024

Third Reading and Vote – 10/1/2024

ORDINANCE 61-2024

AN ORDINANCE ADDING CODIFIED ORDINANCE §266.06-5 “PERSONAL LEAVE TIME CONVERSION” TO THE CITY OF PERRYSBURG PERSONNEL CODE

WHEREAS, the City is reviewing and amending certain portions of the City of Perrysburg’s Codified Ordinances (“Code”); and,

WHEREAS, in an effort to expand and clarify the language regarding use of leave, the City is adding Ordinance §266.06-5 establishing “Personal Leave Time Conversion” to the City of Perrysburg’s Codified Ordinances (“Code”) titled “Personnel Policy”; and,

WHEREAS, the Personnel Committee considered this legislation at its meeting on August 27, 2024 and unanimously recommended advancement to City Council.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §266.06-5 shall read:

266.06-5 PERSONAL LEAVE TIME CONVERSION

Full time non-bargaining unit employees may convert up to twenty-four (24) hours of sick time to personal leave time each calendar year, provided that the conversion will not drop their sick time bank below two-hundred forty (240) hours.

The conversion must be made between January 1 and January 15 of each year. An employee may only have a maximum of twenty-four (24) hours in their personal leave time bank at any given time. The employee may only use twenty-four (24) hours of personal leave time in a calendar year and personal leave time must be taken in amounts of four (4) hours or more.

Any unused personal leave time will carry over to the next calendar year; however, at no point shall an employee’s personal leave time bank exceed twenty-four (24) hours. Unused personal leave time shall not be paid out when leaving employment with the City.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance shall be in full force and effect at the earliest time permitted by law.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolutions 103-2024 and 104-2024

DATE: September 26, 2024



Subject Matter/Background

Article III, Section III – 10.0 of the Perrysburg City Charter provides the City Council with the power to determine the method, manner, consideration and procedure for the purchase of property on behalf of the Municipality and the sale or disposal thereof.

The Department of Public Utilities is no longer in need of a 2004 Ford E350 XL Super Duty vehicle, VIN: 1FBSS31L64HA68103 and a 1998 Ford E250 vehicle, VIN: 1FTNE2YLOWHB8876, the values of which have been determined to be over One Thousand Dollars.

In accordance with Ohio Revised Code §721.15 it is necessary to legislatively authorize the disposal of property valued at over One Thousand Dollars only after determining the property is no longer needed or unfit for municipal purposes; and,

This Resolution authorizes the Mayor and Director of Finance to arrange for the sale of the 2004 Ford E350 XL Super Duty vehicle, VIN: 1FBSS31L64HA68103 and the 1998 Ford E250 vehicle, VIN: 1FTNE2YLOWHB8876, currently used by the Department of Public Utilities, by public auction as such vehicles are no longer needed for municipal purposes.

Financial Review

There is no financial impact to the City.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate. An Emergency is requested as these vehicles should be auctioned off as soon as possible.

RESOLUTION 103-2024

A RESOLUTION DECLARING A 1998 FORD E250 CURRENTLY USED BY THE DEPARTMENT OF PUBLIC UTILITIES AS NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY

WHEREAS, Article III, Section III – 10.0 of the Perrysburg City Charter provides the City Council with the power to determine the method, manner, consideration and procedure for the purchase of property on behalf of the Municipality and the sale or disposal thereof; and,

WHEREAS, the Department of Public Utilities is no longer in need of a 1998 Ford E250 vehicle, VIN: 1FTNE2YLOWHB8876, the value of which has been determined to be over One Thousand Dollars; and,

WHEREAS, in accordance with Ohio Revised Code §721.15 it is necessary to legislatively authorize the disposal of property valued at over One Thousand Dollars only after determining the property is no longer needed or unfit for municipal purposes; and,

WHEREAS, this legislation went before the Public Utilities Committee on September 25, 2024 and was unanimously approved for advancement to City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to arrange for the sale of the 1998 Ford E250 vehicle, VIN: 1FTNE2YLOWHB8876, currently used by the Department of Public Utilities, by public auction as such vehicle is no longer needed for municipal purposes.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, as this vehicle should be auctioned off as soon as possible, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

City of Perrysburg - Declaration of Surplus Property Form

To: Mayor and Director of Finance

From: AJ Coleman

Date: 09/17/2024

Please mark one:

☒ I have determined the following described City property, which was purchased through the Water Fund is of no further use to the City and may be disposed of in accordance with Administrative Policy No. 34.

OR

☐ I have determined the following described City property, which came into the possession of the Perrysburg Police Division as found or unclaimed property is of no use to the City and may be disposed of in accordance with Administrative Policy No. 34.

DESCRIPTION OF PROPERTY

Current Estimated Value of Item (please choose one):

☐ \$0-\$999

☒ \$1,000 or more

NOTE: If the item is valued at \$1,000 or more, it must be authorized by an ordinance of City Council.

Description of property (non-vehicle):

Description of property (vehicle)

Kelly Blue Book Value \$ 2,641

(Attach KBB Printout)

Year: 1998

Make: Ford

Model: Econoline 250

Vehicle #: 271

Color: Blue

VIN: 1FTNE2YLOWHB8876

Mileage: 145964

I recommend the following method of disposition (please check one of four options):

☒ Sell → **Employee Name - Point of Contact for Auction Listing:** _____

☐ Destroy ☐ Scrap ☐ Other _____

Approved: _____

Mayor

Date

Director of Finance

Date

Advertisement

My Car's Value

1998 Ford Econoline E250 Cargo van



4.4 ★ (324 Ratings) [Write a review](#)

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Options Next Steps

1 Your Options

Private Party Instant Cash Offer Trade-in Donate Your Car

♥ Save this car



Advertisement

Private Party Range
\$1,612 - \$3,669
Private Party Value
\$2,641



[i](#) Important info
& definitions

Value valid as of **09/17/2024**

Factors That Impact Value

Check that yours are correct below.

Mileage: **145,964** [✎](#) ZIP Code: **43551** [📍](#)

Condition
Good [▼](#)

[Edit Options](#)

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Verified buyers and sellers

Verified buyers get a clean title every time. Verified sellers get secure payment.

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 **Kelley Blue Book**

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RESOLUTION 104-2024

A RESOLUTION DECLARING A 2004 FORD E350 XL SUPER DUTY CURRENTLY USED BY THE DEPARTMENT OF PUBLIC UTILITIES AS NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY

WHEREAS, Article III, Section III – 10.0 of the Perrysburg City Charter provides the City Council with the power to determine the method, manner, consideration and procedure for the purchase of property on behalf of the Municipality and the sale or disposal thereof; and,

WHEREAS, the Department of Public Utilities is no longer in need of a 2004 Ford E350 XL Super Duty vehicle, VIN: 1FBSS31L64HA68103, the value of which has been determined to be over One Thousand Dollars; and,

WHEREAS, in accordance with Ohio Revised Code §721.15 it is necessary to legislatively authorize the disposal of property valued at over One Thousand Dollars only after determining the property is no longer needed or unfit for municipal purposes; and,

WHEREAS, this legislation went before the Public Utilities Committee on September 25, 2024 and was unanimously approved for advancement to City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to arrange for the sale of the 2004 Ford E350 XL Super Duty vehicle, VIN: 1FBSS31L64HA68103, currently used by the Department of Public Utilities, by public auction as such vehicle is no longer needed for municipal purposes.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, as this vehicle should be auctioned off as soon as possible, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

City of Perrysburg - Declaration of Surplus Property Form

To: Mayor and Director of Finance

From: AJ Coleman

Date: 09/17/2024

Please mark one:

☒ I have determined the following described City property, which was purchased through the Sewer Fund is of no further use to the City and may be disposed of in accordance with Administrative Policy No. 34.

OR

☐ I have determined the following described City property, which came into the possession of the Perrysburg Police Division as found or unclaimed property is of no use to the City and may be disposed of in accordance with Administrative Policy No. 34.

DESCRIPTION OF PROPERTY

Current Estimated Value of Item (please choose one):

☐ \$0-\$999

☒ \$1,000 or more

NOTE: If the item is valued at \$1,000 or more, it must be authorized by an ordinance of City Council.

Description of property (non-vehicle):

Description of property (vehicle)

Kelly Blue Book Value \$ 3,397

(Attach KBB Printout)

Year: 2004

Make: Ford

Model: E-350 XL Super Duty

Vehicle #: 274

Color: Blue

VIN: 1FBSS31L64HA68103

Mileage: 164539

I recommend the following method of disposition (please check one of four options):

☒ Sell → **Employee Name - Point of Contact for Auction Listing:** _____

☐ Destroy ☐ Scrap ☐ Other _____

Approved: _____

Mayor

Date

Director of Finance

Date



Advertisement

My Car's Value

2004 Ford E350 Super Duty Cargo Commercial Van 3D

4.4 ★ (324 Ratings) [Write a review](#)

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Recalls: **2 Recalls Found**
[Is my car affected?](#)

→

Repair Estimator: **See Pricing**
[What's a fair price?](#)

→

Options

Next Steps

1

Your Options

Private Party Instant Cash Offer Trade-in Donate Your Car

Save this car



Private Party Range
\$2,376 - \$4,417
Private Party Value
\$3,397



[i](#) Important info
& definitions

Value valid as of **09/17/2024**

Factors That Impact Value

Check that yours are correct below.

Mileage: **164,539** ZIP Code: **43551**

Condition
Good

[Edit Options](#)

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Kelley Blue Book

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Res 105-2024

DATE: September 26, 2024



Subject Matter/Background

The Department of Public Utilities is requesting the purchase of a Peterbilt Model 567 Truck for disposal of biowaste. This purchase will help reduce the costs associated with trucking and disposal of primary sludge.

The truck is under Sourcewell Contract at a cost of \$260,000.00

Financial Review

Account#: 5402-61815-55600

Legal Review

These resolutions have been reviewed and are appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the three readings, waive the rules, and authorize this Resolutions as an Emergency is appropriate. An Emergency is recommended to ensure the timely purchase and availability of the vehicle.

RESOLUTION 105-2024

**A RESOLUTION AUTHORIZING A PURCHASE AGREEMENT
WITH PETERBILT MOTORS COMPANY FOR THE PURCHASE OF
A PETERBILT MODEL 567 TRUCK FOR THE DEPARTMENT OF
PUBLIC UTILITIES IN AN AMOUNT NOT TO EXCEED TWO
HUNDRED SIXTY THOUSAND DOLLARS AND ZERO CENTS
(\$260,000.00); AND DECLARING AN EMERGENCY**

WHEREAS, the Department of Public Utilities is in need of a dump truck to handle the disposal of biowaste; and,

WHEREAS, the City is a member of Sourcewell, a national cooperative group for purchasing contracts; and,

WHEREAS, Sourcewell offers a cooperative purchasing relationship consistent with Ohio law, including O.R.C. § 9.48; and,

WHEREAS, under the Sourcewell Contract #032824-PMC, the quote for a Peterbilt Model 567 Truck is Two Hundred Sixty Thousand Dollars and Zero Cents (\$260,000.00); and,

WHEREAS, the Public Utilities Committee of City Council considered this request at their September 25, 2024 meeting and unanimously recommended this legislation be forwarded to City Council.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY
OF PERRYSBURG, WOOD COUNTY, OHIO:**

SECTION 1. The Mayor and Director of Finance are authorized to enter into a purchase agreement with Peterbilt Motors Company for a Peterbilt Model 567 Truck at a cost not to exceed Two Hundred Sixty Thousand Dollars and Zero Cents (\$260,000.00), in accordance with the proposal attached hereto as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, to ensure timely purchase and

delivery, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

SOURCEWELL PETERBILT DEALER QUOTE/INVOICE TEMPLATE 2024				
REVISION				
PETERBILT MOTORS COMPANY SOURCEWELL CONTRACT # 032824				
*DEALER TO FILL IN ALL GREY CELLS				
Ohio Peterbilt		City Of Perrysburg WateWaterTreatmentPlant		
		INSERT CUSTOMER SOURCEWELL MEMBERSHIP NUMBER		
PETERBILT MODEL		567	CHASSIS #	740270
CAB & CHASSIS LIST PRICE		\$327,179	PETERBILT MODEL	SOURCEWELL DISCOUNT
SOURCEWELL DISCOUNT %		25.00%	220/220EV	5.00%
SOURCEWELL DISCOUNT \$		\$81,795	MEDIUM-DUTY 535 - 536 - 537 - 548	15.00%
SOURCEWELL CAB & CHASSIS PRICE		\$245,384		
TOTAL PRICE FOR ALL SOURCED GOODS/SERVICES and APPLICABLE TAXES, FET, FLOORING, ETC.		-\$25,884	HEAVY-DUTY 520 - 520EV - 567 - 579 - 579EV - 589	25.00%
BODY PRICE (IF APPLICABLE)		\$40,500		
TOTAL PRICE FOR CAB & CHASSIS AND ALL SOURCED GOODS/SERVICES AND APPLICABLE TAXES AND FLOORING		\$260,000		
Additional Discount -25,884.00				

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Res 106-2024

DATE: September 26, 2024



Subject Matter/Background

On July 28, 2020, the City of Perrysburg, Ohio passed Resolution 36-2020 authorizing the Mayor and Director of Finance to enter into an agreement with Proudfoot and Associates, Inc. for the provision of engineering services to prepare plans, specifications, cost estimates the bid package and approximately twenty easements for the East River Road Water Connection Project in an amount not to exceed One Hundred Forty-Four Thousand Eight Hundred Thirty-Five Dollars and Zero Cents (\$144,835.00).

Over the course of the Agreement, additional engineering services were deemed necessary by the City and the City has a need to update the Agreement with Proudfoot and Associates, Inc. to allow for the completion and payment for said additional services. The additional services have a total cost of Ten Thousand Two Hundred Twenty-Four Dollars and Zero Cents (\$10,224.00).

Through this Resolution, City Council authorizes this amendment to the original resolution authorizing the Mayor and Director of Finance to execute an Amended Agreement with Proudfoot and Associates, Inc. to allow for the completion of the additional services and additional payment not to exceed \$10,224.00.

Financial Review

Account: 5401-61814-55999

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this Resolution as an emergency is recommended, in order to allow for timely completion of and payment for services.

RESOLUTION 106-2024

A RESOLUTION AMENDING RESOLUTION 36-2020 AND AUTHORIZING A CHANGE ORDER TO THE AGREEMENT WITH PROUDFOOT AND ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO THE EAST RIVER ROAD WATER CONNECTION PROJECT; AND DECLARING AN EMERGENCY

WHEREAS, on July 28, 2020, the City of Perrysburg, Ohio passed Resolution 36-2020 authorizing the Mayor and Director of Finance to enter into an agreement with Proudfoot and Associates, Inc. for the provision of engineering services to prepare plans, specifications, cost estimates the bid package and approximately twenty easements for the East River Road Water Connection Project in an amount not to exceed One Hundred Forty-Four Thousand Eight Hundred Thirty-Five Dollars and Zero Cents (\$144,835.00); and,

WHEREAS, over the course of the Agreement, additional engineering services were deemed necessary by the City and the City has a need to update the Agreement with Proudfoot and Associates, Inc. to allow for the completion and payment for said additional services; and,

WHEREAS, the additional services have a total cost of Ten Thousand Two Hundred Twenty-Four Dollars and Twelve Cents (\$10,224.12); and

WHEREAS, at its September 25, 2024 meeting the Public Utilities Committee unanimously recommended approval of the agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. City Council authorizes this amendment to the original resolution authorizing the Mayor and Director of Finance to execute an Amended Agreement with Proudfoot and Associates, Inc. to allow for the completion of the additional services and additional payment for said services, not to exceed Ten Thousand Two Hundred Twenty-Four Dollars and Twelve Cents (\$10,224.12), in accordance with the document attached hereto as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public

in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to allow for timely completion of and payment for services, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PROUDFOOT



— ASSOCIATES, INC. —
CONSULTING ENGINEERS

December 13, 2021

Ms. Alice Godsey, P.E.
Director of Public Utilities
City of Perrysburg
201 West Indiana Ave.
Perrysburg, Ohio 43551

**RE: East River Road Water Connection
Request for Additional Compensation**

Dear Ms. Godsey,

We have recently completed the final construction plans for the project and Toledo has signed off. We now have to file the Ohio EPA Permit and obtain permits from Perrysburg Township, ODOT, CSX Corporation and the Ohio Turnpike. Additionally, we have to assist in the public involvement process, and finally, prepare the bid documents and assist in the bidding phase.

Unfortunately, we have exceeded our project budget and still have the above items to complete. On our behalf, we have experienced extra work in preparing the plans that have been beyond our control. This includes:

- Preparing milling and pavement resurfacing plans that Perrysburg Township has requested.
- Preparing multiple designs for the Meter Chamber to satisfy Toledo's changing comments on the chamber design.

As a result, we are requesting additional compensation to complete the project through the bidding phase in the amount of \$10,224.00. The breakdown of expenses is attached and has been revised as a result of our meeting on October 29, 2021. Your consideration of this request is appreciated.

Sincerely,

Thomas H. Yurysta, P.E.
Project Manager / Vice President

Cc: Matt Choma

10210 WATERVILLE ST.
WHITEHOUSE, OH 43571
419.865.7195



www.proudfootassociates.com

PROUDFOOT EXPENSES TO COMPLETE PROJECT

	Project Eng.	Tech
1. File Ohio Turnpike Permit ✓ - COMPLETED - Per TY	8 hrs.	2 hrs.
2. File ODOT Permit ✓ - COMPLETED - Per TY	8	2
3. File Ohio EPA Permit ✓ - COMPLETED - Per TY	8	2
4. File Perrysburg Township Permit ✓ - COMPLETED - Per TY	4	0
5. File CSX Permit ✓ - COMPLETED - Per TY	8	2
6. Prepare Contract Documents/Specifications * - TO BE COMPLETED	30 16	12 4
7. Bidding Process: print plans & Contract Documents & Assemble	2	2 - TO BE COMPLETED
8. Bidding Process: send out documents - TO BE COMPLETED	0	2
9. Bidding Process: answer questions/prepare addendums	8	0 - TO BE COMPLETED
10. Review bids & Recommendation for Award - TO BE COMPLETED	8 4	2
11. Public Involvement BY CITY	2	2
TOTAL HOURS	92 64	28 12

Fee: ⁶⁴92 hrs x \$143.50 + ¹²48 hrs x \$86.68 = \$10,224. ~~\$17,362.64 - printing \$100.~~

Completed - Fee: 36 hrs x \$143.50 + 8 hrs x \$86.68 = \$5,859.44

To be completed - Fee: 28 x \$143.50 + 4 x \$86.68 = \$4,364.72

* JUST PREPARE BID PROPOSAL & SUPPLEMENTARY
CONDITIONS/SPECIFICATIONS

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Amber Rathburn, Finance Director

RE: Res 107-2024

DATE: September 23, 2024



Subject Matter/Background

The City is developing an elevated multi-use trail from Green Lane (W Boundary Extended) through the wooded area, to the end of the existing path on the north side of the parking lot at Orleans Park. Bids for this construction project were opened on August 22, 2024. The City received 3 bids for this project. The lowest and best bid for the required work was determined to be from Weber Contracting, of Archbold, Ohio. On August 28, 2024 the Service Committee unanimously approved advancement of this bid award to City Council in the amount of \$839,757.50 plus a 10% contingency.

The amount originally budgeted for this project for 2024 was \$700,000. On September 10, 2024 the Finance Committee approved forwarding to Council a budget amendment in the amount of \$223,733.25. Council approved this budget amendment and additional appropriation on September 17, 2024 with ordinance# 62-2024.

Financial Review

Account: 4403-11755-55999

Legal Review

n/a

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this Resolution as an emergency is recommended, in order to allow for timely acceptance of the bid.

RESOLUTION 107-2024

**A RESOLUTION AUTHORIZING AN AGREEMENT WITH WEBER
CONTRACTING IN AN AMOUNT NOT TO EXCEED NINE
HUNDRED TWENTY-THREE THOUSAND SEVEN HUNDRED
THIRTY-THREE DOLLARS AND TWENTY-FIVE CENTS
(\$923,733.25) FOR CONSTRUCTION OF AN ELEVATED MULTI-
USE TRAIL THROUGH ORLEANS PARK; AND DECLARING AN
EMERGENCY**

WHEREAS, the City of Perrysburg, Ohio, is developing an elevated multi-use trail from Green Lane (W Boundary Extended) through the wooded area to the end of the existing path on the north side of the parking lot at Orleans Park; and,

WHEREAS, the City issued a bid package which contained all relevant specifications and requirements for the project, which acknowledged that the City was authorized to waive minor irregularities in bidding which did not affect the fairness of the process, and pursuant to which the City would accept the lowest and best bid for the required work; and,

WHEREAS, the City of Perrysburg received three (3) bids and the bid received from Weber Contracting, of Archbold, Ohio provided the lowest and best bid for the proposed work, and they have the equipment, expertise, personnel, and knowledge to perform the required work; and,

WHEREAS, given the nature of the work, it is reasonable that any contract to perform such work should be awarded to a general contractor rather than to separate trade contractors; and,

WHEREAS, the cost for the project is Eight Hundred Thirty-Nine Thousand Seven Hundred Fifty-Seven Dollars and Fifty Cents (\$839,757.50), with the City Engineer requesting a 10% contingency, leaving the total cost of the project at an amount not to exceed Nine Hundred Twenty-Three Thousand Seven Hundred Thirty-Three Dollars and Twenty-Five Cents (\$923,733.25); and,

WHEREAS, the Service Committee, at its meeting held August 28, 2024, unanimously approved advancement of this bid award to City Council.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY
OF PERRYSBURG, WOOD COUNTY, OHIO:**

SECTION 1. City Council authorizes the award of the Bid to Weber Contracting of Archbold, Ohio, for the A elevated multi-use trail from Green Lane (W Boundary Extended) through the wooded area to the end of the existing path on the

north side of the parking lot at Orleans Park; and the Mayor and Director of Finance are authorized to enter into an Agreement with Weber Contracting of Archbold, Ohio, for this Project at a cost of Eight Hundred Thirty-Nine Thousand Seven Hundred Fifty-Seven Dollars and Fifty Cents (\$839,757.50), as outlined in the bid attached hereto and incorporated herein as Exhibit A; further, the Mayor and Director of Finance are hereby authorized to approve all change orders considered necessary to this project in an amount not to exceed ten percent (10%) for a total project amount not to exceed Nine Hundred Twenty-Three Thousand Seven Hundred Thirty-Three Dollars and Twenty-Five Cents (\$923,733.25).

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, as the bid award is only valid for sixty (60) days, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

General Info

Alt Total: \$223,745.00

Total:

\$839,757.50

Number	Description
Maumee River MUP Orleans Extension	This project consists of constructing a 10 foot wide asphalt and elevated concrete plank boardwalk multiuse path within Orleans Park from West Boundary Street to the paved parking lot. Work includes all necessary and related work such as paving, earthwork, aggregate base, boardwalk, restoration, clearing and other related items.
Deadline	
08/22/2024 02:00 PM EDT	This contract is subject to the provision of State of Ohio, Prevailing Wage Rates. The subsequent contract will require certificates of insurance and may require performance and payment bonds.
Vendor	
Weber Contracting	In order to be considered responsive, the contractor and all subcontractors will need to comply with City Ordinance 08-2023 which was passed in April of 2023. A copy of the Ordinance 08-2023 is included in the attachment list.
Submitted	
08/22/2024 11:38 AM EDT	The project will be awarded to the lowest and most responsive bidder based on the Grand Total Price of the Base Bid and any Alternatives that are accepted.
Signed by	
ISAAC WEBER	Final Completion for the project: November 1, 2025
Account Holder Isaac Weber	
Opened	Engineering Estimate for the project: \$765,000
08/22/2024 02:00 PM EDT	
By	Allows zero unit prices and labor
bthomas@ci.perrysburg.oh.us	Yes
	Allows negative unit prices and labor
	Yes

Ordinance 08-2023 Confirmation Statement

I confirm, in accordance with the wage and fringe benefit requirements set from in O.R.C. 4115.03(E), that my company, bidding on this City of Perrysburg project, meets the following standards (select either Yes or No):

Statement #1: The bidder provides healthcare benefits to its employees as a standard part of its compensation package and not only on projects subject to a state or federal prevailing wage requirement.

Statement #2: The bidder provides retirement benefits to its employees as a standard part of its compensation package and not only on projects subject to a state or federal prevailing wage requirement.

Statement #3: The bidder hires employees who have done one of the following:

- 1) Graduated from or are participating in a construction apprenticeship program certified and regulated by the State of Ohio or the U.S. Department of Labor.
- 2) Have at least five (5) years of documented experience in the specified field.

Statement #1 Answer *

Yes

Statement #2 Answer *

Yes

Statement #3 Answer *

Yes

In addition to the above, the bidder certifies they will comply with all provisions of the City of Perrysburg Code 252.052. Please refer to the copy of Ordinance 08-2023 in the attached document list for additional details.

Failure of a bidder to comply with 252.052 due to the lack of submission of the above confirmations or bidder's failure to affirmatively meet the above standards, shall result in the bidder being considered non-responsive.

Signature *

ISAAC WEBER

Title *

ADMIN

Bidder Company Name *

WEBER CONTRACTING

Date *

8-19-24

The above signature hereby certifies, by signing and submitting this form, they have the ability to contract on behalf of the company and understand the implications of the failure to comply with the City of Perrysburg code 252.052.

Attachment List

Ordinance 8-2023 Signed.pdf (759 KB)
Ordinance 08-2023

Maumee River MUP Orleans Park Extension_PS&E Plans.pdf (6.72 MB)
Plans

Alternate 1 Location.pdf (48.2 KB)
Location Map for Alternate 1

2_LegalNotice_FY21-BTHOMASSUR-20.pdf (74.1 KB)
Legal Advertisement

3_ProjDesc_FY21.pdf (114 KB)
Project Description

4_InstructionstoBid-FY21.pdf (94.7 KB)
Instruction to Bidders

5_General Conditions.pdf (180 KB)
General Conditions

6_Specs_FY21.pdf (149 KB)
Supplemental Specifications

7_Insurance Requirements.pdf (68.7 KB)
Insurance Requirements

8_ContractForm_FY21.pdf (581 KB)
Contract Form (For Reference Only)

231887 CT Geotech Letter Report Orleans Park MUP Perrysburg OH 07-25-24.pdf (13 MB)
Geotechnical Report

Proposal

BID

Proposal of: *

WEBER CONTRACTING

(hereinafter called "Bidder"), organized and existing under the laws of the State of *
OHIO

doing business as *

"an individual"

submitted to The City of Perrysburg (hereinafter called
"Owner").

In compliance with the Advertisement for Bids, the Bidder hereby proposes to perform all Work for the
construction of: *

Maumee River MUP Orleans Extension

in strict accordance with the Contract Documents, within the time set forth therein,
and accept as compensation therefore the sum of (in words): *

EIGHT HUNDRED THIRTY NINE THOUSAND SEVEN HUNDRED FIFTY SEVEN AND FIFTY
CENTS

\$ (in currency): *

\$839,757.50

;however, the final amount will be controlled by the following unit prices and no payments shall exceed the total unit prices for said
work. The Bidder agrees to accept the following unit prices for any addition or deductions caused by any change or alterations in
the plans or specifications of the work.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own
organization, that: 1) this Bid has been arrived at independently, without consultation, communication, or agreement as to any
matter relating to this Bid with any other Bidder or with any competitor; 2) they do not have an unresolved finding for recovery
issued by the Auditor of State, in accordance with Section 9.24 of the Ohio Revised Code; and 3) they do not have an active
exclusion shown in the Federal System of Award Management (SAM).

The Bidder hereby agrees to commence work under this contract on or before a date to be specified in the Notice to
Proceed and to complete the project on/before the date specified. The Bidder further agrees to pay as liquidated damages, the
sum of \$300 for each consecutive calendar day thereafter as provided in the General Conditions.

The Bidder acknowledges receipt of the following Addendum (Type N/A if not applicable):

Addenda #: *

N/A

Addenda Date: *

N/A

The Bidder acknowledges that 1) they have not received nor relied upon any representations or warranties of any nature whatsoever from the Owner, its officers, employees, or agents; 2) they are responsible for verifying the current prevailing wage rates and requirements according to Chapter 4114 of the Ohio Revised Code; 3) upon contract award, they will be required to sign an affidavit indicating whether or not they have delinquent personal property taxes on the General Tax List of Personal Property of Wood County, Ohio, in accordance with Section 5719.042 of the Ohio Revised Code.

In submitting this Bid, it is understood it may be withdrawn prior to the scheduled closing time for the receipt of bids, but that the Bidder may not withdraw its Bid after the actual opening thereof.

On acceptance of this Bid, the Bidder does hereby bind itself to enter into a written contract with the Owner within ten (10) days of the Notice of Award and give a Surety Bond amounting to 100% of the Contract.

Signature: *

ISAAC WEBER

Address: *

1396 S DEFIANCE STREET

Title: *

ADMIN

City, State, Zip: *

ARCHBOLD, OH 43502

Legal Name of Bidder: *

WEBER CONTRACTING

Phone Number: *

(419) 572-6057

Fax Number: *

N/A

E-mail Address *

isaac@weber-contracting.com

Base Bid

\$839,757.50

Item Code	Description	Quantity	Units	Unit Price	Extension
Alternates are not included in bid total.					
201.0	Clearing and Grubbing, As Per Plan	1.00	LS	\$14,000.00	\$14,000.00
202.0	Removal Misc.: Post/Bollard	11.00	EACH	\$50.00	\$550.00
202.0	Removal Misc.: Concrete Block	1.00	EACH	\$50.00	\$50.00
203.0	Excavation	427.00	CY	\$35.00	\$14,945.00
203.0	Embankment	111.00	CY	\$35.00	\$3,885.00
204.0	Subgrade Compaction	840.00	SY	\$6.00	\$5,040.00
204.0	Granular Material, Type C, 703.16	50.00	CY	\$120.00	\$6,000.00
204.0	Geotextile Fabric	125.00	SY	\$4.50	\$562.50
608.0	Curb Ramp	160.00	SF	\$30.00	\$4,800.00
653.0	Topsoil Furnished and Placed	86.00	CY	\$85.00	\$7,310.00
659.0	Seeding and Mulching	775.00	SY	\$3.00	\$2,325.00
659.0	Commercial Fertilizer	0.11	TON	\$300.00	\$33.00
659.0	Water, As Per Plan	4.00	MGAL	\$1.00	\$4.00
671.0	Erosion Control Mat, Type F	450.00	SY	\$5.00	\$2,250.00
832.0	Erosion Control	3,500.00	EACH	\$1.00	\$3,500.00
304.0	Aggregate Base	188.00	CY	\$160.00	\$30,080.00
407.0	Tack Coat	32.00	GAL	\$3.00	\$96.00
441.0	Asphalt Concrete Surface Course, Type 1, (449), PG64-22	33.00	CY	\$316.00	\$10,428.00
441.0	Asphalt Concrete Intermediate Course, Type 2, (449)	43.00	CY	\$275.00	\$11,825.00
690.0	SPECIAL - STRUCTURES: BOARDWALK ABUTMENT	2.00	EA	\$10,000.00	\$20,000.00
					Total: \$839,757.50

Item Code	Description	Quantity	Units	Unit Price	Extension
690.0	SPECIAL - MISC.: HELICAL PILE BOARDWALK	542.00	FT	\$987.00	\$534,954.00
690.0	SPECIAL - MISC.: BOARDWALK RAILING	1,050.00	FT	\$115.00	\$120,750.00
630.0	Ground Mounted Support, No. 3 Post	52.00	FT	\$20.00	\$1,040.00
630.0	Sign, Flat Sheet	34.50	SF	\$40.00	\$1,380.00
630.0	Removal of Ground Mounted Sign and Storage	4.00	EACH	\$25.00	\$100.00
630.0	Removal of Ground Mounted Post Support and Disposal	2.00	EACH	\$25.00	\$50.00
644.0	Crosswalk Line, 24"	100.00	FT	\$20.00	\$2,000.00
614.0	Maintaining Traffic	1.00	LS	\$2,000.00	\$2,000.00
623.0	Construction Layout Stakes and Surveying	1.00	LS	\$4,500.00	\$4,500.00
624.0	Mobilization	1.00	LS	\$20,000.00	\$20,000.00
SPECIAL	Special - Misc.: Two-Way Collapsible Bollard - Steel	9.00	EACH	\$1,700.00	\$15,300.00
					Total: \$839,757.50

Alternate 1

Item Code		Description	Quantity	Units	Unit Price	Extension
Alternate: Owner-agency may award independently from entire bid.						
Component is not included in bid total.						
Alternates are not included in bid total.						
204		Subgrade Compaction	5,160.0000	SY	\$6.00	\$30,960.00
304		Aggregate Base	287.0000	CY	\$160.00	\$45,920.00
441		Asphalt Concrete Surface Course, Type 1, (449), PG64-22	215.0000	CY	\$316.00	\$67,940.00
441		Asphalt Concrete Intermediate Course, Type 2, (449)	287.0000	CY	\$275.00	\$78,925.00
Alternate Total: \$223,745.00						Total:

BID GUARANTEE AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned *

Weber Contracting

as Principal and *

Ohio Farmers Insurance Company

as Surety, are hereby held and firmly bound unto the City of Perrysburg as Obligee in the penal sum of the dollar amount of the bid submitted by the Principal to the Obligee on *

August 22 2024

to undertake the project known as: *

Perrysburg/Maumee River MUP Orleans Extension

The penal sum referred to herein shall be the dollar amount of the Principal's bid to the Obligee, incorporating any additive or deductive alternate proposals made by the Principal on the date referred to above to the Obligee, which are accepted by the Obligee. In no case shall the penal sum exceed the amount of (in words):

\$ (in currency):

(If the above line is left blank, the penal sum shall be the full amount of Principal's bid, including alternates. Alternatively, if completed, the amount stated must not be less than the full amount of the Principal's bid including alternates, in dollars and cents. A percentage is not acceptable)

Bond Percentage

10.00%

Guarantee Method *

Certified Check or Paper Bid
Bond

Certified Check or Paper Bid Bond

Confirmation *

I have provided a paper bid bond and uploaded the Consent of Surety to the Required Documents List at the bottom of the solicitation forms. I further agree to submit the original Bid Bond to The City of Perrysburg Engineering Department within three (3) business days, if found to be the Apparent Low Bidder.

For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successor, and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above named Principal has submitted a bid on the above-referred project;

NOW, THEREFORE, if the Obligee accepts the bid of the Principal and the Principal fails to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material; and in the event the Principal pays to the Obligee the difference not to exceed ten percent (10%) of the penalty hereof between the amount specified in the bid and such larger amount for which the Obligee may in good faith contract with the next lowest bidder to perform the work covered by the bid; or in the event that the Obligee does not award the contract to the next lowest bidder and resubmits the project for bidding, the Principal pays to the Obligee the difference not to exceed ten percent (10%) of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, whichever is less, that this obligation shall be null and void, otherwise to remain in full force and effect. If the Obligee accepts the bid of the Principal, and the Principal within ten days after the awarding of the contract, enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, then said contract is made part of this bond the same as through set forth herein.

NOW ALSO, if the said Principal shall well and faithfully do and perform each and every condition of such contract; and shall pay all lawful claims of subcontractors, materialmen and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the Obligee herein; then this obligation shall be void; otherwise the same shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to the terms of said contract or in or to the plans or specifications therefore shall in any wise affect the obligations of said Surety on this bond.

Principal: *

Weber Contracting

By: *

Isaac Weber

Title: *

Admin

Surety: *

Ohio Farmers Insurance Company

By (Attorney-in-Fact): *

Mark Drengler

Address: *

PO Box 5001, 1 Park Circle Westfield Center OH 44251

Agent: *

Surety Bonds Inc

Address: *

7540 Sawmill Parkway, Suite D Powell OH 43065

EXPERIENCE STATEMENT

Bidder shall provide information regarding similar work performed including, but not limited to, project name, description, location, and contact information, and any other details that will enable the City to assess the Contractor's capabilities, experience, skills, and financial standing with regard to this proposal. This statement shall also include information showing that the Bidder:

- maintains a permanent place of business.
- has adequate facilities and equipment available for the work under the proposed contract.
- has suitable financial means to meet obligations incidental to the proposed contract.
- has appropriate technical experience and possesses sufficient skills and experience.
- has the ability or resources available to make all repairs and adjustments that may be required on the equipment to be used under the proposed contract.

Response to the above: *

WEBER CONTRACTING MAINTAINS A PERMANANT PLACE OF BUSINESS AT 1396 S DEFIANCE STREET ARCHBOLD OH 43502
WEBER CONTRACTING HAS ADEQUATE FACILITIES AND EQUIPMENT AVAILABLE FOR WORK UNDER THE PROPOSED CONTRACT
WEBER CONTRACTING HAS SUITABLE FINANCIAL MEANS TO MEET OBLIFATIONS INCIDENTAL TO PROPOSED CONTRACT
WEBER CONTRACTING HAS THE APPROPRIATE TECHNICAL EPERIENCE AND POSSESSES SUFFICIENT SKILLS AND EXPERIENCE
WEBER CONTRACTING HAS THE ABILITY AND RESORCESES AVAILABLE TO MAKE ALL REPAIRS AND ADJ THAT MAY BE REQUIRED ON THE EQUIPMENT TO BE USED.
PLEASE SEE ATTACHE SUPPORTING DOCUMENTS.

If Bidder is Corporation, list Officers, type N/A if not applicable:

Name: *

N/A

Title: *

N/A

If Bidder is Partnership, list Members, type N/A if not applicable:

Name: *

N/A

Title: *

N/A

LIST OF SUBCONTRACTORS

Bidder shall provide the names, addresses, and type of work (Item No. or Description, if applicable) which the Bidder proposes to subcontract under this Contract.

Name: *

BUCK BROTHER ASPHALT
PAVING & CONCRETE

Address: *

2712 VICTORY AVE, TOLEDO OH 43607

Type of Work: *

ASPHALT

Bidder shall provide the names, addresses, and type of work (Item No. or Description, if applicable) which the Bidder proposes to subcontract under this Contract. 1

Name: *

GARCIA SURVEYORS, INC

Address: *

1720 Indian Wood Cir E, Maumee, OH 43537

Type of Work: *

SURVEYING

By signing below, the bidder certifies that, they will require the proposed subcontractors listed above and any subcontractors to those subcontractors to meet the requirements of the City of Perrysburg code 252.052. Failure to ensure a proposed subcontractor listed above or any subcontractor to those subcontractors will result in debarment from City contracts for a period of three (3) years.

Signed By: *

ISAAC WEBER

Title *

ADMIN

Company *

WEBER CONTRACTING

Date *

8-22-24

NONCOLLUSION AFFIDAVIT

STATE OF: *

OH

COUNTY OF: *

FULTON

Bid Identification *

Maumee River MUP Orleans Extension

Bidder's Name *

ISAAC WEBER

, being first dually sworn, deposes and says that he is:

*

other

Enter response if "other" was selected

ADMIN

of (company name): *

Weber Contracting

the party making the foregoing bid; that such bid is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the bid price of said bidder or of any other bidder, or to fix any overhead, profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true; and further that said bidder has not, directly or indirectly submitted his bid price on any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said bidder in his general business.

Signed: *

ISAAC WEBER

Title: *

ADMIN

SUBSTITUTIONS/OPTIONS FORM

Optional: Vendor is not required to complete.

Any substitutions, deletions, additions, or deviations to the minimum specifications must be shown on this form and attached to the proposal forms in order to be considered as part of the bid. The City reserves the right to accept or reject any and all substitutions or optional bids. *

No bid

PREVAILING WAGE RESPONSIBILITIES

Keep full and accurate payroll records available for inspection for up to one (1) year following the completion of the project. Owners/partners must be shown on payrolls for any physical work they perform on the job.

- A. time records
- B. payroll records including canceled checks
- C. fringe benefit records including canceled check

Prevailing Wage Determination must be posted on the project site.

Supply Perrysburg Prevailing Wage Coordinator with dates of the life of the contract and a listing of all subcontractors to include the name, address, and telephone number of each.

Supply each employee with written notification of his assigned job classification, hourly prevailing wage rate and fringe payments, and identity of the Prevailing Wage Coordinator for the project.

Supply all subcontractors with any changes in the Prevailing Wage rates issued during the life of the project.

Out-of-State contractors must submit to the Ohio Secretary of State, the full name and address of their Statutory Agent in Ohio.

Submit certified payrolls starting no later two (2) weeks after the initial pay period. Insure all payrolls include the following:

- A. Employees full name, address, and social security number
- B. Work classification
 - (1) Be specific when listing laborers and operators
 - (2) Show level/year for all apprentices
- C. Hours worked on the project
 - (1) As of May 1, 1984, overtime is to be paid at not less than time and one-half for all hours worked in excess of forty (40) hours per week.
- D. Hourly rate of pay

Actual hourly rate paid employee for the time worked. Overtime hourly rate of not less than time and one-half the basic or regular rate paid is required under Chapter 4115. In addition to paying not less than the predetermined rate for the classification in which the employee works, the amounts predetermined as fringe benefits in the wage determination issued for the project, shall also be paid.

(Sample calculation: $\$12.82$ (base rate) $\times 1\frac{1}{2} = \$19.25 + \1.70 (fringe payments) = $\$20.93$). Fringe payments must be entered in appropriate blocks on payroll forms when such fringes are paid to approved plans, funds, etc.

E. List all fringe benefits (if any) and amount per hour for each

(1) Hourly amount is to be based on 2080 hours per year.

F. Total deductions

G. Net pay for the pay period

Send a copy of Apprenticeship Agreement for each apprentice and a Final Affidavit to:

Perrysburg Prevailing Wage Coordinator

201 West Indiana Avenue

Perrysburg, OH 43551

(419) 872-7880

dbombrys@ci.perrysburg.oh.us

STATE OF OHIO PREVAILING WAGE RATES ARE AVAILABLE ON-LINE AT THE FOLLOWING WEBSITE:

Ohio Department of Commerce (<http://www.com.ohio.gov/laws/>)

Perrysburg Code 252.02(G) Disclosures

1) Has there been any safety violations or settlement agreements between the bidder and the Occupational Safety & Health Administration or a state based agency of similar jurisdiction during the ten (10) year prior to the submission of the bid? *

NO

2) Has there been any violation of, or settlement agreement related to, any wage and hour laws at the local, state or federal level during the ten (10) years prior to the submission of the bid? *

NO

3) Does the bidder have an active and compliant Ohio Bureau of Workers Compensation insurance policy? *

YES

4) Please list any license(s) issued by the Ohio Construction Industry Licensing Board that has been assigned to the bidder *

N/A

5) Have there been any legal judgments against the bidder during the last ten (10) years prior to the submission of the bid? *

NO

6) List the relevant experience of the bidder, including the number of years in the business under its present, alias, fictitious, doing business as, and/or former business name. *

8 YEARS IN BUSINESS. STATEHIGHWAY CLEARING DBA WEBER CONTRACTING. WE HAVE STAFF WITH 30+ YEARS OF CONSTRUCTION EXPERIENCE INCLUDING ODOT AND LUCAS COUNTY INSPECTOR.

7) Attach a complete list of all the bidder's ongoing and completed public and private construction projects within the last three (3) years, including the nature and value of each contract and the name, address, and phone number or email address for a representative of the owner of each project. *

ATTACHED

8) Have there been any state or federal Environmental Protection Agency complaints issued against the bidder during the ten (10) years prior to the submission of the bid? *

NO

9) Describe the management experience of the bidder's project manager(s) and superintendent(s) who will be assigned to the project *

30+ YEARS OF CONSTRUCTION EXPERIENCE. ODOT, ARMY CORP OF ENGINEERS, LUCAS COUNTY, CITY OF TOLEDO, ODNR.

10) Is the bidder a foreign corporation not incorporated under the laws of Ohio? If yes, a Certificate of Good

Standing from the Ohio Secretary of State demonstrating its right to conduct business in the State of Ohio must be attached. *

NO

11) Has the bidder been debarred by any public authority in the United States during the ten (10) years prior to the submission of the bid? *

NO

12) Provide a description of the bidder's Occupational Safety and Health Administration compliant safety program. *

YES WE HAVE ONE IN PLACE. WE HAVE A PROGRAM IN PLACE IN OUR EMPLOYEE HANDBOOK. DOCUMENTS AVAILABLE UPON REQUEST.

13) Does the bidder have an active and compliant Ohio Drug Free Workplace policy issued by the State of Ohio? *

YES

14) Provide the percentage of the bidder's workforce that has five (5) or more years of experience in their trade. *

80 PERCENT

I hereby certify that, to the best of my knowledge, the provided information is true and accurate and by signing and submitting this form, I have the ability to contract on behalf of the company and understand the implications of the failure to comply with the City of Perrysburg code 252.052

Company Name *

WEBER CONTRACTING

Signature *

ISAAC WEBER

Title *

ADMIN

Date *

8-19-24

Attachments for Perrysburg Code 252.02(G) Disclosures Listed Above

Name	Omission Terms	Submitted File
Optional: Vendor is not required to complete.		
Miscellaneous Attachment as Needed Miscellaneous Attachment	Omit if Not Needed	Work Experience and Values 7-23-24.pdf
Miscellaneous Attachment as Needed Miscellaneous Attachment	Omit if Not Needed	I am not enclosing this document because the omission terms have been met.
Miscellaneous Attachment as Needed Miscellaneous Attachment	Omit if Not Needed	I am not enclosing this document because the omission terms have been met.
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14 Required Documents		

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		omission terms have been met.
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Miscellaneous Attachment as Needed	Omit if Not Needed	I am not
14 Required Documents		

Name	Omission Terms	Submitted File
Miscellaneous Attachment		enclosing this document because the omission terms have been met.
14 Required Documents		

Required Document List

Name	Omission Terms	Submitted File
Consent of Surety If providing a certified check or paper bid bond in lieu of Electronic Bid Bond	Electronically verifying Bid Bond	Bond Maumee.pdf
Miscellaneous Attachment as Needed Miscellaneous Attachment	Omit if Not Needed	I am not enclosing this document because the omission terms have been met.
2 Required Documents		

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ords 66-2024

DATE: September 30, 2024



Subject Matter/Background

Perrysburg Code Section §1295.07 accepts streets, signs and infrastructure of completed plats within the City. Once a developer completes a plat within the City, all infrastructure is inspected by the Department of Public Service, City Engineer, and the Department of Public Utilities to confirm that construction was completed to City specifications. Following a successful review, the City must accept the plat, including streets and infrastructure. This Ordinance identifies the plat, streets, and infrastructure found in Coventry Pointe Plat 3 that have reached that stage.

Financial Review

There is no direct financial implication to this legislation.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to waive the rules, waive the three readings and pass the legislation as an emergency measure is appropriate, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure.

ORDINANCE 66-2024

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (COVENTRY POINTE PLAT 3); AND DECLARING AN EMERGENCY

WHEREAS, Codified Ordinance §1295.07 requires that dedication of certain improvements within subdivisions be accepted by ordinance; and

WHEREAS, the streets, alleys, green spaces, and other dedicated infrastructure and improvements in a subdivision, as summarized on Exhibit A, (Coventry Pointe Plat 3) have been completed to the satisfaction of the City of Perrysburg, Ohio, and such improvements have been offered for dedication and now should be accepted and dedicated; and

WHEREAS, the value of the property includes but is not limited to:

Sanitary	723 linear feet	\$50,000.00
Water	686 linear feet	\$78,200.00
Roadway	715 linear feet	\$53,000.00
Storm	1,307 linear feet	\$74,700.00

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. In conformity with Codified Ordinance §1295.07 and all otherwise applicable law, the City of Perrysburg, Ohio, hereby accepts for dedication the streets, alleys, green spaces, and other dedicated infrastructure and improvements of the subdivisions listed on Exhibit A, (Coventry Pointe Plat 3) which is attached hereto and incorporated as if fully restated herein.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure, and

shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PAVEMENT AND DRAINAGE IMPROVEMENTS
FOR
Coventry Pointe Plat Three

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES AND DETAILS	2-5
GENERAL NOTES AND SUMMARY	6
SITE GRADING PLAN AND STREET SIGN PLAN	7
TYPICAL SECTION AND INTERSECTION DETAILS	8
PLAN AND PROFILE	9
EX. BASIN DETAILS	10
CROSS-SECTIONS	11-13
EPSC	14-18

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

ELEVATION 650.10'

SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

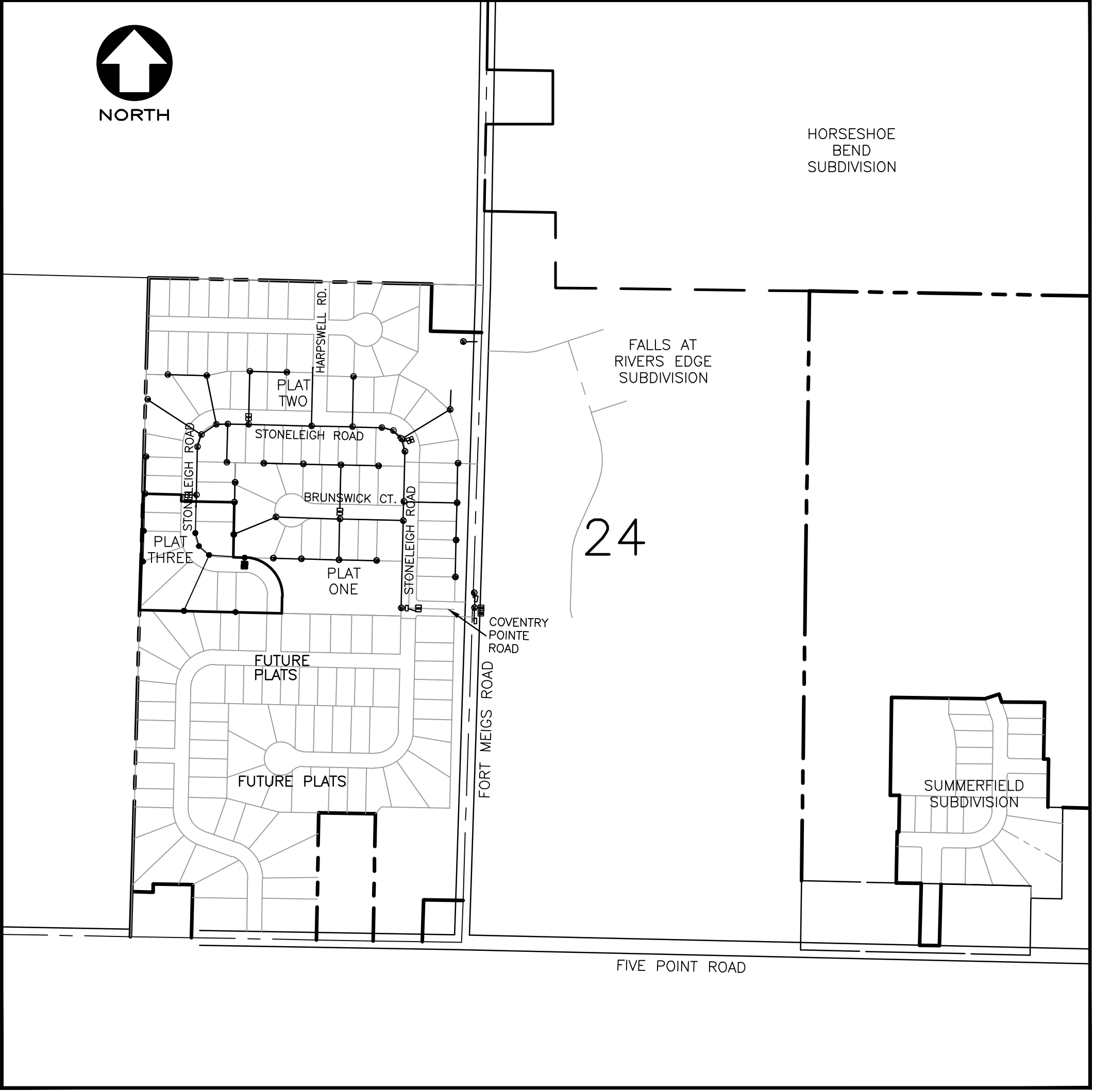
ELEVATION 651.45

SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	— S —	— S —
STORM SEWER	— ST —	— ST —
WATERMAIN	— W —	— W —
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊞
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕



KEY MAP
SCALE: 1"=400'

RECORD CONSTRUCTION 01/04/24

STORM WATER FACILITIES WHICH ARE NOT LOCATED IN
EASEMENTS OR THE PUBLIC RIGHT-OF-WAY SHALL BE PRIVATELY
OWNED AND MAINTAINED. FAILURE TO MAINTAIN PRIVATELY OWNED
STORM WATER FACILITIES MAY RESULT IN ENFORCEMENT ACTION.

STANDARD DRAWINGS

<u>ODOT</u>	
RM-1.1 ROADWAY MONUMENTS	1/20/23
BP-7.1 CURB RAMPS	1/20/23

WOOD COUNTY
TYPE A MONUMENT ASSEMBLY
STANDARD BARRICADE
MOUNTABLE CURB & GUTTER, TYPE F
STANDARD HEADWALL HW-1

SCALES

PLAN	1" = 50'
PROFILE, HORIZONTAL	1" = 50'
PROFILE, VERTICAL	1" = 5'
CROSS-SECTION, HORIZONTAL	1" = 20'
CROSS-SECTION, VERTICAL	1" = 5'

DRAINAGE APPROVED BY

CITY OF PERRYSBURG DATE
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

PAVEMENT APPROVED BY

CITY OF PERRYSBURG DATE
DIRECTOR OF PUBLIC SERVICE
ROB ROSS

DEVELOPED BY:
COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

NAME DATE

REVISION	DATE
1	01/04/24

PAVEMENT AND DRAINAGE	COVENTRY POINTE PLAT THREE
-----------------------	----------------------------



SIGNED	
DATE	
DATE: 11-16-21	1
PROJECT: 10E08869	18

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-088690P03A1

PAVEMENT AND STORM SEWER SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Storm sewers, 60 inches in diameter and smaller.
- B. Pavement for local roads.
- C. Audio-DVD/CD taping of existing and new storm sewer interiors.

1.2 STANDARDS

- A. All materials and construction shall be in accordance with the Standards and Specifications of the City of Perrysburg (the City) Department of Public Services/Utilities, and/or the American Society for Testing and Materials (ASTM), and/or the Wood County Engineer, and/or the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). In case of conflict, City Standards and Specifications shall take precedence.
- B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.
- C. The City's Pavement and Storm Sewer Standard Details apply to these specifications.

1.3 PRE-CONSTRUCTION MEETING, INSPECTION, AND PERMITS

- A. The Department of Public Utilities (419-872-8050), shall be notified seven calendar days prior to the beginning of actual construction.
- B. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Departments of Public Utilities, at 211 East Boundary Street, 419-872-8050.
- C. All storm sewer installation and testing shall be inspected by the City or its representative.
- D. The City or its representative shall be present during all storm sewer TV inspection and taping.

1.4 DEFINITIONS

- A. Bedding: Material placed under, beside and directly over the pipe for the full width of the trench, from a depth of 4 inches below the outside bottom of the pipe barrel, when the pipe is laid on its final grade, up to a horizontal plane a distance of 12 inches above the top of the pipe barrel.

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PAVEMENT AND STORM SEWER SPECIFICATIONS

- maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) for the various classes and sizes of ASTM C76 reinforced concrete pipe shall be as follows:
- | ASTM C76 | CLASS II | CLASS III |
|---------------|--------------|--------------|
| Pipe Diameter | Trench Width | Trench Width |
| 42 inch | 12' 6'-3" | 16' 6'-3" |
| 54 inch | 13' 7'-0" | 16' 7'-6" |
| 60 inch | 14' 8'-0" | 18' 8'-0" |
- | ASTM C76 | CLASS IV | CLASS V |
|---------------|--------------|--------------|
| Pipe Diameter | Trench Width | Trench Width |
| 42 inch | 25' 6'-3" | 35' 6'-6" |
| 54 inch | 25' 7'-8" | 35' 8'-0" |
| 60 inch | 27' 8'-0" | 35' 8'-6" |
- C. Manholes shall not be designed or constructed to be located within the landscaped islands of cul-de-sacs.

1.9 SEWER INSPECTION SYSTEM REQUIREMENTS

- A. Camera:
- Capable of operation in 100 percent humidity conditions.
 - Specifically designed and constructed for intended service.
 - Resolution: 500 lines per inch; color image.
 - Provided with built-in lighting system.
 - Provide remote operation of lighting system and camera.
 - Provide with pan and tilt rotating head capabilities.
 - Footage Meter: Provide equipment with a footage meter so that the location of the camera and point of observation is known at all times.
- B. Monitor:
- Located inside mobile TV studio large enough to accommodate a minimum of four people to view the monitor at all times.
 - Capable of providing a color picture.
- C. DVD/CD Recorder:
- Compatible with closed circuit TV to allow for direct recording during inspection.

PART 2 PRODUCTS

2.1 PIPE MATERIAL

- A. PVC Plastic Pipe and Fittings:
- ASTM D3034 (6" thru 15" pipe sewer at manufacturer's recommended depth).
 - ASTM F679 (18" thru 21" pipe sewer at manufacturer's recommended depth).

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Revised: 01-27-2017

1.5 REGULATORY REQUIREMENTS

- A. Construction operations shall comply with the City's Noise and Vibration Control Ordinance, Section 634.11, as follows:
- No person shall use any pile driver, shovel, hammer derrick, hoist tractor, roller or other mechanical apparatus operated by fuel or electric power in building or construction operations between 10:00 p.m. and 6:00 a.m. of the next day in a residential area or within 500 feet of a school or church, except for temporary conditions approved by the Service-Safety Director.
 - No person shall perform any construction or repair work on any structure or building, or perform any excavation or road work, when such work entails the use of any power operated construction type device in such a manner that the noise created thereby substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.
 - Whoever violates any of the provisions of this section is guilty of a minor misdemeanor for a first offense and a misdemeanor of the fourth degree for any subsequent offense. Punishment shall be as provided in Ordinance Section 698.02.
- B. In accordance with Ordinance 1040.07, Rule 24 of the City's Streets, Utilities, and Public Services Code, "The sewer contractor shall be required, for two years after the completion of the work, to make all necessary repairs, including filing and seeding if settlement occurs." The sewer contractor is the Contractor responsible for the performance of the Work.

1.6 QUALITY ASSURANCE

- A. Pipe Sewers, Manholes and Appurtenances:
- The manufacturer's affidavit indicating that all pipe, fittings, manholes, catch basins and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, including the project on which the material is to be used, shall be forwarded to the City prior to construction.
 - All pipes, fittings, manholes, catch basins, and appurtenances shall be appropriately marked for identification purposes. The materials and methods of manufacture, and completed pipes, fittings, manholes, catch basins, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.
- B. Pipe Sewer Inspection:
- Contractor shall have a minimum of 5 years experience in inspection of pipeline sewers in addition to TV-DVD/CD and summary reports.
 - Perform Work in accordance with the latest standards for TV-DVD/CD recording procedures.

- Operation of equipment shall be controlled from above ground.
- The City shall have access to view monitor at all times.
- Inspection shall include pipe sewers from manhole to manhole.
- New sewers and existing sewers shall have its own separate DVD/CD and separate documentation.
- Label new and/or existing accordingly for all documentation.

1.7 RESTORATION

- A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc., shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.
- B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.
- C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.

- D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches which are reshaped shall have reasonable side slopes. Vertical or steep slopes will not be permitted.

- E. Seed all disturbed earth areas using the hydroseeded method or placement of sod, both seed mixture and sod type shall be as approved by the City.

1.8 DESIGN REQUIREMENTS

- A. PVC Plastic Pipe and Fittings: Sewers 36 inch in diameter and smaller shall be of PVC plastic pipe and fittings, or other material as approved by the City.
- B. Concrete Pipe and Fittings: Sewers greater than 36 inch in diameter shall be Reinforced Concrete Pipe (RCP), ASTM C76 of Classes noted on Drawings, spigot and socket pattern, pipes of greatest lengths commercially available; ASTM C443 rubber gasket joints with gasket confined in a groove. Branches on fittings in the main line for connections shall be of the same material and incorporate joints as specified for the type of pipe which will be connected. Branches shall be cast with the concrete pipe by the pipe manufacturer and shall not be done in the field;

2.4 BACKFILL

- A. Earth Backfill: Excavated earth material. Use finely divided material, free of stones 3 inches or greater in any dimension, to at least 3 feet above pipe top.
- B. Granular Backfill: ODOT Item 304, crushed limestone.
- C. Controlled Density Fill (CDF): A mixture of Portland cement, fly ash, and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.

2.5 LOCAL ROADS

- A. Asphalt Concrete Pavement:
- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 - 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22
 - 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
 - On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.55 gallons per square yard. Installation to be as directed by the City.
 - ODOT Item 407, apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 - Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 - Pavement Sealer: When requested by and as approved by the City.

- B. Concrete Driveways and Parking Areas:
- Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
 - Commercial Drives: minimum 9 inch thick or match existing
 - Residential Drives: minimum 6 inch thick or match existing
 - Reinforcement: Match existing.
 - Hook Bolts:
 - Provide 5/8-inch hook or deformed bolts where new abuts existing.
 - Furnish and install at 30 inches center-to-center where new abuts existing longitudinally.
 - When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center-to-center where new abuts existing transversely.
 - When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center-to-center where new abuts existing transversely.
- C. Concrete Curbs: ODOT Item 609.04, Class C concrete.

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PAVEMENT AND STORM SEWER SPECIFICATIONS

- D. Pipe Underdrains: ODOT Item 805 using pipe 706.06, 706.07, 706.08 or 707.41.

2.6 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Neenah Foundry Company, R-1978-A2 with bolted lid.

2.7 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Materials:
- Follow current ODOT Specifications 712.14 as modified herein:
 - Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.
 - Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.
 - Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: <http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx> (DETECTIBLE WARNINGS)
- B. Concrete: ODOT Class C.

PART 3 EXECUTION

3.1 STORM SEWER PIPE AND FITTINGS

- A. Install PVC plastic pipe and fittings in accordance with ASTM D2321 and the requirements of these specifications.
- B. Install concrete pipe within the maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) as specified in 1.8.B.
- C. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.
- D. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).
- E. Install pipe at a minimum 10 feet horizontal distance from water mains and hydrants, and lay pipes at a minimum 18 inches vertical distance from water mains at their crossing, both as measured between the outside of the pipe walls. At crossings, install one full length of pipe so both joints will be as far from the main as possible.

- F. From the top of the bedding to a point 5 feet below the adjacent ground level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stoned streets, alleys, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 36-inch layers, loose measurement. Mechanically level the crushed stone and compact each layer with an excavator-mounted vibratory plate compactor that produces a rated compactive force of at least 9 psi. Each layer to receive a minimum of two complete passes, except where CDF is indicated on the Drawings.

- G. The top 5 feet of the trench shall be backfilled with granular material (DOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.

- H. For trenches within 5 feet from the edge of existing and proposed paved or stoned streets, alleys, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.

- I. For backfilling trenches yard and grass areas, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 18-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.

- J. For backfill trenches within 5 feet of existing and proposed sidewalks and driveways, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 12 inch layers, loose measurement, and compact by mechanical tamping. In no case shall the compaction be less than 92% as determined by the Standard Proctor Test.

- K. Changes in pipe material to meet City Specifications shall occur only at manholes and catch basins.

3.2 MANHOLES AND CATCH BASINS

- A. All manholes and catch basins shall be installed without sumps or traps.
- B. Install base with top surface level; install on cushion of approved compacted granular material, minimum of 3 inches thick.

PAVEMENT AND STORM SEWER SPECIFICATIONS

- C. New pvc pipe sewer connections: greater than 27 inch diameter: for services up to 15 inch diameter connect to the main sewer by making a direct connection by providing an inserta tee manufactured by Inserta Fittings, or as approved by the City, for up to 8 inch diameter services, connect to the main sewer by using an appropriate size stainless steel sewer pipe saddle, as manufactured by General Engineering Company.
- D. Existing pvc sewer pipe sewer connections: for up to 15 inch diameter services, connect to the main sewer by making a direct connect by providing an inserta tee manufactured by Inserta Fittings.

- E. New and existing concrete pipe sewers 12 inch diameter and larger: for 6 and 10 inch diameter services connect to the main sewer by providing a Kor-N-Tee pipe to pipe lateral connector as manufactured by NPG. Hole shall be bored by using a diamond bit drill of the appropriate size. For 12 inch and 15 inch diameter, connect to the main sewer by providing an inserta tee manufactured by Itera Fittings.
- F. Install 3 feet minimum into each lot, or as otherwise noted, true to line and on at least 1 percent grade with a minimum depth of 5 feet at the plug or the maximum depth possible for main sewers less than 5 feet deep.

- G. Provide riser sections of pipe and fittings between the main line sewer connection and that portion installed on at least a 1 percent grade where depths to the main sewer invert exceed 12 feet. Fix riser in place for its full height by providing thoroughly tamped pipe embedment material as shown.

- H. Close service connections not immediately connected to an existing sewer with a sewer pipe plug. Plug shall be specifically designed for use with the pipe, shall be for use as a permanent or temporary plug, shall be watertight, and shall be removable without damaging the pipe.

- I. Do not backfill the ends of service connections until the location is referenced in accordance with the detail on the Drawings. Provide a 2-inch square oak pole accurately placed over the terminus of each service connection and extending vertically flush with the surface of the ground so that it can be located.

3.4 CONNECTIONS TO STRUCTURES AND PIPES

- A. Connect new sewers to structures through stubs, wall castings, wall sleeves, etc. provided for same, or make an opening at the proper elevation in the wall of the structure, insert the pipe, and seal and permanently close the opening around the pipe with grout.
- B. Make connections watertight.

3.3 SERVICE CONNECTIONS

- A. Provide for existing and future houses and businesses; minimum 6 inches in diameter unless otherwise shown; maximum two service connections per lateral; install at 1 percent slope.
- B. New pvc pipe sewers 27 inch diameter and less: connect to the main sewer by providing an appropriate sized manufacturer wye.

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Page 4 of 5

Revised: 01-27-2017

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869DP03A1

PAVEMENT AND STORM SEWER SPECIFICATIONS

- a. Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).

b. Log Sheet: A written log sheet must accompany each DVD/CD.

c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.

d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.

e. Reference to new and existing manhole numbers on the DVD/CD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.

3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)

A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.

B. Asphalt Concrete Pavement:

1. ODOT Item 304; construct a 10-inch thick aggregate base in two equal lifts.

2. ODOT Item 406; apply prime coat at the rate of 0.35 gallons per square yard to the aggregate base. Installation to as be directed by the City.

3. ODOT Item 446; construct a 2-inch thick asphalt concrete intermediate course.

4. ODOT Item 448; construct a 1-1/2-inch thick asphalt concrete surface course.

5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface course and joints.

6. Pavement sealer; apply as instructed by manufacturer.

C. Concrete Driveways and Parking Areas: ODOT Item 452.

D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.

E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.

C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.

D. The City will approve proposed material to be installed.
- 3.9 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.

B. All testing shall be in the presence of the City or its representative.

C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing a testing laboratory to make tests on Site.

1. The City will pay for required testing that meets the City bedding and backfilling specifications.

2. Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

1. Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.

2. Conduct deflection tests with a representative of the City present.

3. Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after the pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.

4. Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.

5. Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:
- a. Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.

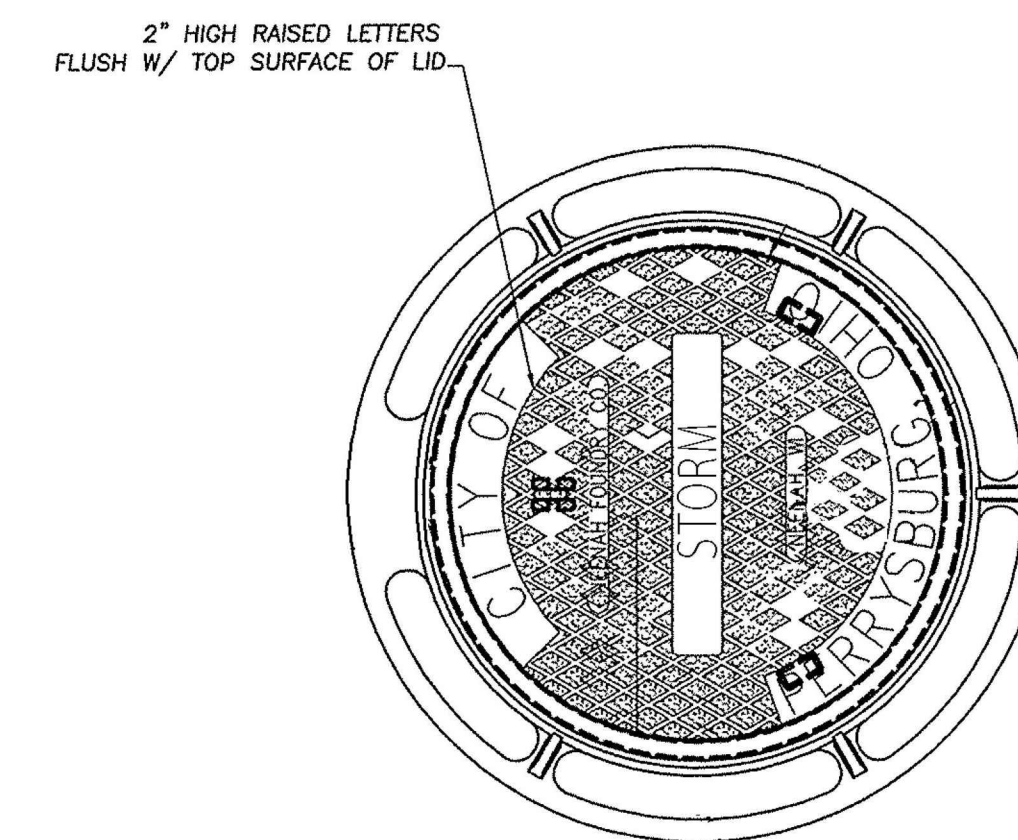
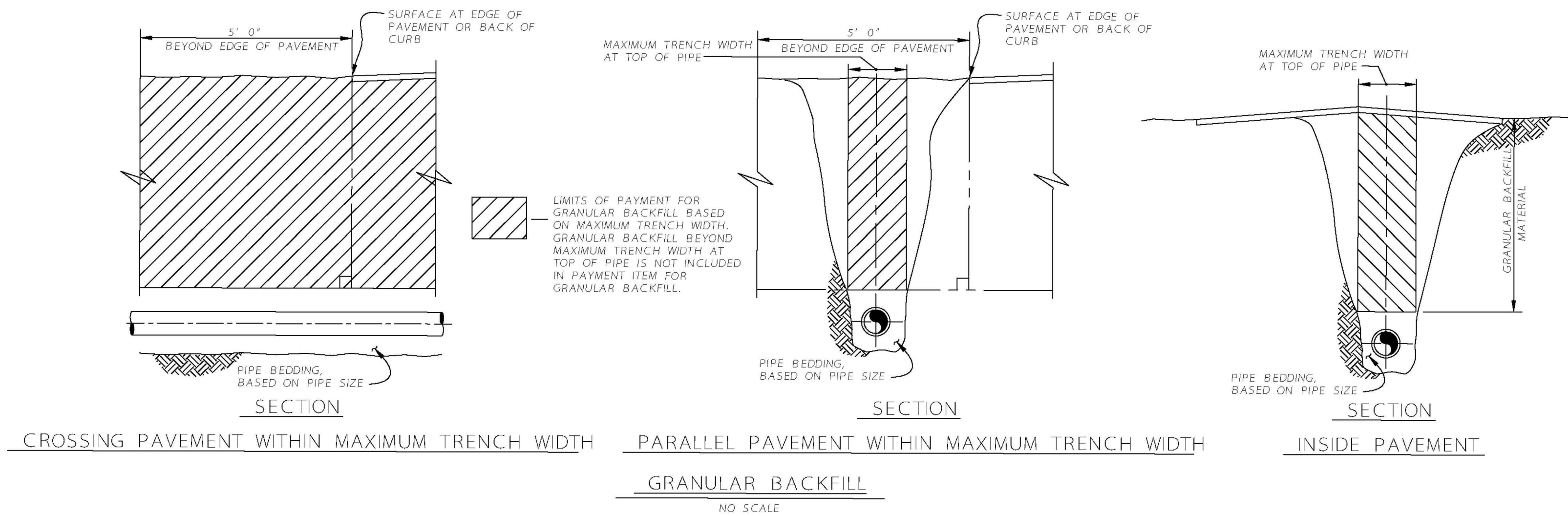
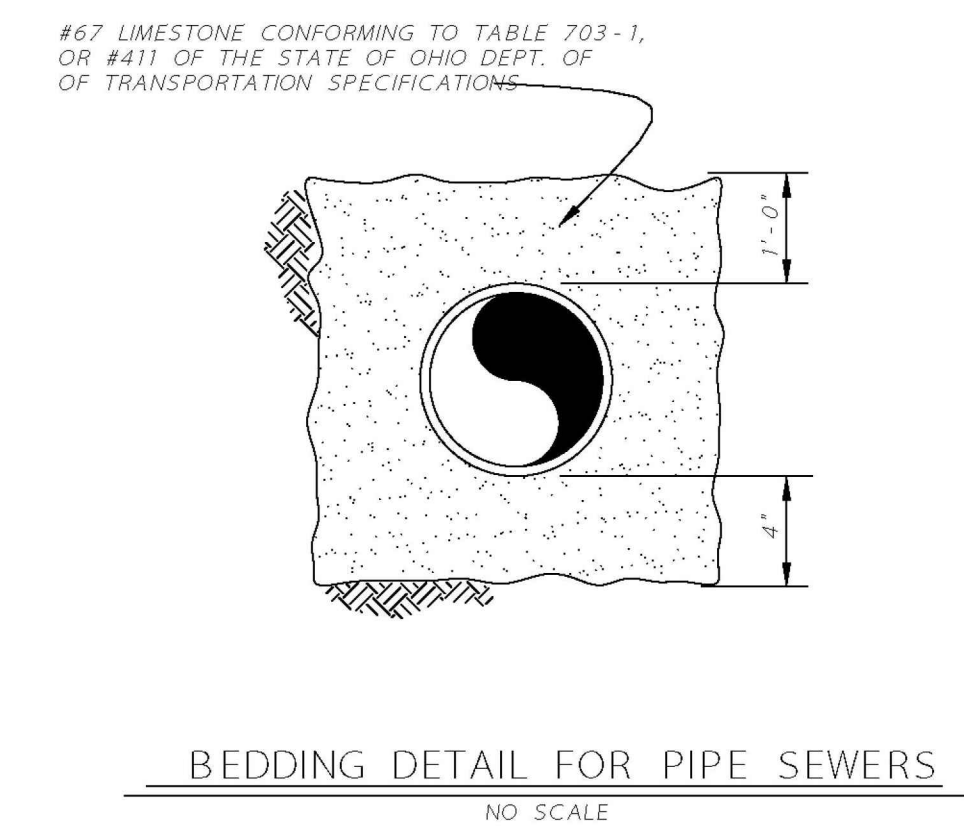
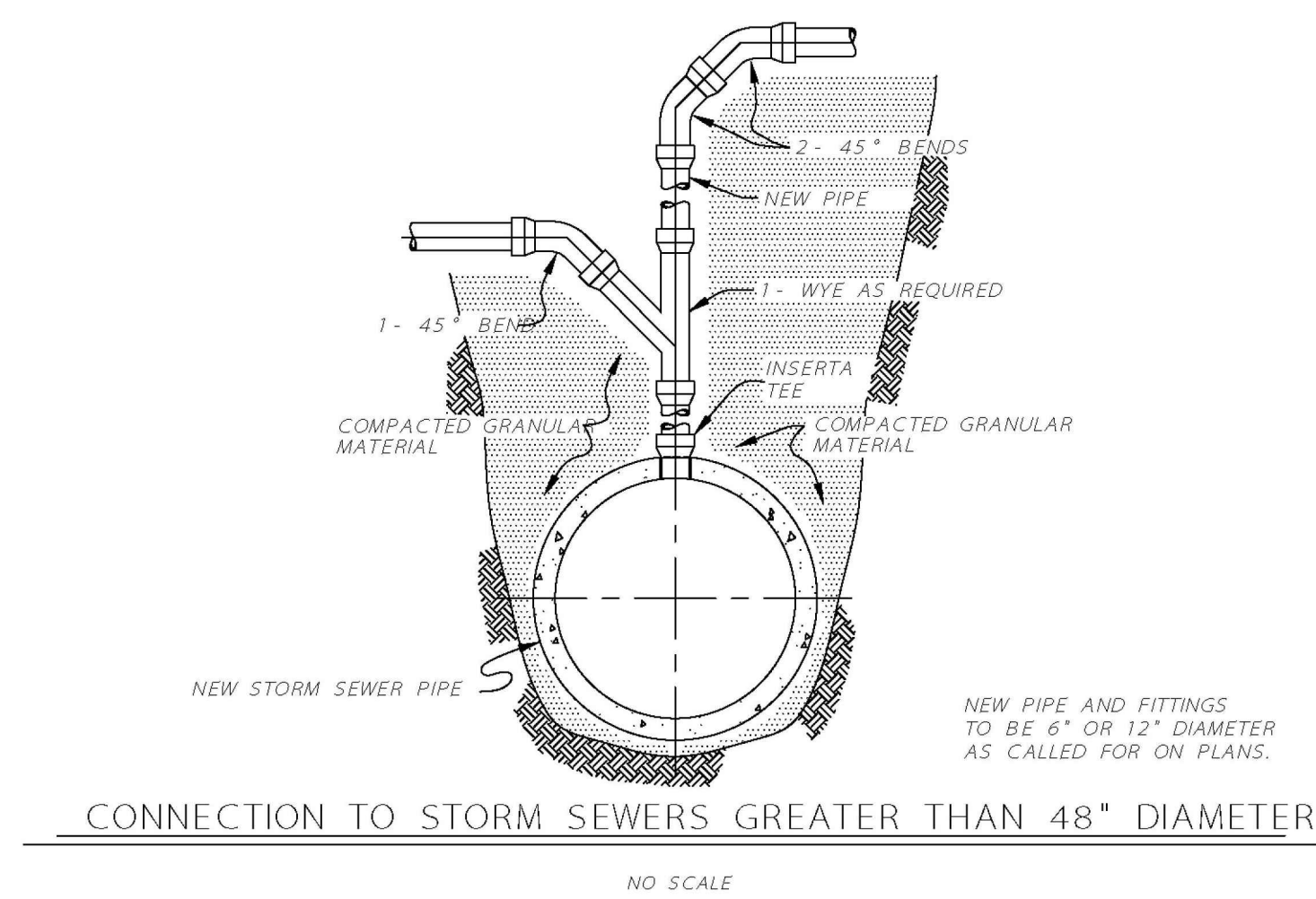
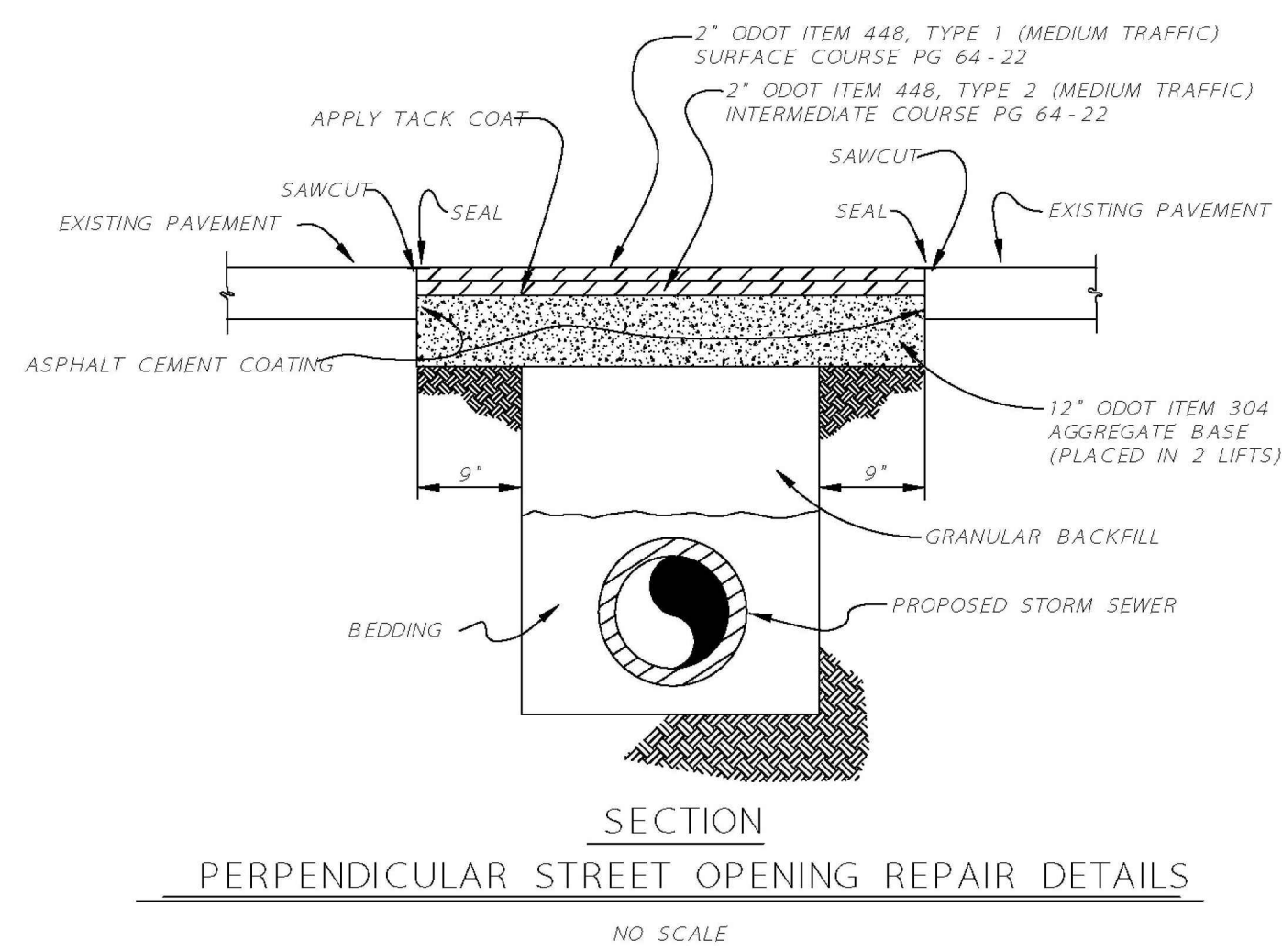
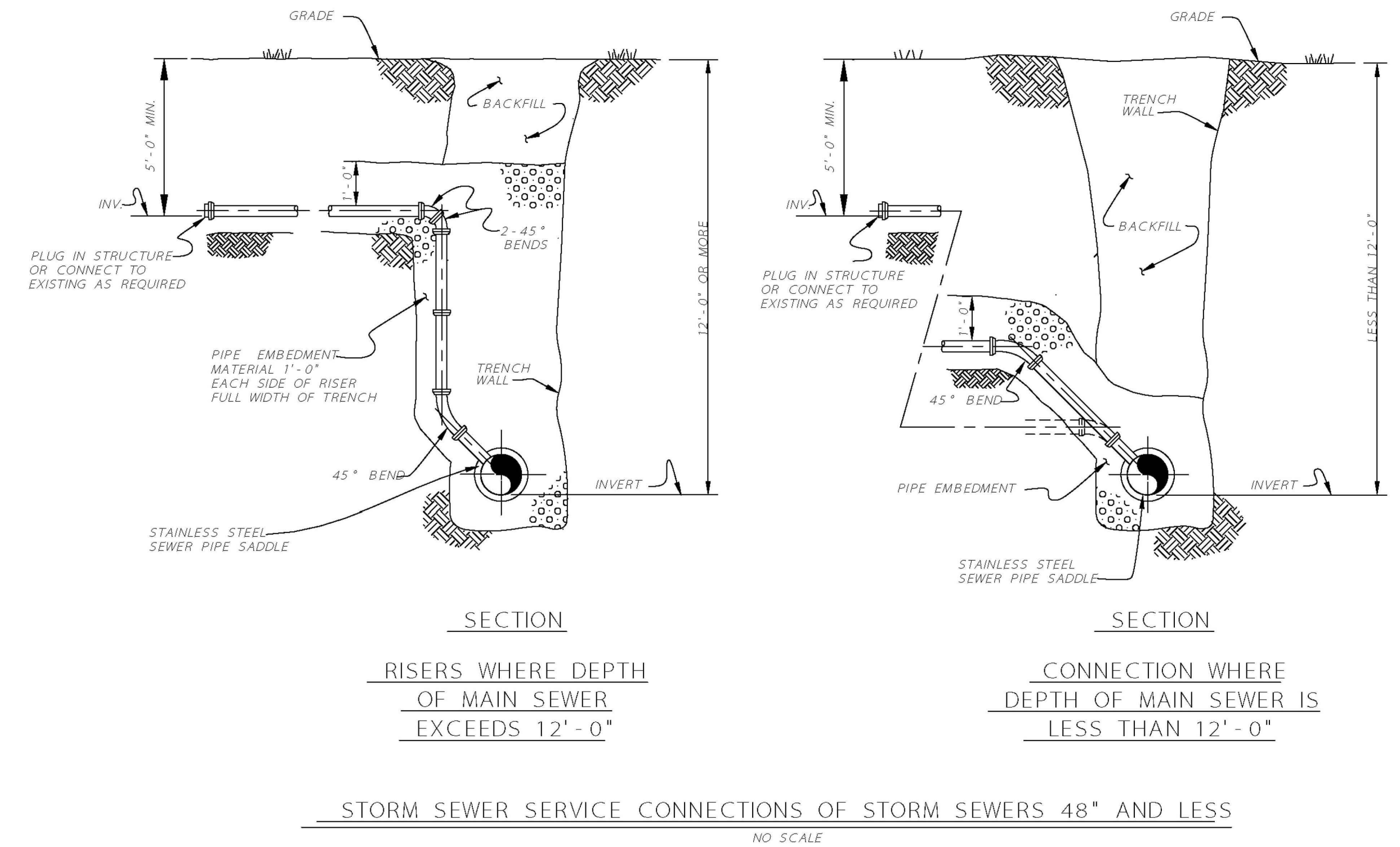
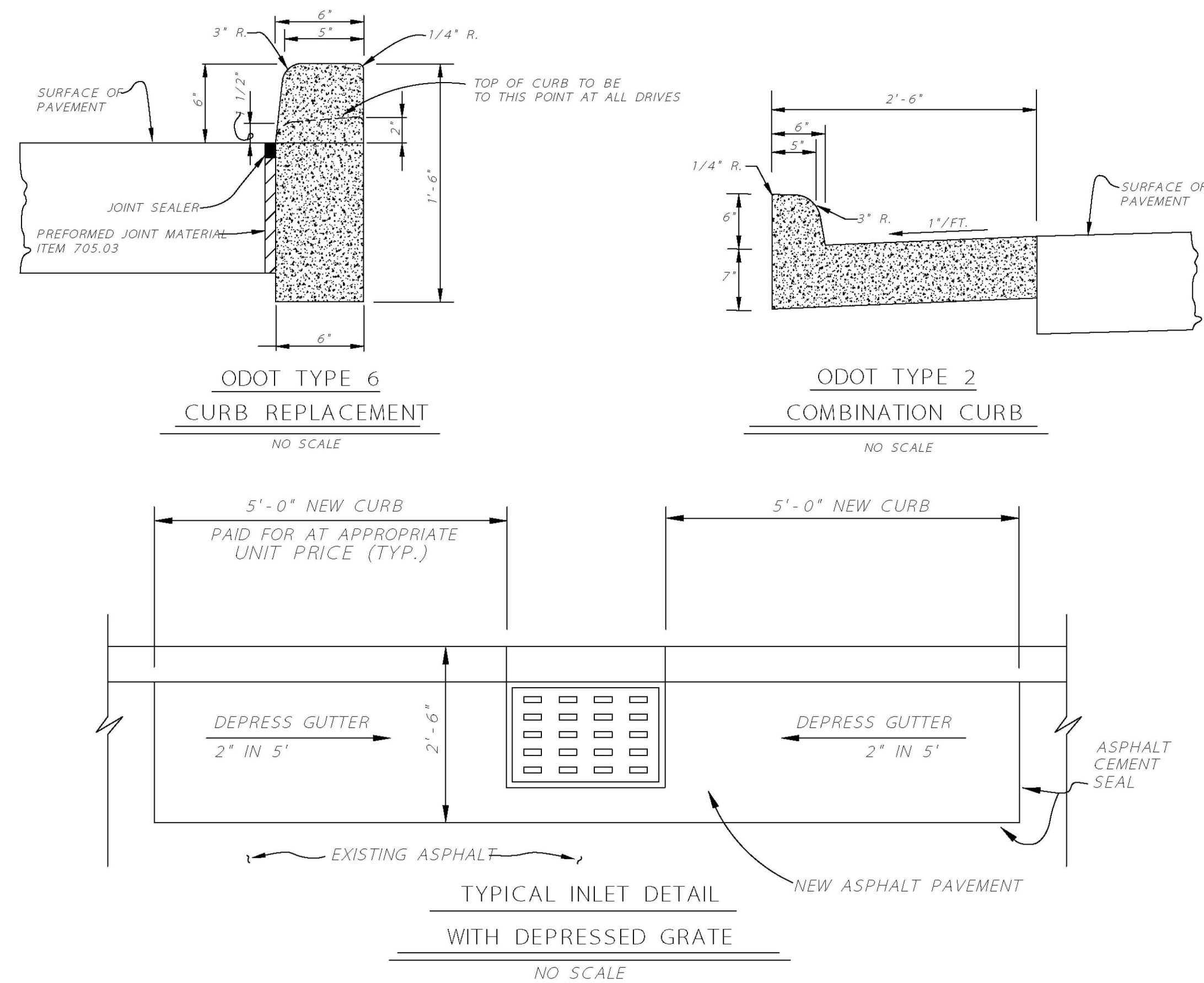
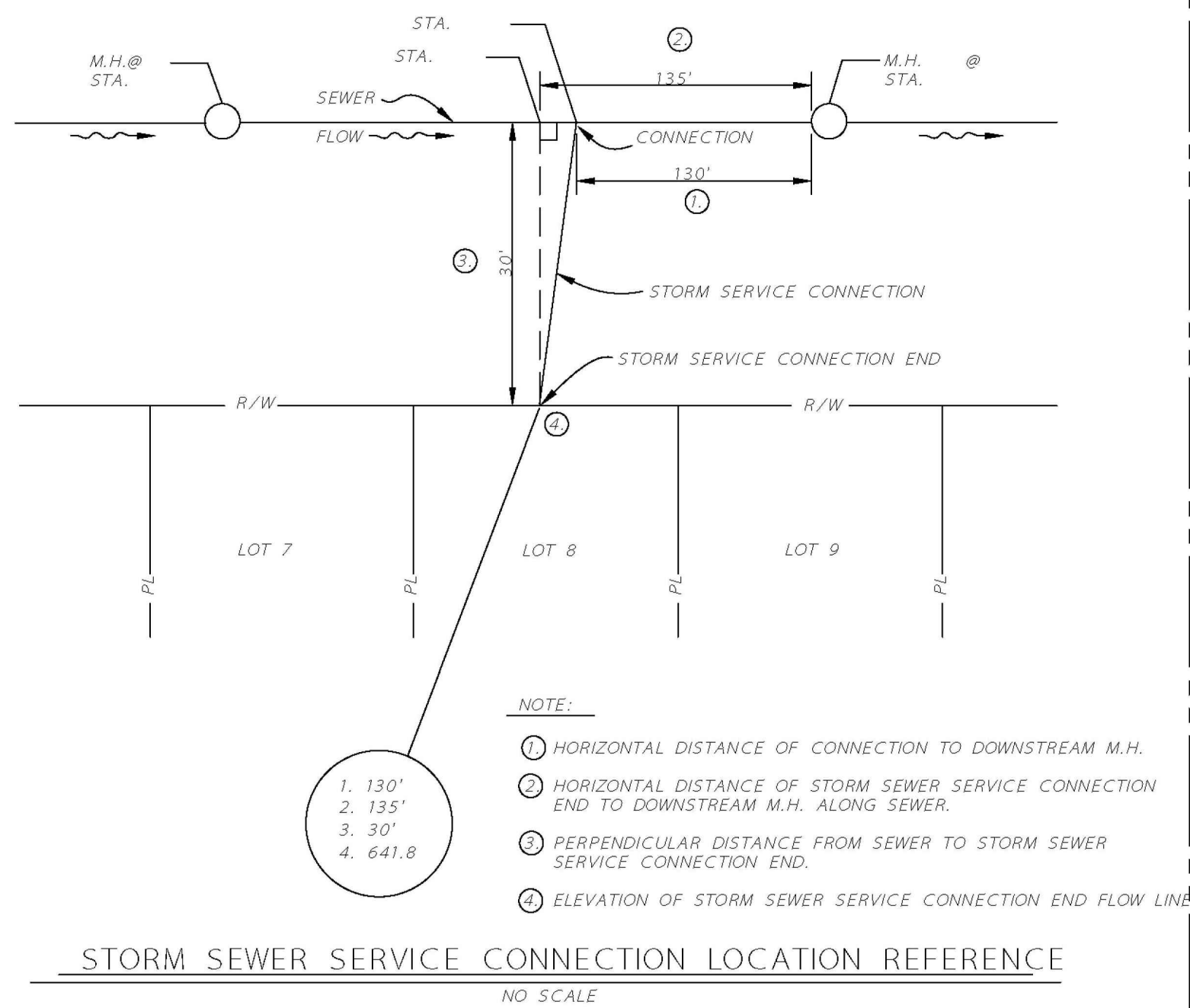
b. Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.

c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.

3.10 MAINTENANCE OF TRAFFIC

A. Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices.

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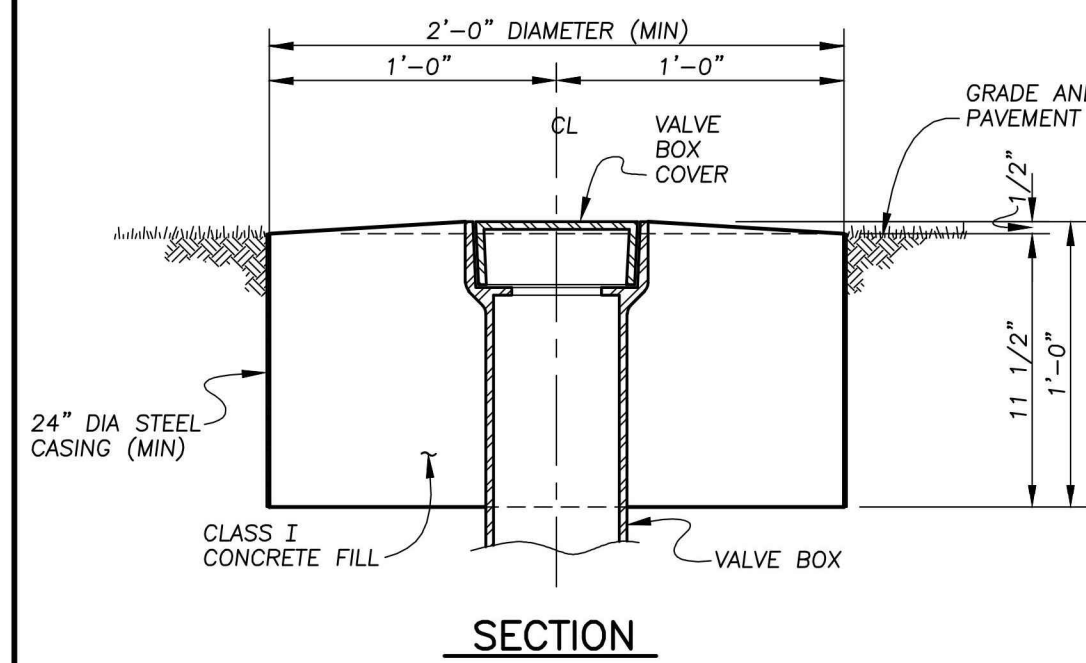
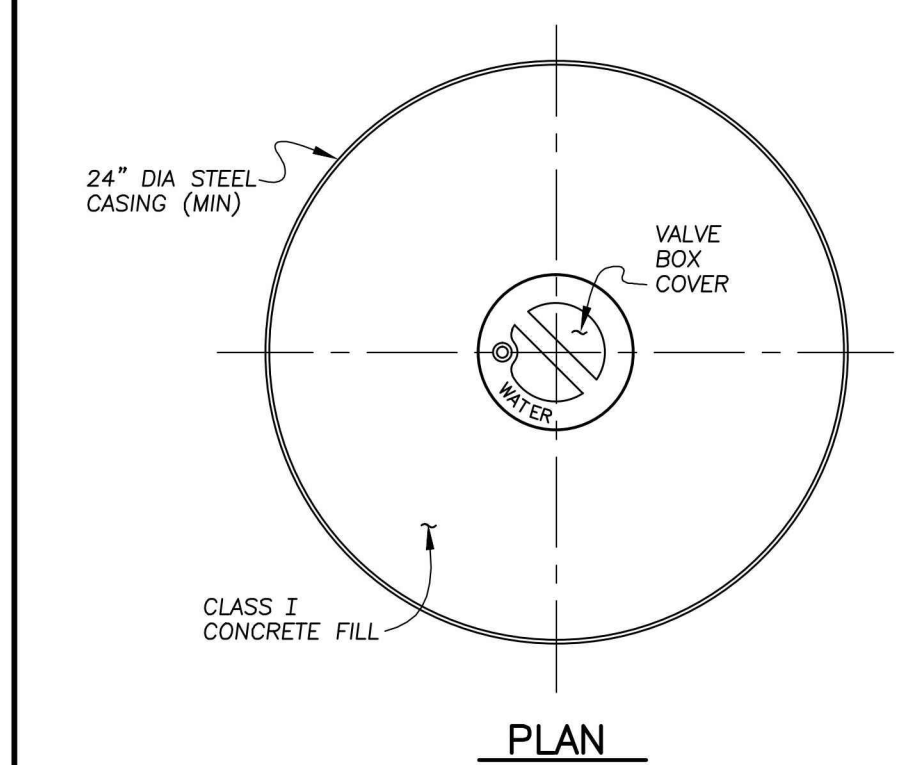


EAST JORDAN IRON WORKS, INC., CATALOGUE 1040
WITH SOLID LID TYPE B OR AS APPROVED; MACHINED
SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR
OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF
PERRYSBURG, OH" - "STORM" CAST INTO TOP.

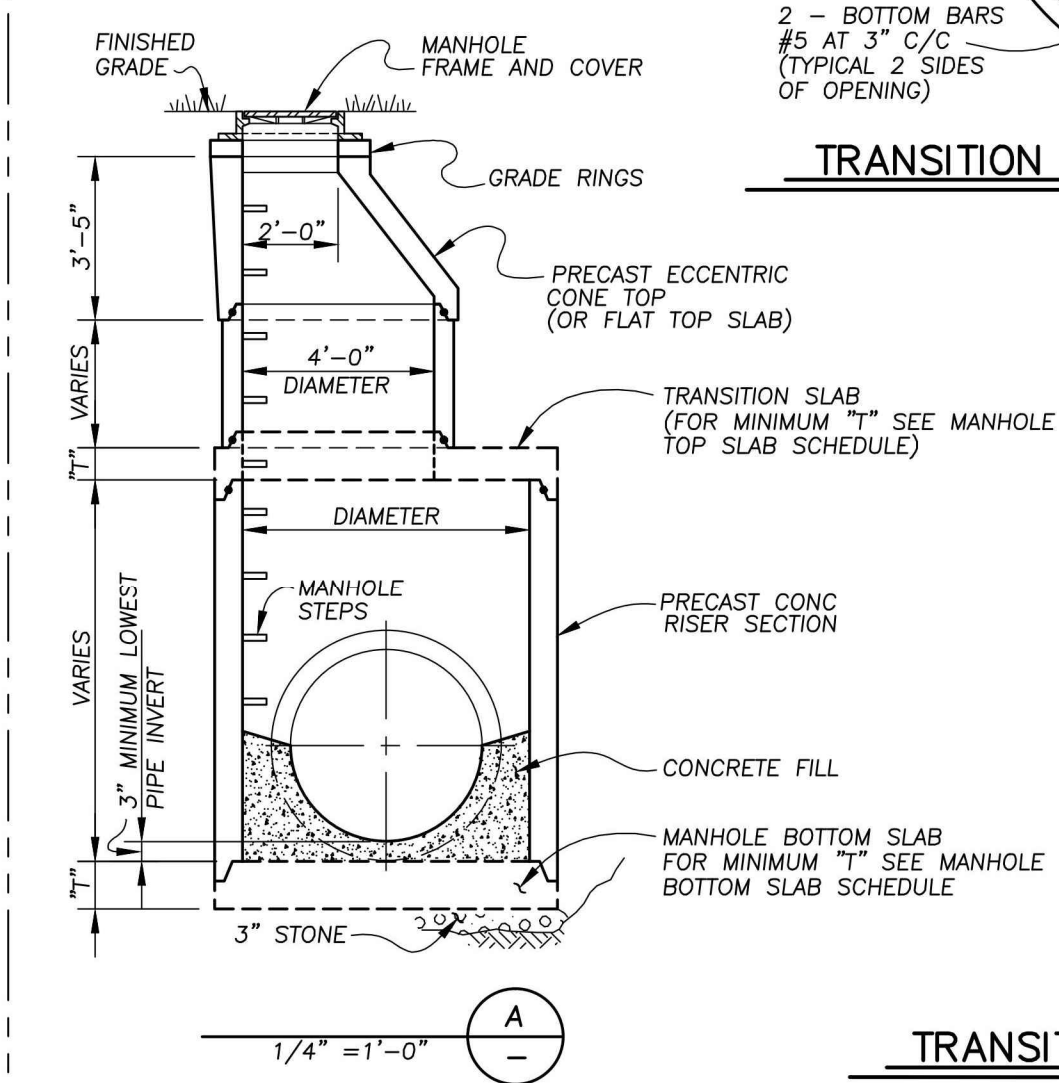
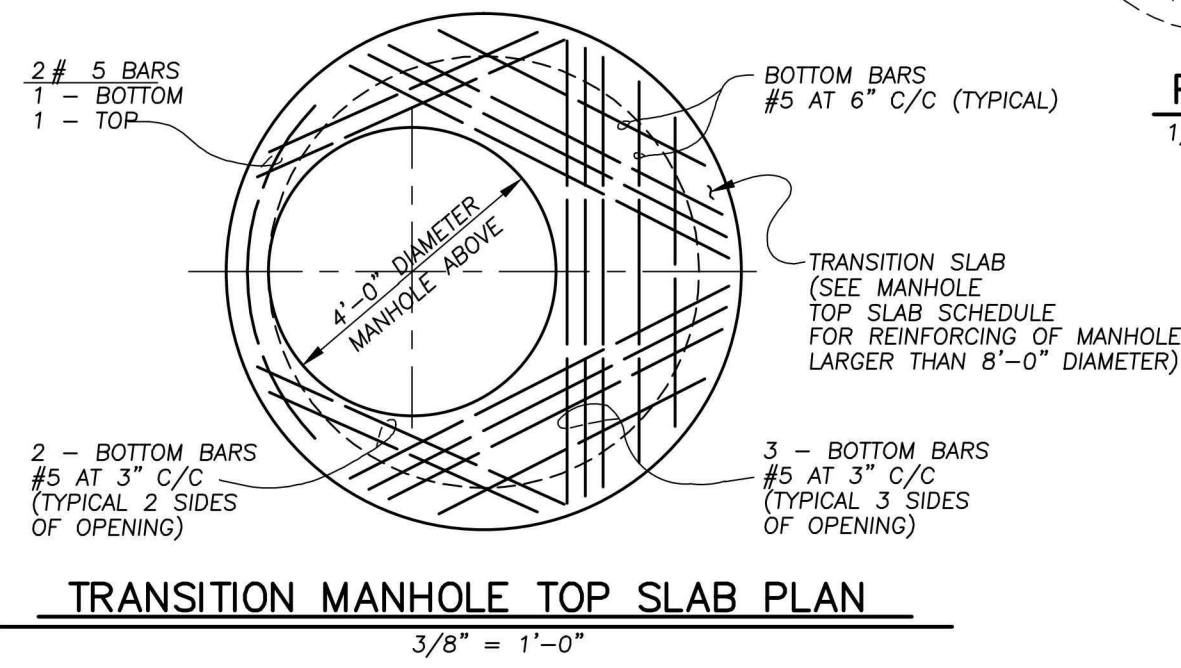
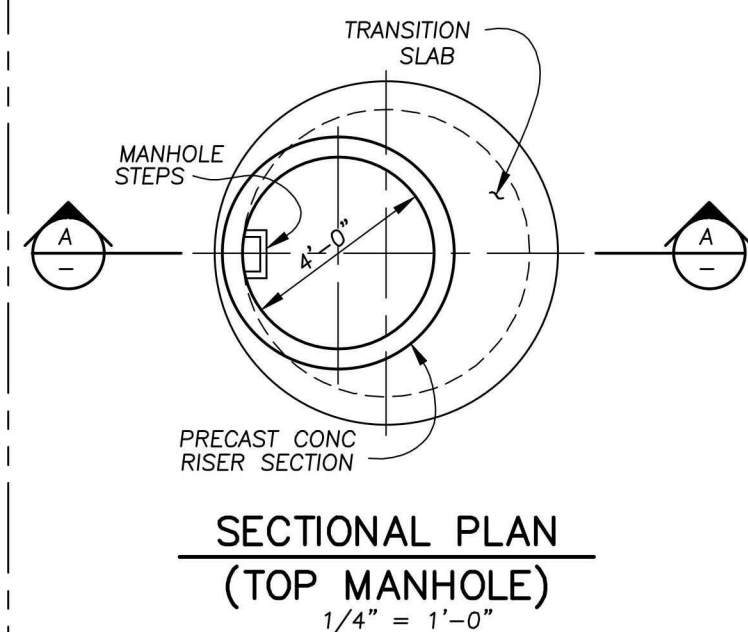
RECORD CONSTRUCTION 01/04/24

COVENTRY POINTE PLAT THREE
PAVEMENT AND STORM SEWER
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL

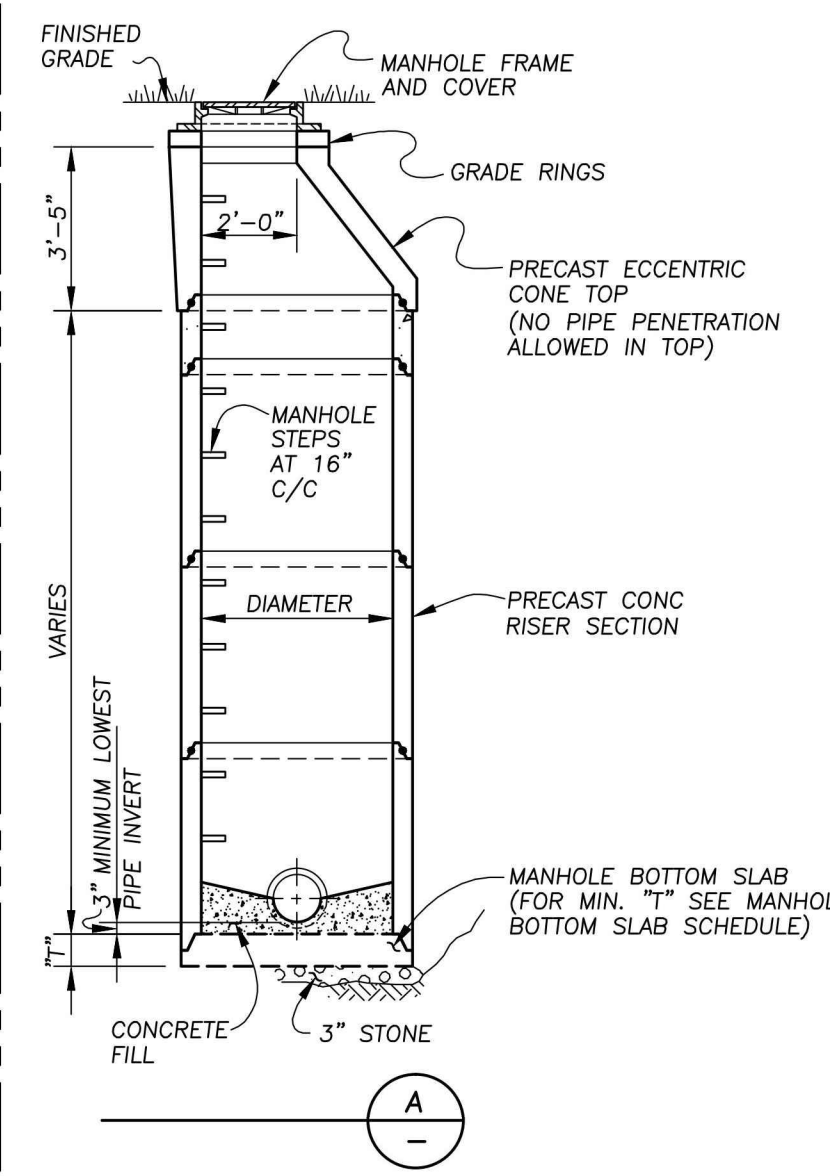
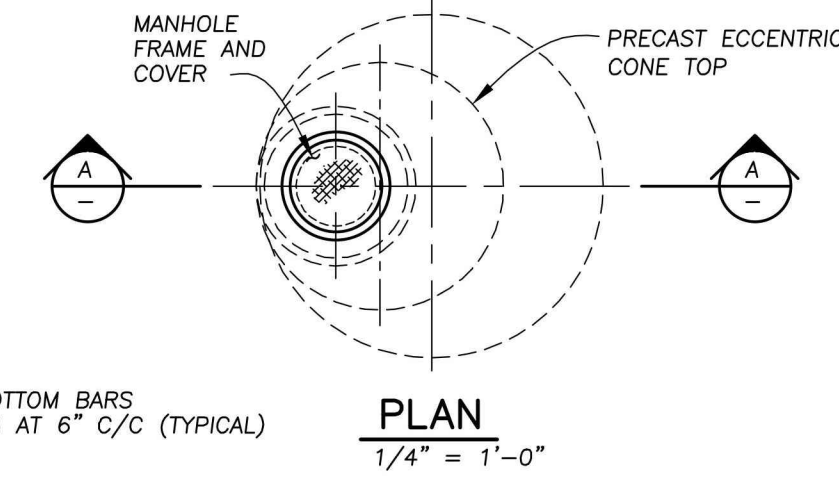
REVISED
DECEMBER 2015



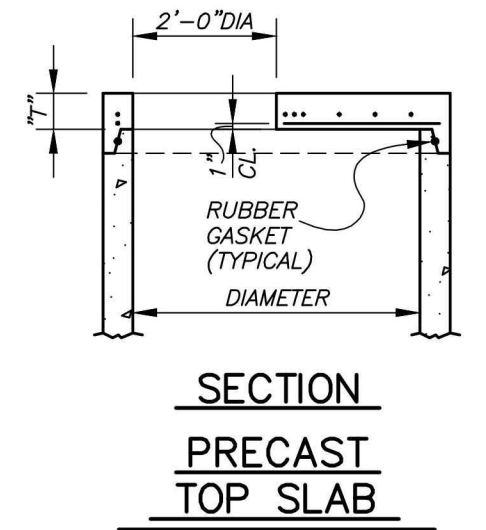
**WATER VALVE BOX
ENCASEMENT DETAIL**
1 1/2" = 1'-0"



TRANSITION MANHOLE DETAILS
1/4" = 1'-0"

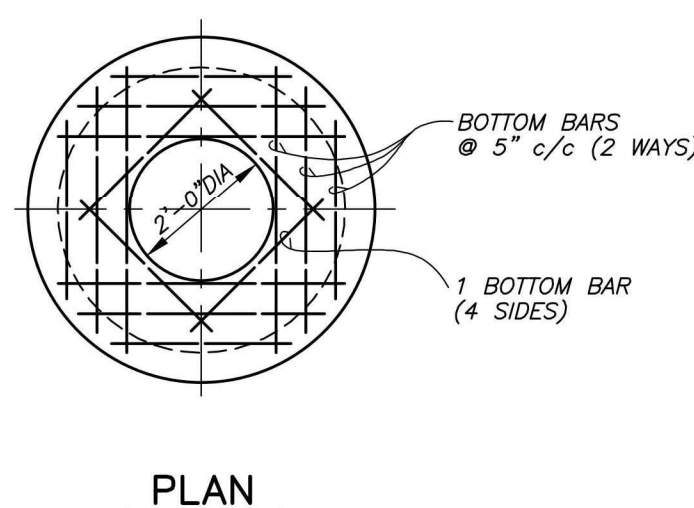
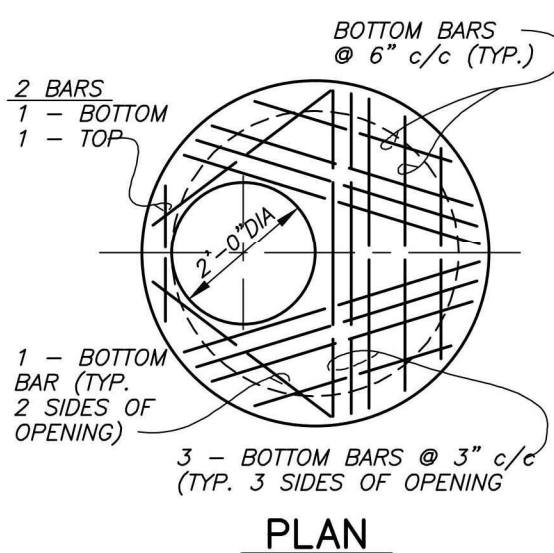


MANHOLE DETAILS
1/4" = 1'-0"

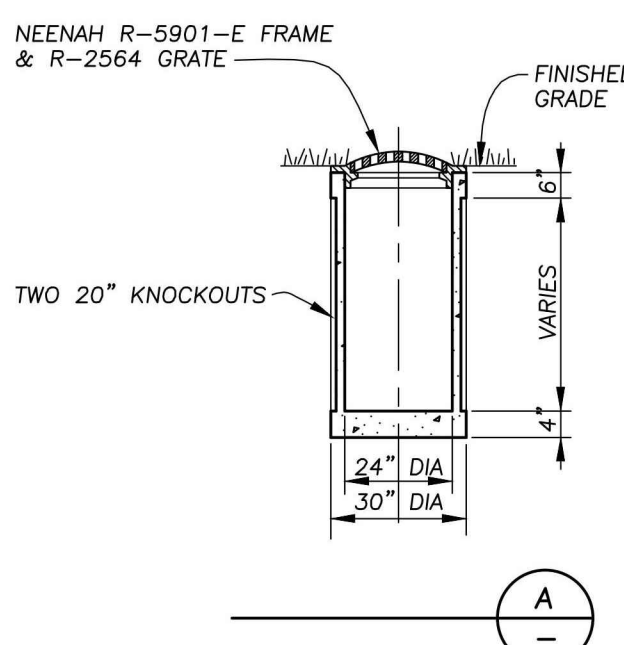
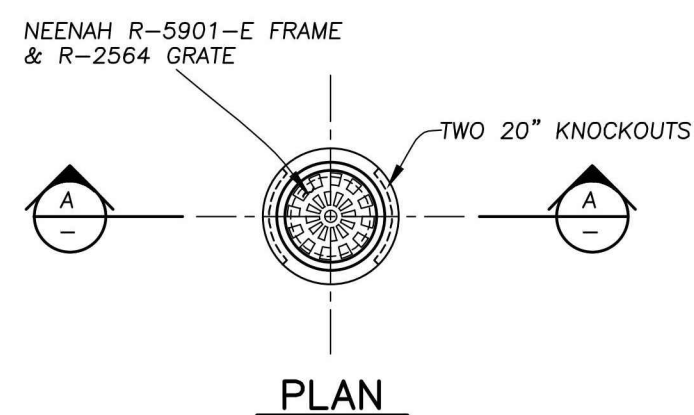


MANHOLE TOP SLAB SCHEDULE*			
MARK	DIAMETER	MIN. "T"	REINF. BAR SIZE
	4'-0"	6"	# 4
	5'-0"	8"	# 5
	6'-0"	8"	# 5
	7'-0"	8"	# 5
	8'-0"	10"	# 5
	10'-0"	10"	# 5

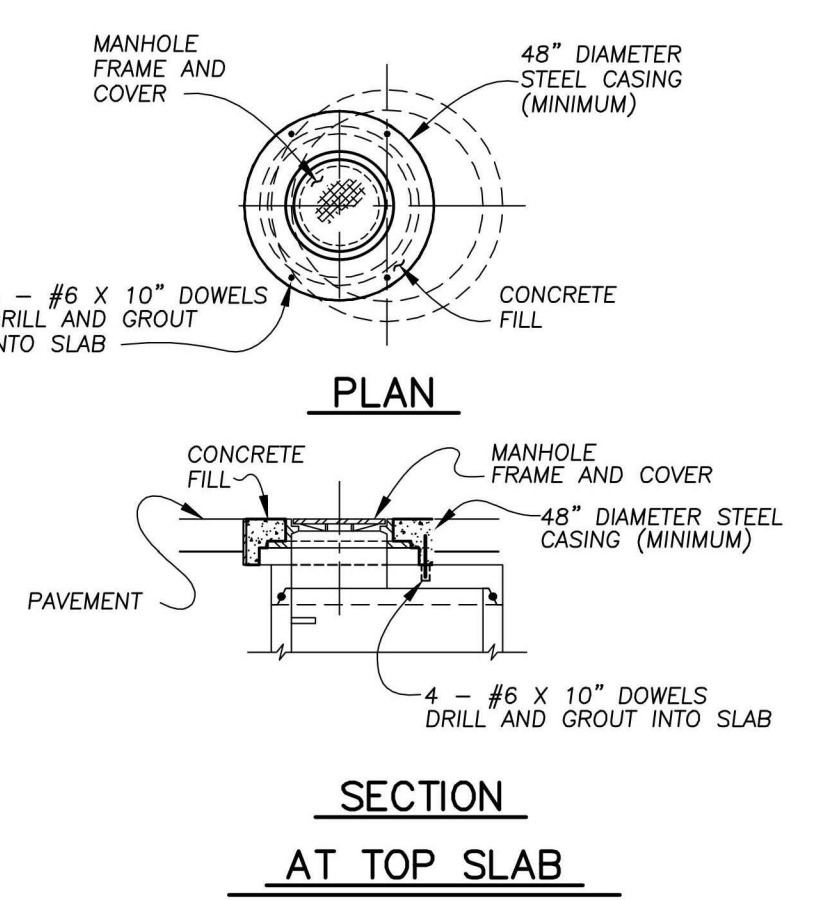
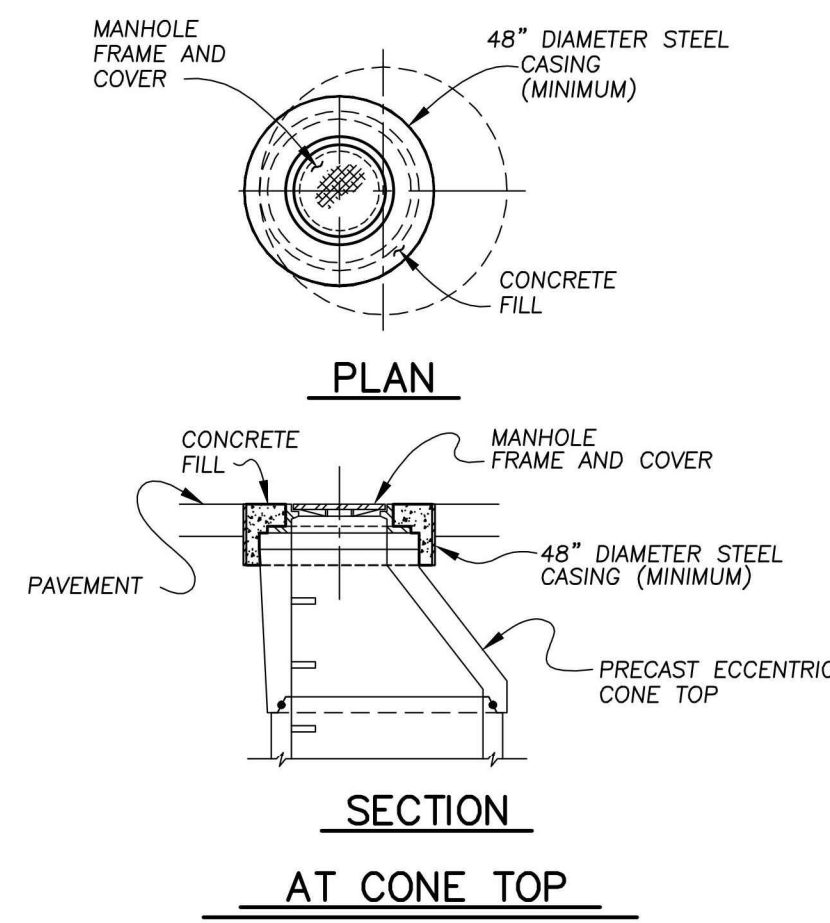
* IF DISTANCE FROM TOP OF FRAME TO TOP OF PIPE PENETRATION IS GREATER THAN 4'-4", A PRECAST ECCENTRIC CONE TOP MUST BE USED.



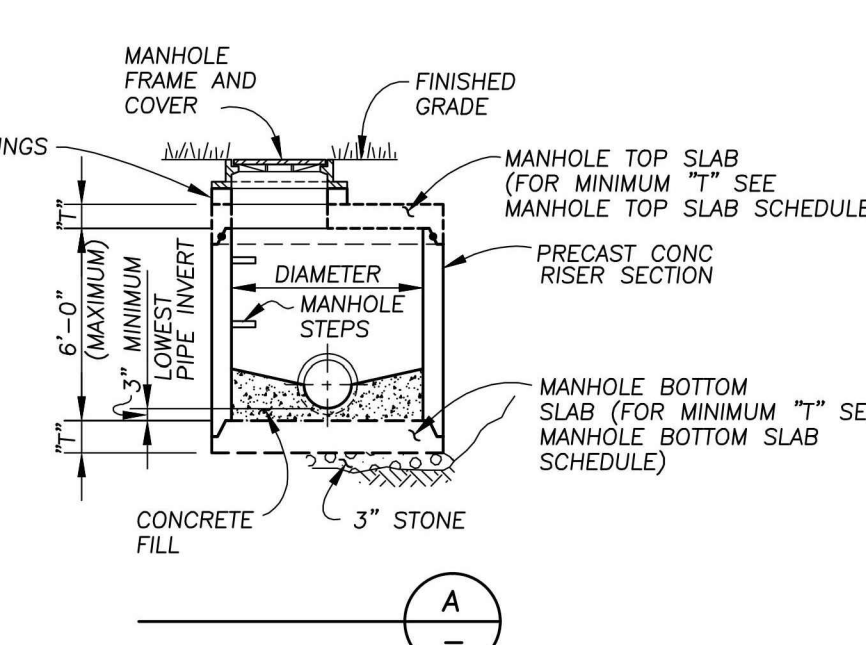
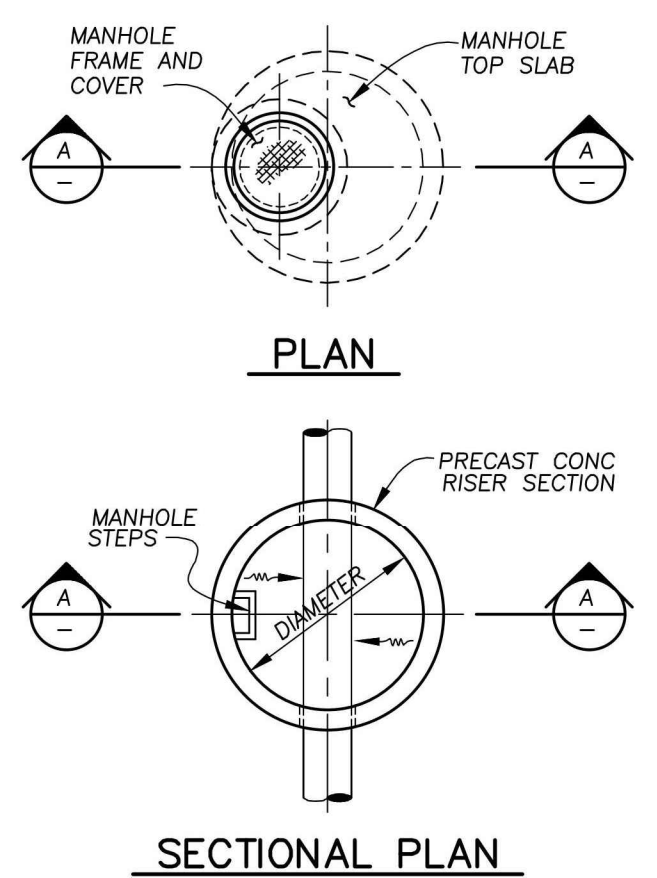
MANHOLE TOP SLAB DETAILS
3/8" = 1'-0"



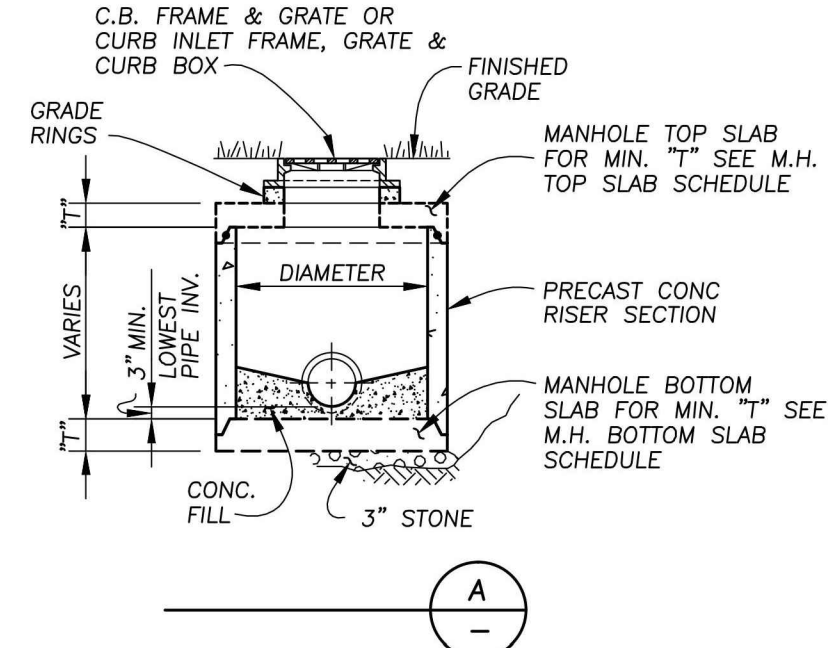
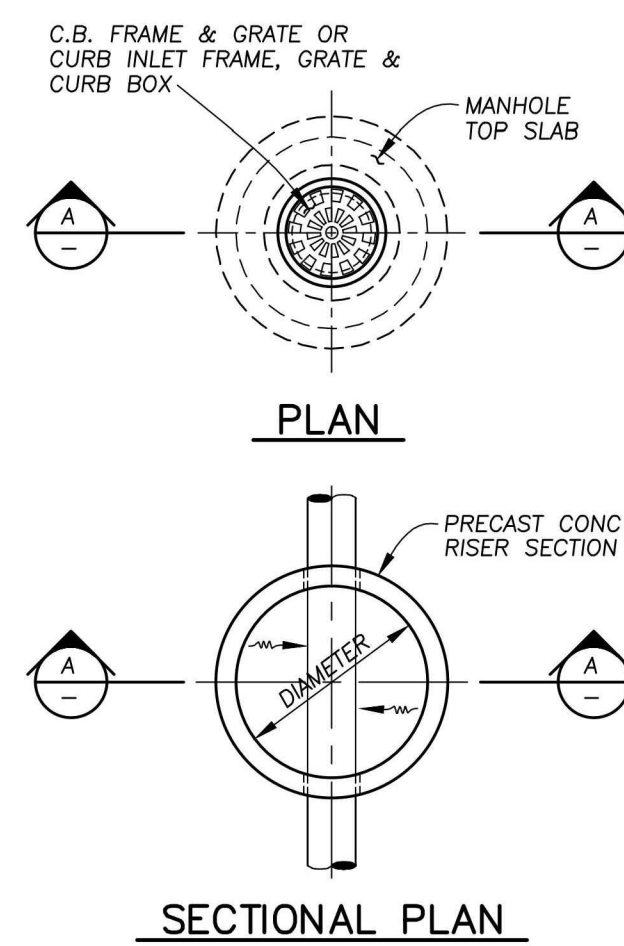
24" DIA REAR LAWN CATCH BASIN
1/4" = 1'-0"



MANHOLE FRAME ENCASEMENT DETAILS
1/4" = 1'-0"



SHALLOW MANHOLE DETAILS
1/4" = 1'-0"



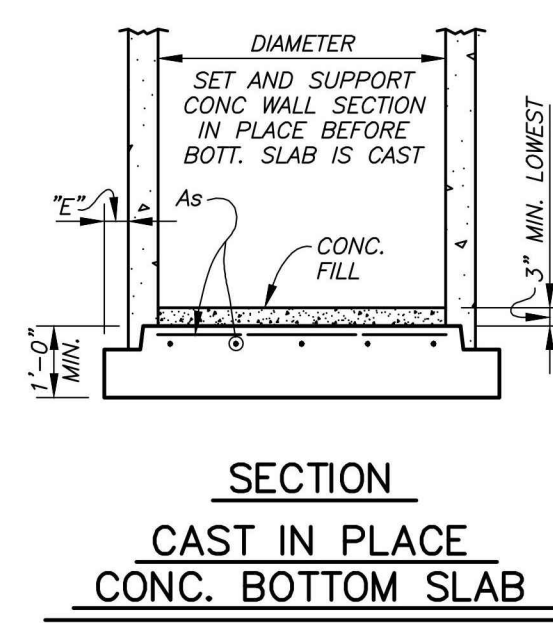
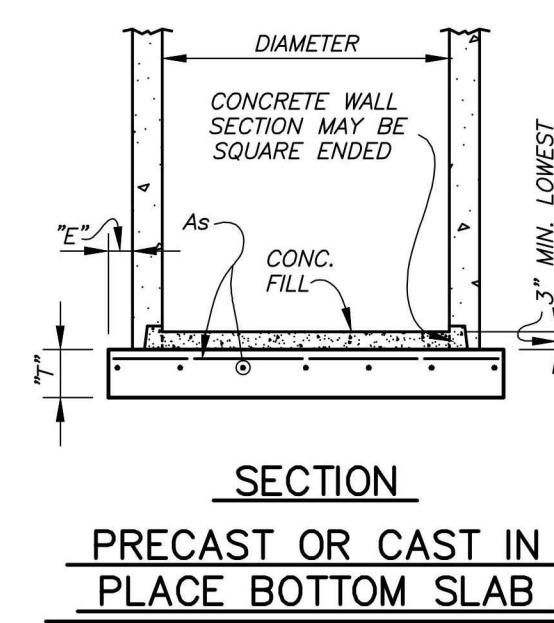
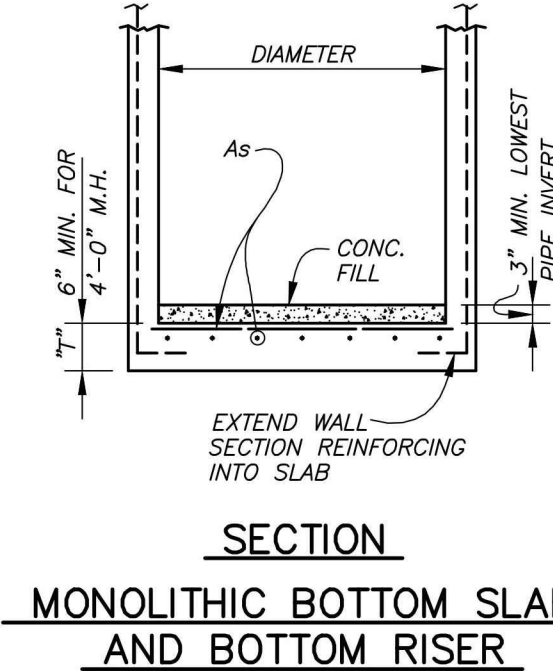
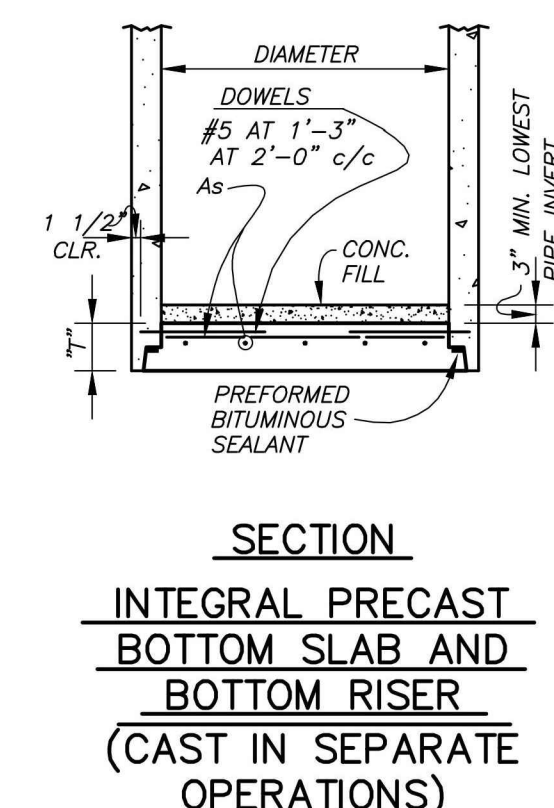
CATCH BASIN DETAILS
1/4" = 1'-0"

MANHOLE BOTTOM SLAB SCHEDULE				
MARK	DIAM.	MIN. "T"	MIN. "E"	MIN. As (each way)
	4'-0"	8"	4"	0.12 SQIN./FT.
	5'-0"	8"	6"	0.12 SQIN./FT.
	6'-0"	8"	6"	0.17 SQIN./FT.
	7'-0"	10"	8"	0.17 SQIN./FT.
	8'-0"	10"	10"	0.21 SQIN./FT.
	10'-0"	10"	10"	0.21 SQIN./FT.

NOTE: PLACE BOTTOM SLAB STEEL REINFORCEMENT IN TOP OF SLAB WITH 1 1/2" CONCRETE COVER.

CATCH BASIN SCHEDULE		
MARK	DIAMETER	REMARKS
	4'-0"	SEE M.H. TOP AND BOTTOM SLAB DETAILS ON THIS SHEET

- NOTES:**
1. TOP ELEVATIONS NOTED ON PLANS FOR CATCH BASINS IN CURB IS TOP OF GRATE AT FACE OF CURB.
 2. PROVIDE M.H. STEPS @ 16" c/c IN CATCH BASINS OVER 4' DEEP.



MANHOLE BOTTOM SLAB DETAILS
3/8" = 1'-0"

RECORD CONSTRUCTION 01/04/24

- GENERAL NOTES
1. REAR YARD DRAINAGE

All rear yard drainage swales shall be constructed in conjunction with pavement subgrade preparation. No public utilities shall be placed within the drainage and utility easements until the rear yard grading has been approved by the City of Perrysburg. All swales shall be restored after all utilities have been constructed, and then seeded and mulched per the seeding mixture included in the General Notes. Seeding and Mulching shall not be placed without approval of the City of Perrysburg.
2. ROOF DRAINS

Roof drains, foundation drains and all other clean water connections to the sanitary sewer are prohibited.
3. HAUL ROUTES

The Contractor shall maintain these routes in a condition acceptable to the City of Perrysburg during the life of the project. This maintenance includes the removal of mud, stone and other material hauled.
4. INSPECTION

Cost of inspection by the City of Perrysburg and the material samplings and testing shall be paid for by the Developer. Material sampling and testing shall be performed by a testing firm approved by the City of Perrysburg.
5. ROAD NAME SIGNS AND STOP SIGNS

Road name signs and stop signs will be placed by the City of Perrysburg at the expense of the Developer.
6. CURB RAMPS

Curb ramps shall be constructed at all locations where the sidewalk intersects the curb in accordance with the current ODOT Standard Roadway Construction Drawing No. BP-7.1 - "Curb Ramps With Truncated Domes". The curb drop at each location shall be installed by the Contractor at the time of curb construction. The walk and ramps shall be installed by the Home Builder, unless otherwise noted for installation by the Contractor.
7. EXISTING SEWERS

The Contractor shall conduct his operations so as to maintain storm sewer flows at all times and shall promptly replace in kind any storm sewers disturbed by construction to the satisfaction of the City of Perrysburg. The cost of making inspections and any repairing or correcting of sewers as a result of construction operations shall be included in the unit price for the pertinent bid item.
8. UNDERGROUND UTILITIES AND ADJUSTMENTS

The location of existing utilities shown on these plans is approximate. The exact location shall be verified by the Contractor. The Contractor shall notify each respective utility company at least seven (7) days prior to the time of construction. Any and all adjustments or extensions required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on the plans.
9. UTILITY OWNERSHIP

The following is a list of the owners of utilities that may be within the limits of construction.

Waterville Gas & Oil
11 N. River Road
Waterville, Ohio 43566
Phone: 419-878-4972

Buckeye Cablesystem
5566 Southwyck Boulevard
Toledo, Ohio 43614
Phone: 419-724-9810

Northwestern Water & Sewer District
12560 Middleton Pike
Bowling Green, OH 43402
Phone: 419-354-9090

Columbia Gas of Ohio
Toledo Engineering Group
2901 E. Manhattan Blvd.
Toledo, OH 43611
Phone: 419-539-6066

Columbia Pipeline Group/Transcanada
Findlay, Ohio
Phone: 419-722-1888

AT&T
130 North Erie St.
Toledo, Ohio 43604
Phone: 419-245-7023

Toledo Edison Company
6099 Angola Road
Holland, Ohio 43528
Phone: 419-249-5900

Ohio Utilities Protection Agency
1-800-362-2764

City of Perrysburg
201 W. Indiana Ave.
Perrysburg, Ohio 43551
Phone: 419-872-8050 (WPC Division)
Phone: 419-872-8050 (Water Division)
Phone: 419-872-8020 (Street Division)
Phone: 419-872-7880 (Engineering)
10. SEEDING, MULCHING AND FERTILIZING

All areas within right-of-way lines, the rear yard drainage swales, and the pond area above the aggregate slope protection shall be seeded, mulched and fertilized in accordance with ODOT Item 659 using the seed mixture as follows: 90% perennial ryegrass (lolium perenne) 10% alsike clover (trifolium hybridum).
11. MAINTENANCE OF TRAFFIC

Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, the Contractor shall provide at least two flaggers and other traffic control devices in accordance with the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways. During periods of road closure on Fort Meigs Road, all signage for road closure and detour route to be included in Item Spec. Maintaining Traffic.
12. SUBGRADE IMPROVEMENT, UNDERCUT & BACKFILL WITH STONE

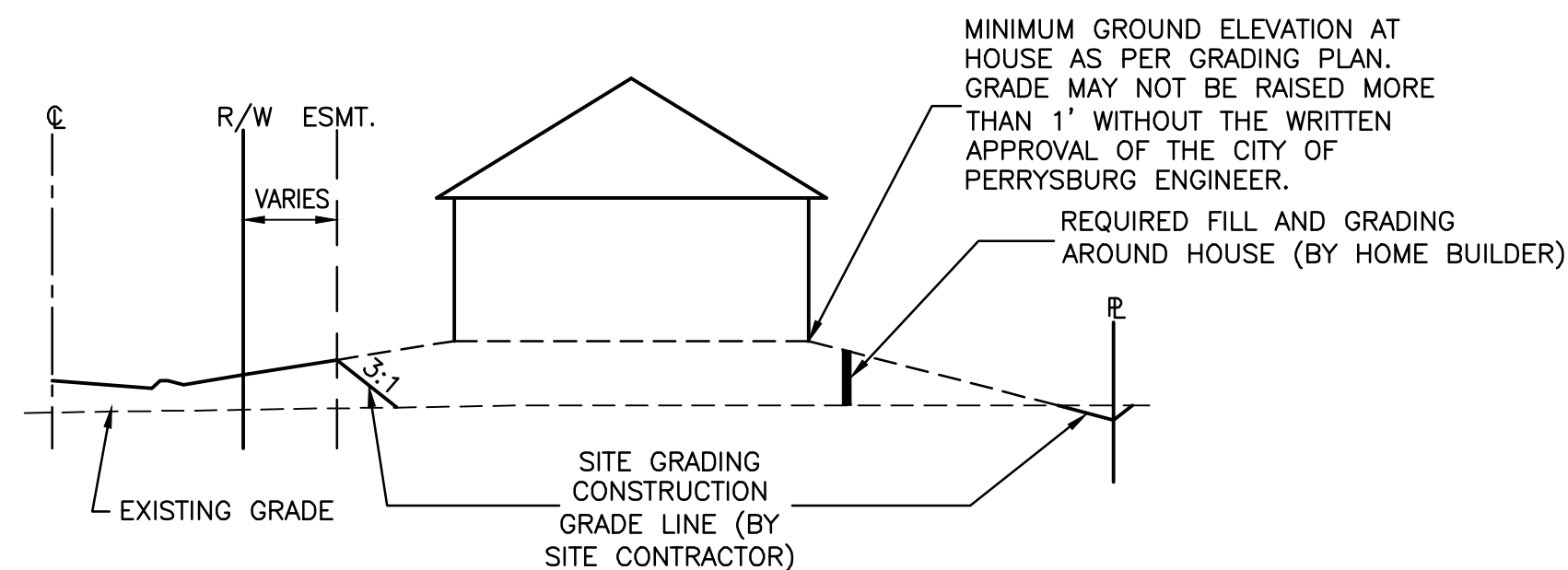
A contingency of 700 cubic yards of subgrade improvement has been carried to the general summary for use as directed by the City of Perrysburg. A minimum undercut shall be 6". Acceptable stone materials will be Number 1 and Number 2 size aggregate and ODOT Item 304 - Aggregate Base. Compaction shall be equal to or exceeding 95% of maximum modified Proctor dry unit weight (ASTM D-1557).
13. UNDERDRAINS

A contingency quantity of 1000 lineal feet of Item 605, 6" Shallow Pipe Underdrains, has been carried to the General Summary for use as directed by the City of Perrysburg. Although the Contractor may choose to order and/or purchase this item for his convenience, only the amount actually placed as directed by the City of Perrysburg will be included for pavement.

14. STAKING RESPONSIBILITY
- Initial construction staking for the project, including the sanitary sewer and waterline, will be provided by Feller, Finch & Associates, Inc. Three (3) days advance notice shall be provided for the requested staking. Any restaking of damaged initial staking will be performed at the expense of the contractor.
15. EXCAVATION AND EMBANKMENT, AS PER PLAN
- The price bid for Item 203, Excavation, as per plan, and Item 203, Embankment, as per plan, shall be full compensation to successfully complete all excavation and embankment operations as indicated on the site grading plan and by the plan cross sections (See site volume table on Sheet 7). The Contractor shall accept the plan quantities as determined by the Engineer for payment. The burden of proof for a plan quantity discrepancy shall be on the Contractor. Fill material required to complete the site grading shall be obtained from the excess sewer and waterline trench excavation dirt; and the pond excavation dirt. All excess excavated material shall be placed on site as directed by the Owner.
- Topsoil shall be removed from all roadway areas. Based on a topsoil thickness of 6", an estimated quantity of 250 cubic yards has been included in the excavation and embankment quantities for additional removal and replacement of topsoil in all areas where the bottom of the aggregate base course is above the existing ground surface.
- The excavated on-site soils that are free of organic matter, excessive moisture, rock or stone fragments larger than three inches in diameter and debris may be used as fill material. Fill material should not be frozen nor be placed on a frozen base. The fill material required to achieve the design elevations should be placed in uniform loose layers of not more than eight (8) inches in thickness. Compaction of embankment areas shall be at least 100% as determined by the Standard Proctor Test. Suitable embankment materials also include ODOT Item 703.11 Type 1.
16. LAWN FERTILIZER REQUIREMENTS
- The lawn installer shall certify that fertilizer application rates will not be applied in excess of Phosphorus loading rate necessary to establish a new lawn.
- One year after completion of construction, landscaping maintenance provider is required to certify that fertilizer application rates did not exceed the Phosphorus loading rate necessary to establish new lawn and landscaping.

GENERAL SUMMARY

ITEM	QTY.	UNIT	DESCRIPTION
ROADWAY			
201	LUMP	LUMP	CLEARING AND GRUBBING
202	29	FT.	STANDARD GUARDRAIL BARRICADE, REMOVE FOR RE-USE
202	27	SQ. YDS.	PAVEMENT REMOVED
202	20	FT.	CURB AND GUTTER REMOVED
203	849	CU. YDS.	EXCAVATION, AS PER PLAN
203	1,917	CU. YDS.	EMBANKMENT, AS PER PLAN
204	2,390	SQ. YDS.	SUBGRADE COMPACTION
623	4	EACH	MONUMENT ASSEMBLY (O.D.O.T. STD. DWG RM-1.1)
606	29	FT.	STD. GUARDRAIL BARRICADE, REBUILT
608	5,183	SQ. FT.	4" AND 6" CONCRETE WALK (BY OTHERS)
608	1,755	SQ. FT.	4" AND 6" CONCRETE WALK (BY CONTRACTOR)
PAVEMENT			
304	678	CU. YDS.	AGGREGATE BASE
449	131	CU. YDS.	ASPHALT CONCRETE, INTERMEDIATE COURSE, PG 64-22
449	90	CU. YDS.	ASPHALT CONCRETE, SURFACE COURSE, PG 64-22
407	94	GALLONS	TACK COAT
DRAINAGE			
611	27	FT.	12" CONDUIT, TYPE B, AS PER PLAN
611	44	FT.	15" CONDUIT, TYPE B, AS PER PLAN
611	185	FT.	6" CONDUIT, TYPE C, AS PER PLAN
611	333	FT.	12" CONDUIT, TYPE C, AS PER PLAN
611	500	FT.	15" CONDUIT, TYPE C, AS PER PLAN
611	218	FT.	21" CONDUIT, TYPE C, AS PER PLAN
611	4	EACH	SHALLOW STORM MANHOLE (4' DIA.)
611	2	EACH	CURB INLET
611	4	EACH	YARD CATCH BASIN
605	1,000	FT.	6" SHALLOW PIPE UNDERDRAINS, AS PER PLAN (CONTINGENCY)
SIGNING AND STRIPING			
630	3.0	SQ. FT.	SIGN, FLAT SHEET, TYPE STD.
630	23.5	FT.	GROUND MOUNTED SUPPORT NO. 3 POST
SOIL EROSION & SEDIMENT CONTROL			
832	144	FT.	INLET PROTECTION FILTER (OR APPROVED EQUAL)
832	1,880	FT.	FILTER FABRIC FENCE
SPEC.	2	EACH	CURB INLET SEDIMENT FILTER
SPEC.	1	EACH	GRAVEL CONSTRUCTION ENTRANCE
659	3,100	SQ. YD.	SEEDING & MULCHING (R/W AND SWALES)
659	17,090	SQ. YD.	CONSTRUCTION SEEDING & MULCHING (LOT AREAS-BY OTHERS)
659	0.28	TONS	COMMERCIAL FERTILIZER (12-12-12) (20 LBS./1,000 SQ. FT.)
SPEC.	LUMP	LUMP	CONCRETE WASHOUT AREA
SPEC.	LUMP	LUMP	BASIN OUTLET STRUCTURE
SPEC.	LUMP	LUMP	FAIRCLOTH SKIMMER



LOT GRADING

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF WAY, REAR YARD SWALES, AND ALL DISTURBED AREAS WITHIN EXISTING CITY RIGHTS OF WAY.

BENCH MARK DATA

WOOD COUNTY BENCH MARK

MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT SOUTHWEST CORNER OF THE INTERSECTION OF HULL PRAIRIE ROAD & FIVE POINT ROAD.

ELEVATION 650.10

SITE BENCH #201

MAG NAIL SET IN WEST FACE OF 2ND POWER POLE SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

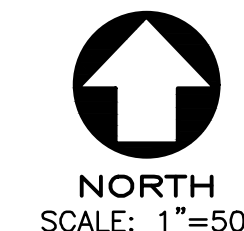
ELEVATION 651.45

SITE BM #202

MAG NAIL SET IN WEST FACE OF 1ST POWER POLE NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08

EASEMENT ABBREVIATIONS			
S.E.		SANITARY	EASEMENT
D.U.E.		DRAINAGE & UTILITY	EASEMENT
U.T.E.		UTILITY & TOLEDO EDISON	EASEMENT



FELLER, FINCH & ASSOCIATES, INC.			
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		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869D03A1

LEGEND

EXISTING GROUND ELEVATIONS

EXISTING CONTOURS. 000

PROPOSED ELEVATIONS (00.0)

PROPOSED GROUND ELEVATIONS AT HOUSE . . (00.0)

PROPOSED = EXISTING (00.0E)

PROPOSED TOP OF WALK ELEVATIONS. (00.0W)

PROPOSED RIM ELEVATIONS (00.0R)

ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.

ALL PAVEMENT GRADES ARE TOP OF CURB.

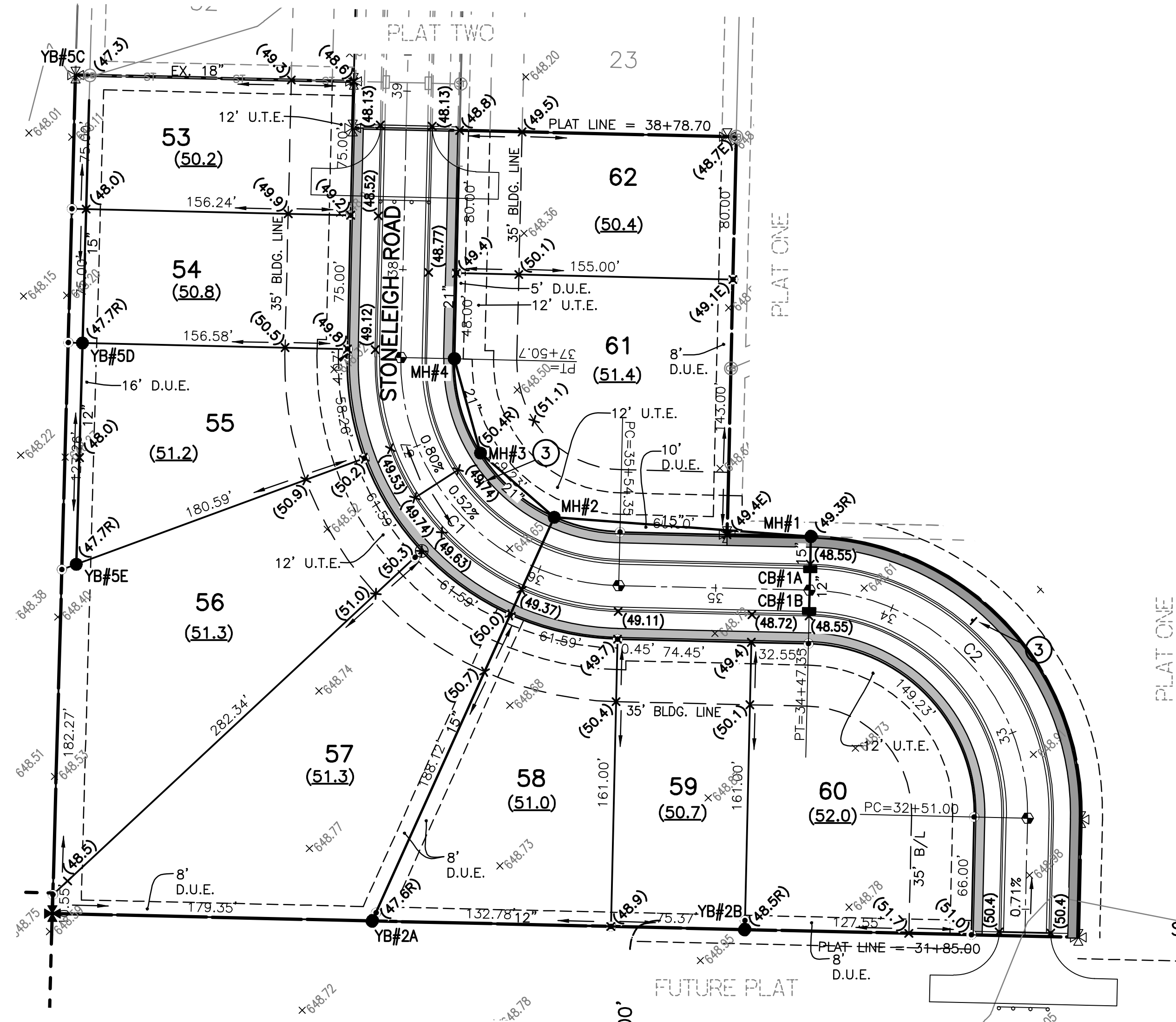
- ⊙ = IRON PIN (BY SURVEYOR)
- ⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
- ⊗ = EXISTING MONUMENT ASSEMBLY
- ⊗ = MONUMENT ASSEMBLY (WOOD COUNTY, TYPE A) BY SURVEYOR
- ▬ = CONCRETE WALK & RAMPS BY OTHERS.
- ▬ = CONCRETE WALK BY CONTRACTOR.

STREET SIGN DATA

LOCATION	STATION	SIDE	PROPOSED ① "STREET NAME" SIGN PERRYSBURG STANDARD	PROPOSED ② R1-1-30 STOP (30" X 30")	PROPOSED ③ R7-1 NO PARKING ANYTIME W/ 2 WAY ARROW (12" X 18")
STONELEIGH RD.	33+60	RT.			1 (1.50 SF)
STONELEIGH RD.	36+60	RT.			1 (1.50 SF)
TOTAL					2 (3.0 SF)

EX. NORTH DETENTION POND DATA

- 100 YEAR WATER ELEVATION = 646.20
- STORAGE VOLUME REQUIRED = 122,990 CU. FT.
- STORAGE VOLUME PROVIDED = 125,699 CU. FT.
- NORMAL WATER ELEVATION = 642.50



SITE VOLUME TABLE (UNADJUSTED)

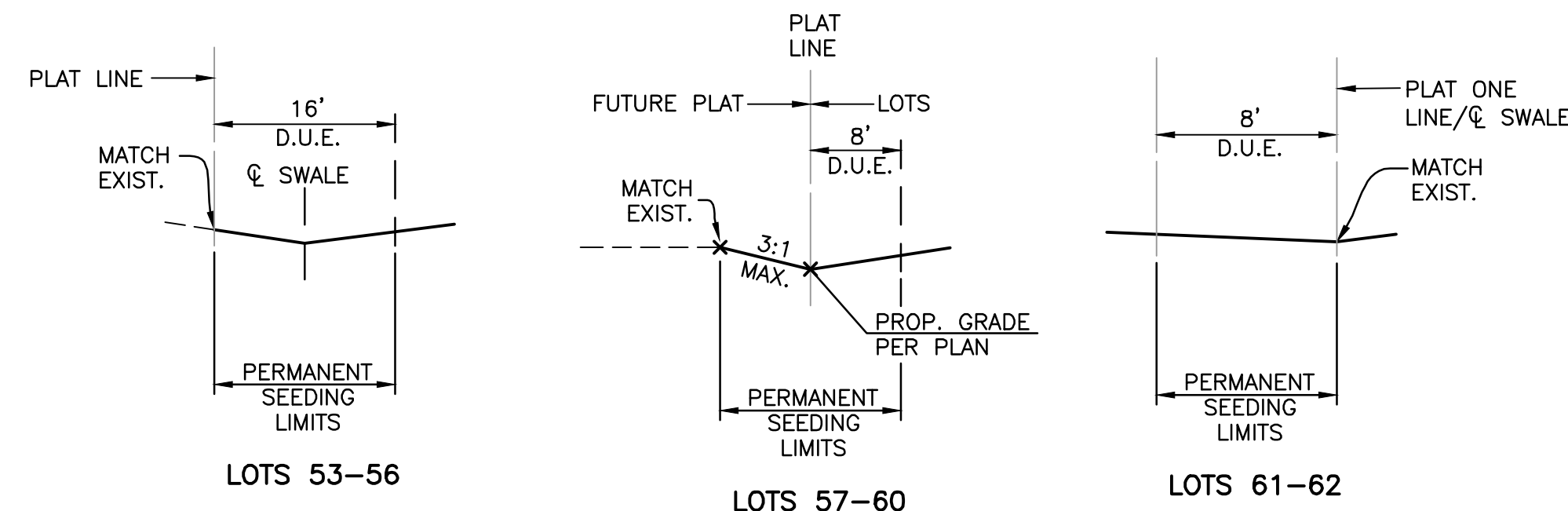
	Cut yards	Fill yards	Net yards
ROADWAY/LOTS	599	1,667	1,068(F)
TOPSOIL	250	250	0
TOTAL	849	1,917	1,068(F)

SITE ZONING DATA

LOCATION: CITY OF PERRYSBURG
ZONING CLASSIFICATION: R-3

MINIMUM SETBACKS:

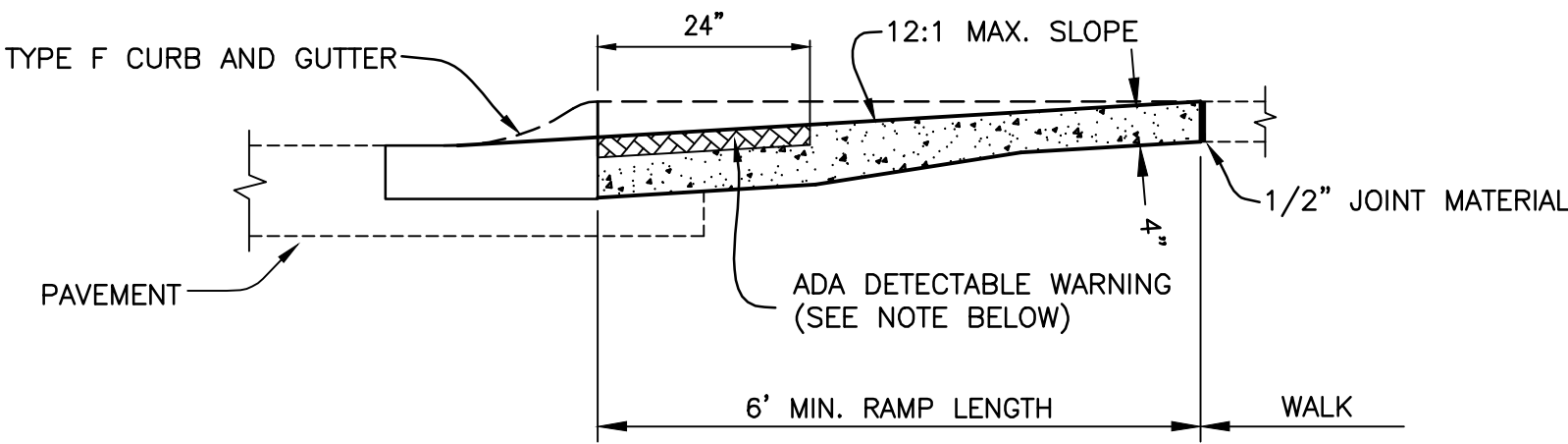
- FRONT - 35'
- SIDE - 8' MIN.
- SUM OF SIDES - 20'
- REAR - 35'



REAR YARD DRAINAGE SWALES

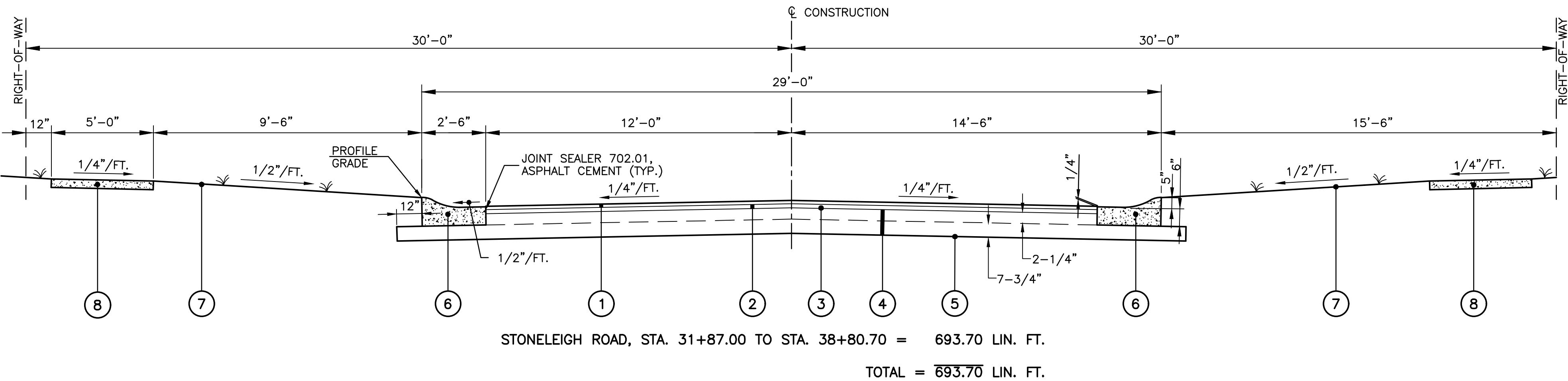
REAR YARD DRAINAGE SWALES SHALL BE GRADED AT THE TIME OF ROADWAY GRADING. SWALES SHALL BE SEEDED, MULCHED AND FERTILIZED AS SOON AS WEATHER PERMITS.

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PEDESTRIAN RAMP DETAIL

ADA DETECTABLE WARNING
THE CONTRACTOR SHALL INSTALL DETECTABLE WARNINGS ON WALKING SURFACES OF EACH CURB RAMP ACCORDING TO SECTION 4.29.2 OF THE ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES. DETECTABLE WARNINGS SHALL BE 2' X 4' AND BE INSTALLED AGAINST THE BACK OF CURB. THE DETECTABLE WARNINGS SHALL BE PER ODOT BP-7.1 AND CITY OF PERRYSBURG SPECIFICATIONS PER NOTE 2.7 ON SHEET 2.



TYPICAL ROAD SECTION
N.T.S.

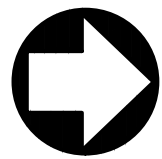
TYPICAL SECTION LEGEND

- 1 ITEM 449 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- 2 ITEM 449 2-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- 3 ITEM 407 TACK COAT @ 0.05 GAL./SQ. YD.
- 4 ITEM 304 10" AGGREGATE BASE, AS PER PLAN (2 COURSES)
- 5 ITEM 204 SUBGRADE COMPACTION
- 6 ITEM 609 MOUNTABLE CURB AND GUTTER, WOOD COUNTY TYPE F
- 7 ITEM 659 SEEDING AND MULCHING; COMMERCIAL FERTILIZER (20 LBS. PER 1000 SQ. FT.)
- 8 ITEM 608 4" CONCRETE WALK, 6" AT DRIVES (BY OTHERS)

EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

MANHOLE NOTES:

- ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 5.
- THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
- THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.



NORTH
SCALE:
1" = 50'

STANDARD
GUARDRAIL
BARRICADE,
REBUILT

STD. WOOD COUNTY
TYPE B TURNAROUND
(1-1/2"~449 ON 6"~304)

STORM SERVICE TAP DATA

LOT 53
0+71.45± (38+90.77±, 85'± LT.)
EX. 6" ON 18" TEE
EX. 14"~6" C @ 1.0%
EX. FL 6" = 644.30±

LOT 54
0+00 (37+64.66, 168.67' LT.)
14"~6" C @ 1.0%
FL 6" = 645.59

LOT 55
0+00 (37+48.23, 168.67' LT.)
14"~6" C @ 1.0%
FL 6" = 645.59

LOT 56
0+00 (36+98.72, 196.71' LT.)
14"~6" C @ 1.0%
FL 6" = 645.84

LOT 57
1+05
6" ON 15" TEE
14"~6" C @ 1.0%
FL 6" = 644.99

LOT 58
1+15
6" ON 15" TEE
14"~6" C @ 1.0%
FL 6" = 645.01

LOT 59
0+00 (34+89.25, 181.10' LT.)
14"~6" C @ 1.0%
FL 6" = 646.17

LOT 60
0+00 (34+69.45, 181.10' LT.)
14"~6" C @ 1.0%
FL 6" = 646.17

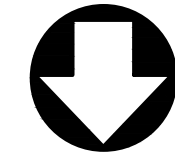
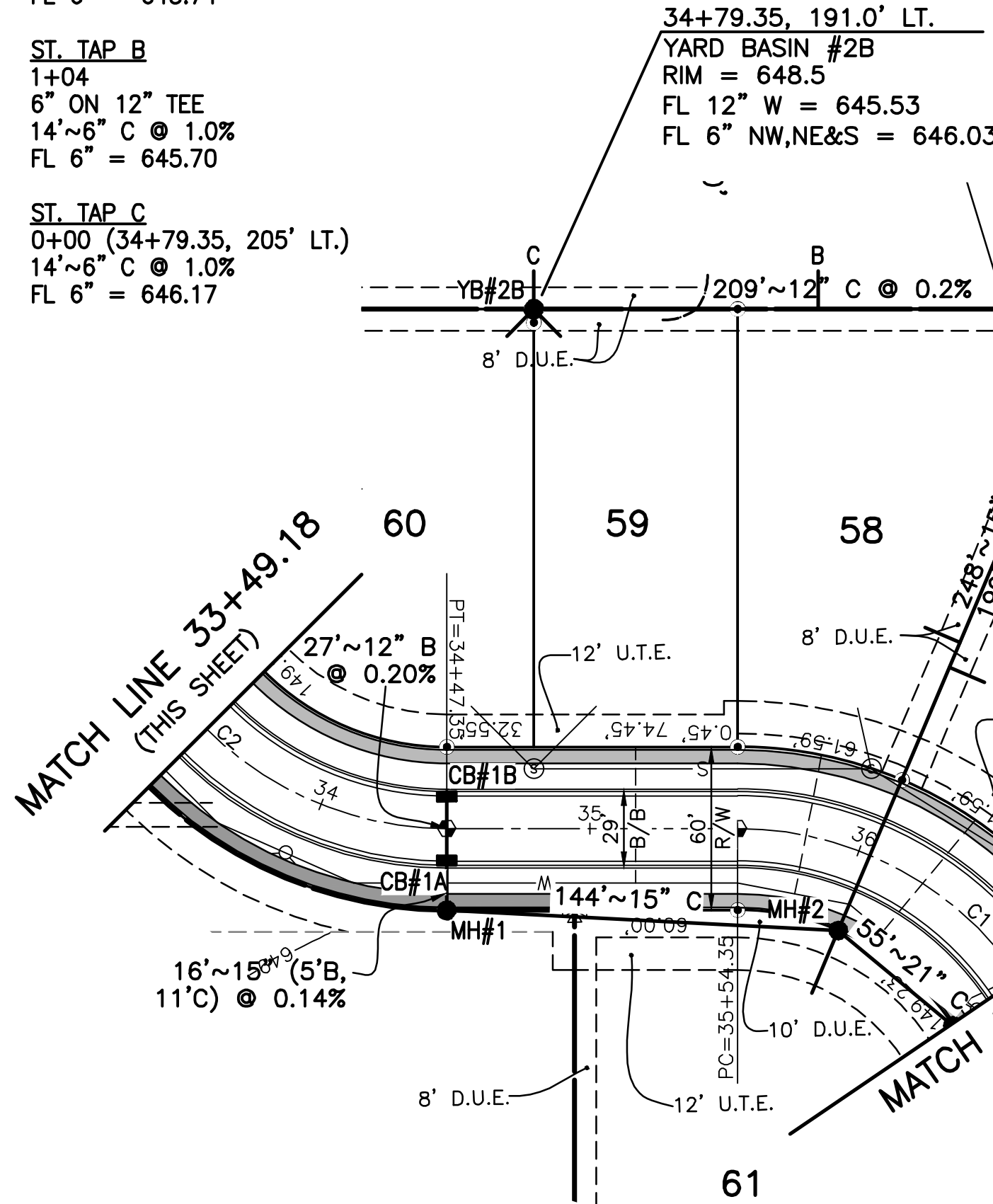
LOT 61
0+00 (36+04.38, 55' RT.)
25"~6" C @ 1.0%
FL 6" = 645.41

LOT 62
0+76
6" ON 21" TEE
20"~6" C @ 1.0%
FL 6" = 644.53

ST. TAP A
0+00 (36+02.47, 231.05' LT.)
14"~6" C @ 1.0%
FL 6" = 645.74

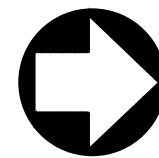
ST. TAP B
1+04
6" ON 12" TEE
14"~6" C @ 1.0%
FL 6" = 645.70

ST. TAP C
0+00 (34+79.35, 205' LT.)
14"~6" C @ 1.0%
FL 6" = 646.17



NORTH
SCALE:
1" = 50'

CENTERLINE CURVE DATA					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	CENTRAL ANGLE
C1	125.00'	196.35'	176.78'	N 43°40'25" W	90°00'00"
C2	125.00'	196.35'	176.78'	N 43°40'25" W	90°00'00"



NORTH
SCALE:
1" = 50'

FELLER, FINCH & ASSOCIATES, INC.			
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		DRAWN BY:	AMF
		CHECKED BY:	GNF
		DRAWING:	10-088690P03A1
			-AB

REMOVE AND REPLACE
EX. CURB AND GUTTER
AND SURFACE &
INTERMEDIATE COURSE
TO STA. 38+88.70 AND
MATCH EX. ELEVATIONS
OF CURB AND GUTTER.

SAWCUT, JOINT
SEALER 702.01

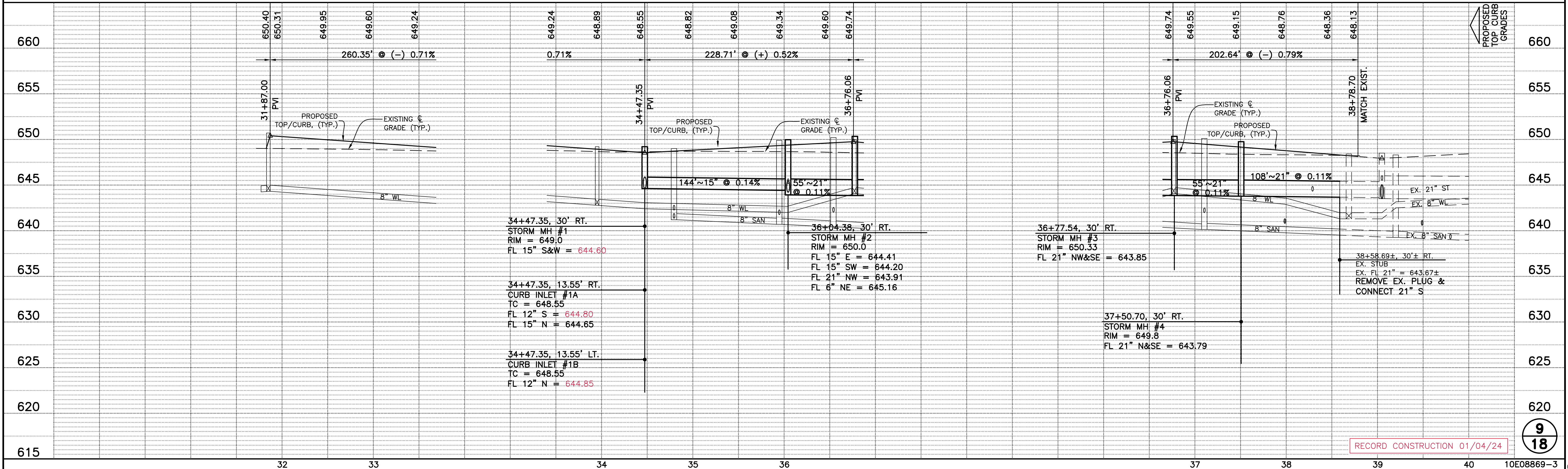
PLAT TWO

STD. GUARDRAIL BARRICADE,
REMOVED FOR REUSE

STONELEIGH ROAD
(WEST)

STONELEIGH ROAD
(WEST)

STONELEIGH ROAD
(WEST)



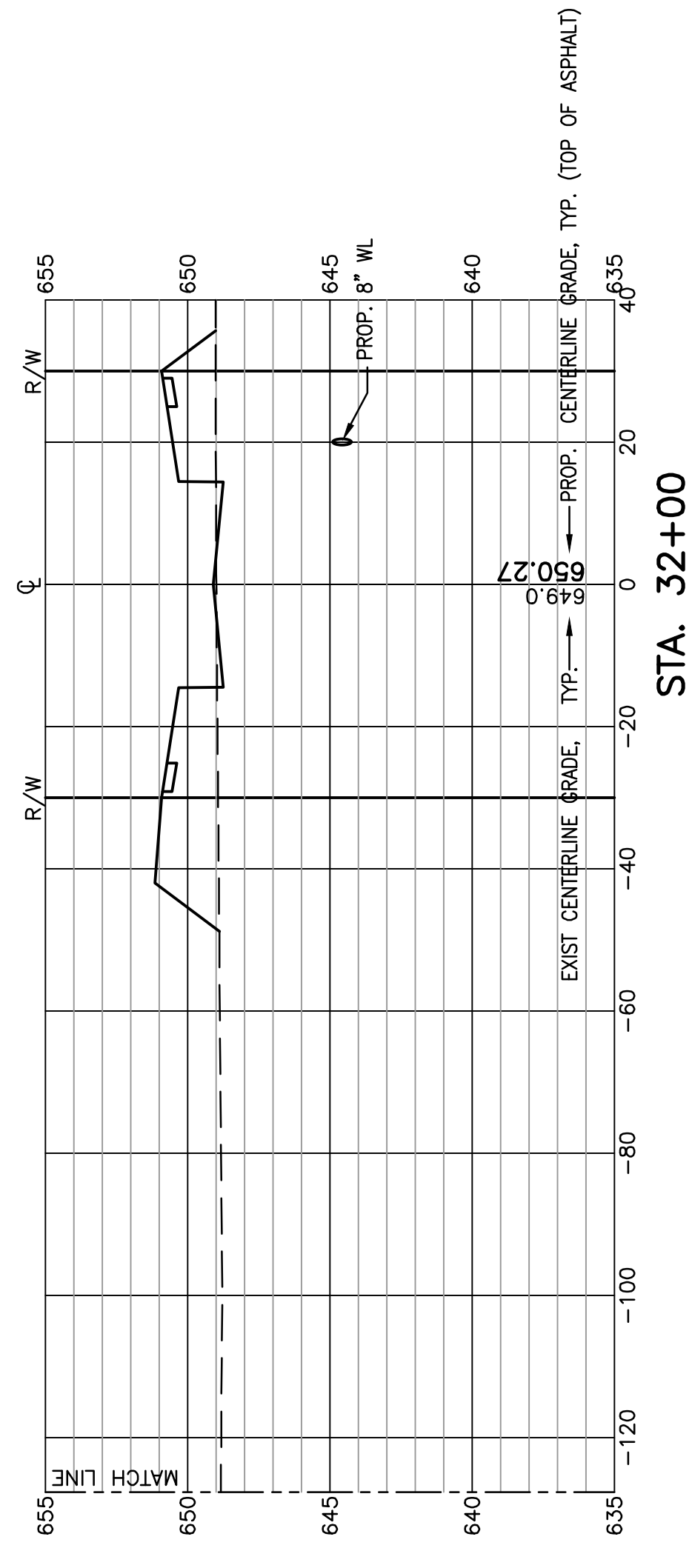
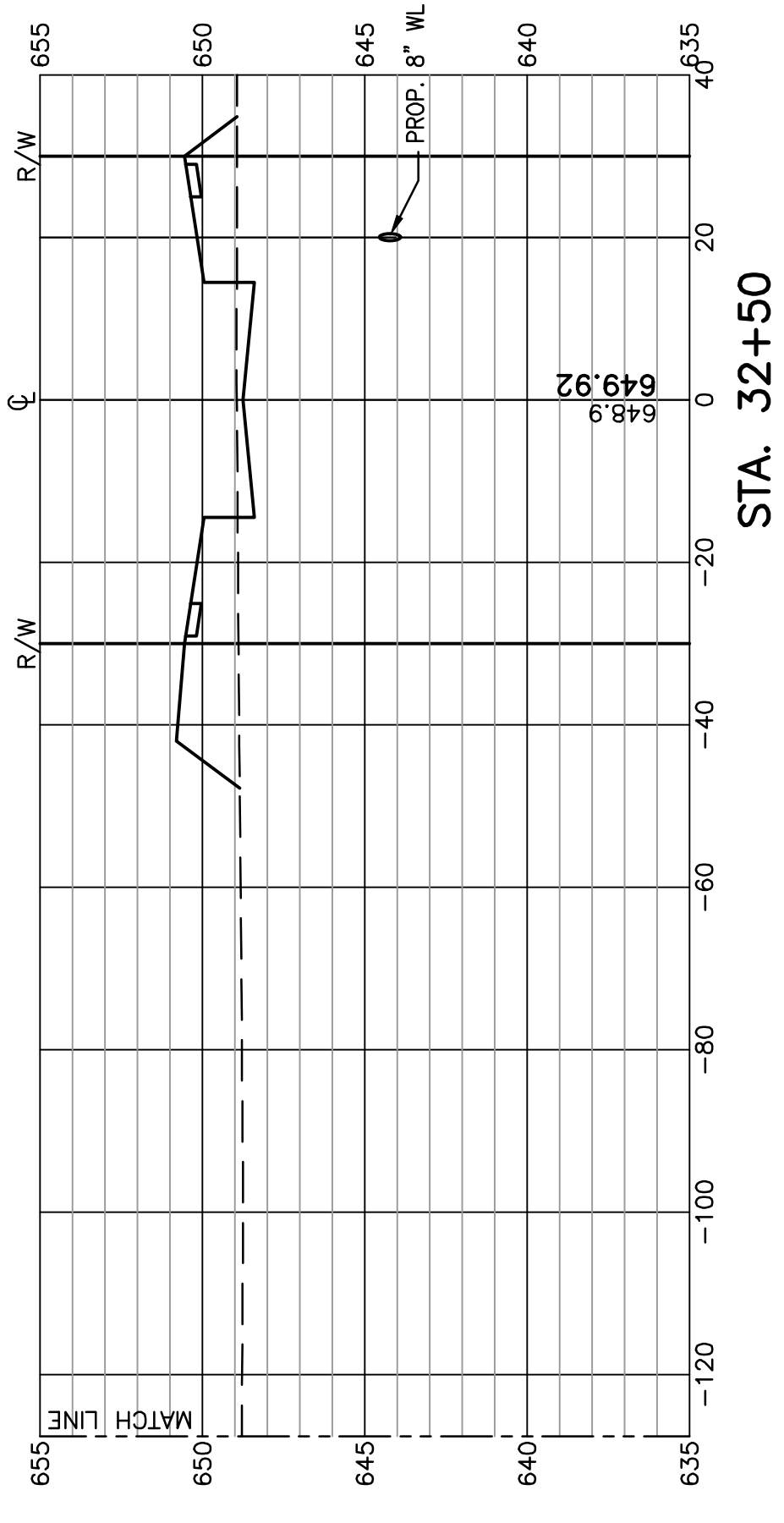
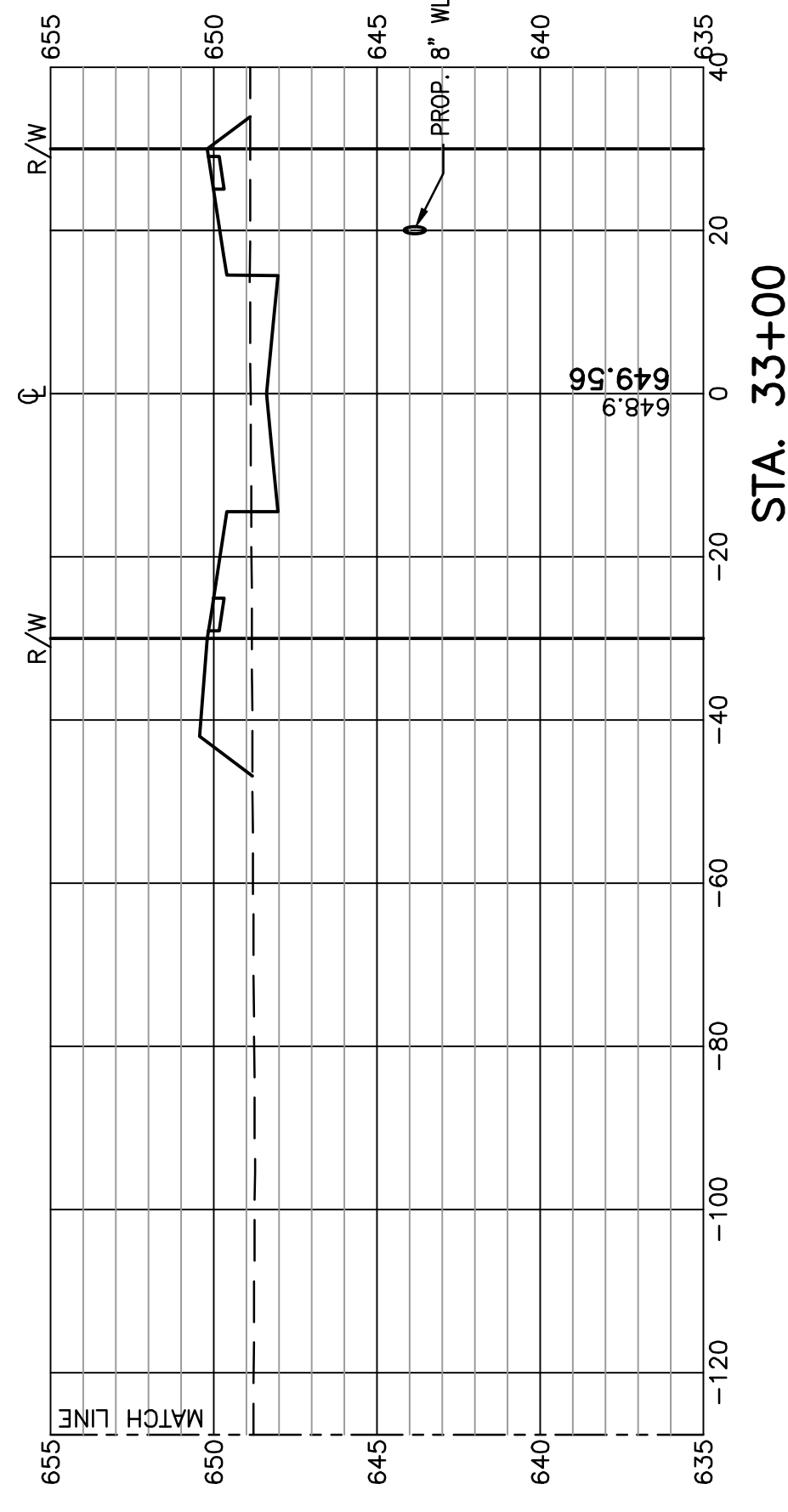
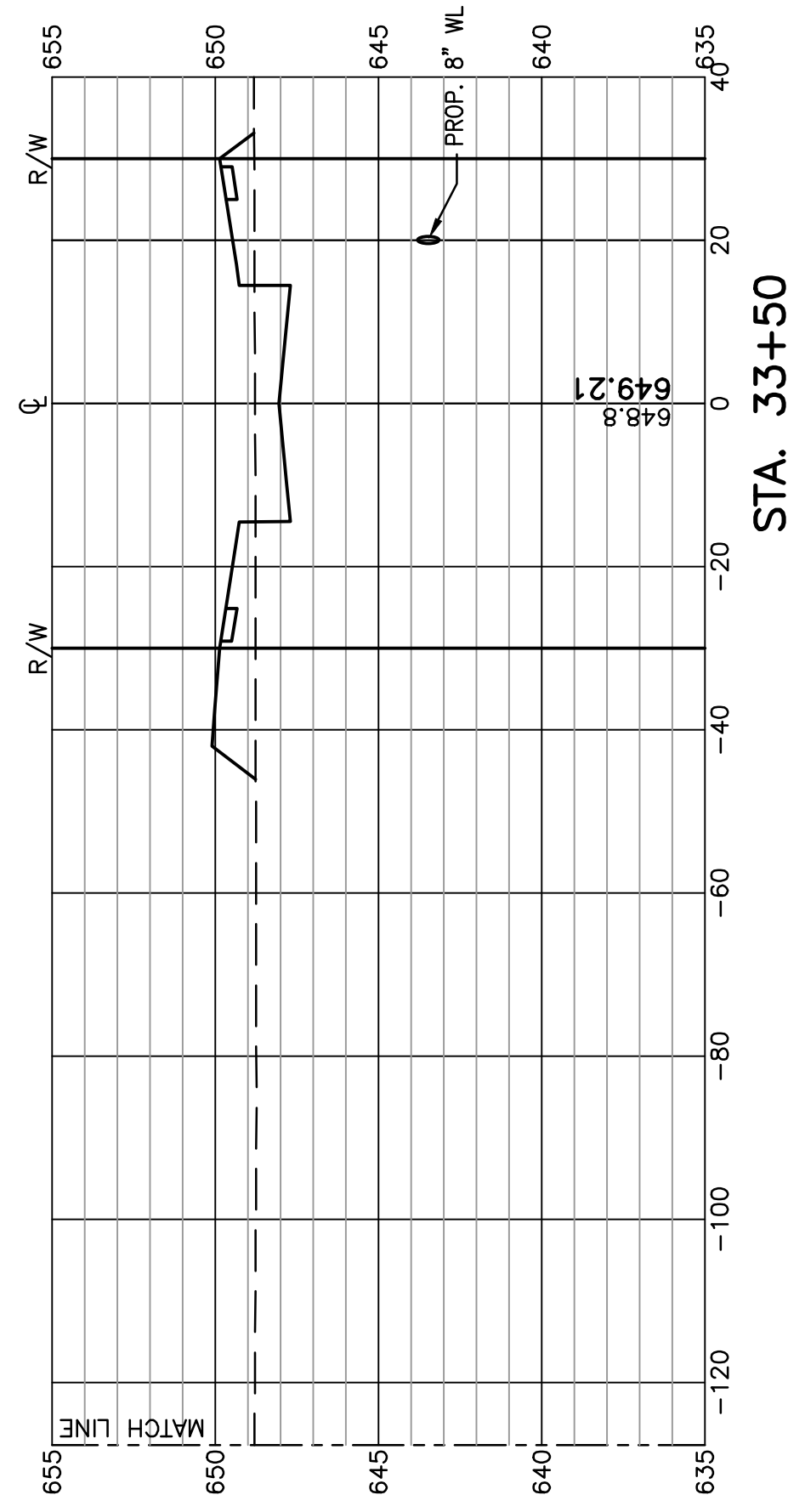
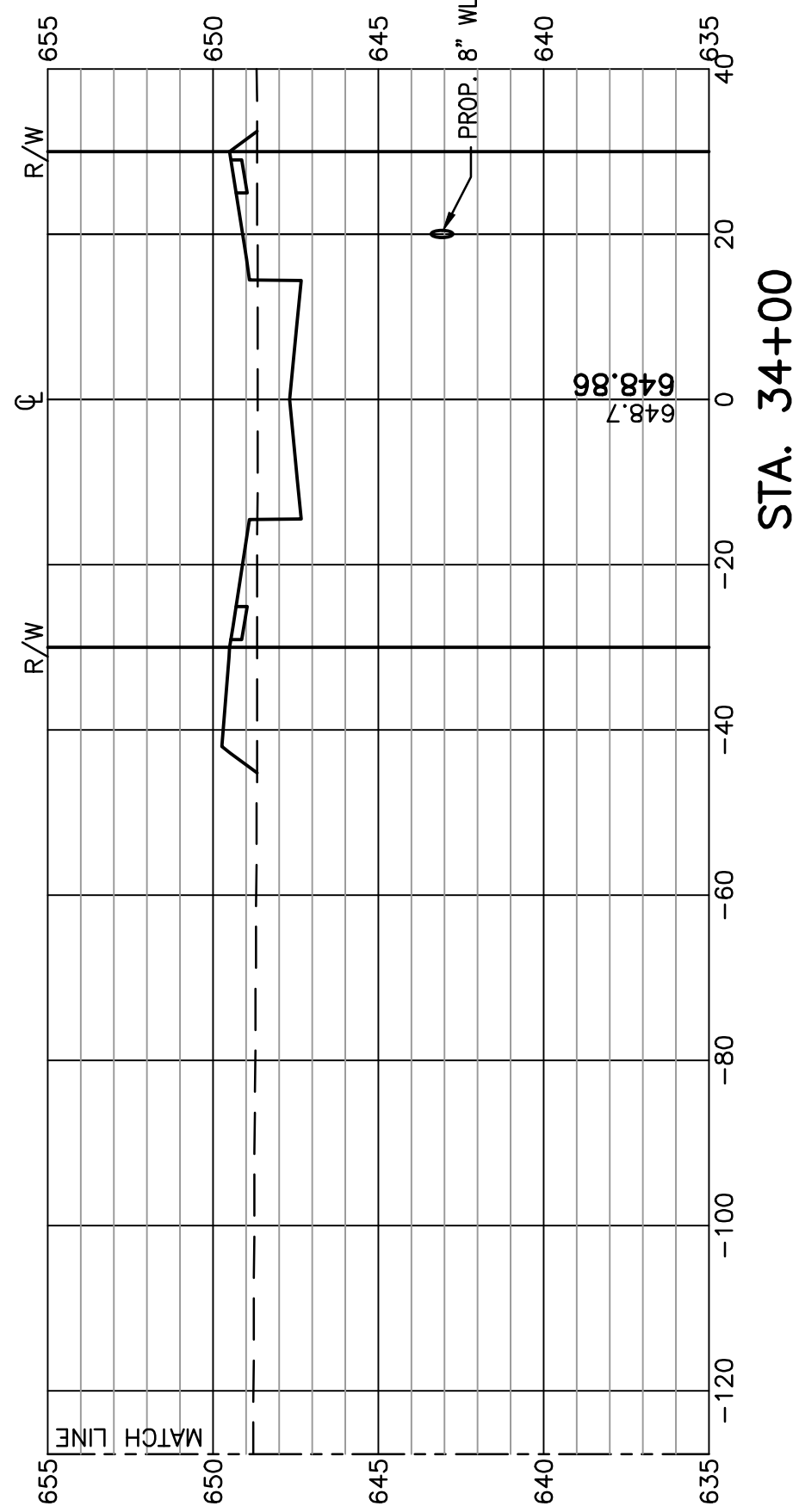
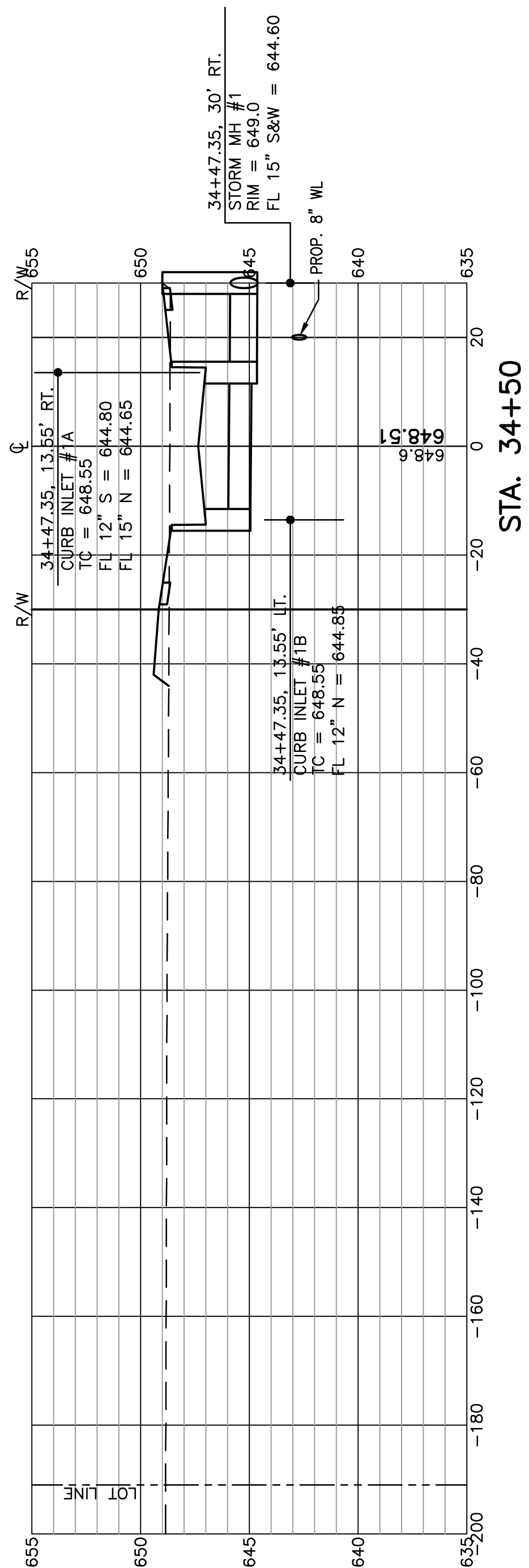
RECORD CONSTRUCTION 01/04/24

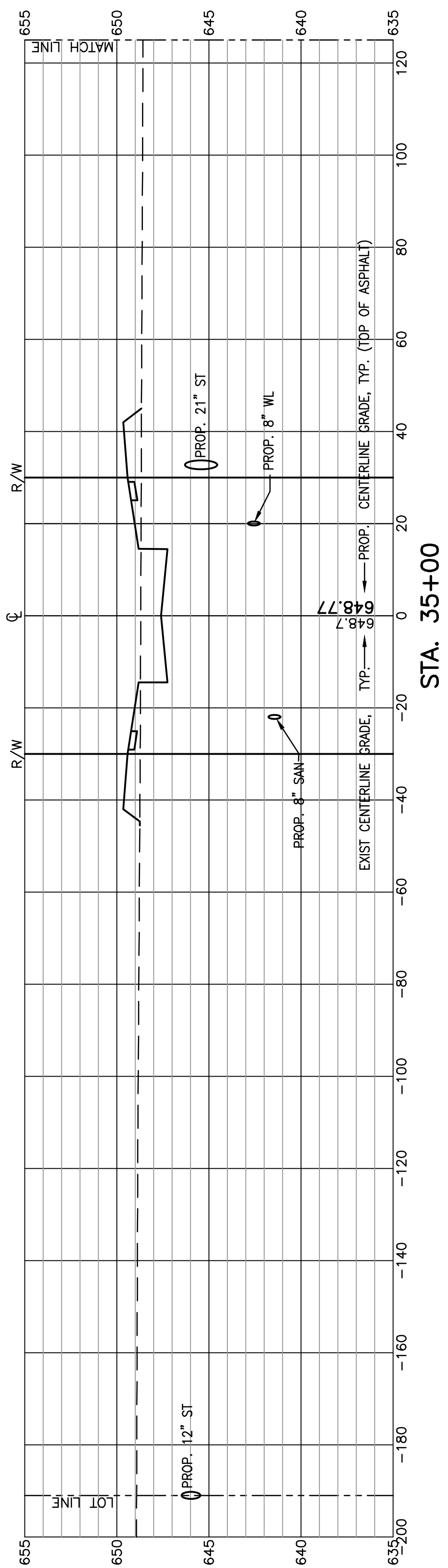
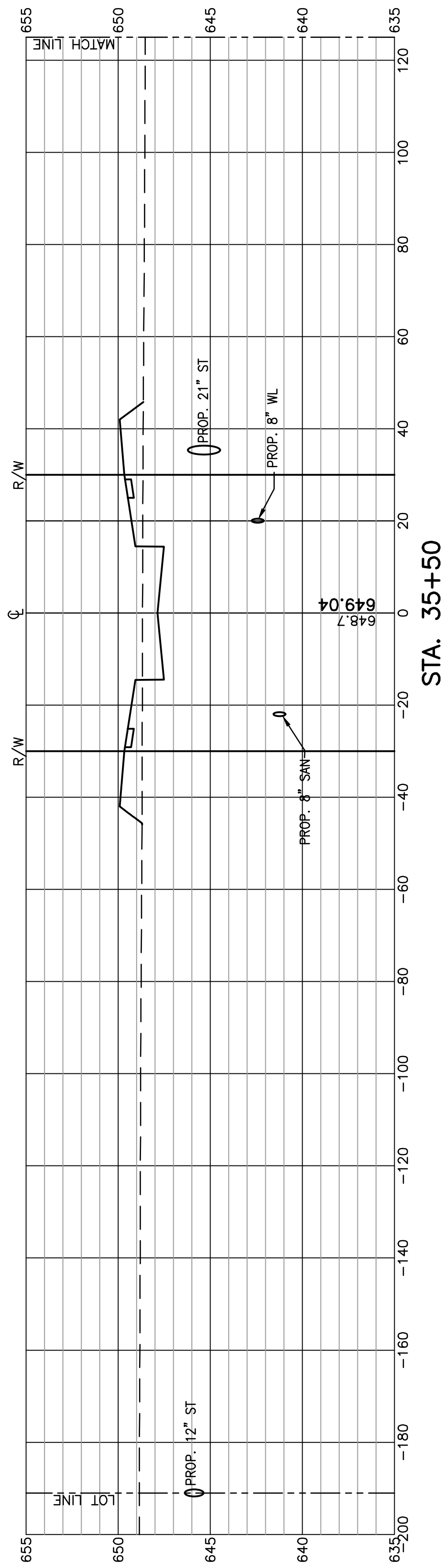
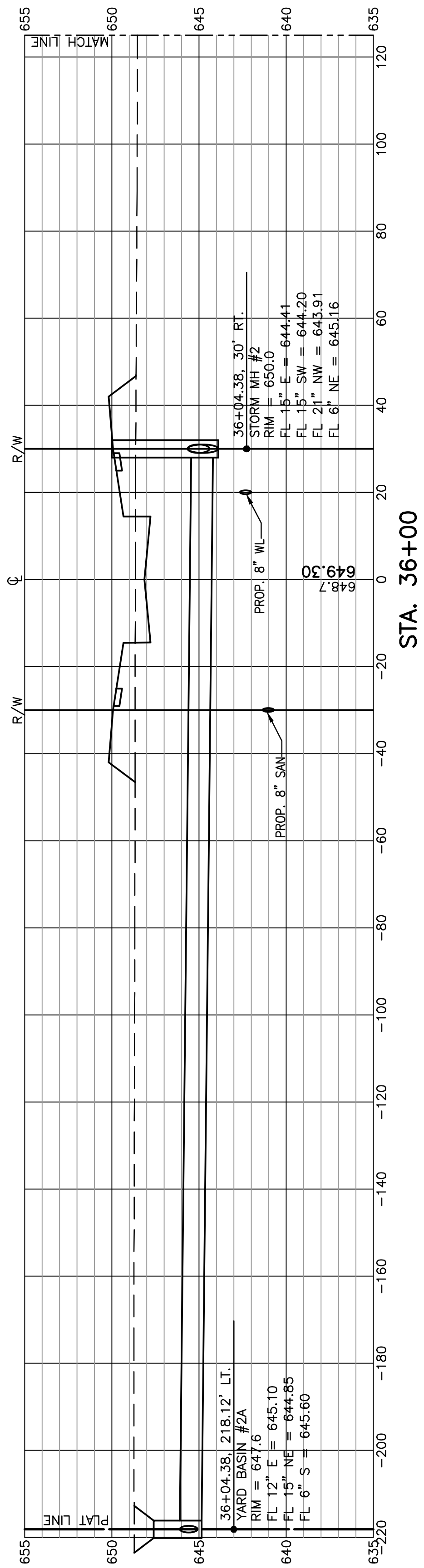
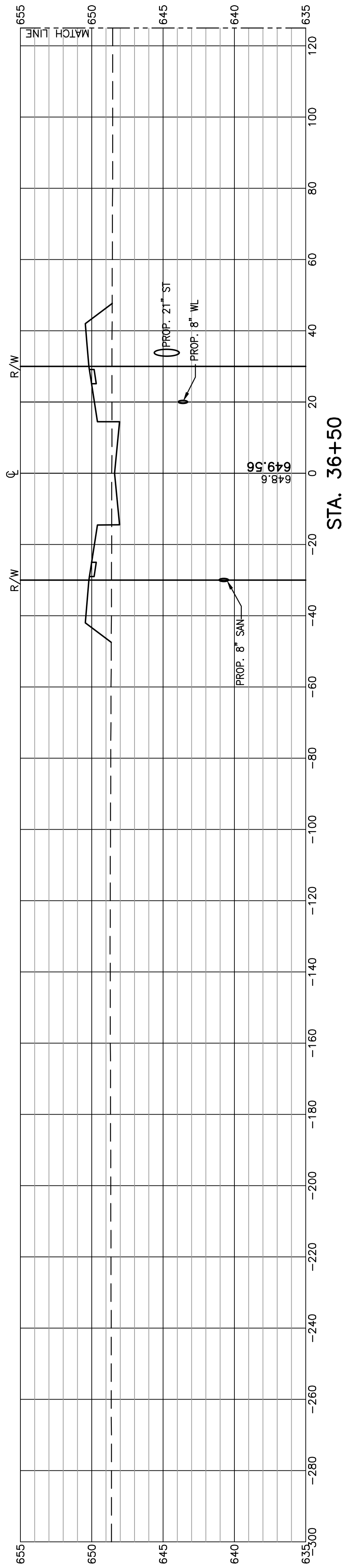
PAVEMENT AND DRAINAGE

STONELEIGH ROAD (WEST)

COVENTRY POINTE PLAT THREE

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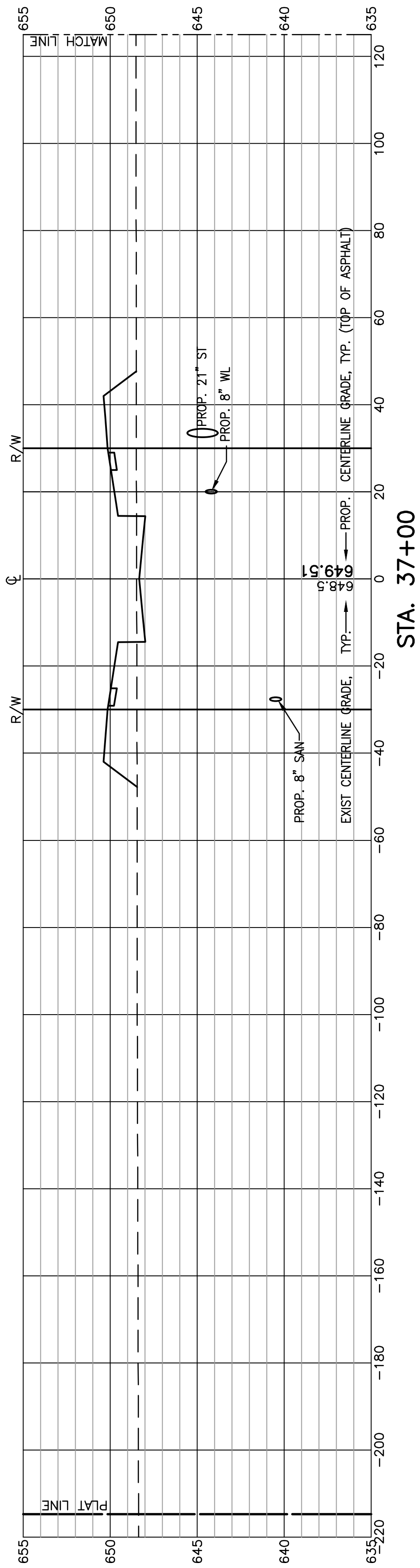
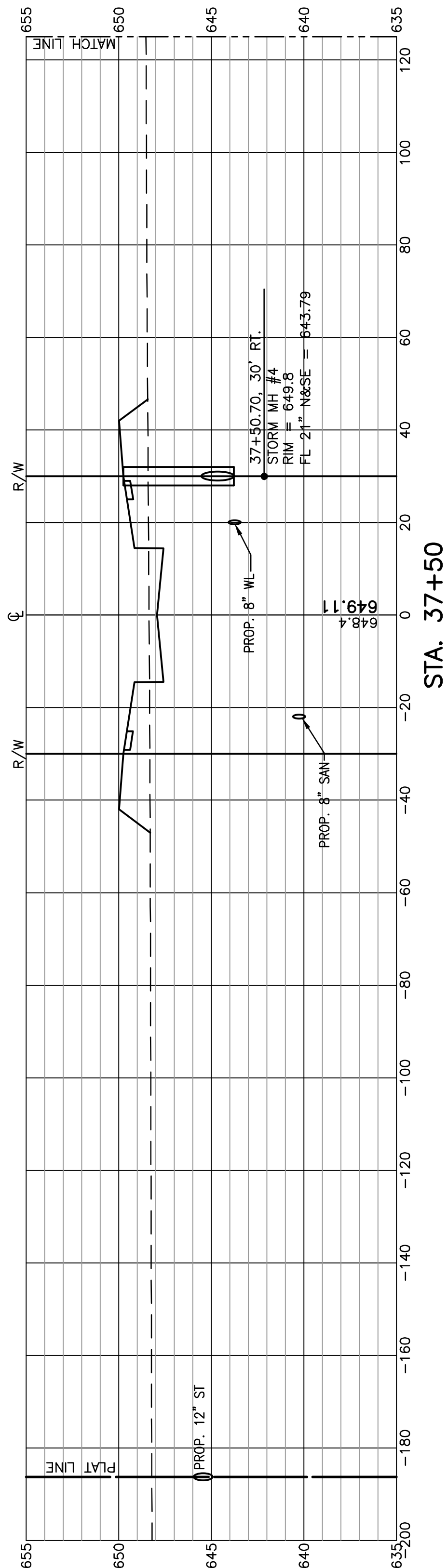
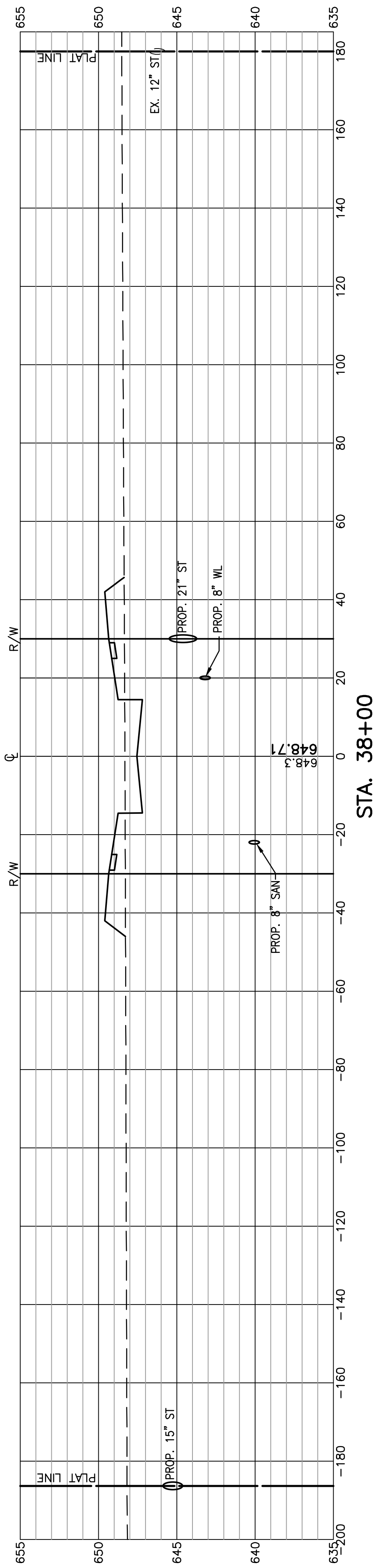
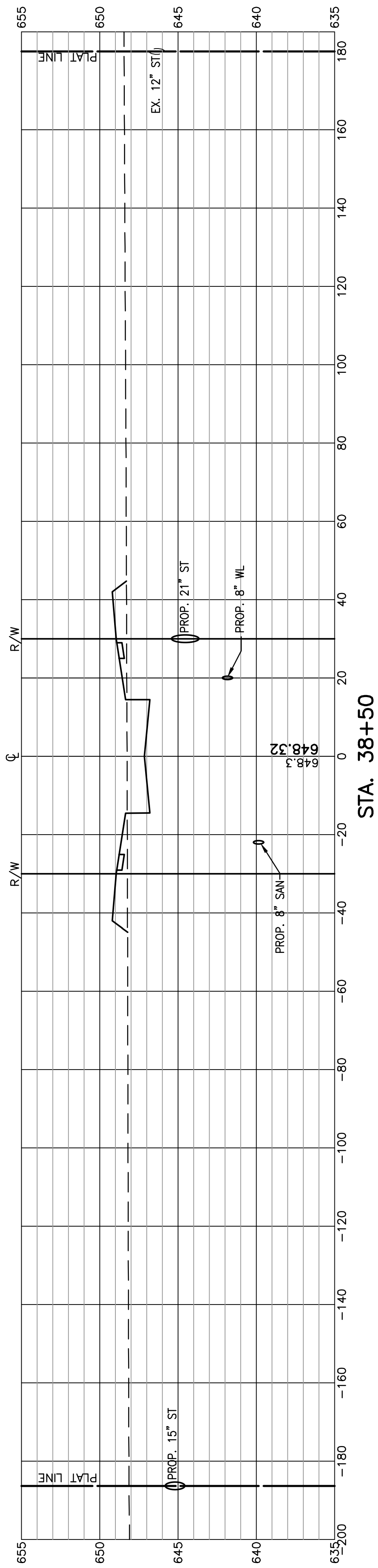
FELLER, FINCH & ASSOCIATES, INC.			
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		DATE:	11-16-21
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STONELEIGH ROAD
(WEST)

STA. 35+00

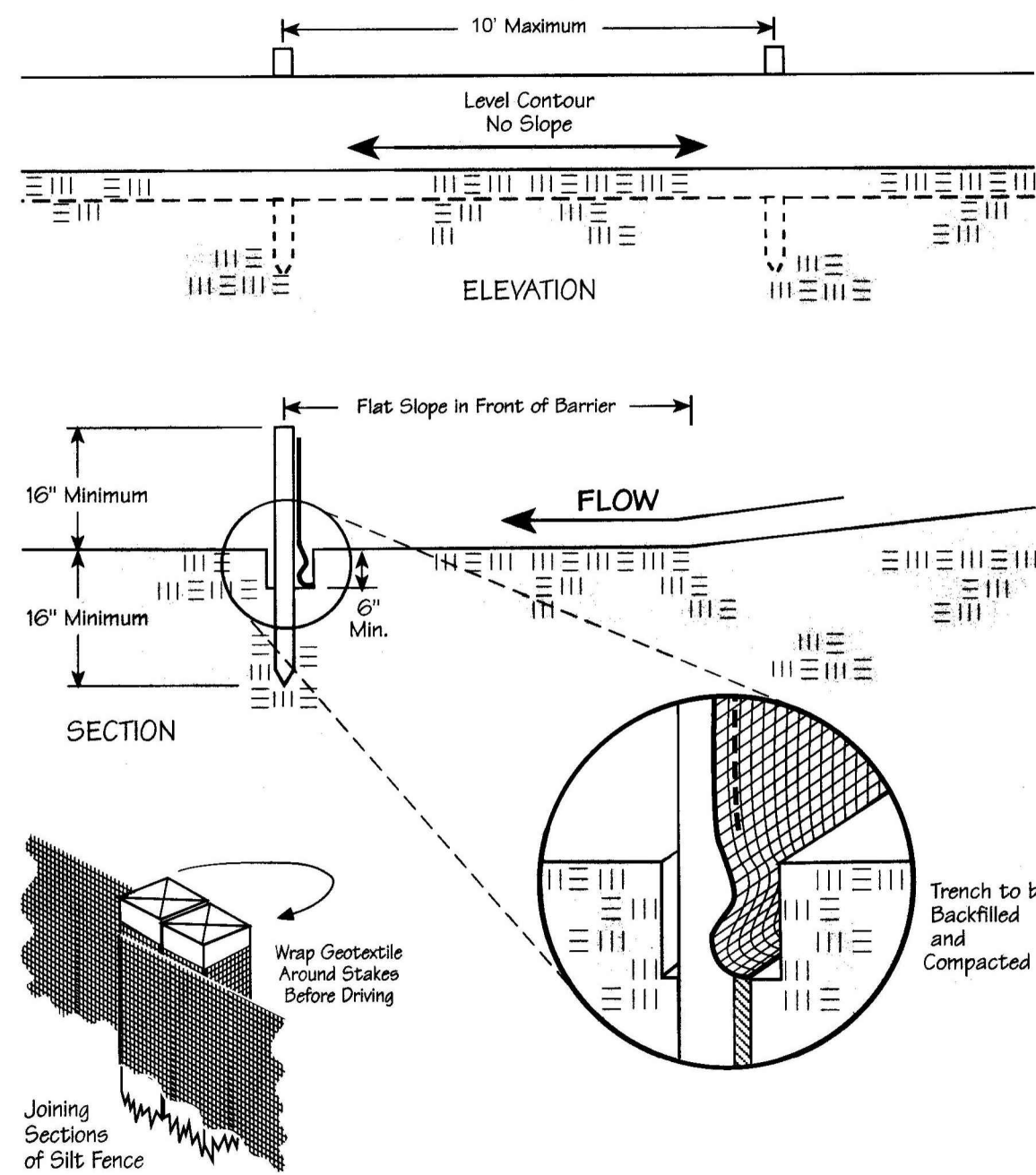
RECORD CONSTRUCTION 01/04/24

FELLER, FINCH & ASSOCIATES, INC.			
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STONELEIGH ROAD
(WEST)

RECORD CONSTRUCTION 01/04/24



Specifications
for
Silt Fence

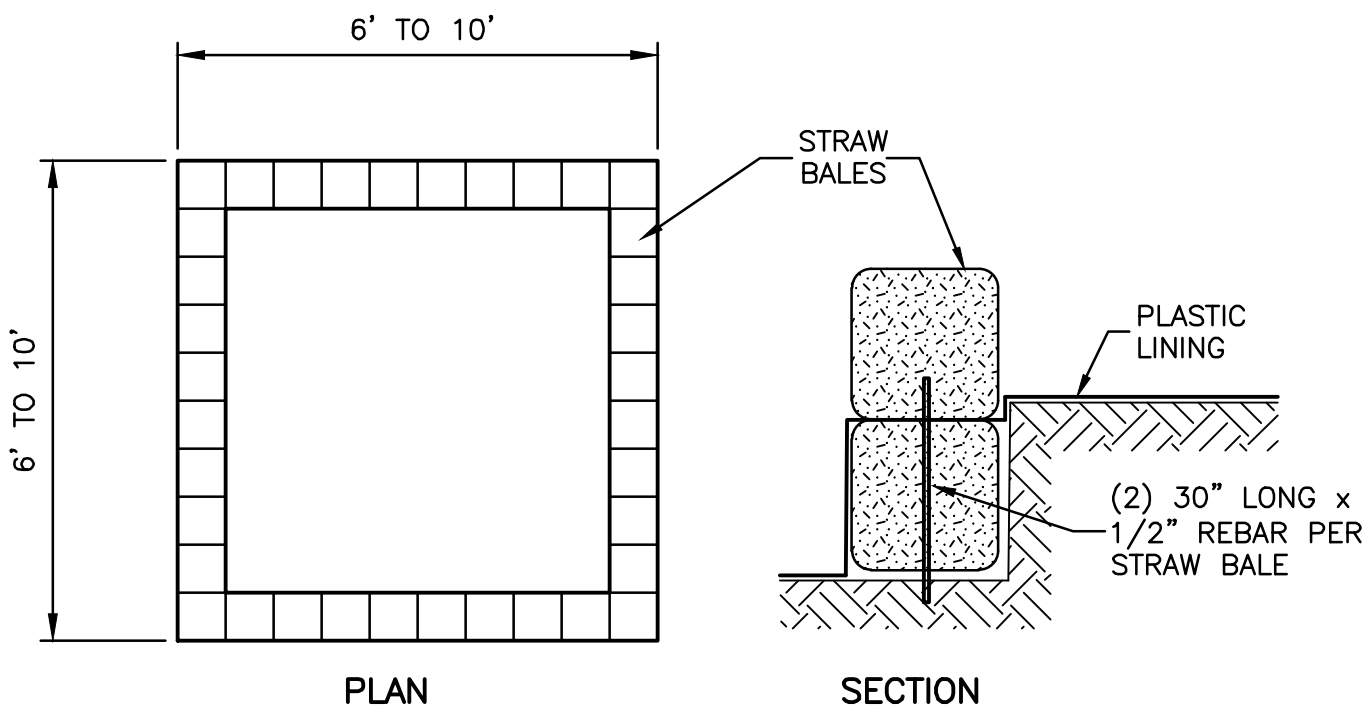
- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- Where possible, silt fence shall be placed on the flattest area available.
- Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
- The silt fence shall be placed in a trench cut a minimum of 6 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6-in.-deep trench. The trench shall be backfilled and compacted.
- Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
- Maintenance--Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow, 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.

Criteria for Silt Fence Materials

- Fence Posts--The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2-in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft.
- Silt Fence Fabric (see chart below):

Fabric Properties	Values	Test Method
Grab Tensile Strength	90 lb. minimum	ASTM D 1682
Mullen Burst Strength	190 psi minimum	ASTM D 3786
Slurry Flow Rate	0.3 gal./min./ft ² maximum	
Equivalent Opening Size	40-80	US Std. Sieve CW-02215
Ultraviolet Radiation Stability	90% minimum	ASTM-G-26

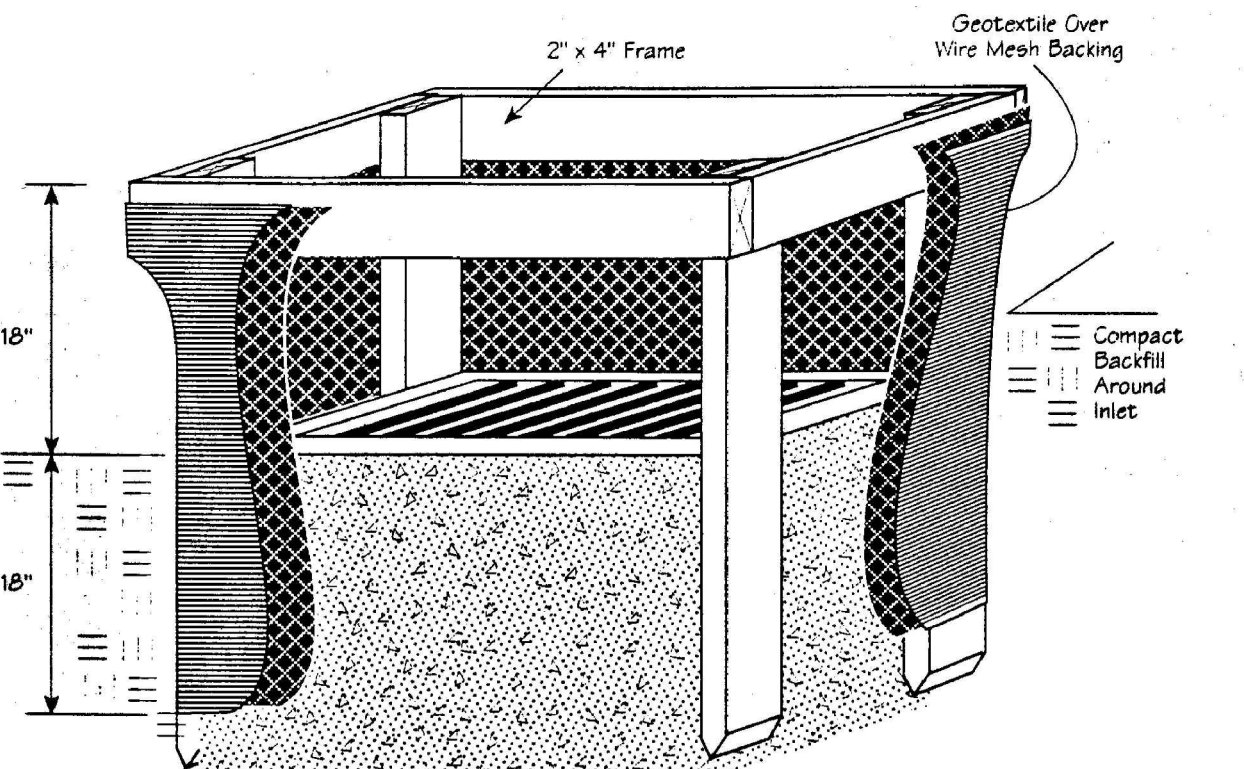
FILTER FABRIC FENCE



NOTE:
CONTRACTOR CAN USE PORTABLE CONCRETE WASHOUT AREAS IN LIEU OF CONCRETE WASHOUT BASINS (RECOMMENDED).

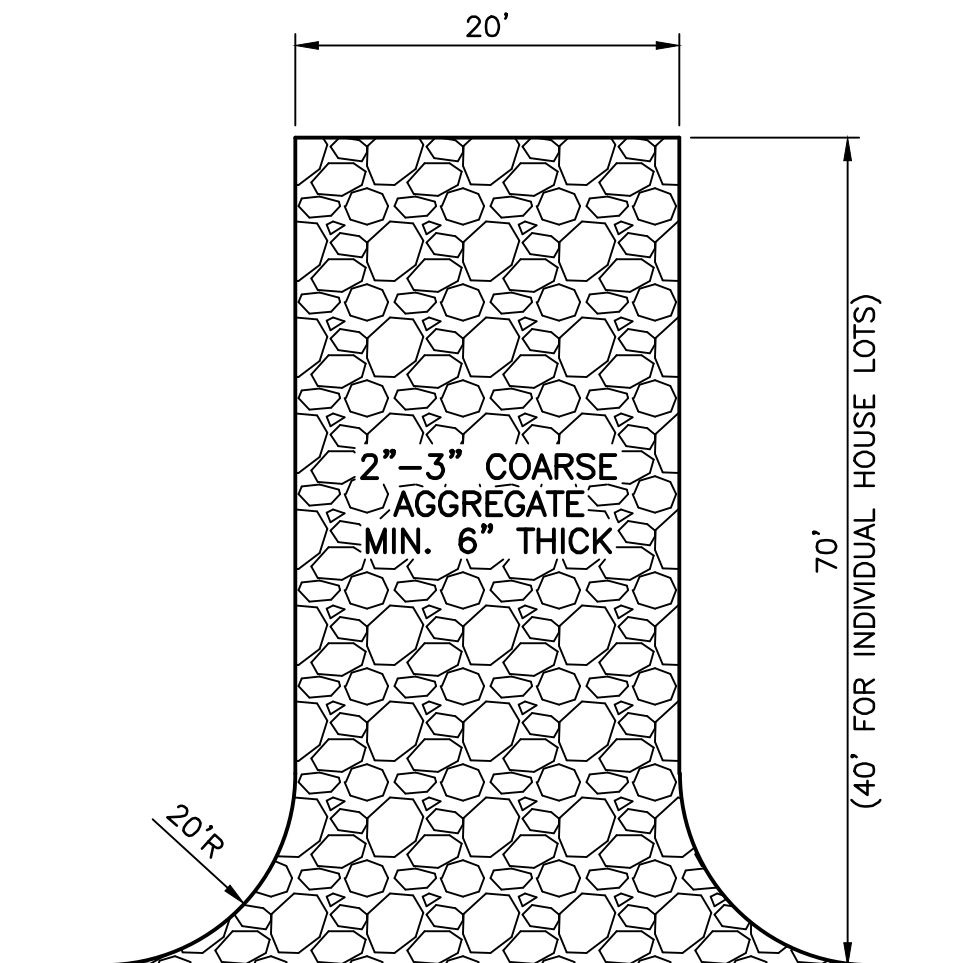
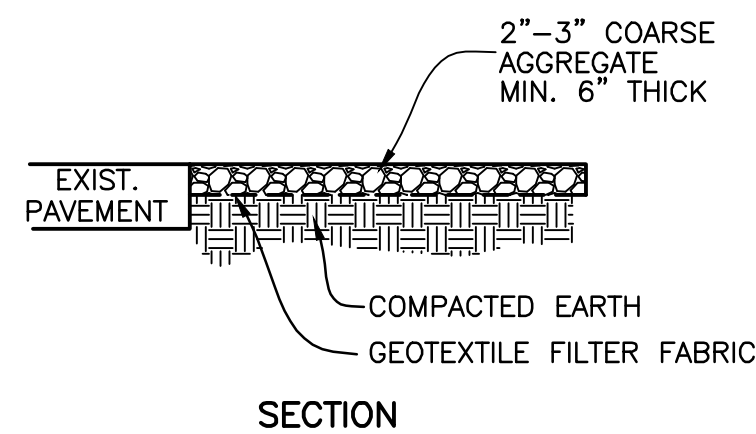
WASHOUT AREAS MUST HAVE SOME FORM OF PLASTIC LINING.

CONCRETE WASHOUT AREA
NOT TO SCALE



- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
- The earth around the inlet shall be excavated completely to a depth at least 18 in.
- The wooden frame shall be constructed of 2-by-4-in. construction-grade lumber. The 2-by-4-in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-by-4-in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
- Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.
- A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of earth dikes shall be at least 6 in. higher than the top of the frame.

INLET PROTECTION FILTER
(OR APPROVED EQUAL)
IN SWALES, DITCH LINES OR YARD INLETS
N.T.S.



IF MUD MAT BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE CLEANED AND REPLACED.

ALL EQUIPMENT LEAVING SITE MUST USE MUD MATT AND HAVE LOADS STABILIZED AND TIGHT WITH ALL LOOSE DEBRIS AND MATTER REMOVED PRIOR TO TRAVELING ON PUBLIC ROADWAYS.

ANY TRACK-OUT NOT CONTAINED BY THE MUD MATT MUST BE CLEANED UP BY THE CONTRACTOR IMMEDIATELY AFTER OCCURRENCE NO LATTER.

CONSTRUCTION ENTRANCE "MUD MAT" DETAIL
NOT TO SCALE

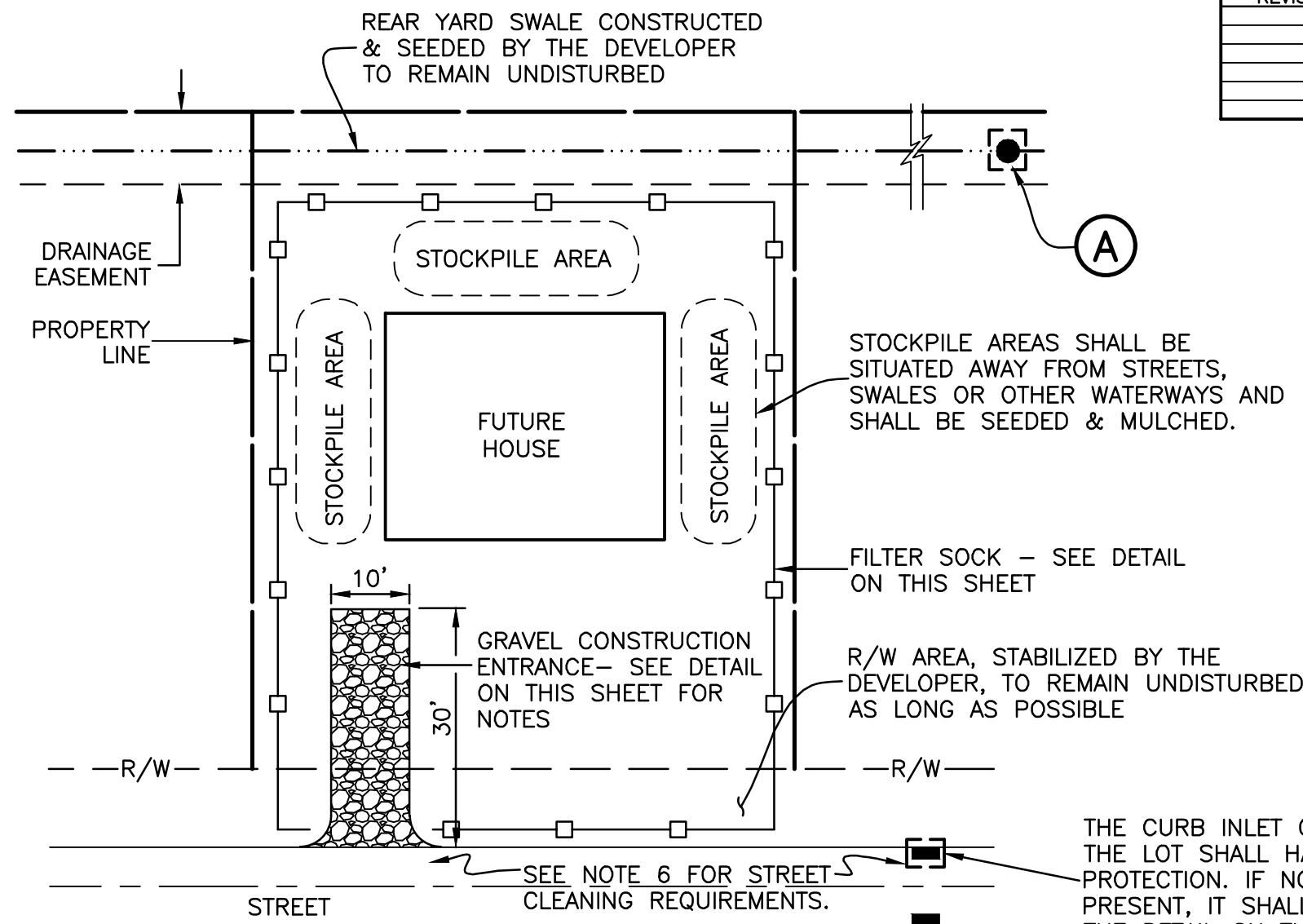
SPECIFICATIONS FOR
SMALL LOT BUILDING SITES

- Preexisting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow. Clearing shall be done so only active working areas are bare.
- Temporary seed (annual rye, oats, etc.) and/or mulch shall be applied to areas, such as stockpiles, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more.
- Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched.
- Silt fence shall control sheet flow runoff from the building lot. It shall not be constructed in channels or areas of concentrated flow. Other sediment controls such as inlet protection and sediment traps shall also be used as needed to control sediment runoff.
- Construction vehicle access shall be limited to one route, to the greatest extent practical. The access shall be gravel or crushed rock applied to the driveway area.
- Mud tracked onto the street or sediment settled around curb inlet protection shall be removed daily or as needed to prevent it from accumulating. It shall be removed by shovelling and scraping and shall NOT be washed off paved surfaces or into storm drains.

HOME CONSTRUCTION IMPLEMENTATION SCHEDULE

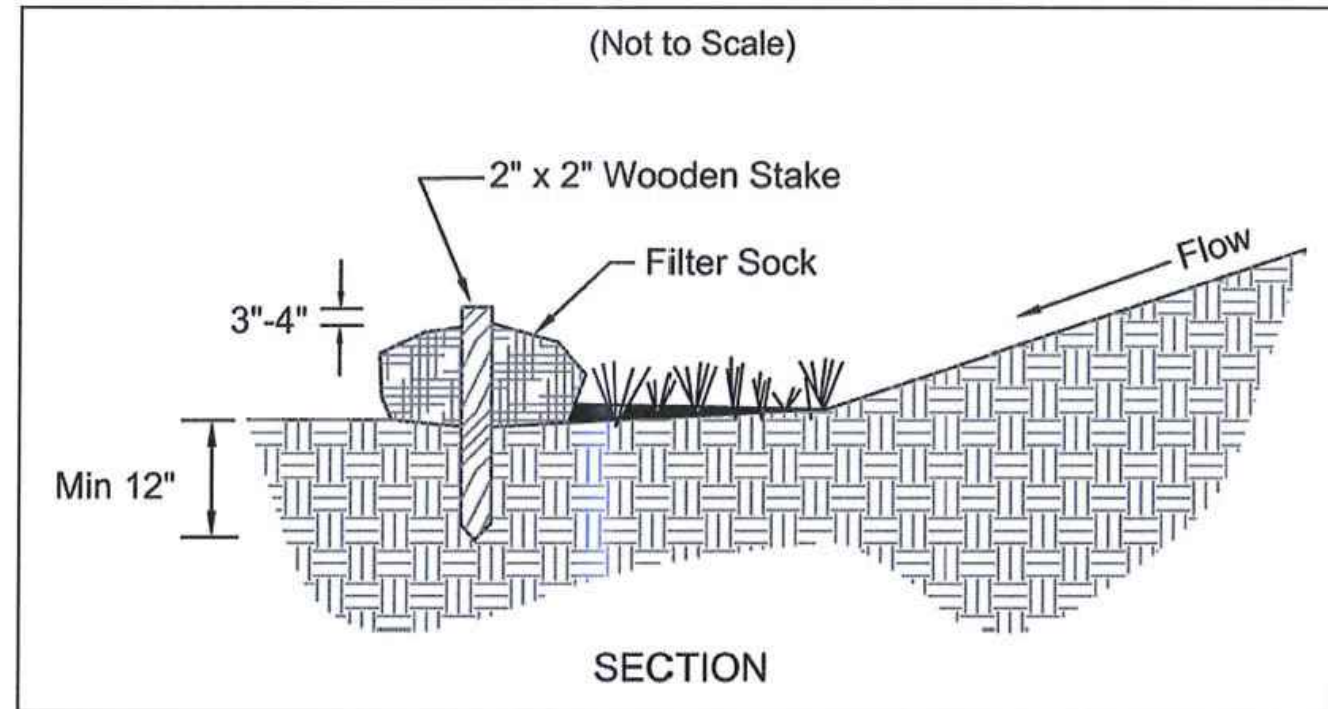
SITE STABILIZATION

- PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS (DEVELOPER).
- INSTALL PRACTICES ON ALL LOTS CURRENTLY BEING CONSTRUCTED. (SEE THIS SHEET) (INDIVIDUAL HOME BUILDERS)
- FILE A NOTICE OF TERMINATION UPON FINAL STABILIZATION OF ALL CURRENTLY DISTURBED LAND. (DEVELOPER)
- REVISE THIS EPSC PRIOR TO ANY FURTHER EARTH DISTURBING ACTIVITIES. (DEVELOPER)



INDIVIDUAL LOT SWP3

Specifications
for
Filter Sock



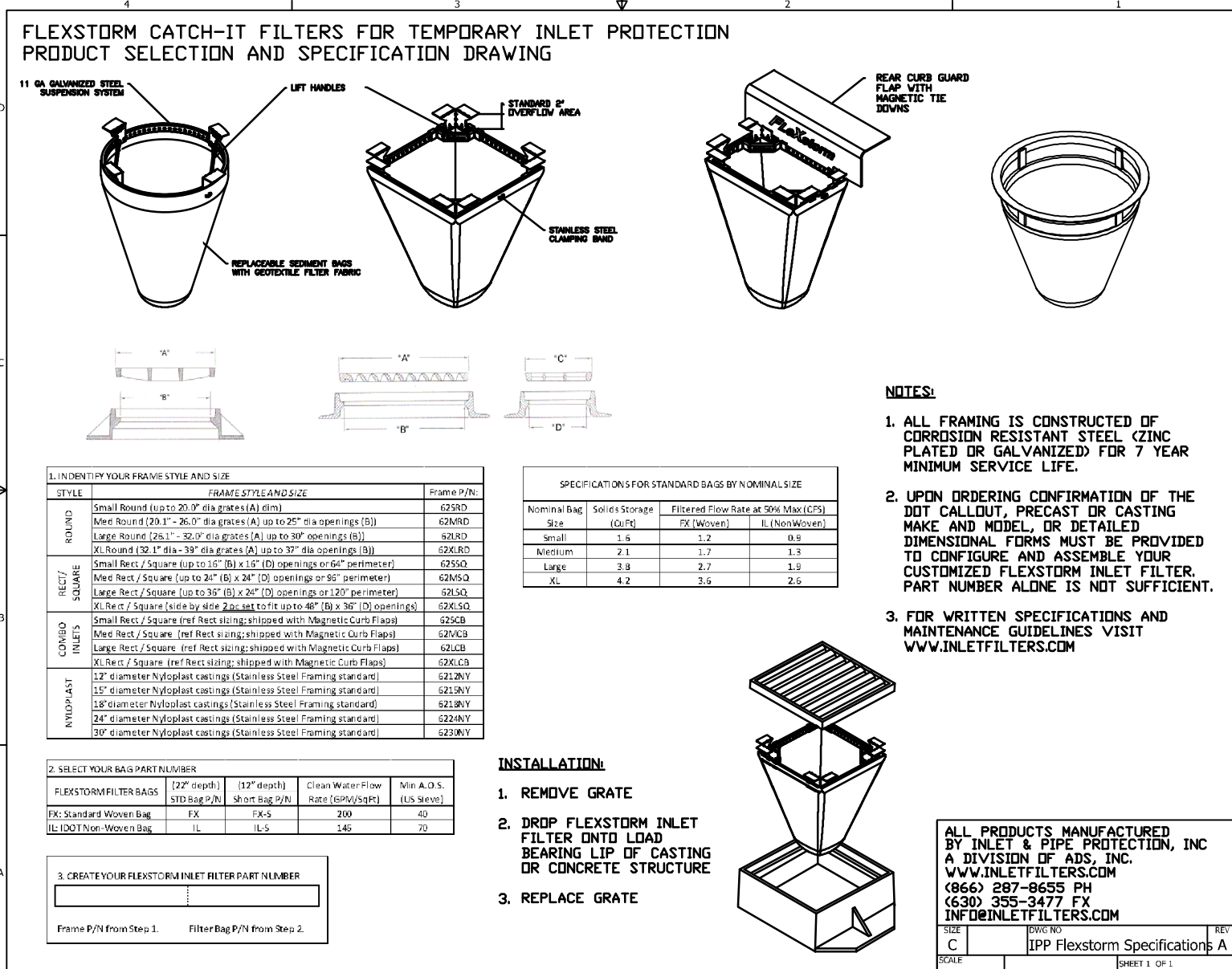
- Materials -- Compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. They shall be derived from a well-decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
- Filter Socks 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.
- 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.

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.



CURB INLET SEDIMENT FILTER

FILTER SOCK

RECORD CONSTRUCTION 01/04/24

CONSTRUCTION SEEDING

Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
August 16 to November 1	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
November 1 to Spring Seeding Use mulch only, sodding practices or dormant seeding.			
Note: Other approved seed 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 45 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical construction projects.

3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
4. Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.

5. Seeding Method--Seed shall be applied uniformly with a cyclone seeder, 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.

INSPECTION

Procedures in this SWP3 shall provide that all controls on the site are inspected at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain per 24 hour period. The inspection frequency may be reduced to at least once every month if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions (e.g., site is covered with snow, ice, or the ground is frozen). A waiver of inspection requirements is available until one month before thawing conditions are expected to result in a discharge if all of the following conditions are met: the project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one month); land disturbance activities have been suspended; and the beginning and ending dates of the waiver period are documented in the SWP3. The permittee shall assign qualified inspection personnel (those with knowledge and experience in the installation and maintenance of sediment and erosion controls) to conduct these inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III. G.1.g of this permit or whether additional control measures are required. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspections, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, signature of the inspector, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of the permit.

- a. When practices require repair or maintenance. If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it must be repaired or maintained within three days of the inspection. Sediment settling ponds must be repaired or maintained within 10 days of the inspection.

b. When practices fail to provide their intended function. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 must be amended and the new control practice must be installed within 10 days of the inspection.

c. When practices depicted on the SPW3 are not installed. If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.g of this permit, the control practice must be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record must contain a statement of explanation as to why the control practice is not needed.

MAINTENANCE

All temporary and permanent control practice shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.

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 and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.

2. Materials:
 - Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 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 1,000-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 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/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, 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 concentration 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 (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood-Cellulose Fiber--Wood-cellulose fiber binder 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.

MULCHING

Specifications for Mulching	
1. Mulch and/or other appropriate vegetative practices shall be applied to disturbed areas within 7 days of grading if the area is to remain dormant (undisturbed) for more than 14 days or on areas and portions of the site which can be brought to final grade.	3. Mulch Anchoring--Mulch shall be anchored immediately to minimize loss by wind or runoff. The following are acceptable methods for anchoring mulch. - Mechanical--Use a disk, crimper, or similar type tool set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but be left generally longer than 6 in. - Mulch Nettings--Use according to the manufacturer's recommendations, following all placement and anchoring suggestions. Use in areas of water concentration and steep slopes to hold mulch in place. - Asphalt Emulsion--For straw mulch, apply at the rate of 160 gal./ac. (0.1 gal./sy) into the mulch as it is being applied or as recommended by the manufacture. - Synthetic Binders--For straw mulch, synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer. - Wood Cellulose Fiber--Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 lb./acre. 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.
2. Mulch shall consist of one of the following: - Straw--Straw shall be unrotted small grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The straw 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 1,000-sq.-ft. sections and place two 45-lb. bales of straw in each section. - Hydroseeders--Wood cellulose fiber should be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft. - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 10-20 tons/ac.	

NON-SEDIMENT POLLUTANTS

No discharge of pollutants associated with dedicated asphalt and concrete plants are permitted on site. This includes, but is not limited to, the discharge of concrete or vehicle wash water.

No solid (other than sediment) or liquid waste, including building materials, shall be discharged in storm water runoff. All wastes must be disposed of in a proper manner in accordance with local, state & federal regulations.

It is prohibited to burn, bury or pour onto the ground or into a storm water conveyance system any solvent, paints, stains, gasoline, diesel fuel, hydraulic fluid, used motor oil, anti-freeze, cement curing compounds and other such solids or hazardous wastes. Any rinse waters containing such materials are prohibited from being placed where they may enter drainageways.

Fueling and equipment maintenance shall be performed in diked areas away from drainage channels.

All contaminated soils must be treated and/or disposed of in Ohio EPA approved solid waste management facilities. If hazardous substances such as oil, diesel fuel, anti-freeze, etc. are leaked onto the soil, the soil should be dug up and disposed of at the local licensed landfill. Spills of 25 gallons or more shall be reported to the OEPA, the local fire department and the local emergency planning committee.

Open burning of waste materials will not be permitted.

All materials stored on site shall be limited to areas which are protected to minimize the exposure of such materials to storm water.

PERMANENT SEEDING

SITE PREPARATION

1. A 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. Resoil 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 lb./1,000 sq. ft. or 2 tons/ac.

2. Fertilizer--Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 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 in. 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 Aug 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is

MULCHING

1. 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.

2. Materials:
 - Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 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 1,000-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 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
3. 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.

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. Seedings shall not be planted 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":
 - From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
 - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
 - Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
 - Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.

Permanent Seeding			
Seed Mix	Seeding Rate		Notes:
	lb./ac.	lb./1,000ft. ²	
General Use			
Creeping Red Fescue	20-40	½-1	
Domestic Ryegrass	10-20	¼-½	
Kentucky Bluegrass	10-20	¼-½	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
Steep Banks or Cut Slopes			
Tall Fescue	40	1	
Crown Vetch	10	¼	Do not seed later than August.
Tall Fescue	20	½	
Fiat Pea	20	½	Do not seed later than August.
Tall Fescue	20	½	
Road Ditches and Swales			
Tall Fescue	40	1	
Dwarf Fescue	90	2 ¼	
Kentucky Bluegrass	5		
Lawns			
Kentucky Bluegrass	60	1 ½	
Perennial Ryegrass	60	1 ½	
Kentucky Bluegrass	60	1 ½	For shaded areas
Creeping Red Fescue	60	1 ½	
Note: Other approved seed species may be substituted.			

1. Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation reestablished as needed. Depending on-site conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.

2. Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

Maintenance for Permanent Seedings Fertilization and Mowing					
Mixture	Formula	lb./ac.	lb./1,000 ft. ²	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 yr. thereafter	Do not mow
Fiat Pea Fescue	0-20-20	400	10		Do not mow
Note: Following soil test recommendations is preferred to fertilizer rates shown above.					

NOTES:
IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

STORMWATER CONTROLS (INLET PROTECTION, PERIMETER CONTROLS, SKIMMER, ECT.) STAY IN PLACE THROUGHOUT THE HOME BUILDING PHASE.

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
Any other areas at final grade	Within seven days of reaching final grade within that area

Table 2: Temporary Stabilization

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

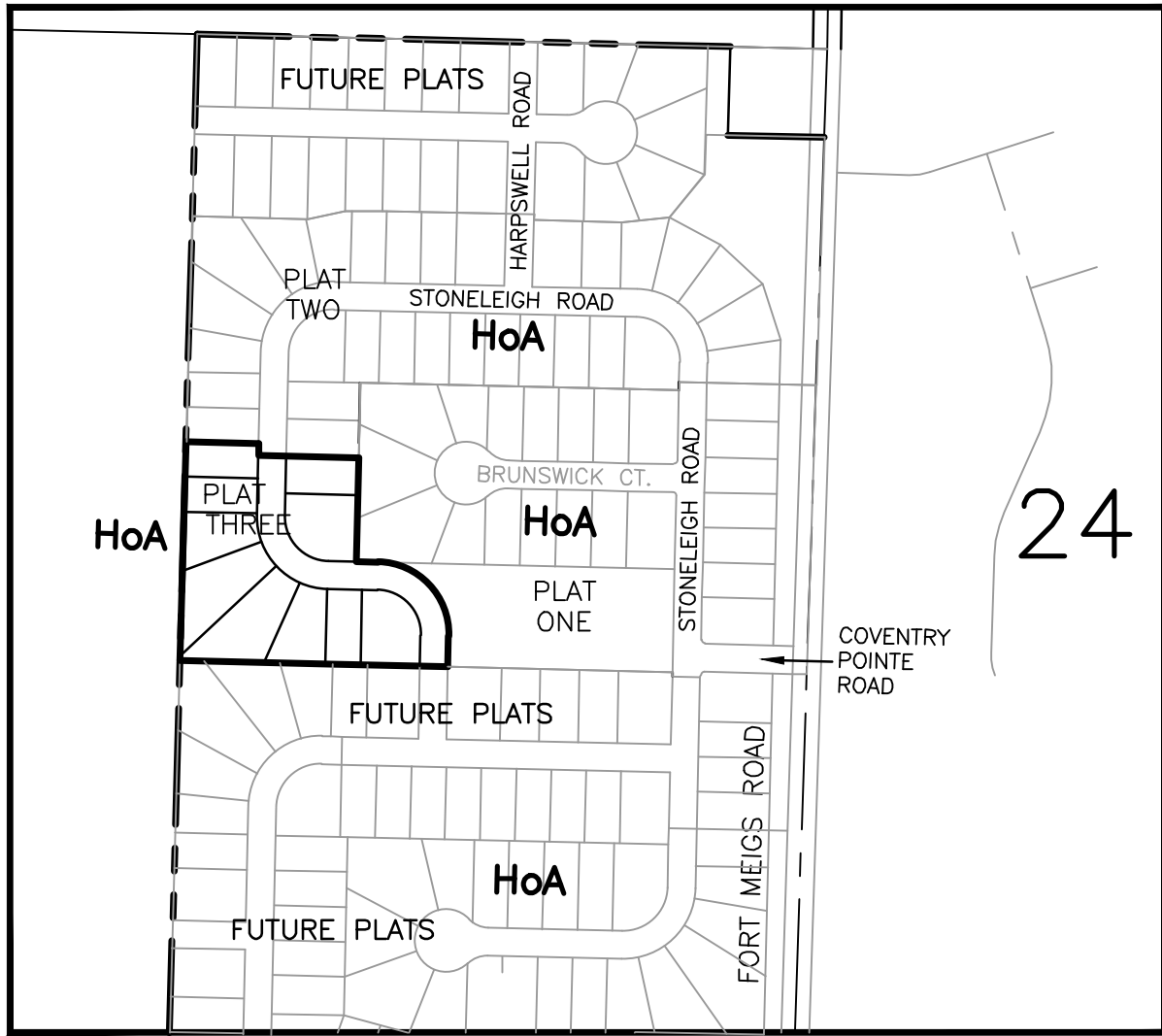
Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed. Permanent and temporary stabilization are defined in Part VII.

IMPLEMENTATION SCHEDULE

- Phase I
SITE PREPARATION PHASE
- ESTIMATED START: MARCH 2023; ESTIMATED COMPLETION: MARCH 2023
 - INSTALL CONSTRUCTION ENTRANCE
 - INSTALL SEDIMENT CONTROL MEASURES
 - CLEAR AND GRUB SITE. SEDIMENT CONTROLS TO BE INSTALLED WITHIN 7 DAYS OF GRUBBING ACTIVITY
 - STABILIZATION REQUIRED IF AREA WILL BE DORMANT FOR 14 DAYS OR LONGER
 - THE STORMWATER CONTROLS WILL REMAIN FOR THE DURATION OF THE CONSTRUCTION

- Phase II
SITE UTILITY AND STREET PHASE
- ESTIMATED START: MARCH 2023; ESTIMATED COMPLETION: SEPTEMBER 2023
 - INSTALL UNDERGROUND UTILITIES
 - INSTALL INLET CONTROLS
 - INSTALL CONCRETE WASHOUT
 - EXCAVATE AND BUILD ROADWAYS
 - GRADE BACK OF CURB AND SWALES
 - COMPLETE ROUGH GRADING
 - INSTALL TEMPORARY SEEDING
 - STABILIZATION WILL BE REQUIRED DURING AND AFTER THIS PHASE
 - STORMWATER CONTROLS WILL REMAIN FOR DURATION OF THE CONSTRUCTION

- Phase III
HOME BUILDING AND SITE FINISHES
- ESTIMATED START: SEPTEMBER 2023; ESTIMATED COMPLETION: SEPTEMBER 2024
 - HOME BUILDER TO APPLY FOR INDIVIDUAL LOT NOTICE OF INTENT (NOI)
 - INSTALL INDIVIDUAL FAMILY LOT EROSION CONTROLS
 - BUILD HOUSES
 - COMPLETE FINAL GRADING
 - INSTALL PERMANENT SEEDING
 - HOME BUILDER SUBMIT INDIVIDUAL LOT NOTICE OF TERMINATION (NOT) AS LOTS ARE STABILIZED
 - REMOVE SEDIMENT CONTROLS
 - DEVELOPER TO SUBMIT ENTIRE SITE NOT
 - STABILIZATION WILL BE REQUIRED DURING AND AFTER THIS PHASE



SOILS MAP
(PER USDA WEB SOIL SURVEY WEBSITE)
NTS
HoA = HOYTVILLE CLAY LOAM

- Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).
- Log Sheet: A written log sheet must accompany each DVD/ICD.
- For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.
- For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.
- Reference to new and existing manhole numbers on the DVD/ICD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.

3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)

- Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- Asphalt Concrete Pavement:
 - ODOT Item 304; construct a 10-inch thick aggregate base in two equal lifts.
 - ODOT Item 408; apply prime coat at the rate of 0.35 gallons per square yard to the aggregate base. Installation to as be directed by the City.
 - ODOT Item 448; construct a 2-inch thick asphalt concrete intermediate course.
 - ODOT Item 448; construct a 1-1/2-inch thick asphalt concrete surface course.
 - ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface course and joints.
 - Pavement sealer, apply as instructed by manufacturer.
- Concrete Driveways and Parking Areas: ODOT Item 452.
- Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

- Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.

PAVEMENT AND STORM SEWER SPECIFICATIONS

- Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- The City will approve proposed material to be installed.

3.9 FIELD QUALITY CONTROL

- The City may check compaction of the bedding and backfill at any time.
- All testing shall be in the presence of the City or its' representative.

- For compacted bedding and backfill in trenches and for concrete work, the City may require the employing a testing laboratory to make tests on Site.
 - The City will pay for required testing that meets the City bedding and backfilling specifications.
 - Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

- Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.
- Conduct deflection tests with a representative of the City present.
- Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after the pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.
- Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.
- Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:

- Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.
- Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.
- Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.

3.10 MAINTENANCE OF TRAFFIC

- Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices.

SUMMARY INFORMATION FOR STORM WATER QUALITY IN EX. NORTH POND

CONTRIBUTING DRAINAGE AREA	CONTRIBUTING DISTURBED AREA	SEDIMENT BASIN (DURING CONSTRUCTION)			PERMANENT STORMWATER FACILITY (POST CONSTRUCTION)		
		DEWATERING VOLUME	SEDIMENT STORAGE VOLUME	SKIMMER ORIFICE SIZE	WATER QUALITY VOLUME-WQv	DETENTION TIME	WQv ORIFICE SIZE
	(AC.)	(CU. FT.)	(CU. FT.)	(INCHES)	(CU. FT.)	(HOURS)	(SQ. IN.)
PLAT ONE = 14.90 AC PLAT TWO = 11.46 AC PLAT THREE = 4.46 TOTAL = 32.09 AC	PLAT ONE, PLAT TWO & PLAT THREE = 30.85 AC	REQUIRED VOLUME = 57,762 PROVIDED VOLUME = 61,002	REQUIRED VOLUME = 30,850 PROVIDED VOLUME = 129,809	3.5"	N/A DURING CONSTRUCTION		
ENTIRE AREA = 41.57 AC	ENTIRE AREA = 39.95 AC	REQUIRED VOLUME = 74,826 PROVIDED VOLUME = 75,110	REQUIRED VOLUME = 39,950 PROVIDED VOLUME = 129,809	3.5"			

EX. NORTH POND DATA	
TYPE OF CONSTRUCTION:	LOW DENSITY RESIDENTIAL
PLAT AREA TO NORTH POND:	4.46 AC.
PLAT THREE DISTURBED AREA TO NORTH POND:	4.79 AC.
PLAT ONE, TWO & THREE DISTURBED AREA:	30.85 AC.
ENTIRE DISTURBED AREA TO NORTH POND	39.95 AC.
ENTIRE AREA DRAINING INTO NORTH POND	41.57 AC.
PRE-CONSTRUCTION RUNOFF COEFFICIENT:	0.10
POST-CONSTRUCTION RUNOFF COEFFICIENT:	0.40
IMPERVIOUS AREA:	1.25 AC.
% IMPERVIOUS AFTER CONSTRUCTION:	26%
SOIL TYPE (HYDROLOGIC GROUP):	D
PRIOR LAND USE:	CROP FARMING
RECEIVING STREAM:	FORT MEIGS DITCH
SEDIMENT STORAGE VOLUME REQUIRED FOR PLAT ONE, TWO & THREE (1000 CU. FT. PER DISTURBED ACRE)	30,850 CU. FT.
SEDIMENT STORAGE VOLUME REQUIRED FOR ENTIRE DISTURBED AREA TO NORTH POND	39,950 CU. FT.
SEDIMENT STORAGE VOLUME PROVIDED - NORTH POND	129,809 CU. FT.
DEWATERING VOLUME REQUIRED - PLAT ONE, TWO & THREE DRAINAGE AREA (1800 CU. FT. PER ACRE DRAINING IN)	57,762 CU. FT.
DEWATERING VOLUME REQUIRED - ENTIRE DRAINAGE AREA TO NORTH POND	74,826 CU. FT.
DEWATERING VOLUME PROVIDED - (PLAT ONE, TWO & THREE)	61,002 CU. FT.
DEWATERING VOLUME PROVIDED - ENTIRE DRAINAGE AREA TO NORTH POND	75,110 CU. FT.
WATER QUALITY DETENTION VOLUME REQUIRED - ENTIRE AREA TO NORTH POND	42,237 CU. FT.
WATER QUALITY DETENTION VOLUME PROVIDED - ENTIRE AREA TO NORTH POND	44,289 CU. FT.

EX. NORTH POND WATER QUANTITY	
STORAGE VOLUME REQUIRED	= 122,990 CU. FT.
STORAGE VOLUME PROVIDED	= 125,699 CU. FT.
NORMAL WATER ELEVATION	= 642.50
100 YR. WATER ELEVATION	= 646.20
10 YR. WATER ELEVATION	= 645.00

RECORD CONSTRUCTION 01/04/24

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10E08869-3

LAWN INSTALLERS WILL BE REQUIRED TO CERTIFY THAT FERTILIZER APPLICATION RATES WILL NOT BE APPLIED IN EXCESS OF THE PHOSPHOROUS LOADING RATE NECESSARY TO ESTABLISH NEW LAWN AND LANDSCAPING.

NOTE:
THE HOME BUILDER SHALL INSTALL AND MAINTAIN A "GRAVEL CONSTRUCTION ENTRANCE" TO CONTROL THE TRACKING OF DEBRIS ONTO PUBLIC ROADS. IT SHALL CONSIST OF A MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET WIDE AND 40 FEET IN LENGTH.

NOTE:
THE DEVELOPER IS RESPONSIBLE FOR KEEPING THE STORM SEWERS CLEAN DURING CONSTRUCTION UNTIL HOME LOT CONSTRUCTION IS COMPLETED.

BENCH MARK DATA

WOOD COUNTY BENCH MARK

MCO668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

ELEVATION 650.10

SITE BENCH #201

MAG NAIL SET IN WEST FACE OF 2ND POWER POLE SOUTH
OF ROACHTON ROAD ON FORT MEIGS ROAD.

ELEVATION 651.45

SITE BM #202

MAG NAIL SET IN WEST FACE OF 1ST POWER POLE NORTH
OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08

SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION
ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS
(LOLIUM PERRENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM).
SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS
OF WAY, EASEMENTS, AND ALL DISTURBED AREAS WITHIN EXISTING
CITY OF PERRYSBURG RIGHTS OF WAY.

1. CONSTRUCTION SEEDING AND MULCHING SHALL BE COMPLETED
ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF
THESE AREAS ARE TO REMAIN UNDISTURBED FOR MORE THAN
14 DAYS.
2. PERMANENT OR CONSTRUCTION SEEDING AND MULCHING SHALL
BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7)
DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF
THE SITE.
3. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF
CONSTRUCTION OR PERMANENT SEEDING, NON-VEGETATIVE SOIL
STABILIZATION PRACTICES SUCH AS MULCHING & MATTING SHALL
BE USED.

LEGEND

EXISTING GROUND ELEVATIONS

EXISTING CONTOURS

PROPOSED ELEVATIONS (00.0)

PROPOSED GROUND ELEVATIONS AT HOUSE . . (00.0)

PROPOSED = EXISTING (00.0E)

PROPOSED TOP OF WALK ELEVATIONS (00.0W)

PROPOSED RIM ELEVATIONS (00.0R)

ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.

ALL PAVEMENT GRADES ARE TOP OF CURB.

- ⊙ = IRON PIN (BY SURVEYOR)
- ⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
- ⊗ = EXISTING MONUMENT ASSEMBLY
- ⊗ = MONUMENT ASSEMBLY (WOOD COUNTY, TYPE A) BY SURVEYOR
- ▬ = CONCRETE WALK & RAMPS BY OTHERS.
- ▬ = CONCRETE WALK BY CONTRACTOR

NOTE:

A COMPLETE SWP3 PACKET SHOULD BE AVAILABLE ONSITE AT A
MAILBOX OR JOB TRAILER AT ALL TIMES DURING WORKING
HOURS. THE SWP3 PACKET SHALL INCLUDE:

- THE SWP3 PLANS
- A COPY OF THE NOI AND APPROVAL FROM THE EPA
- INSPECTION LOGS OF WEEKLY INSPECTIONS AND INSPECTIONS
AFTER A 1/2" RAIN EVENT.
- SUB-CONTRACTOR SIGN-OFF LOGS, SHARING AWARENESS OF
THE SWP3

_____ SHALL BE IN CHARGE OF ALL
INSPECTIONS AND FELLER, FINCH & ASSOCIATES, INC. SHALL BE
IN CHARGE OF REVISIONS DURING CONSTRUCTION.

EASEMENT ABBREVIATIONS

S.E. SANITARY EASEMENT
D.U.E. DRAINAGE & UTILITY EASEMENT
U.T.E. UTILITY & TOLEDO EDISON
EASEMENT



NORTH
SCALE: 1"=50'

NOTE:

NO SURFACE WATER SHALL BE ALLOWED TO RUN OFF
THE SITE UNTIL FINAL GRADING IS COMPLETED. THE
CONTRACTOR SHALL DIVERT ALL SURFACE WATER TO
REMAIN ON SITE; AND MAINTAIN ALL TEMPORARY
SEDIMENT AND EROSION CONTROL FEATURES.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN A
"CONSTRUCTION ENTRANCE" WHERE PROPOSED ROAD
MEETS EXISTING ROAD. IT SHALL CONSIST OF A
MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET
WIDE AND 70 FEET IN LENGTH. THE LUMP SUM
PRICE BID FOR ITEM 207 "TEMPORARY CONSTRUCTION
ENTRANCE" SHALL INCLUDE ALL COSTS FOR
INSTALLATION AND REMOVAL AS REQUIRED.

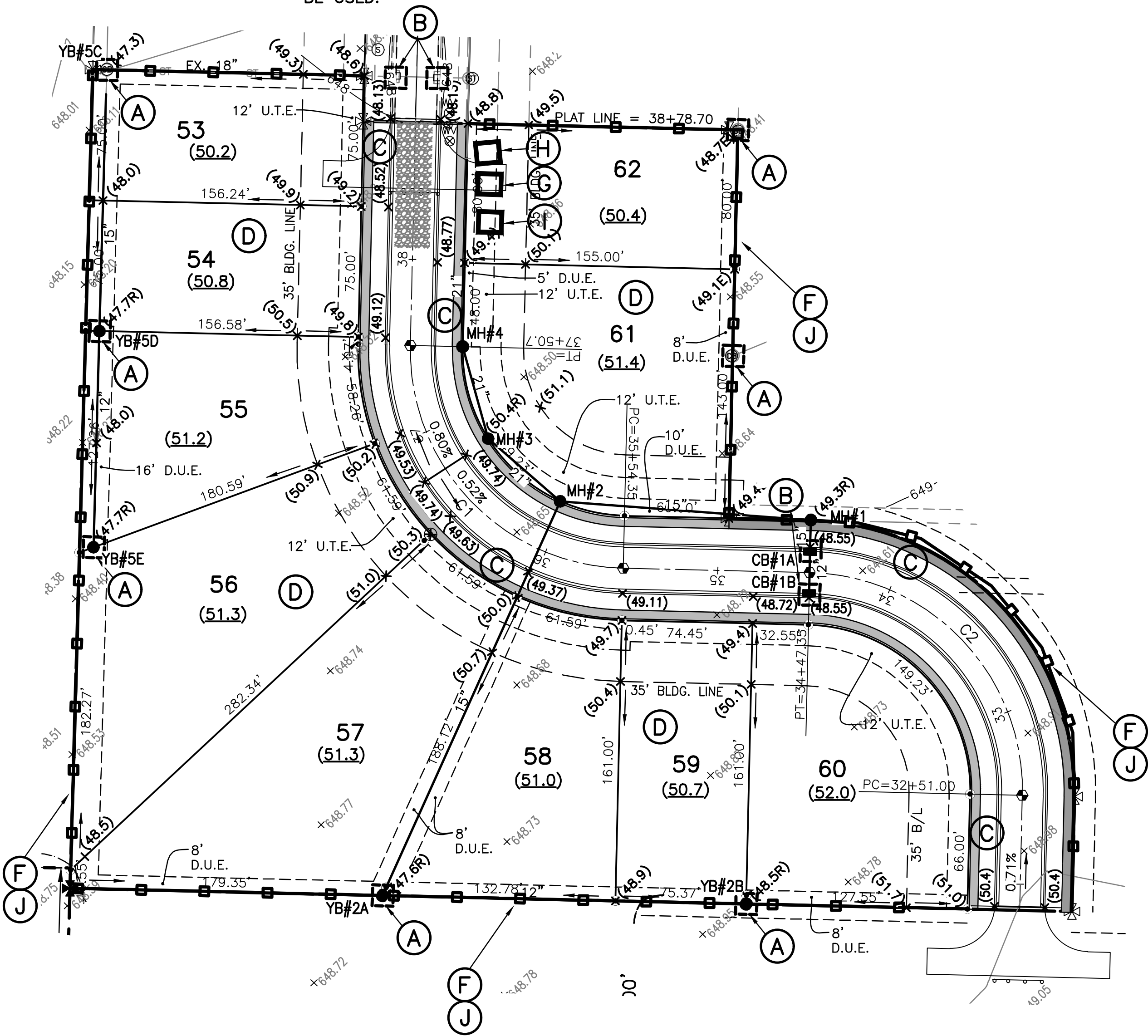
OWNER CERTIFICATION:

I certify under penalty of law that this document and all
attachments were prepared under my direction or supervision in
accordance with a system designed to assure that qualified
personnel properly gathered and evaluated the information
submitted. Based on my inquiry of the person or persons who
manage the system or those persons directly responsible for
gathering the information, the information submitted is, to the
best of my knowledge and belief, true, accurate and complete.
I am aware that there are significant penalties for submitting
false information, including the possibility of fine and
imprisonment for knowing violations.

NAME _____

EPSC LEGEND

- INLET PROTECTION FILTER (OR APPROVED EQUAL) (A)
- CURB INLET SEDIMENT FILTER (B)
- PERMANENT SEEDING AND MULCHING (R/W) (C)
- CONSTRUCTION SEEDING (D)
- CONSTRUCTION ENTRANCE (E)
- PERIMETER CONTROL (F)(J)
- CONCRETE WASHOUT AREA (G)
- MATERIALS STORAGE AREA (H)
- SWP3 RECORD LOCATION (I)



SEE SHEET 13 FOR
EXISTING WATER QUALITY
OUTLET STRUCTURE.

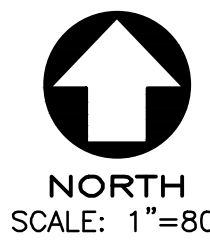
SEE EROSION CONTROL
NOTES AND DETAILS ON
SHEETS 21-23.

SEE SHEET 23 FOR
WATER QUALITY
INFORMATION
AND IMPLEMENTATION
SCHEDULE

RECORD CONSTRUCTION 01/04/24

17
18

10E08869-3



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-088690P01A1



- ENTIRE DRAINAGE AREA TO NORTH POND = 41.57 Ac.
- PLAT ONE, TWO & THREE DRAINAGE AREA TO NORTH POND = 30.82 Ac.
- ENTIRE DISTURBED AREA TO NORTH POND = 39.95 Ac.
- PLAT THREE DISTURBED AREA = 4.79 Ac.
- PLAT ONE, TWO & THREE DISTURBED AREA = 31.07 Ac.

SEE EROSION CONTROL
NOTES AND DETAILS ON
SHEETS 14-16.

RECORD CONSTRUCTION 01/04/24

SANITARY SEWER IMPROVEMENTS
FOR
Coventry Pointe Plat Three

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-5
PLAN AND PROFILE	7

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

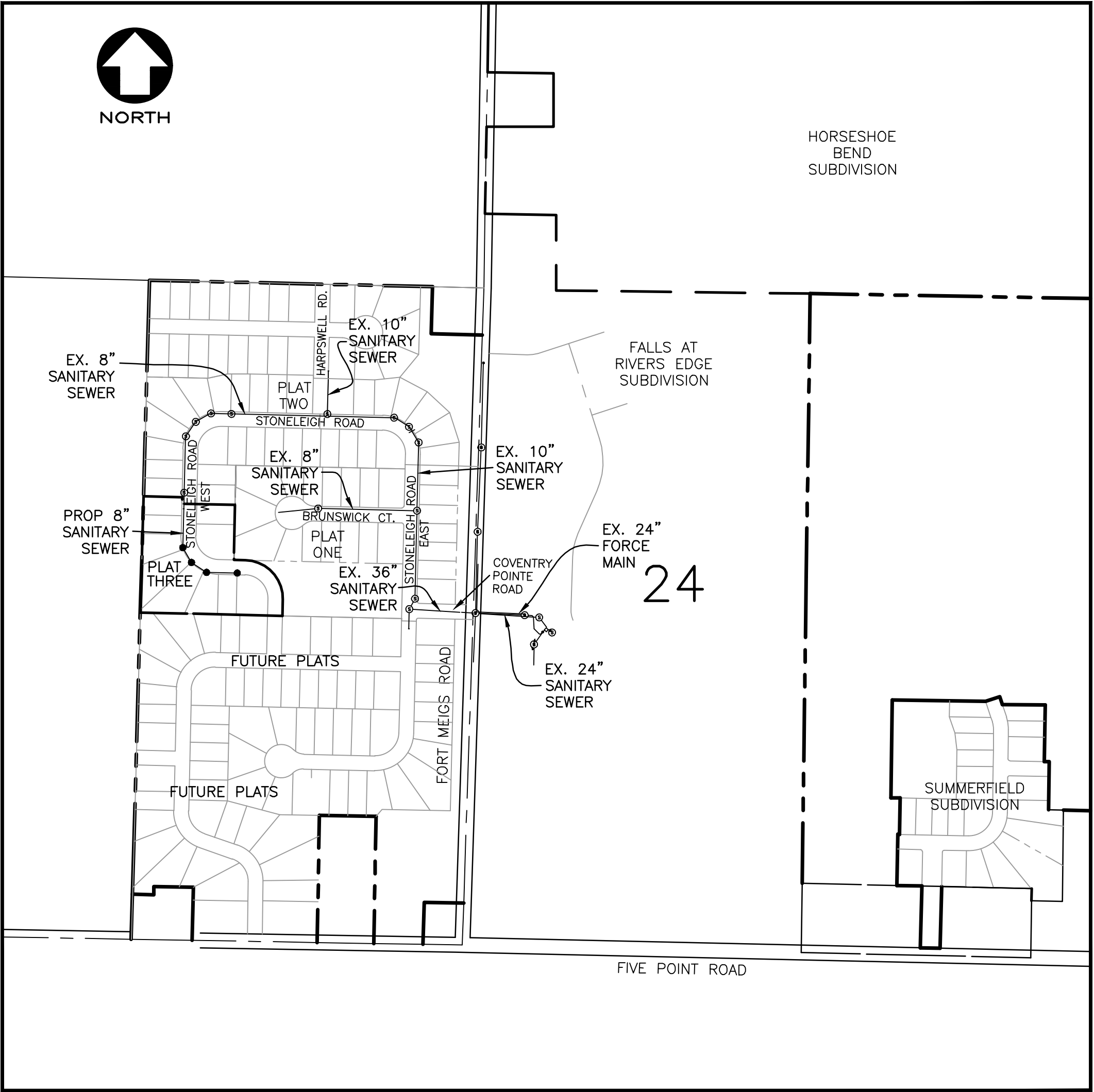
ELEVATION 650.10'

SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

ELEVATION 651.45

SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08



KEY MAP
SCALE: 1"=400'

SANITARY SEWER SUMMARY

ITEM	QTY.	UNIT	DESCRIPTION
611	42	FT.	6" CONDUIT, TYPE B
611	258	FT.	6" CONDUIT, TYPE C
611	423	FT.	8" CONDUIT, TYPE C
611	36.76	VERT. FT.	SANITARY MANHOLE INCLUDING CASTING (4)
NON-BID ITEMS			
	3	EACH	6" ON 8" TEE WYE
	11	EACH	6" PLUG
	1	EACH	6" ON 6" DBL. WYE

APPROVALS: _____

CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

DATE

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	—S—	—S—
STORM SEWER	—ST—	—ST—
WATERMAIN	—W—	—W—
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊙
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕

RECORD CONSTRUCTION 01/04/24

KEEP ALL MANHOLES, VALVE BOXES AND APPURTENANCES OUT
OF THE SIDEWALK, DRIVEWAYS AND PAVED AREAS.

DEVELOPED BY:

COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

NAME _____ DATE _____

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
PART 1 GENERAL	1.1 SUMMARY
	A. Sanitary sewers, 48 inches in diameter and smaller.
	B. Pavement for local roads.
	C. Audio-DVD/CD taping of existing and new storm sewer interiors.
	1.2 STANDARDS
	A. All materials and construction shall be in accordance with the Standards and Specifications of the City of Perrysburg (the City) Department of Public Service/Utilities, and/or the American Society for Testing and Materials (ASTM), and/or the Wood County Engineer, and/or the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). In case of conflict, City Standards and Specifications shall take precedence.
	B. All reference to Standards and Specifications are to the latest edition, unless otherwise noted.
	C. The City's Pavement and Sanitary Sewer Standard Details apply to these specifications.
1.3 PRE-CONSTRUCTION MEETINGS, INSPECTION, AND PERMITS	A. The Department of Public Utilities (419-872-8050), shall be notified seven calendar days prior to the beginning of actual construction.
	B. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the City's Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8050.
	C. All sanitary sewer installation and testing shall be inspected by the City or its representative.
	D. The City or its representative shall be present during all sanitary sewer TV inspection and taping.
	1.4 DEFINITIONS
	A. Bedding: Material placed under, beside and directly over the pipe for the full width of the trench, from a depth of 4 inches below the outside bottom of the pipe barrel, when the pipe is laid on its final grade, up to a horizontal plane a distance of 12 inches above the top of the pipe barrel.
1.5 REGULATORY REQUIREMENTS	C:\Users\nsommers\Desktop\11x17 sanitary specifications_revised_01-24-2017.docx

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JANUARY 2017

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
PART 2 PRODUCTS	2.1 PIPE MATERIAL
	A. PVC Plastic Pipe and Fittings:
	1. ASTM D3034 (4" thru 15" pipe sewer).
	2. ASTM F679 (18" thru 27" pipe sewer).
	3. ASTM F 754 and ASTM F 1803 (30" thru 48" pipe sewer), as applicable and approved by the City, for the sizes involved, minimum pipe stiffness of 46 psi at 5 percent deflection when tested in accordance with ASTM D2412; ASTM D3212 elastomeric gasket joint (integral ball), push-on type with ball designed to retain the gasket to prevent pull-out during making of the joint.
	4. An exception shall be made for ASTM D3034 PVC plastic fittings 3 inches in size and smaller, with such fittings to have
PART 2 PRODUCTS	2.2 MANHOLES
	A. Materials
	1. Precast Concrete Sections: ASTM C478.
	2. Cast-In-Place Concrete: ODOT Class C Concrete.
	3. Concrete Fit: ODOT Class F concrete.
	4. Resilient Connectors: ASTM C923; A-Lok by A-Lok Corporation, Kor-N-Seal by National Pollution Control Systems, Inc. or as approved.
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	5. Rubber Gasket Joints: ASTM C443.
	6. Flexible Plastic Gasket Material: Federal Specifications SS-S-210A and AASHTO M-198B; Hamilton-Kent Manufacturing Company, Concrete Sealants, Inc., or as approved.
	7. Manhole Steps: ASTM C478.
	8. Castings: ASTM A48, Class 30B heavy duty gray iron.
	9. Mortar: ASTM C270, Type S with no masonry cement; compose using two parts Portland cement to two parts sand by volume.
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	10. Stone Fill: Standard size number 67 or number 57 stone or as otherwise approved.
	11. Sewer Pipe and Fittings for Drop Connections and Pipe Sewer Plugs: Same type as pipe sewer; plugs to be specifically designed for use with the pipe, and shall be watertight, for permanent or temporary use, and removable without damaging the pipe; stainless steel anchor straps for inside drop connections with stainless steel anchors.
	12. Grout: Non-shrink and non-corrosive; Five Star Grout, by Five Star Products, Sealtight 588 Grout by W.R. Meadows, Inc., or as approved.
	13. Joint Sealant: Madwell 806 Flexible Joint Sealant, Mastic.
	Components:
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	1. Bases: Base riser section with integral floor; provide resilient connectors for connecting pipes to manholes; provide transition sections when base is greater than 48 inch diameter.
	2. Walls: Vertical precast concrete riser sections with rubber gasket joints; provide flexible plastic gasket material on the outside shoulder of the joints; external joint sealing bands on all joints; flexible plastic gasket material shall not interfere with proper sealing of the rubber gaskets.
	3. Tops: Eccentric cone top section narrowing down to a minimum 3 inch high vertical neck with an inside diameter of not less than 24 inches and outside diameter not less than that of grade rings, except reinforced flat slab top for manholes too shallow to accommodate a cone section; design flat slab tops to withstand H-20 traffic loading and
	submit design calculations to the City upon request; provide grade rings for a minimum height of 4 inches and a maximum height of 12 inches as required to set castings at proper elevation; ring inside diameter equal to the top section access opening, and outside diameter not less than the outside diameter of the casting frame.
	4. Manhole Steps: Aluminum or reinforced polypropylene.
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	5. Manhole Frame and Cover:
	a. Minimum Total weight of 375 pounds, machined bearing surfaces, frame with four equally spaced anchor bolts in the base flange; 24 inch diameter clear opening and 7 inch height, cover with words "CITY OF PERRYSBURG, OHIO SANITARY" cast into top, and the following types:
	1) Gasketed Covers: East Jordan Iron Works Cat. No. 1040A with Type A Heavy Duty solid cover, or as approved, with the cover having a factory-installed gasket and no open pickholes.
	2) Gasketed Frame: East Jordan Iron Works Cat. No. 1045Z or as approved.
	6. Drop Connections:
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	a. 12 inches Diameter and Smaller Inlet Pipe: Reline Inside Drop System as manufactured by Reliner/Duran, Inc. of Lyme, CT. Consists of a marine grade fiberglass drop bowl, "A" size for up to 8-inch inlet pipe and "B" size for 10 and 12-inch inlet pipe; minimum of two 1-1/2 inch wide 11 gage Type 304 stainless steel adjustable clamping brackets; manufacturers stainless steel fasteners as required for bowl size and length of drop pipe. Provide an ASTM D3034 PVC SDR 35 drop pipe sized for drop bowl with 45 degree elbow at outlet end and flexible coupling to connect pipe to bowl outlet.
	b. Larger Than 12 inches Diameter Inlet Pipe: Consists of a tee at the upper end, a vertical section of pipe, and a 90 degree bend at the lower end. Encase outside drops in concrete with hook bolts and expansion shields. Secure inside drop in place with anchor straps and anchors. Diameter of drop connection to be two sizes smaller than the inlet sewer, but not less than 8 inches. Provide a plug in upstream end of tee when not immediately connected. Hardware for all internal drops shall meet the requirements of ASTM F553 Type 316, stainless steel
	2.3 BEDDING MATERIALS
	A. Granular: ODOT Item 703, Size No. 67 or No. 57 crushed limestone.
	B. Concrete Encasement: ODOT Class C concrete.
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	2.4 BACKFILL
	A. Granular: ODOT Item 703, Size No. 67 or No. 57 crushed limestone.
	B. Concrete Encasement: ODOT Class C concrete.
	C. Install three foot minimum into each lot, or as otherwise noted, rise to line and on at least 1 percent grade with a minimum depth of 6 feet at the property line or the maximum depth possible for main sewers less than 8 feet deep, plus deep enough to serve all basements where the main sewer allows.
	D. Underdrains: ODOT Item 605 using pipe 706.06, 706.07, 706.08 or 707.41.
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	C:\Users\nsommers\Desktop\11x17 sanitary specifications_revised_01-24-2017.docx

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JANUARY 2017

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
PART 2 PRODUCTS	2.5 LOCAL ROADS
	A. Asphalt Concrete Pavement:
	1. 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
	2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
	3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
PART 2 PRODUCTS	4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
	5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
	6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
	7. Pavement Sealer: When requested by and as approved by the City.
	B. Concrete Driveways and Parking Areas:
PART 2 PRODUCTS	1. Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
	a. Commercial Drives: minimum 9 inch thick or match existing
	b. Residential Drives: minimum 6 inch thick or match existing
	2. Reinforcement: Match existing.
	3. Hook Bolts or Deformed Bars in Roadways:
PART 2 PRODUCTS	a. Provide 5/8-inch hook or deformed bolts where new abuts existing.
	b. Furnish and install at 30 inches center to center where new abuts existing longitudinally.
	c. When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center to center where new abuts existing transversely.
	d. When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center to center where new abuts existing transversely.
	C. Concrete Curbs: ODOT Item 609.04; Class C concrete.
PART 2 PRODUCTS	D. Underdrains: ODOT Item 605 using pipe 706.06, 706.07, 706.08 or 707.41.
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PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
PART 2 PRODUCTS	2.6 MONUMENT ASSEMBLY (IN PAVED AREAS)
	A. Neenah Foundry Company, R 1978 A2 with bolted lid.
	2.7 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
	A. Materials:
	1. Follow current ODOT Specifications 712.14 as modified herein:
PART 2 PRODUCTS	2. Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.
	3. Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.
	4. Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx (DETECTIBLE WARNINGS)
	B. Concrete: ODOT Class C.
PART 3 EXECUTION	3.1 SANITARY SEWER PIPE AND FITTINGS
	A. Install PVC plastic pipe and fittings in accordance with ASTM D2321 (as modified by these specifications) and the requirements of these specifications.
	B. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.
	C. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).
	D. Construct concrete encasement for sewers under creeks.
PART 3 EXECUTION	E. Install pipe at a minimum 10 feet horizontal distance from water mains and hydrants, and lay pipes at a minimum 18 inches vertical distance from water mains at their crossing, both as measured between the outside of the pipe walls. At crossings, install one full length of pipe so both joints will be as far from the main as possible.
	F. From the top of the bedding to a point 5 feet below the adjacent ground level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stoned streets, alleys, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum
	36-inch layers, loose measurement. Mechanically level the crushed stone and compact each layer with an excavator-mounted vibratory plate compactor that produces a rated compactive force of at least 9 psi. Each layer to receive a minimum of two complete passes, except where CDF is indicated on the Drawings.
	G. The top 5 feet of the trench shall be backfilled with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.
	H. For trenches within 5 feet from the edge of existing and proposed paved or stoned streets, alleys, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.
PART 3 EXECUTION	I. For backfilling trenches in yard/grassed areas, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 18-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.
	J. For backfilling trenches within 5 feet of existing and proposed sidewalks and driveways, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 12-inch layers, loose measurement, and compact by mechanical tamping. In no case shall the compaction be less than 92% as determined by the Standard Proctor Test.
	K. Changes in pipe material to meet City Specifications shall occur only at manholes.
	3.2 MANHOLES
	A. Install base with top surface level; install on cushion of approved compacted granular material, minimum 3 inches thick.
PART 3 EXECUTION	B. Install wall sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	C. Inspection Operations
	1. The camera shall be moved through the pipe sewer in either direction at a moderate rate (at no time shall the speed be greater than 30 feet per minute).
	2. The camera shall be stopped when necessary to permit proper documentation of the sewer's condition.
PART 3 EXECUTION	3. All service connections and inlets shall be noted on the tape.
	4. Manual winches, power winched, TV cable and powered winches or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line.
	5. When manually operated winches are used to pull the television camera through the sewer line, telephones or other suitable means of communication shall be set up between the two manholes on the section being inspected to insure good communications between members of the crew.
	6. Documentation made during inspection operations must conform to the following guidelines:
PART 3 EXECUTION	a. Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).
	b. Log Sheet: A written log sheet must accompany each DVD/CD.
	c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.
	d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.
	e. Reference to new and existing manhole numbers on the DVD/CD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.
PART 3 EXECUTION	3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)
	A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
	B. Asphalt Concrete Pavement:
	1. 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
	2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
PART 3 EXECUTION	C. Closed-circuit TV (CCTV) Camera System:
	D. Connect unlike types and sizes of pipe using proper adapter or connector by Fernco, Inc., Joints, Inc., or as approved.
	E. Connect to the main sewer by providing an appropriate sized stainless steel sewer pipe saddle as manufactured by The General Engineering Company, or as approved.
	F. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	G. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	H. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	I. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	J. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	K. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	L. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	M. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	N. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	O. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	P. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	Q. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	R. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	S. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	T. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	V. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	W. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	X. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	Y. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	AA. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	AB. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AC. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	AF. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	AG. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AH. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	AJ. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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PART 3 EXECUTION	AL. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AM. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AN. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AO. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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PART 3 EXECUTION	AQ. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	AT. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AU. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	AV. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AW. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AX. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AY. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	AZ. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	BA. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BB. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BC. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BD. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BE. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	BF. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BG. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BH. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
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	BJ. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
PART 3 EXECUTION	BK. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BL. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
	BM. Provide riser sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
5. ODOT Item 407: apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
7. Pavement Sealer: When requested by and as approved by the City.

- C. Concrete Driveways and Parking Areas: ODOT Item 452.

- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.

- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.

- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.

- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.

- D. The City will approve proposed material to be installed.

3.9 FIELD QUALITY CONTROL

- A. The City may check compaction of the bedding and backfill at any time.

- B. All testing shall be in the presence of the City or its representative.

- C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing of a testing laboratory to make tests on site.

1. The City shall pay for required testing that meets the City bedding and backfilling specifications.

2. Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

1. Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.
2. Conduct deflection tests with a representative of City present.
3. Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.

4. Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.

5. Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:

- a. Old number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.

- b. Distance between plates, cut-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.

- c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch female loop insert or similar piece for attaching the pulling medium.

E. Sanitary Sewer Leakage Testing:

1. Performance Requirements

- a. Perform leakage testing for the entire length of Work after deflection testing, where possible. If leakage testing is performed before deflection testing, a test section failing deflection testing shall be retested for leakage after acceptable deflection testing.
- b. Perform with representative of the City present.

- c. Judgment of City's representative as to the acceptance of tests is final.

2. Preparation:

- a. Test each section of pipe for obstructions prior to testing for leakage using mandrels, solid cylinders, or balls with diameters of 95 percent of the pipe diameter. Remove obstructions.

- b. Determine ground water level by installing ground water gages in manholes as selected by the City. Gages shall consist of a rigid section of 1/2 inch diameter pipe, approximately 10 inches long, inserted horizontally through the manhole wall as near as possible to pipe crown, sealing any opening around the pipe water-tight, and a clear plastic tube attached to the pipe within the manhole and extended vertically to the top of the manhole. Prior to connecting the tube, blow air through the pipe with sufficient pressure to clear the line. Upon satisfactory completion of leakage testing, remove gages and permanently close openings in the manhole walls with non-shrink and non-metallic grout.

- c. Conduct an infiltration test on the main line sewer when pipe crown is covered with two feet or more of water at the highest point in the test section. Should ground water not provide sufficient head, flood trench within test section, bulkheading each end, to obtain or maintain the specified external head.

- d. Plugs used during leakage tests shall be of a length at least equal to the diameter of the pipe being tested to ensure a watertight seal.

3. Infiltration Tests:

- a. The length of sewer subject to each test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.

- b. Isolate test section and cap or plug all service connections and stubs within the section to prevent the entry of ground water.

- c. Measure infiltration by a V-notch weir located in the downstream manhole.

- d. Maintain test head for not less than 24 hours before a weir measurement is made.

- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.

4. Exfiltration Tests

- a. The length of sewer subject to an exfiltration test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.

- b. Close upstream and downstream manhole inlets with water-tight plugs and fill the test section with water until the elevation of the water in the upstream manhole is 2 feet above pipe crown in the line being tested, or 2 feet above the existing ground water in the trench, whichever is higher.

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	84"	96"	108"
8' or less	40	48	56
10'	50	58	67
12'	59	69	79
14'	68	80	92
16'	77	91	104
18'	87	102	116
20'	97	113	129
22'	106	123	140
24'	116	135	152
26'	125	148	168
28'	135	157	179
30'	144	168	192
32'	154	179	204
34'	162	190	217
36'	172	201	229
38'	182	213	242
40'	191	223	254

* When there is a transition involved, add the times for each size based on the depth associated with each size.

7. Repair/Replacement

- a. For any sewer test section failing to meet the limits of the Specifications, locate and remedy the defects causing the failure, retest the section, and continue repairs or replacement until the limits of the Specifications are satisfied.

- b. For sewers not accessible, should a test fail due to other than a leaking plug, conduct a closed circuit television inspection of the test section to determine the cause of the failure.

- c. When failure is the result of a leaking sewer joint, the joint may be chemically grouted.

- d. Television inspection and chemical grouting of sewer joints shall comply with all applicable "Recommended Specifications for Sewer Collection System Rehabilitation" of the National Association of Sewer Service Companies as approved by the City. Furnish the City two copies of a DVD/CD of all television inspections.

- e. If a manhole test is unsuccessful, make repairs and retest until a satisfactory test is obtained.

- f. Repair all visible leakage in sewers and manholes, even though tests may have been satisfactory.

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

3.10 MAINTENANCE OF TRAFFIC

Two way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices

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- c. A standpipe may be used instead of the upstream manhole for providing the pressure head when approved by the City.

- d. Measure exfiltration by determining the amount of water required to maintain the initial water elevation for 1 hour from the start of the test.

- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.

5. Air Tests:

- a. Conduct an air test between each two consecutive manholes.

- b. Pneumatic plugs shall be able to resist internal pressures without external blocking.

- c. Plug each end of the section to be tested and all pipe outlets in the section with suitable test plugs.

- d. One plug used at a manhole shall have an inlet tap or other provision for connecting an air hose from the air supply equipment.

- e. The equipment shall include valves to control the rate at which air flows into the test section and pressure gages with minimum graduations of 0.1 psi and an accuracy of +0.04 psi to monitor the air pressure within the test section.

- f. Apply air pressure slowly to the test section until the pressure reaches 4.0 psi, plus an adjustment of 0.433 psi for each foot of ground water above the pipe crown in the line being tested. Internal air pressure, including adjustment for ground water, should never exceed 5.0 psi.

- g. When the pressure reaches 4.0 psi, plus adjustment for ground water, throttle the air supply so that the internal pressure is maintained between 4.0 and 3.5 psi for at least 2 minutes to permit temperature stabilization. When the pressure has stabilized and is at or above 3.5 psi, disconnect the air supply, start a stopwatch, and allow stopwatch to run until the pressure has dropped 1.0 psi.

- h. Sewers of Plastic Pipe 27 Inches Diameter and Smaller: Calculate the permissible time allocated for the 1.0 psi pressure drop on the basis of the diameter and length of main sewer tested, no adjustment being made for service connections included in the test section. The air test for a section shall be considered acceptable if the time elapsed for the 1.0 psi pressure drop is equal to or greater than the time indicated, and shall be considered unacceptable if the elapsed time is less than that indicated in the following table:

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
4"	3:46	3:46	3:46	3:46

6"	5:40	5:40	5:40	5:40
8"	7:34	7:34	7:34	7:34
10"	9:26	9:26	9:26	9:53
12"	11:20	11:20	11:24	14:16
14"	14:10	14:10	17:48	22:15
18"	17:00	19:13	25:38	32:03
21"	19:50	26:10	34:54	43:37
24"	22:47	34:11	45:34	56:58
27"	28:51	43:16	57:41	72:07

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
4"	3:46	3:46	3:46	3:46
6"	5:40	5:40	5:42	6:24
8"	7:36	8:52	10:08	11:24
10"	11:52	13:51	15:49	17:48
12"	17:05	19:56	22:47	25:38

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
15"	26:42	31:09	35:36	40:04
18"	38:27	44:52	51:16	57:41
21"	52:21	61:00	69:48	78:31
24"	68:22	79:46	91:10	102:33
27"	86:32	100:57	115:22	129:48

* Interpolate time for intermediate lengths.

** If the test section fails and service connections were included in the test, re-compute test time to include service connections in accordance with 9.6 of ASTM F1417.

- i. Sewers 30 Inches in Diameter and Larger: Conduct individual air tests at joints, and lift holes, along with visual inspection. Perform air tests in accordance with all applicable requirements, with a test to be acceptable if the pressure holds or drops less than 1 psi in 5 seconds.

- j. Sections may be air tested before backfilling the trench as a check for defects and workmanship, but such tests are at CONTRACTOR's option and are not a substitute for tests required after backfilling has been completed.

- k. For main line sewers tested by infiltration or exfiltration, conduct air tests for the purpose of testing service connections even when the crown of the pipe is covered with 2 feet or more of water. For such tests, the internal air pressure shall never exceed 5.0 psi, and the acceptability of the tests will be based on the minimum holding time specified for the size of the main line sewer.

6. Manhole Tests:

- a. Test each manhole after assembly and after all lift holes have been plugged with non-shrink grout and, at Contractor's option, before or after completing backfilling.

- b. Test by drawing a vacuum on the manhole using equipment specifically designed for such testing.

- c. Plug and brace pipes entering the manhole to prevent being drawn into the manhole.

- d. Place a test head with necessary gages and connections at the inside of the top of the cone section and seal in accordance with the manufacturer's instructions.

- e. Draw a vacuum of 10 inches of mercury and then shut the vacuum pump off.

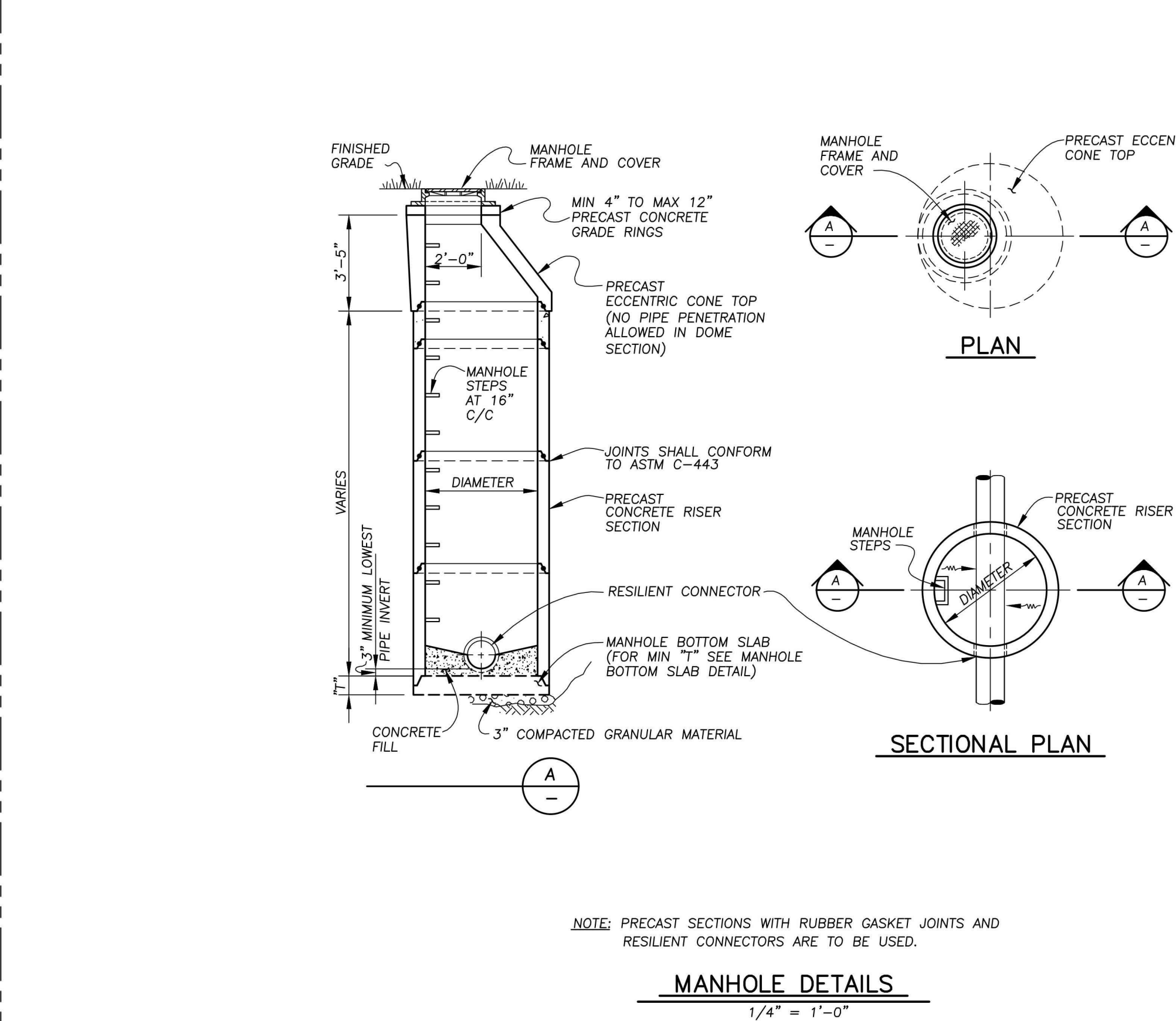
- f. With valves closed, measure the time for the vacuum to drop to 9 inches. The test shall be successful if the time measured meets or exceeds the values indicated in the following table:

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	48"	60"	72"
8' or less	20	26	33
10'	25	33	41
12'	30	39	49
14'	35	46	57
16'	40	52	65
18'	45	59	73
20'	50	65	81
22'	55	72	89
24'	59	78	97
26'	64	85	105
28'	69	91	113
30'	74	98	121
32'	79	104	128
34'	83	110	136
36'	88	116	144
38'	93	122	152
40'	97	128	159

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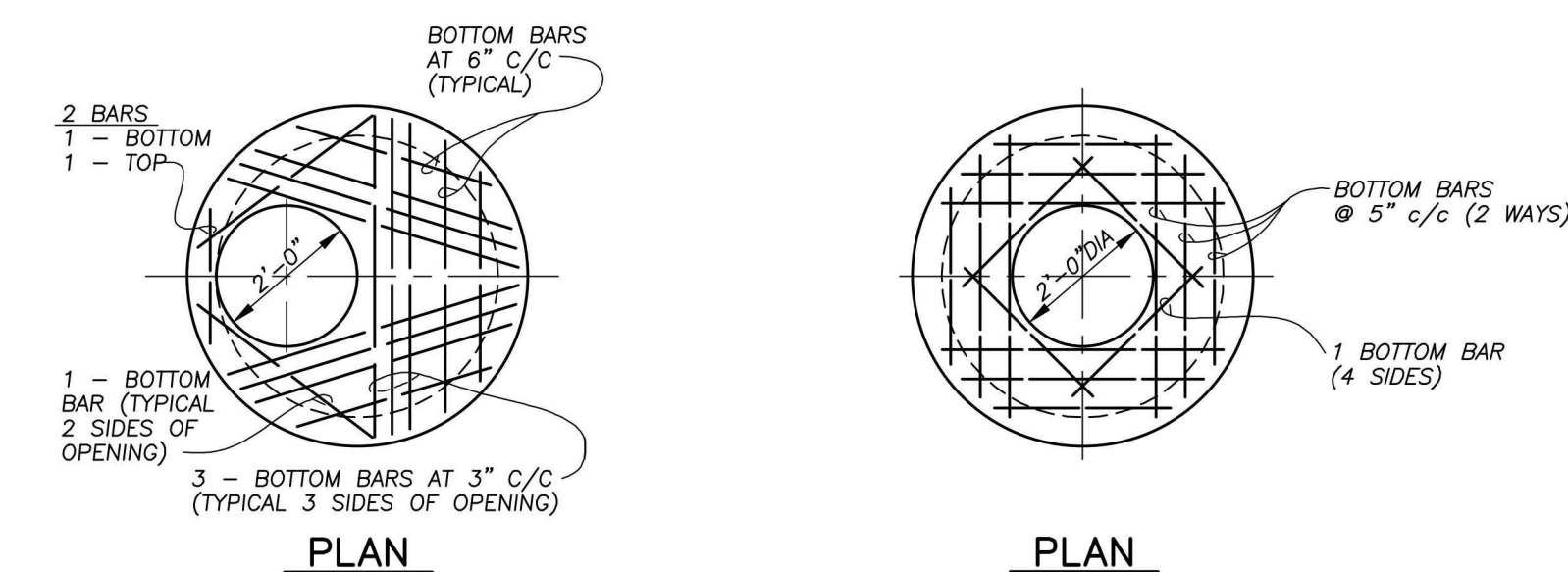
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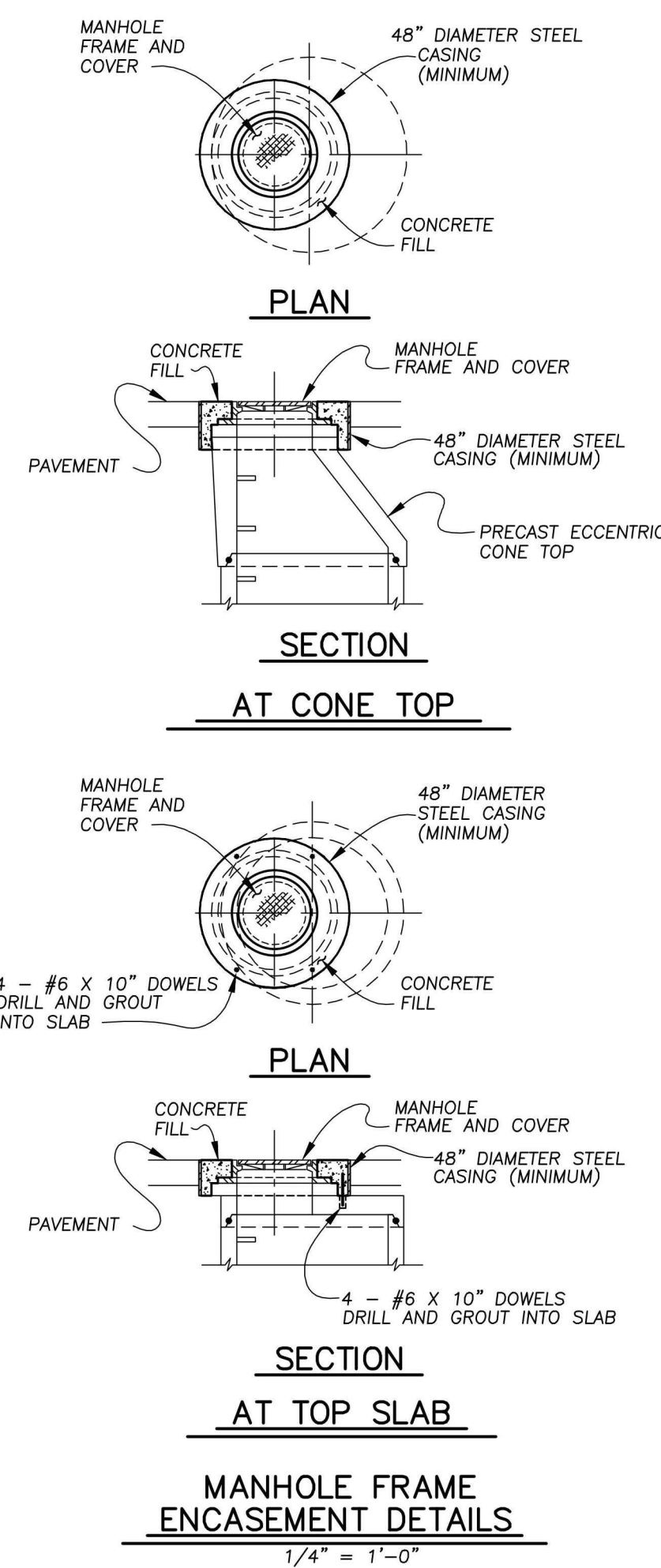
MANHOLE TOP SLAB SCHEDULE*				
MARK	DIAMETER	MIN. "T"	REINF.	BAR SIZE
—	4'-0"	6"		# 4
	5'-0"	8"		# 5
	6'-0"	8"		# 5
	7'-0"	8"		# 5
	8'-0"	10"		# 5

SECTION
PRECAST
TOP SLAB

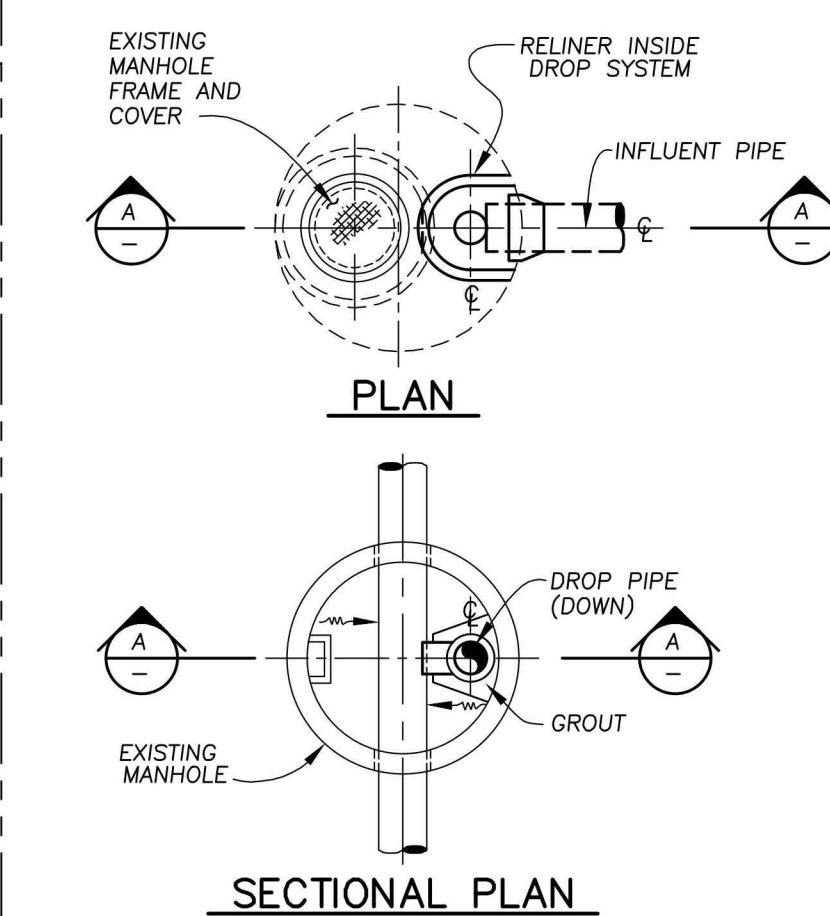


MANHOLE TOP SLAB DETAILS

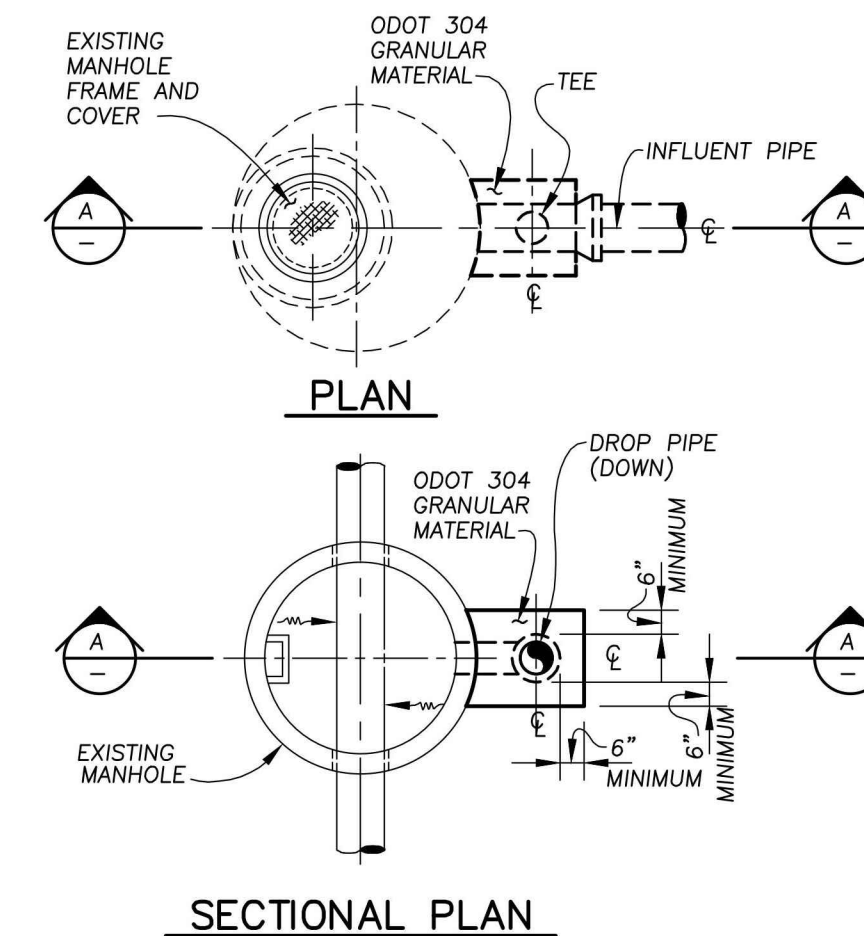
3/8" = 1'-0"



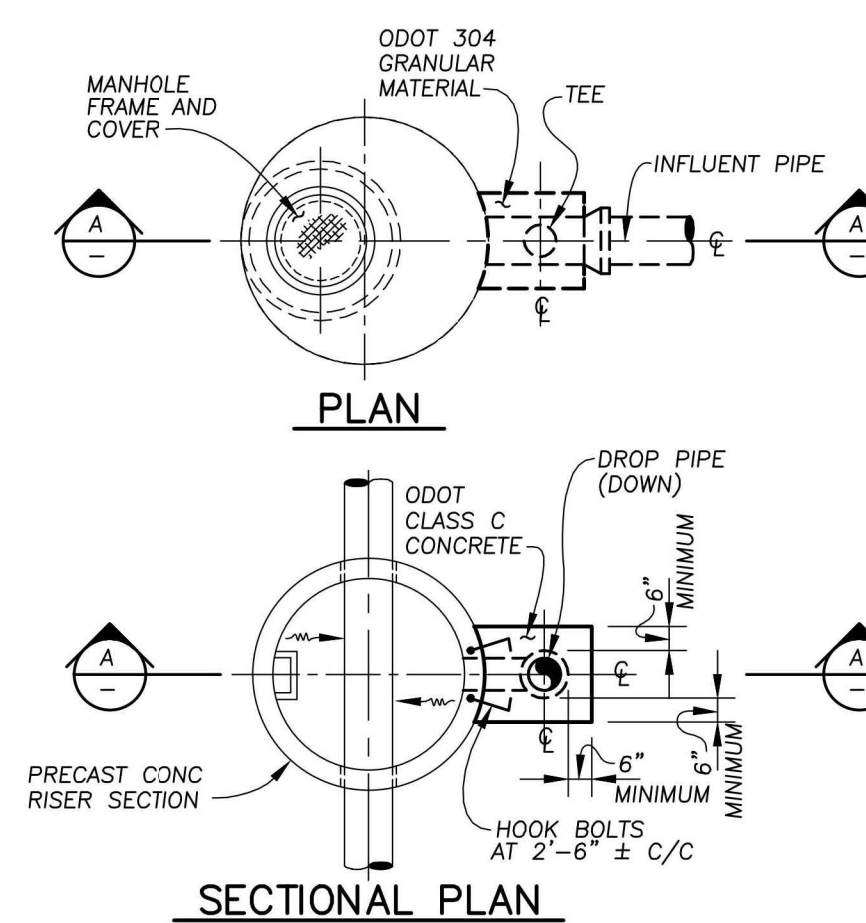
MANHOLE FRAME ENCASEMENT DETAILS

$$1/4'' = 1'-0''$$


DROP CONNECTION INSIDE FOR
EXISTING OR PROPOSED MANHOLES
FOR 12" AND SMALLER INFLUENT PIPE

$$1/4'' = 1'-0''$$


DROP CONNECTION OUTSIDE
FOR PROPOSED AND EXISTING MANHOLES
FOR GREATER THAN 12" INFLUENT PIPE
AND LESS THAN 12' DROP

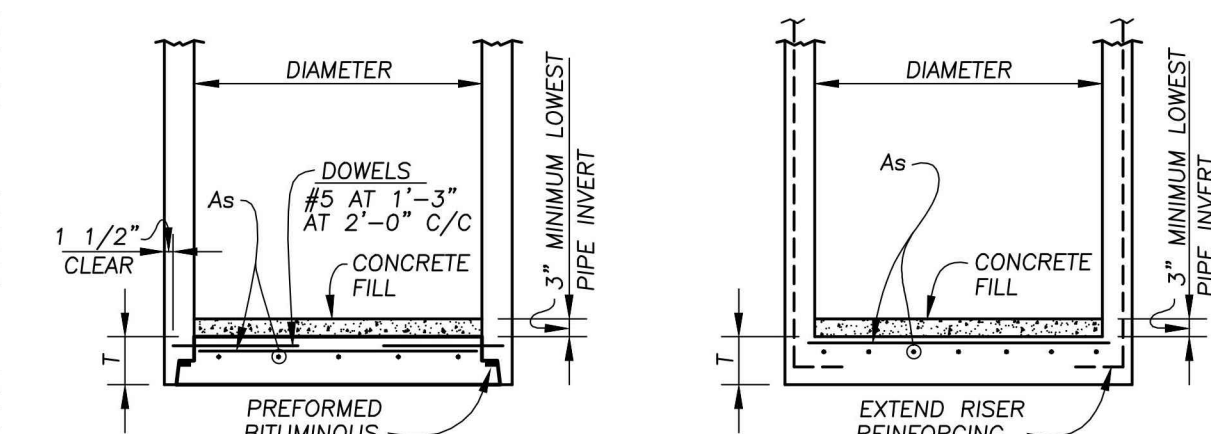
$$1/4'' = 1'-0''$$


DROP CONNECTION OUTSIDE
FOR PROPOSED AND EXISTING MANHOLES
FOR GREATER THAN 12" INFLUENT PIPE
AND 12' AND GREATER DROP

$$1/4'' = 1'-0$$

MANHOLE BOTTOM SLAB SCHEDULE				
MARK	DIAM.	MIN."T"	MIN."E"	MIN. As (each way)
—	4'-0"	8"	4"	0.12 SQ.IN./FT.
	5'-0"	8"	6"	0.12 SQ.IN./FT.
	6'-0"	8"	6"	0.17 SQ.IN./FT.
	8'-0"	10"	10"	0.21 SQ.IN./FT.

NOTE: PLACE BOTTOM SLAB STEEL REINFORCEMENT
IN TOP OF SLAB WITH 1 1/2" CONCRETE COVER.



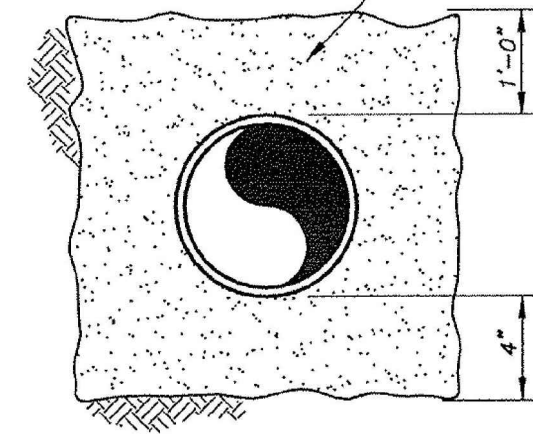
SECTION
INTEGRAL PRECAST
BOTTOM SLAB AND
BOTTOM RISER
(CAST IN SEPARATE
OPERATIONS)
BASE RISER SEC

MANHOLE BOTTOM SLAB DETAILS

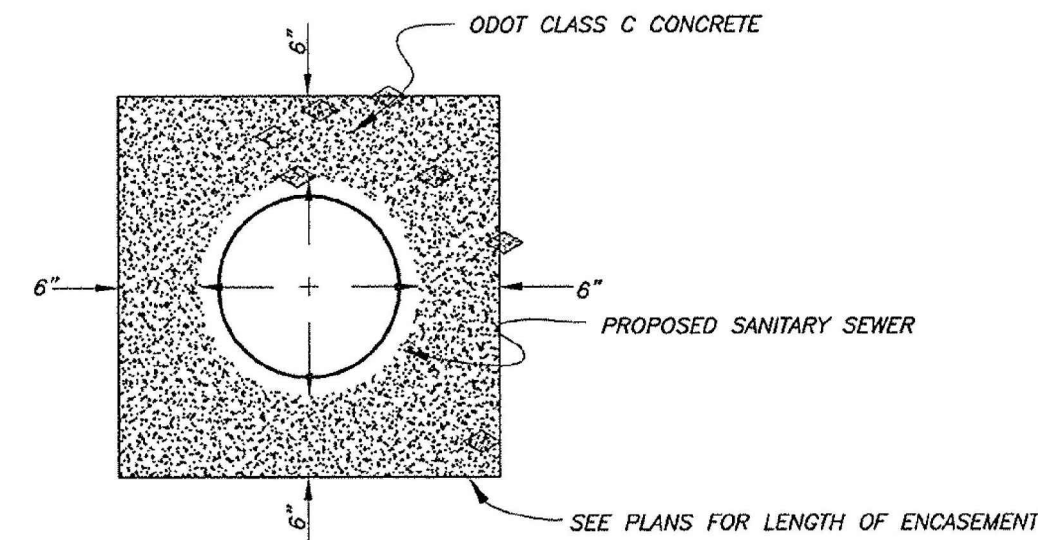
$$3/8'' = 1'-0''$$

COVENTRY POINT PLAT THREE 10E08869-3
*PAVEMENT AND SANITARY SEWER
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL*

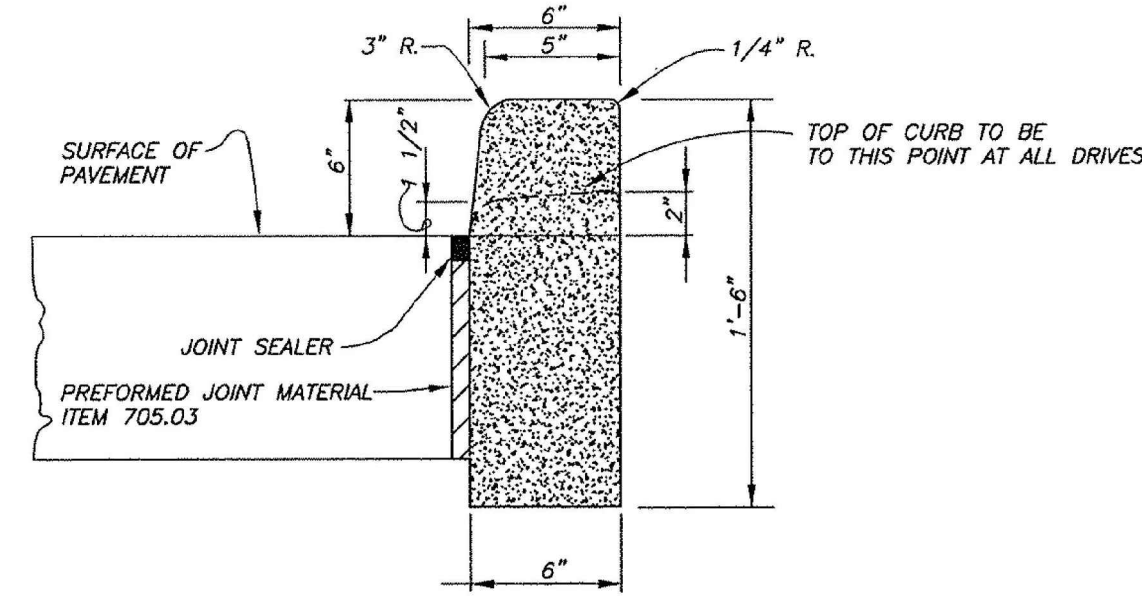
#67 LIMESTONE CONFORMING TO TABLE 703-1 OF THE STATE OF OHIO DEPT. OF TRANSPORTATION SPECIFICATIONS



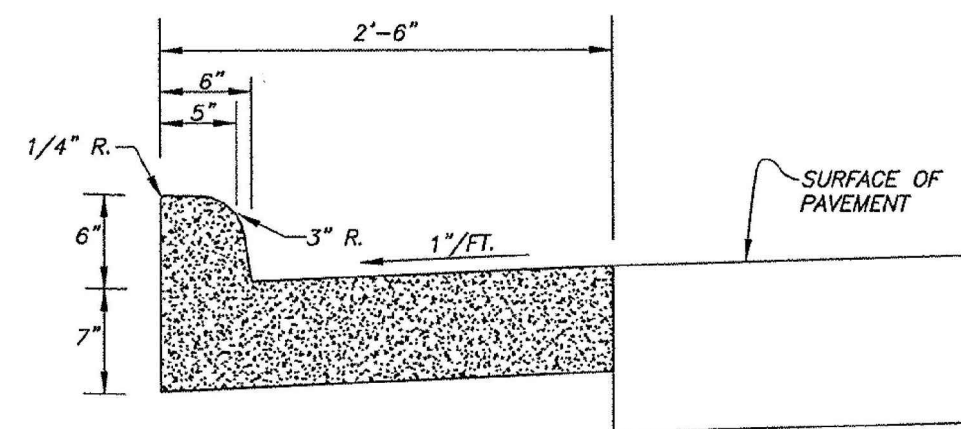
BEDDING DETAIL FOR PIPE SEWERS
NO SCALE



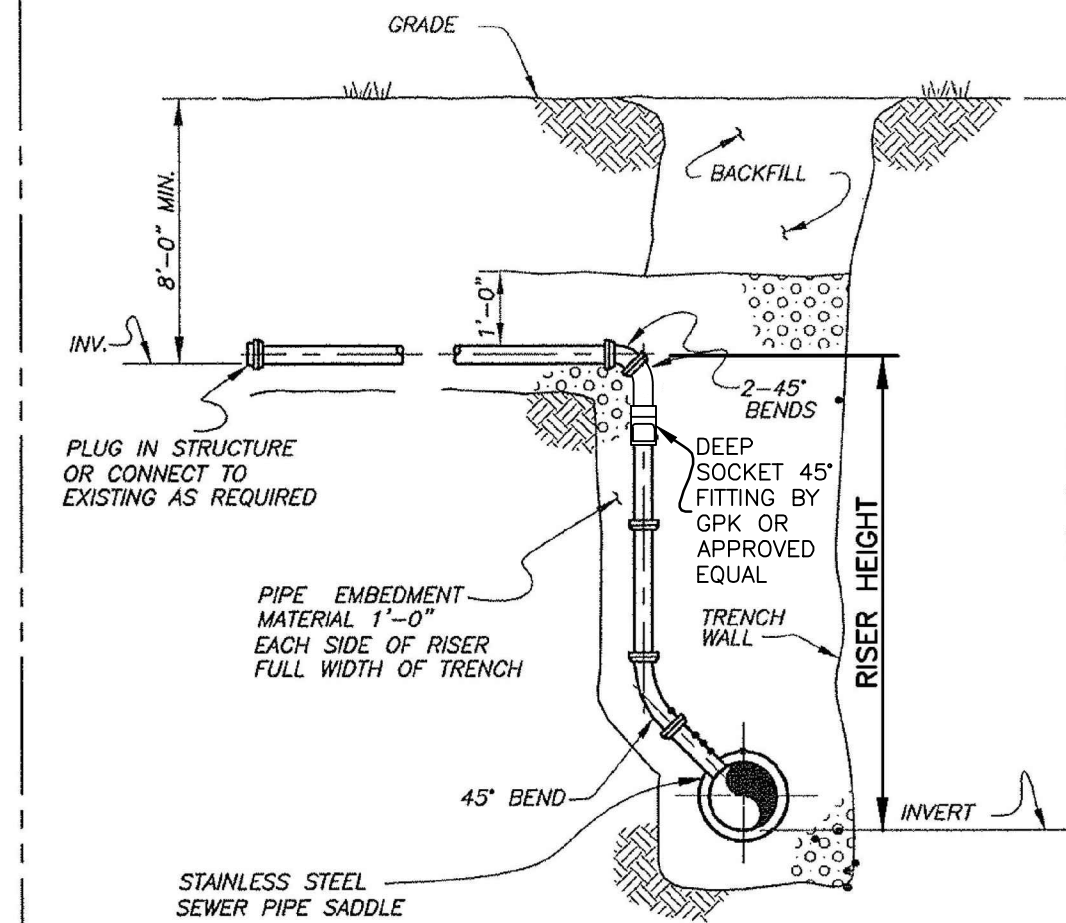
CONCRETE ENCASEMENT FOR SEWERS UNDER CREEKS
NO SCALE



ODOT TYPE 6 CURB REPLACEMENT
NO SCALE

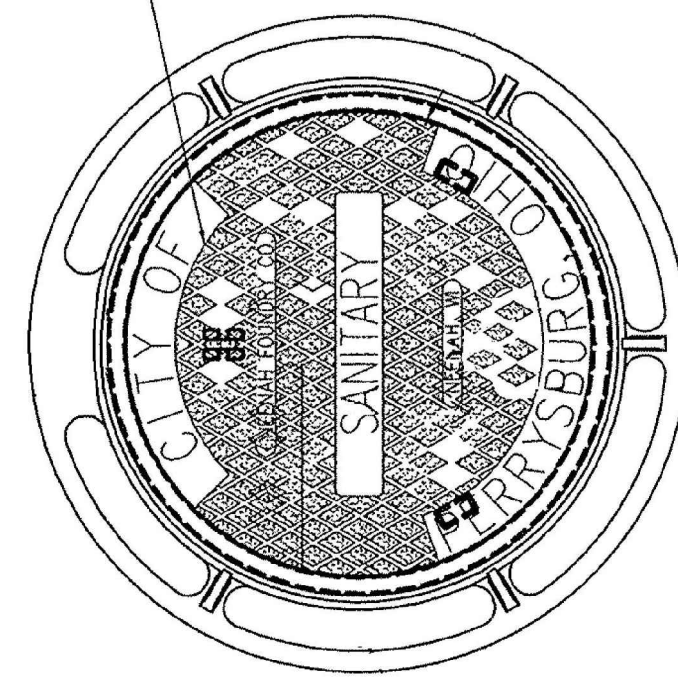


ODOT TYPE 2 COMBINATION CURB
NO SCALE



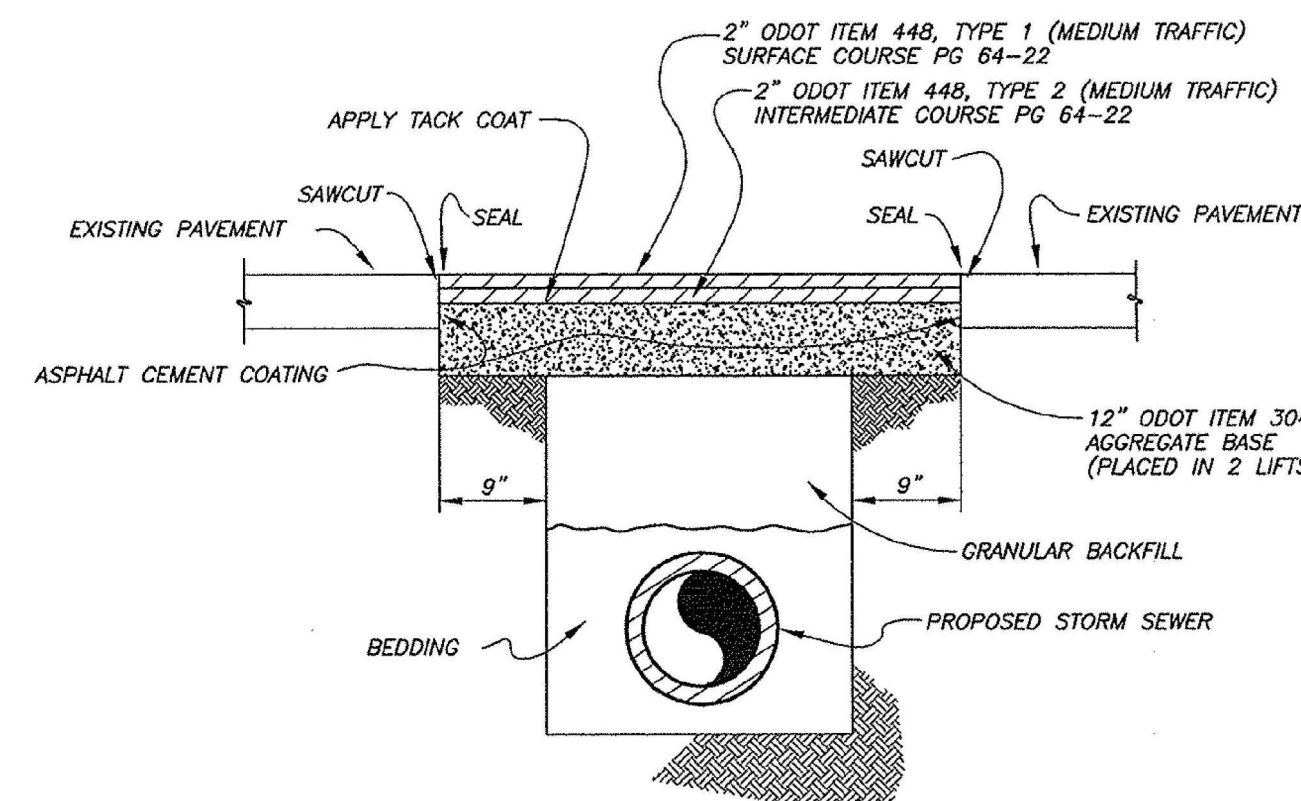
SECTION RISERS WHERE DEPTH OF MAIN SEWER EXCEEDS 12'-0"
SANITARY SEWER SERVICE CONNECTIONS OF SANITARY SEWERS 48" AND LESS
NO SCALE

2" HIGH RAISED LETTERS FLUSH W/ TOP SURFACE OF LID

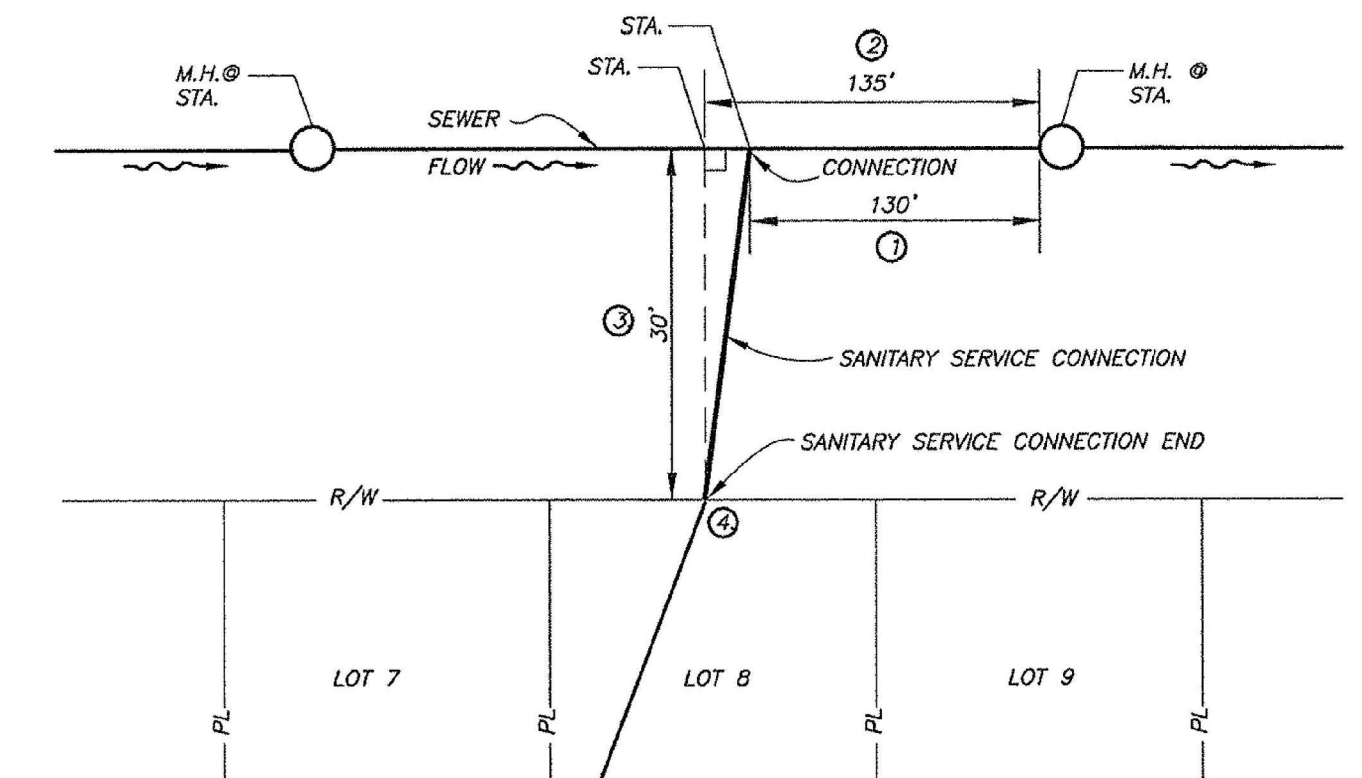


MANHOLE COVER
NO SCALE

EAST JORDAN IRON WORKS, INC., CATALOGUE 1040 WITH SOLID LID TYPE B OR AS APPROVED; MACHINED SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF PERRYSBURG, OH" - "SANITARY" CAST INTO TOP.

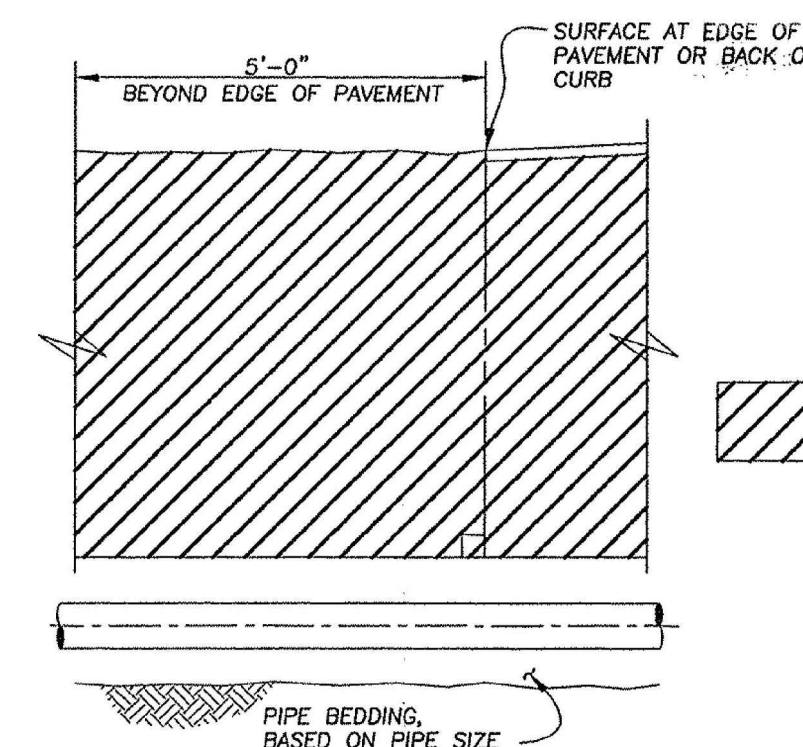


SECTION PERPENDICULAR STREET OPENING REPAIR DETAILS
NO SCALE

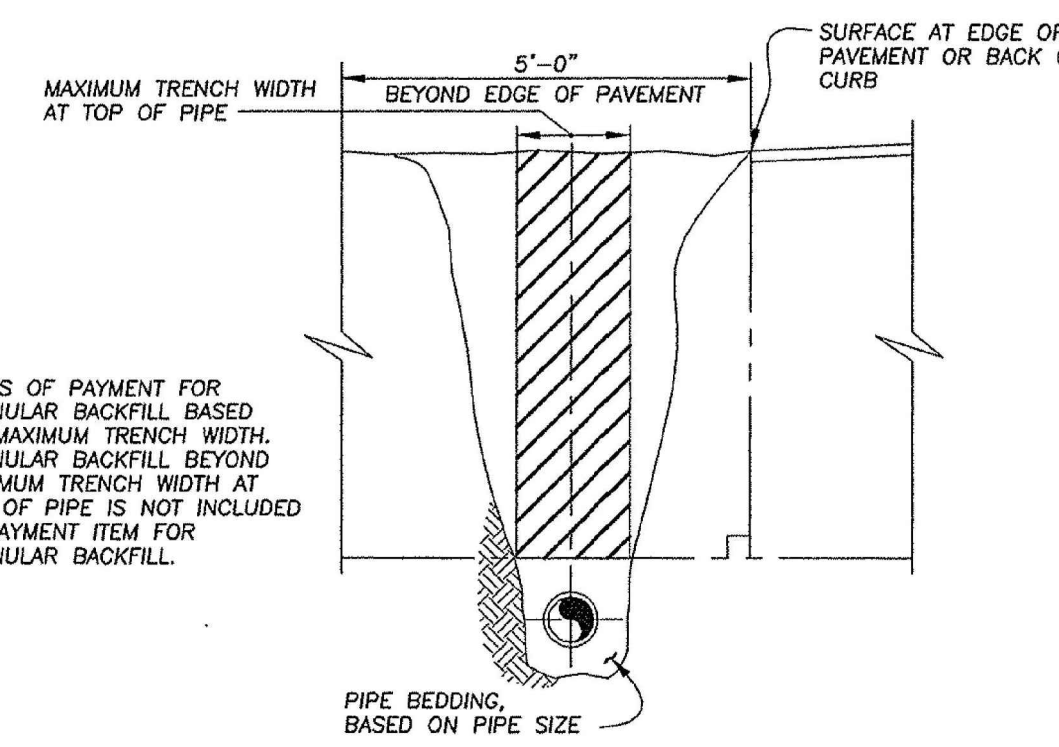


- NOTE:
1. 130'
 2. 135'
 3. 30'
 4. 641.8
- ① HORIZONTAL DISTANCE OF CONNECTION TO DOWNSTREAM M.H.
② HORIZONTAL DISTANCE OF SANITARY SEWER SERVICE CONNECTION END TO DOWNSTREAM M.H. ALONG SEWER.
③ PERPENDICULAR DISTANCE FROM SEWER TO SANITARY SEWER SERVICE CONNECTION END.
④ ELEVATION OF SANITARY SEWER SERVICE CONNECTION END FLOW LINE.

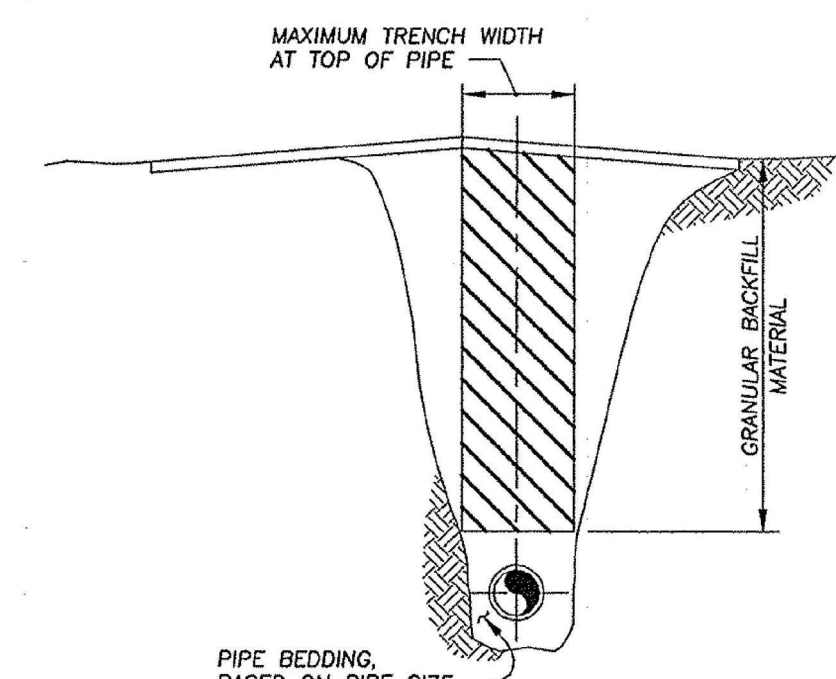
SANITARY SEWER SERVICE CONNECTION LOCATION REFERENCE
NO SCALE



SECTION CROSSING PAVEMENT WITHIN MAXIMUM TRENCH WIDTH



SECTION PARALLEL PAVEMENT WITHIN MAXIMUM TRENCH WIDTH
GRANULAR BACKFILL
NO SCALE



SECTION INSIDE PAVEMENT

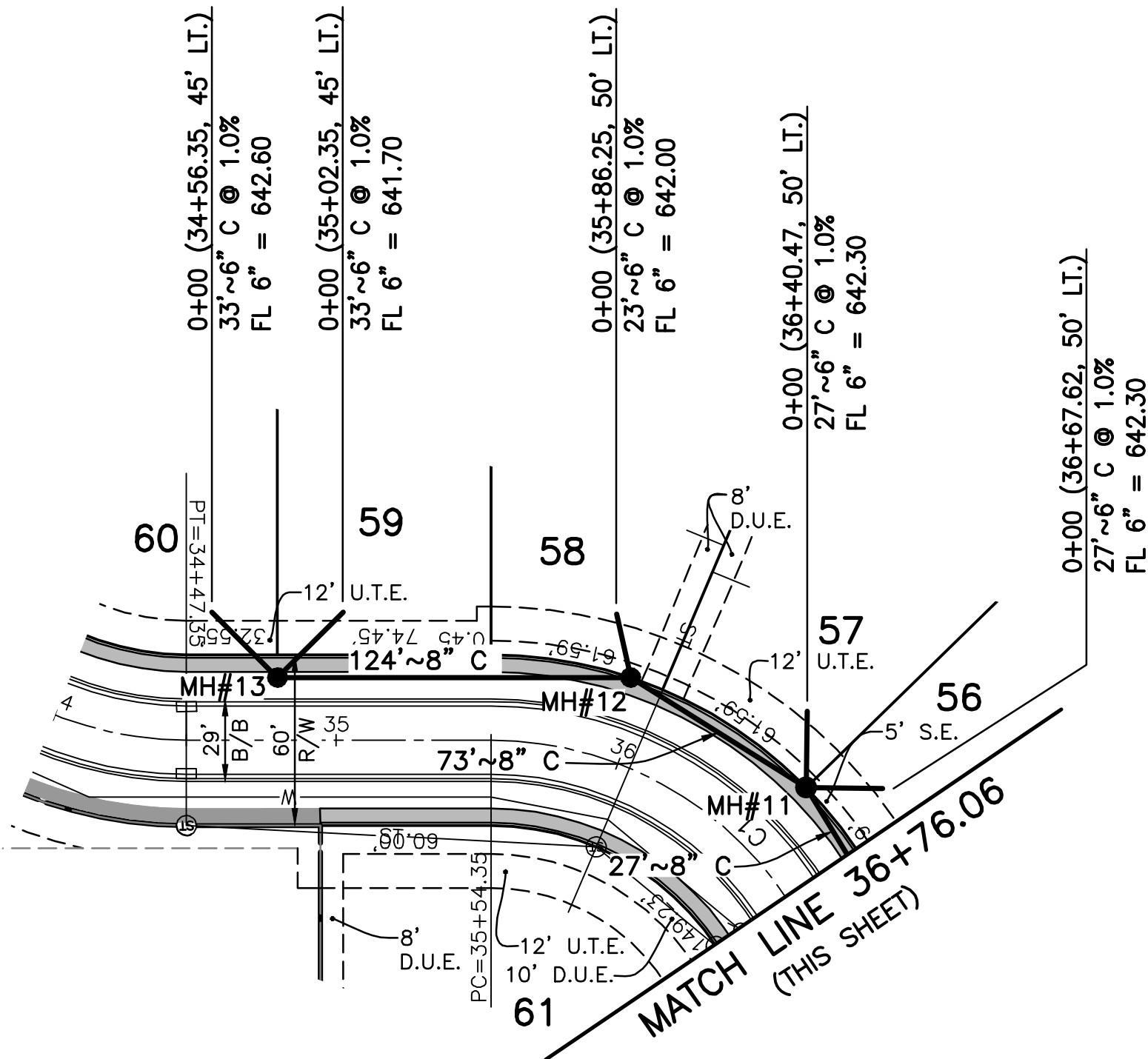
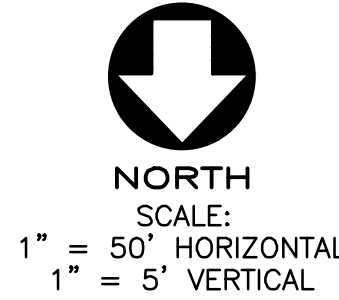
RECORD CONSTRUCTION 01/04/24

COVENTRY POINT PLAT THREE 10E08869-3

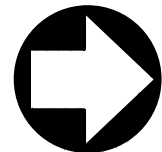
PAVEMENT AND SANITARY SEWER STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL

NOTES

1. ORIENT MANHOLES TO KEEP MANHOLE COVERS OUT OF THE SIDEWALK.
2. THE HEIGHT OF 6" RISER INDICATED INCLUDES ALL FITTINGS REQUIRED FROM THE MAIN UP TO THE 45° BENDS AS SHOWN ON THE DETAILS.



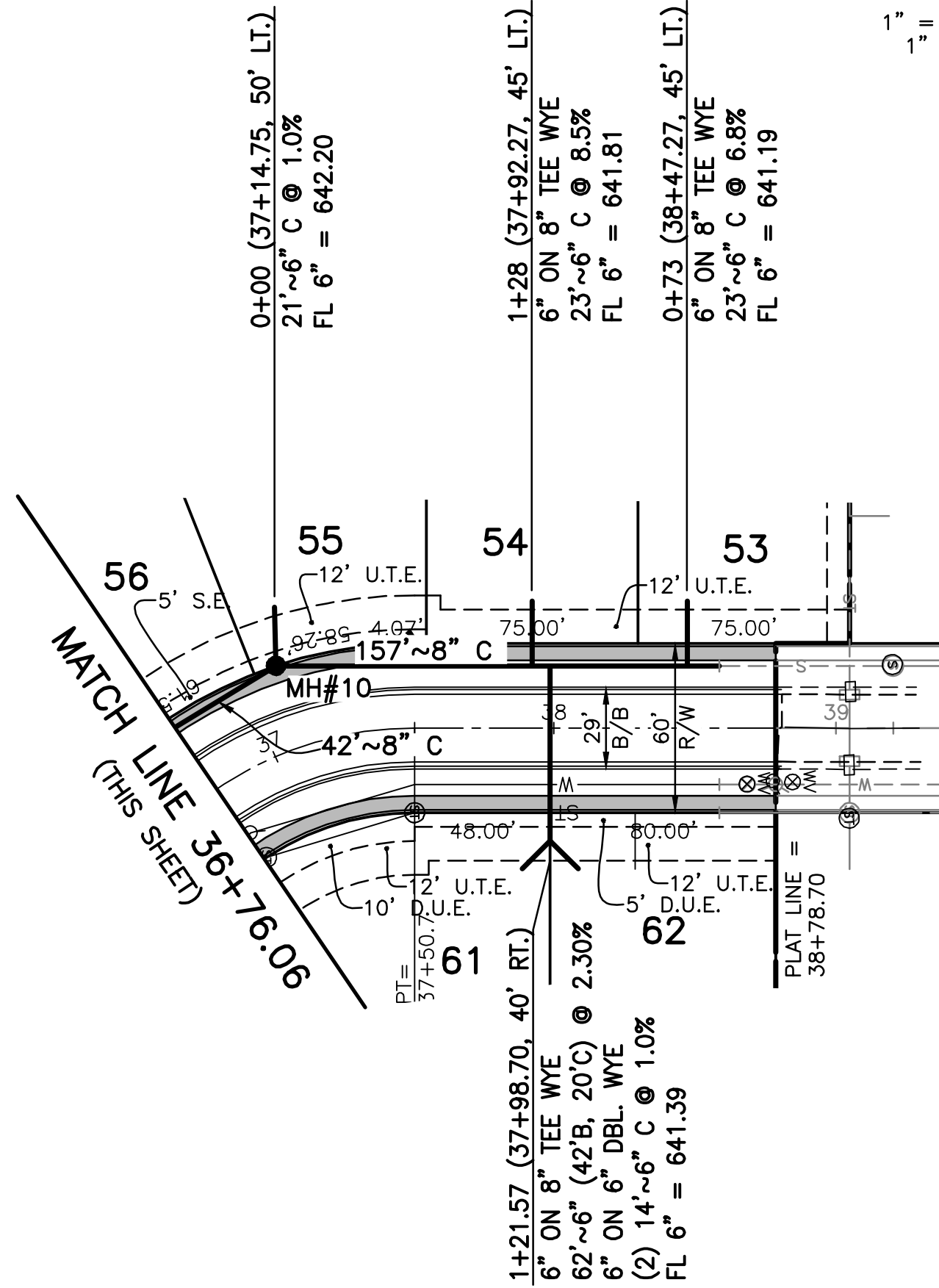
STONELEIGH ROAD
(WEST)



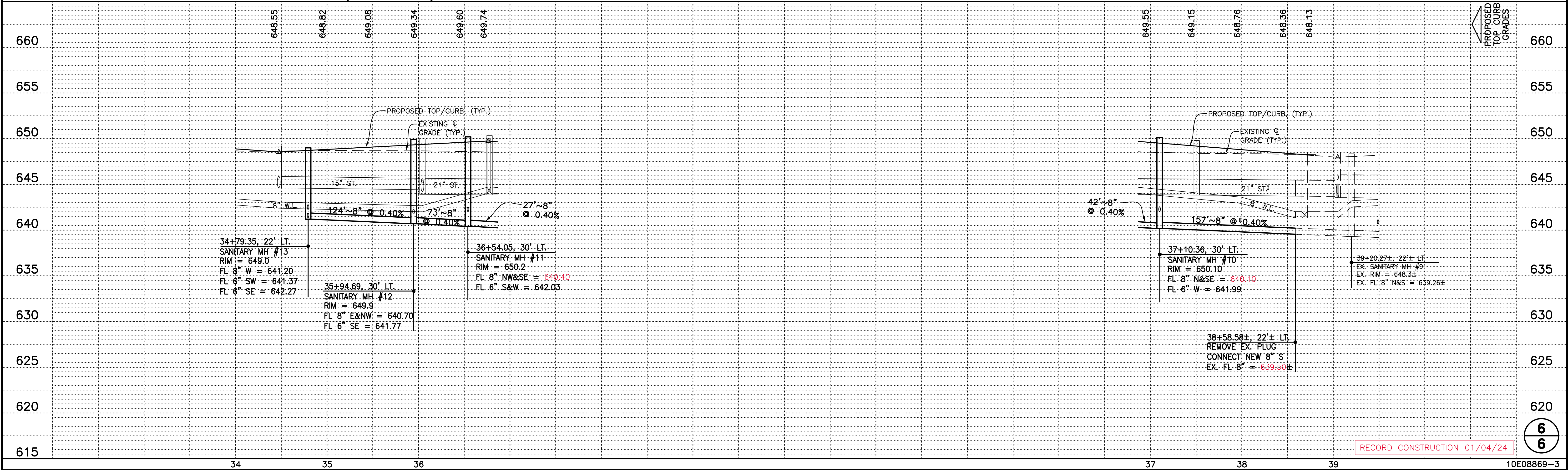
NORTH
SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-30-21
		CHK'D BY:	GNF
		DRAWING:	10-08869SP03A1
			- AB

EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.E.	DRAINAGE EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT



STONELEIGH ROAD
(WEST)



SANITARY SEWER

STONELEIGH ROAD (WEST)

COVENTRY POINTE PLAT THREE

WATERMAIN IMPROVEMENTS
FOR
Coventry Pointe Plat Three

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-4
PLAN AND PROFILE	5

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

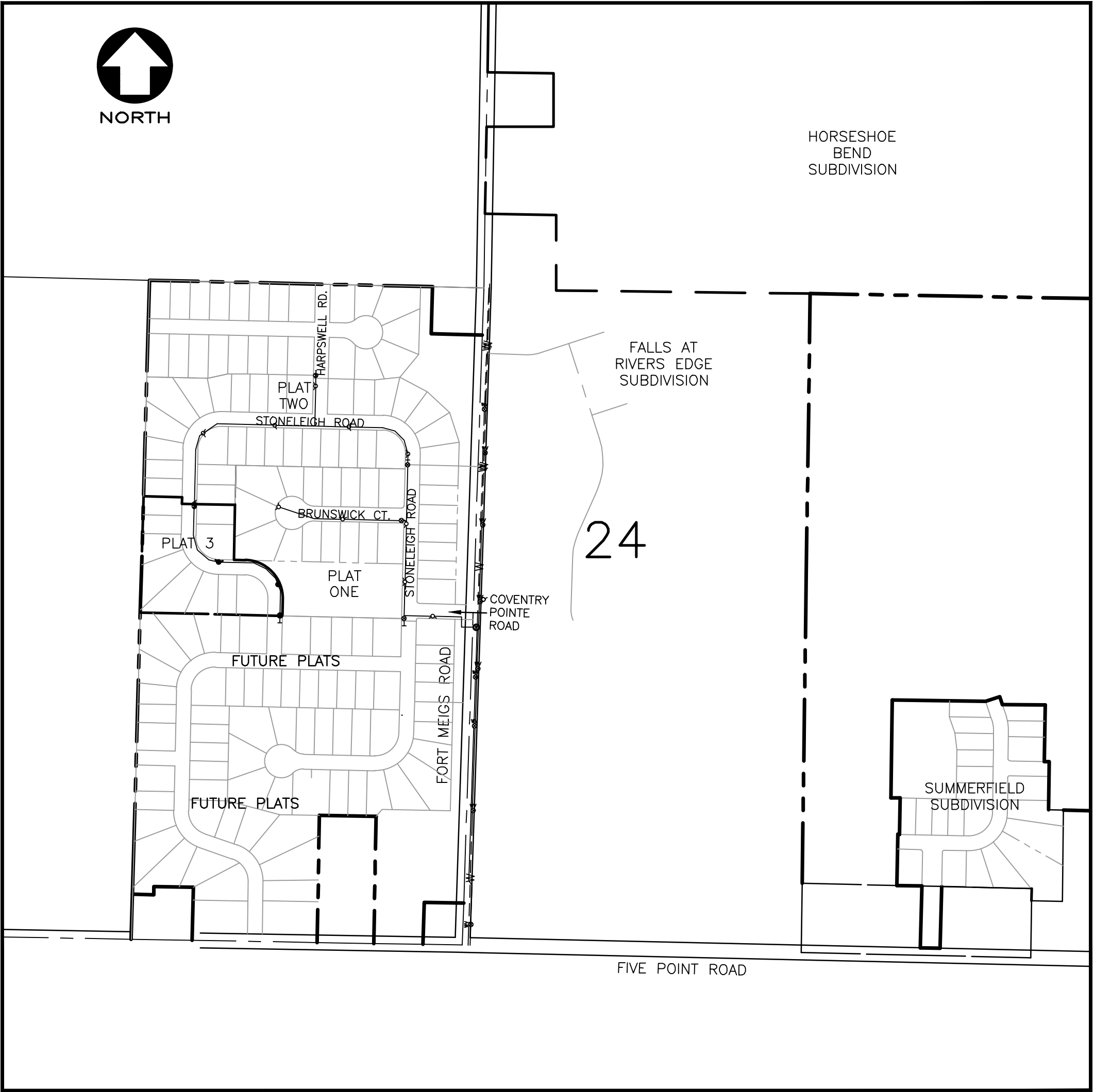
ELEVATION 650.10'

SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

ELEVATION 651.45

SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08



KEY MAP
SCALE: 1"=400'

WATERLINE SUMMARY

QTY.	UNIT	DESCRIPTION
686	FT.	8" WATERMAIN
2	EACH	HYDRANT ASSEMBLY (PARALLEL TO MAIN)
1	EACH	8" LINE VALVE IN VALVE BOX
1	EACH	8" PLUG TAPPED FOR 2" BLOWOFF
4	EACH	8"~11-1/4" BEND
6	EACH	8"~22-1/2" BEND
1	EACH	3/4" CHLORINATION TAP
10	EACH	WATER TAPS (EXCAVATION ONLY)

APPROVALS: _____

CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

DATE

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	—S—	—S—
STORM SEWER	—ST—	—ST—
WATERMAIN	—W—	—W—
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊙
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕

RECORD CONSTRUCTION 01/04/24

DEVELOPED BY:

COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

NAME

DATE

REVISION	DATE
1	11-30-21
2	
3	
4	
5	
6	
7	
8	
9	
10	

TITLE: WATERMAIN	PROJECT: COVENTRY POINTE PLAT THREE
---------------------	--



SIGNED	
DATE	
DATE: 11-30-21	1
PROJECT: 10E08869	5

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-30-21
		CHK'D BY:	GNF
		DRAWING:	10-08869WP03A1

PAVEMENT AND WATER MAIN SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Water mains and appurtenances.
1. Water Mains shall be of PVC/PVCO pipe with ductile iron fittings.
 2. Fire Lines (Water Mains) shall be of ductile iron pipe and fittings
- B. Pavement for local roads.
- C. Disinfection of water mains.

1.2 STANDARDS

- A. All materials and conditions shall be in accordance with Standard and Specifications of the City of Perrysburg (the City), and/or the current American Society of Testing Materials (ASTM), and/or the current American Water Works Association (AWWA) standards and specifications, and/or the current Ohio Department of Transportation (ODOT) Construction Materials and Specifications (CMS), and/or the current Ohio Environmental Protection Agency (OEPA) standards and specifications. In case of conflict, the City Standard and Specifications shall take precedence.
- B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.
- C. The City's Water Main Standard Details apply to these specifications

1.3 PRE-CONSTRUCTION MEETINGS, INSPECTION, AND PERMITS

- A. All construction projects involving: connection to, relocation of, future City ownership, or work within public rights-of-way, shall require a pre-construction meeting with the Design Engineer, Contractor, on-site inspection firm, and all involved City Divisions.
- B. As requested by the City, full time on-site inspection may be required and at the expense of the Developer.
- C. Water connection permits shall be obtained from the Department of Public Utilities Office, 211 East Boundary Street, 419-872-8050, a minimum of ten (10) calendar days prior to the start of construction.
- D. Department of Public Utilities (419-872-8050) shall be contacted a minimum of seven (7) calendar days requesting on-site inspection when connecting to City utilities.

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JANUARY 2017

PAVEMENT AND WATER MAIN SPECIFICATIONS

- D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches, which are reshaped, shall have reasonable side slopes. Vertical or steep slopes will not be permitted.
- E. Seed all disturbed earth areas using the hydroseed method or placement of sod, both seed mixture and sod type shall be as approved by the City.

PART 2 PRODUCTS

2.1 PIPE AND FITTINGS

- A. PVC/PVCO Pipe with Ductile Iron Fittings:
1. Pipe: AWWA C900, DR 18, Pressure Class 235 for 4 inch through 12 inch diameter; AWWA C905, DR25, pressure class 165 for 14 inch diameter and larger; and AWWA C909, Pressure Class 150 for 4 inch through 24 inch diameter; cast iron equivalent O.D.; integral wall-thickened bell end type incorporating elastomeric gasket; furnished in nominal 20 foot laying lengths.
 2. Fittings: AWWA C110 or C153, AWWA C111 rubber gasket joints, with all fittings to be polyethylene encased when buried.
 - a. Exterior Coating: Asphaltic material, or AWWA C116 fusion-bonded epoxy coating
 - b. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating.
 3. Joints: Push-on, with joints within the lengths noted on the Standard Details to be restrained type joints.
 - a. Restrained joints shall be MEGALUG or retainers with Mega-Bond Coating System, as manufactured by EBAA Iron, Inc., or as approved, of ductile iron and with a working pressure at least equal to that of the PVC pipe on which to be installed, and a minimum safety factor of 2:1.
- B. Ductile Iron Pipe and Fittings:
1. Pipe: Designed in accordance with AWWA C150, minimum Thickness Class 52, with polyethylene encasement when buried; manufactured in accordance with AWWA C151; furnish in minimum nominal 18 foot laying lengths.
 2. Fittings: AWWA C110 or C153, with C153 fittings to be polyethylene encased when buried.
 3. Exterior Coating: Asphaltic material. Fittings may be coated with a fusion-bonded epoxy coating in accordance with AWWA C116.
 4. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating.
 5. Joints: AWWA C111, rubber gasket, push-on or mechanical type, with restrained type joints and river crossing pipe joints to be provided within the lengths noted on Drawings.

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JANUARY 2017

- E. Before any water is obtained from hydrants for construction purposes, Contractor shall secure a hydrant meter setup by placing a security deposit with the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8050.
- F. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8055.
- 1.4 DEFINITIONS
- A. Bedding: Material placed to a depth of 4 inches under, beside, and directly over the pipe up to a distance of 6 inches above the top of the pipe barrel, for the full width of the trench, prior to subsequent backfill operations.
- 1.5 REGULATORY REQUIREMENTS
- A. Construction operations shall comply with the City's Noise and Vibration Control Ordinance, Section 634.11, as follows:
1. No person shall use any pile driver, shovel, hammer derrick, hoist tractor, roller or other mechanical apparatus operated by fuel or electric power in building or construction operations between 10:00 p.m. and 6:00 a.m. of the next day in a residential area or within 500 feet of a school or church, except for temporary conditions approved by the Director of Public Service.
 2. No person shall perform any construction or repair work on any structure or building, or perform any excavation or road work, when such work entails the use of any power operated construction type device in such a manner that the noise created thereby substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.
 3. Whoever violates any of the provisions of this section is guilty of a minor misdemeanor for a first offense and a misdemeanor for the fourth degree for any subsequent offense. Punishment shall be as provided in Ordinance Section 698.02.
- B. In accordance with Ordinance 1040.07 Rule 24 of the City Streets, Utilities, and Public Services Code, "the water main contractor shall be required for two years after completion of the work, to make all necessary repairs, including filing and seeding if settlement occurs." For this Project, the water main contractor is the Contractor responsible for the performance of the work.
- C. Disinfection: Comply with current version of AWWA C651, except as modified herein.
- 1.6 PROJECT CONDITIONS
- A. Disinfection is a responsibility of Contractor who shall provide all materials, labor, and equipment; dispose of heavily

- chlorinated water; and pay costs of bacteriological tests. A representative of the City will collect samples for and perform bacteriological tests. Samples shall not be taken by Contractor.
1. The City will provide, without charge, water for the initial disinfection and filling. If repeat disinfection and filling is required, Contractor to pay for all water used after initial disinfection and filling.
 2. Water will be available at the current City rate.
- 1.7 QUALITY ASSURANCE
- A. The manufacturer(s) shall provide an affidavit that all pipe, valves, hydrants, fittings, and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, including the project on which the material is to be used, shall be forwarded to the City prior to construction.
- B. All pipes, fittings, valves, fire hydrants and appurtenances shall be appropriately marked for identification purposes. The materials and methods of manufacture, and completed pipes, fittings, valves, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.
- 1.8 STORAGE AND PROTECTION
- A. At no time shall other pipes or material be placed in the pipes to be installed.
- B. Repair damage to pipe exterior and interior surfaces; pipe so damaged subject to rejection.
- 1.9 RESTORATION
- A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc. shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.
- B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.
- C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.

3. Anchoring pipe, plain end mechanical joint type incorporating an integral cast shoulder and follower gland.
 4. Anchoring Pipe Manufacturers: American Cast Iron Pipe Company, Clow Corporation, United States Pipe and Foundry Company, or as approved.
- 2.6 BACKFILL
- A. Earth Backfill: Excavated earth material, finely divided and free of stones 3 inches or greater in any dimension to at least 3 feet above pipe top.
- B. Granular Material: ODOT Item 304 crushed limestone.
- C. Control Density Fill (CDF): A mix of Portland cement, fly ash and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.
- 2.7 BACTERIA SAMPLING AND FLUSHING ASSEMBLIES
- A. Follow Service Connection Assemblies as shown above, with the following modifications:
1. Curb box is not required.
 2. A ball valve may be substituted for the curb stop.
 - a. Manufacturers: Stockholm, Model S-216; Nibco, Model No. S-585-70 or T-585-70; or as approved.
 - b. Bronze, two-piece body, chrome-plated, brass ball, Teflon seats and stuffing box ring, lever handle and balancing stops, solder or threaded ends with union.
 3. Approved piping and fittings (90 degree elbow) shall be provided a distance of 4 feet above grade.
 4. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
- 2.8 POLYETHYLENE ENCASEMENT
- A. AWWA C105, 8 mil linear low-density polyethylene tube or 4 mil high density, cross-linked polyethylene tube; 2 inch wide plastic-backed, adhesive tape, bond to both metal surfaces and polyethylene film.
- 2.9 TRACE TAPE
- A. Inert bonded layer plastic with metallized foil core, 6 inches wide, resistant to alkalis, acids and other destructive chemical components encountered in soils; APWA Uniform Color Code, brightly colored; imprinted indicating pipe type; Griffolyn Company Terra Tape "D", Seton Name Plate Corporation, or as approved.
- 2.10 JOINT BOLTS AND NUTS
- A. All ductile iron fittings, and appurtenances (valves, hydrants, restrained joints, etc.) shall be installed with COR-BLUE (COR-

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PAVEMENT AND WATER MAIN SPECIFICATIONS

2.11 BEDDING MATERIAL

- A. Fine excavated material except in paved areas; standard size No. 6 stone fill as shown at fire hydrants and at blow-off assemblies, except no slag permitted.
- B. ODOT No. 67 or No. 57 crushed limestone in paved areas.
- C. Concrete Thrust Blocks, Concrete Encasement, and Valve Box Concrete Collar: ODOT Class C Concrete.

2.12 LOCAL ROADS

- A. Asphalt Concrete Pavement:
1. -1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
 4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
 5. ODOT Item 407, apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 7. Pavement Sealer: When requested by and as approved by the City.
- B. Concrete Driveways and Parking Areas:
1. Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
 2. Reinforcement: Match existing.
 - a. Commercial Drives: minimum 9 inch thick or match existing
 - b. Residential Drives: minimum 6 inch thick or match existing
 3. Hook Bolts or Deformed Bars in Roadways:
 - a. Provide 5/8-inch hook or deformed bolts where new abuts existing.
 - b. Furnish and install at 30 inches center to center where new abuts existing longitudinally.
 - c. When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center to center where new abuts existing transversely.
 - d. When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center to center where new abuts existing transversely.

- C. Concrete Curbs: ODOT Item 609.04; Class C concrete.
- D. Underdrains: ODOT Item 605 using pipe 706.06, 706.07, 706.08 or 707.41.
- 2.13 MONUMENT ASSEMBLY (IN PAVED AREAS)
- A. Neenah Foundry Company, R 1978 A2 at bolted lid.
- 2.14 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
- A. Materials:
1. Follow current ODOT Specifications 712.14 as modified herein:
 2. Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.
 3. Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.
 4. Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: <http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx> (DETECTIBLE WARNINGS)
- B. Concrete: ODOT Class C.
- 2.15 DISINFECTION PRODUCTS
- A. Chemicals: Calcium Hypochlorite granules or 5 gram tablets; 1 percent chlorine solution (10,000 mg/l), prepared by mixing 1 pound of calcium hypochlorite (approximately 65 percent available chlorine by weight) and 9 gallons of water.
- B. Food-Grade Adhesive: Permatex Form-A-Gasket No. 2 and Permatex Clear RTV Silicone Adhesive Sealant by Locktite Corporation.

PART 3 EXECUTION

3.1 PREPARATION

- A. String pipe sections along the route of the mains so as to interfere least with pedestrian and vehicular traffic and to protect the pipe.
- B. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.
- C. Do not install service connections until new mains have been successfully tested, disinfected, and placed in service.
- D. Verify that polyethylene encasement is in place, where required, before placing bedding.

PAVEMENT AND WATER MAIN SPECIFICATIONS

- E. Water Main Minimum Height of Cover: 5 feet.
- 3.2 BEDDING
- A. Place bedding material at trench bottom and shape for accurate placement and proper support of pipe.
- B. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).
- C. Carefully place and tamp so as not to puncture polyethylene encasement, or damage or displace joints or pipe. Do not drop material directly on pipe.
- D. Construct thrust blocks at plugs as detailed. Place against firm, undisturbed soil. Protect end of plug from concrete adhesion to allow for future removal.
- E. Construct concrete encasement under ditches as shown.
- 3.3 INSTALLATION - WATER MAIN PIPE AND FITTINGS
- A. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- B. Install water mains at a minimum 10 foot horizontal distance from sewers and manholes and at a minimum 18-inch vertical distance from sewers at their crossing, both as measured between the outside of pipe walls. At crossings, install one full length of water line pipe so both joints will be as far from the sewer as possible.
- C. Install pipe in locations and at grades shown or specified, except as otherwise permitted or ordered by the City to avoid existing or proposed utility lines or other obstructions encountered; to secure a more readily accessible position for trenching; or to facilitate the location of various pipe appurtenances; avoid high and low points in the main
- D. Use suitable fittings, usually 1/8 bends, when abrupt grade changes of the pipe are necessary to avoid existing utilities or other obstructions, so as to secure an easy flow of liquid and to provide sufficient cover below same unless noted otherwise.
- E. Install pipe to allow for expansion and contraction without stressing pipe or joints.
- F. Deflect pipe joints in strict accordance with pipe manufacturer's instructions.

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- a. For all bolted joints, bolt length shall be such that all threads of the nut will be engaged.
- b. Restrained push-on joints shall be completely boltless; McWane Super-Lock, American Flex-Ring, U.S. Pipe TR Flex, or as approved. Restrained mechanical joints shall be MEGALUG with Mega-Bond Coating System as manufactured by EBAA Iron, Inc., or as approved, of ductile iron and with a working pressure of at least 250 psi and a minimum safety factor of 2:1.
- 2.2 BUTTERFLY VALVES
- A. Manufacturers: Clow, DeZurik; Henry Pratt Co.; Kennedy; or as approved.
- B. AWWA C504, Class 150B; designed specifically for buried service; stainless steel shafts; mechanical joint ends when buried, fully gasketed, grease-packed, water-tight, self-locking actuator with standard AWWA operating nut and mechanical stop limiting devices, open by turning left (counterclockwise), bolts, nuts, and washers used by manufacturer to assemble valves to be Type 304 stainless steel.
- C. If required, provide operator with an extension stem such that operating nut is located no more than 4 feet below grade. Center extension stem in the valve box by approved stem guides.
- 2.3 GATE VALVES
- A. Manufacturers: American Flow Control; Clow; Kennedy; Mueller; or as approved.
- B. AWWA C509 cast iron, bronze-mounted, or AWWA C515 ductile iron, bronze-mounted, polyethylene encased when buried installation; designed for 200 psi working water pressure; mechanical joint ends, AWWA C111, except for tapping valves; non-rising stem type with standard AWWA nut; stem seal consisting of at least two Buna-N rubber O-rings; open by turning left (counterclockwise); bolts, nuts, and washers used by manufacturer to assemble valves to be Type 304 stainless steel.
- C. If required, provide operator with an extension stem such that operating nut is located no more than 4 feet below grade. Center extension stem in the valve box by approved stem guides.
- 2.4 VALVE BOXES
- A. Coated cast iron, three-piece screw type, 5-1/4 inch shaft; heavy, neat fitting cover with the word "WATER" cast on the top.
- B. Base shall cover the entire valve bonnet section.

- C. Length sufficient such that when installed, the cover top shall be flush with surrounding surface with each section properly engaged.
- 2.5 FIRE HYDRANT ASSEMBLIES
- A. Includes fire hydrant, auxiliary valve and valve box, piping, and appurtenances.
- B. Fire Hydrant:
1. Manufacturers: American Flow Control, Kennedy; Mueller, Clow; or as approved.
 2. AWWA C502, compression type, 5-1/4 inch valve opening, 5-sided operating nut open by turning left (counterclockwise); traffic model with frangible barrel section and stem coupling; positive operating drain valve installed in open position; 6 inch mechanical joint base, designed so water hammer will be prevented when properly operated.
 3. Two 2-1/2 inch hose nozzles, 7-1/2 threads per inch, and one 5 inch Storz steamer fitting.
 4. Suitable for setting in trenches of depths and in locations shown; Contractor responsible for determining hydrant depth of bury based on locations shown.
 5. Verify that the direction of opening, hydrant pumper nozzle, operating nut, outlet nozzle cap nuts and hose threads conform to those in the system before the new hydrants are shipped.
 6. Factory Finish: Each hydrant shall be given two coats of good quality weatherproofing paint before leaving the factory and another coat after installation. The portion of hydrants below ground shall be painted with black paint; the portion above ground shall be painted to match existing hydrants throughout Wood County. The color shall be submitted to the City for approval prior to application on the new hydrant.
- C. Auxiliary Valve and Valve Box: Auxiliary valves and valve boxes shall be gate valves and valve boxes as specified in Articles 2.3 and 2.4, with valves to have ends suitable for receiving the spigot end of 6 inch anchoring pipe.
- D. Piping:
1. Ductile Iron Pipe: AWWA C150, AWWA C151; asphaltic material, or AWWA C116 fusion-bonded epoxy exterior coating, AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy interior lining.
 2. AWWA C110 or C153 mainline tees with standard mechanical joint branch for connecting to anchoring pipe and fittings, and mechanical joint anchoring type branch when connecting to an auxiliary valve, coated and lined as specified for pipe. C153 fittings to be polyethylene encased when buried.

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WATERMAIN

GENERAL NOTES

COVENTRY POINTE PLAT THREE

PAVEMENT AND WATER MAIN SPECIFICATIONS

- C. Set valves plumb and on solid bearing; center and plumb valve box over valve; set box cover flush with finished grade. Provide expansion joint material around portion of box in concrete pavement or sidewalks. Provide a concrete collar around valve box located if asphalt or stone pavement.
- D. Set hydrants plumb and to grade of curb, street, alley, highway, or right-of-way with pumper nozzle toward middle line of street, highway, or right-of-way.
- E. Set hydrant and auxiliary valve on native hardwood blocking; provide stone fill up to drainage port
- F. If necessary, as determined by City, to set a fire hydrant at a greater depth of bury as a result of changing hydrant location from that shown, adjust elevation by furnishing and installing the fire hydrant manufacturer's standard barrel and stem extensions.
- G. Install polyethylene encasement for all buried auxiliary valves and fire hydrant assemblies as specified for water main pipe and fittings.
- H. Install polyethylene encasement for all buried gate and butterfly valves even if not provided for adjacent piping. Comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures, and other damage to the polyethylene.
- I. Paint fire hydrant exterior above ground level with two coats City's standard paint; hydrant shall be painted yellow with bonnet painted white.
- 3.5 INSTALLATION - BACTERIA SAMPLING AND FLUSHING ASSEMBLIES; BLOW-OFF ASSEMBLIES
- A. Install assemblies as shown or noted; comply with component manufacturer's instructions.
- B. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
- C. Remove bacteria sampling and flushing assemblies after notice from City that mains have passed all tests and have been placed in service.
- 3.6 CONNECTION TO EXISTING MAINS
- A. Connect new mains to existing mains using proper fittings and in a manner acceptable to the City.
- B. Expose existing mains at connection points 10 days prior to making connections to determine elevation, verify type of pipe,
- confirm outside diameter of pipe, and identify type of restraints existing.
- C. No cut-ins or connections to existing mains shall be made unless at least 48 hours notice is given to the City.
- D. Plan all connecting work to reduce number of shutoffs.
- E. Two days prior to shutting valves on existing lines, notify all affected property owners and the City of such shutoff.
- F. Keep shutoff time to a minimum and do at off-peak hours.
- G. A representative of the City will operate existing valves. Contractor shall not operate existing valves.
- H. The City assumes no responsibility for any delay occasioned by special requirements or conditions which must be met in making connections.
- I. Take extreme care in making connections to prevent contamination
- J. Before making connections to existing mains, wash all fittings, valves, and pipe with clean water, and then disinfect by washing with a chlorine solution having a residual chlorine strength of not less than 50 ppm.
- K. Plugs removed from existing mains that are not damaged may be reused within the Project, and those remaining after completion of construction shall remain the property of the City.
- L. Connections to AC pipe shall be made with appropriate fittings specifically designed for AC pipe connections, and shall be acceptable to the City. All connections to AC pipe shall be via pad adapters. AC pipe must not be cut with a saw. All cuts shall be accomplished by snap cut.
- 3.7 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)
- A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- B. Asphalt Concrete Pavement:
- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 - 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 - 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).

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PAVEMENT AND WATER MAIN SPECIFICATIONS

- D. Subject main to pressure and leakage test in accordance with Article 3.11 below.
- E. Disinfect water mains in accordance with Standard Details for Disinfection of Water Mains.
- F. When all tests on the water main have been successfully completed and the main has been disinfected, the main will be placed in service by the City. No further Work on the main or its valves shall be permitted without full knowledge and approval of the Work by the City.
- 3.11 PRESSURE AND LEAKAGE TEST
- A. Subject all mains to a pressure and leakage test before connecting to existing mains and before making connections between water mains of differing pipe materials.
- B. Test each valve-to-valve section separately. If Contractor elects to test more than one valve-to-valve section, the allowable leakage for the test will be based upon the shortest valve to valve section in the test
- C. For Mains of PVC Pipe Material: Perform in accordance with AWWA C605 and the following:
1. Isolate main from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 150 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if the City determines that the older existing valves may not seal properly, and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:
- $$L = \frac{ND\sqrt{P}}{7,400}$$
- L = allowable leakage (gal/hr)
N = # joints in pipe tested
D = nominal dia. of pipe
P = avg test pressure
- $$L = \frac{SD\sqrt{P}}{140,000}$$
- L = allowable leakage (gal/hr)
S = length of pipe tested
D = nominal dia. of pipe
P = avg test pressure
6. When testing against closed metal-seated valves, allow an additional leakage per closed valve of 0.0078 gallons/hour/inch of nominal valve size.
 7. When hydrants are in test section, perform test with closed hydrant valves.
 8. Pressure test at each side of intermediate valves at this time by shutting each valve, exhausting the pressure on one side, and applying the test pressure of 150 psi or more to the main on the opposite side of the valve for approximately 10 minutes as determined by the City. Repeat this procedure for each intermediate valve.
- D. If main and valves do not pass the leakage test, locate and repair the leak or leaks and repeat testing procedure until successful. Repair visible leaks regardless of the amount of leakage.
- E. Pressure and leakage testing is responsibility of Contractor, who shall provide all materials, labor, and equipment, and pay for the total volume of water used.
- F. For Fire Lines (Water Mains) of Ductile Iron Pipe Material: The City will oversee testing. Perform in accordance with AWWA C600 and the following:
1. Isolate mains lines from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 200 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if OWNER determines that the older existing valves may not seal properly, and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:

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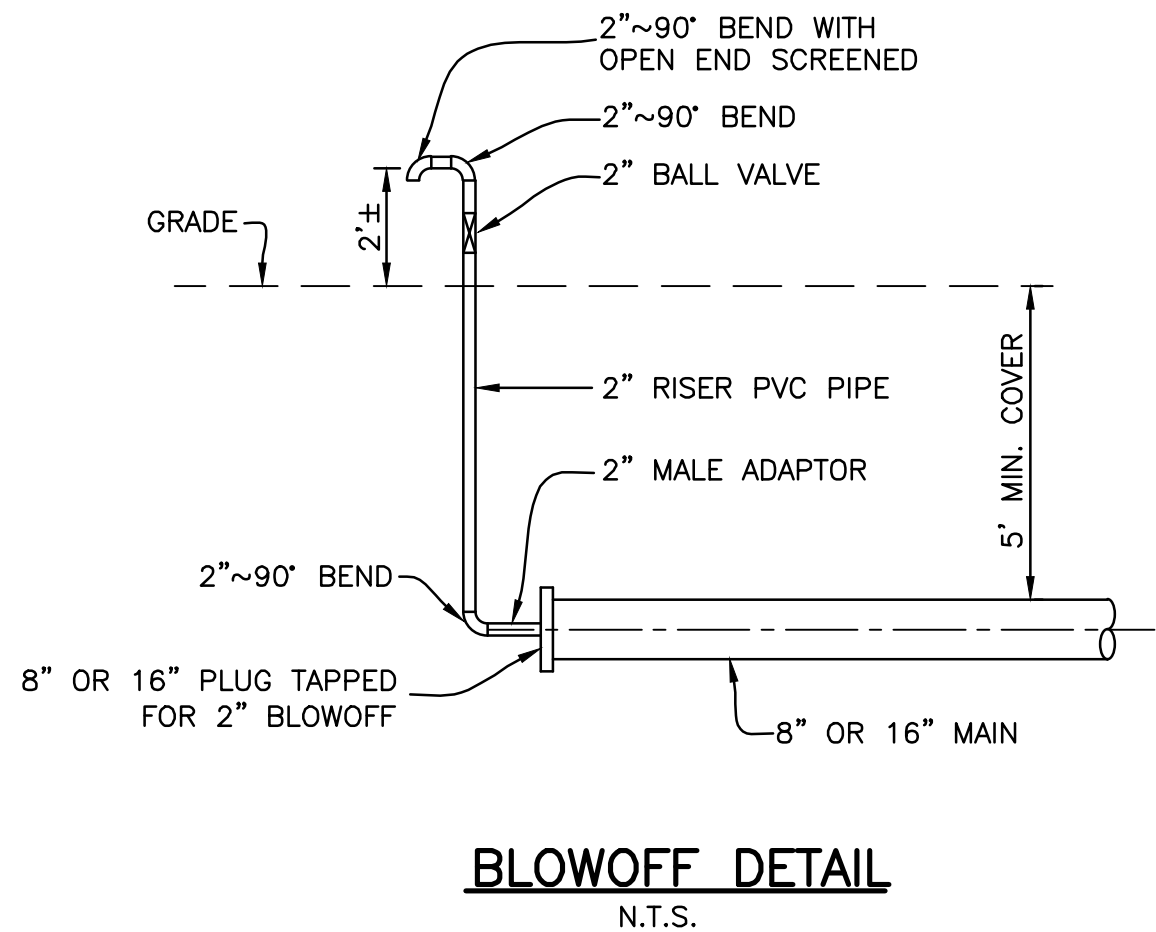
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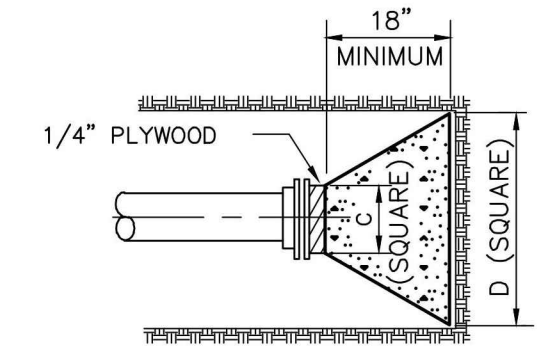
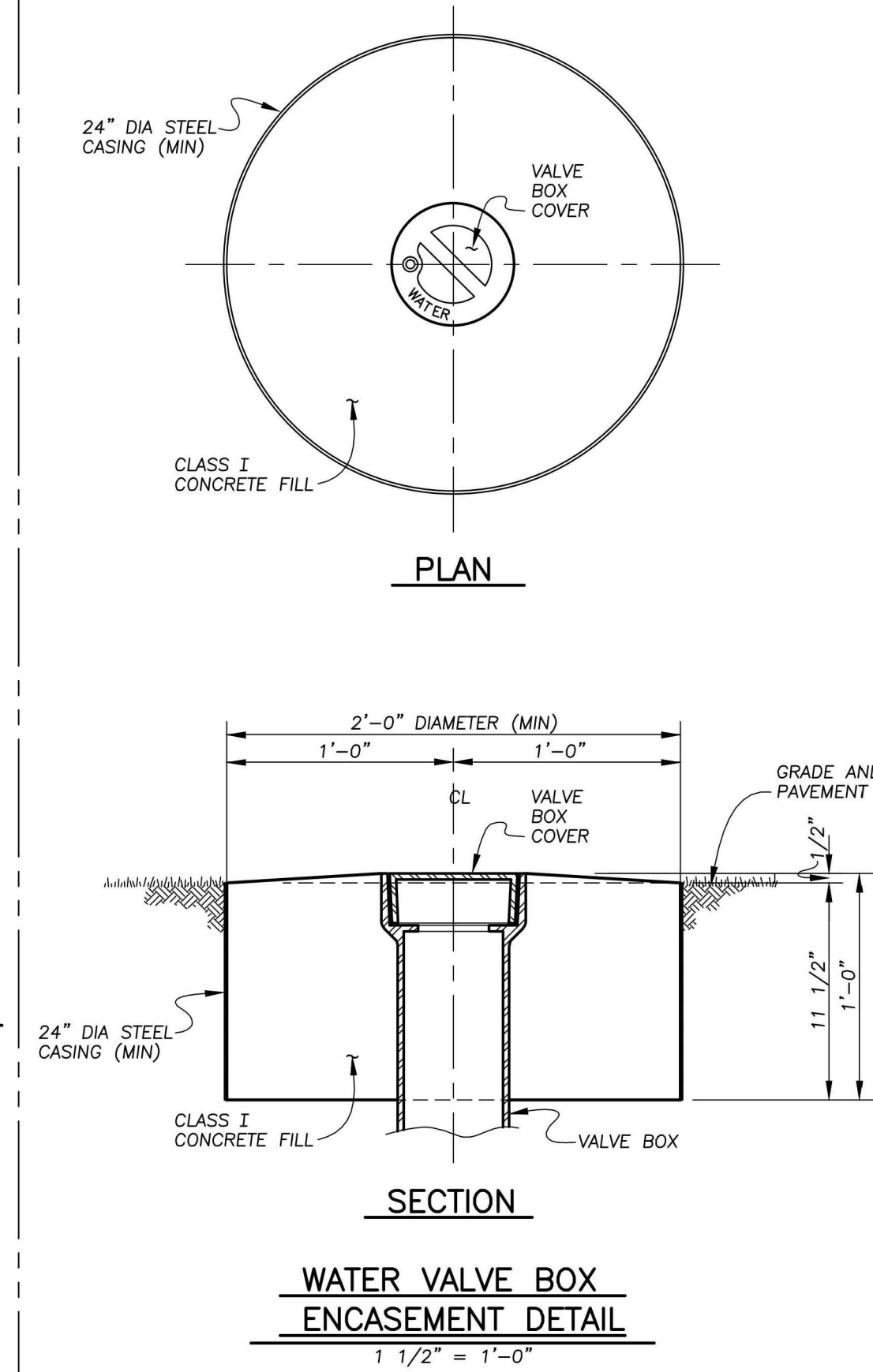
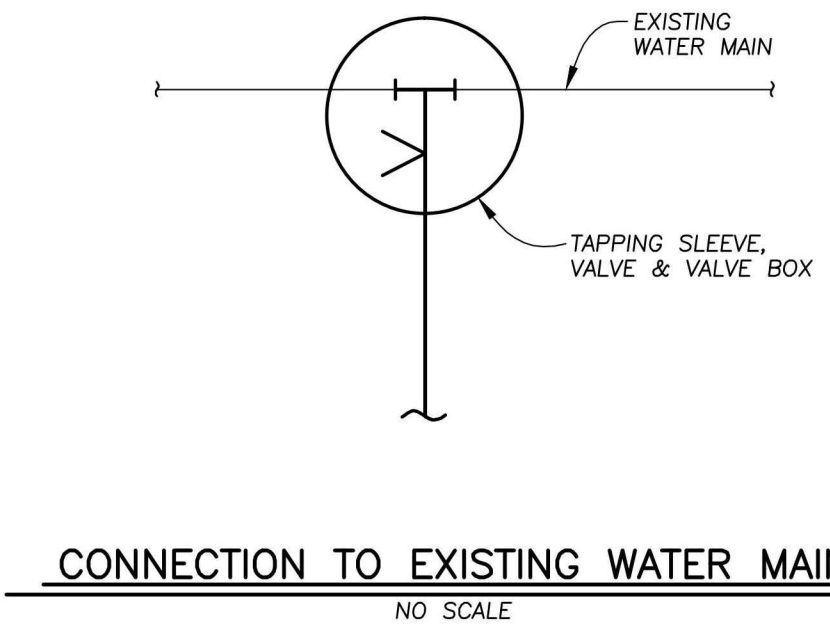
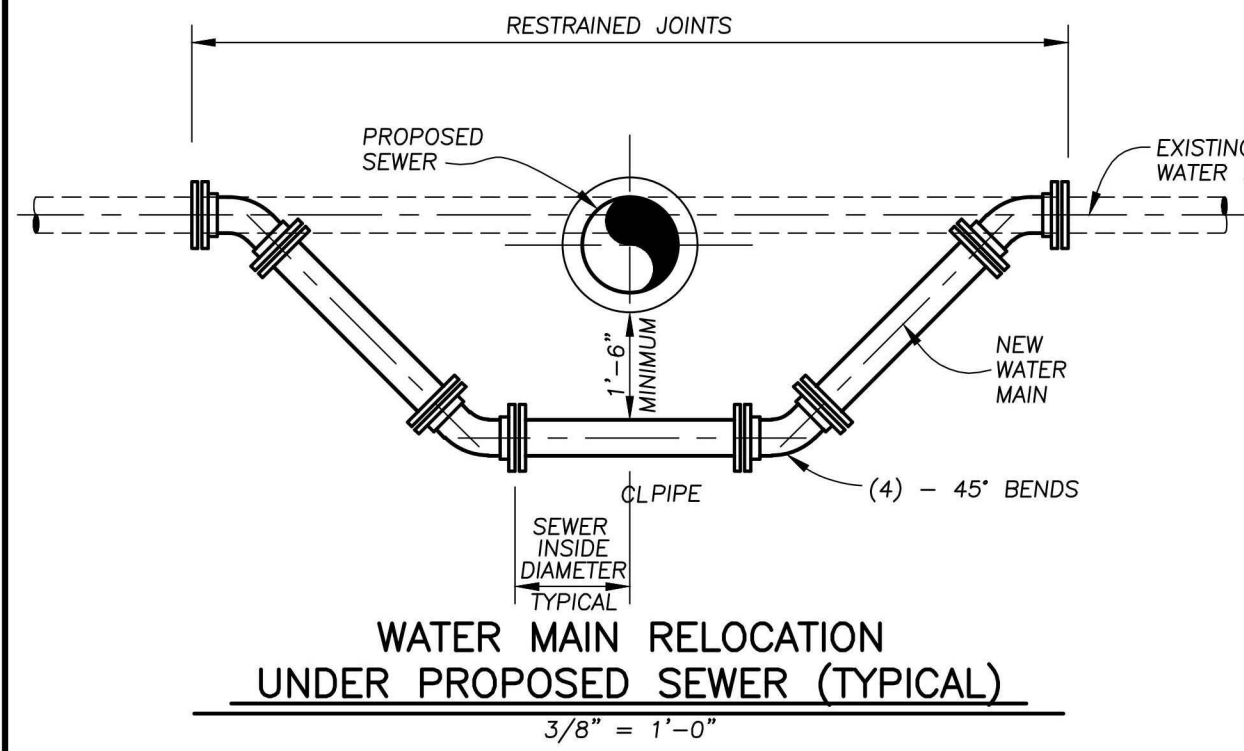
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
 5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 6. Sealer for Contact and Meeting Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 7. Pavement Sealer: When requested by and as approved by the City.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.
- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.
- 3.8 MONUMENT ASSEMBLY (IN PAVED AREAS)
- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.
- 3.9 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- D. The City will approve proposed material to be installed.
- 3.10 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.
- B. For compacted bedding in trenches, the City may employ a testing laboratory to make tests on Site and will pay all costs for the first set of tests performed per lift. If compaction fails to meet Specifications, all succeeding tests for that lift shall be at expense of Contractor.
- C. Check valve boxes after installation and remove stones, dirt, debris, and backfill material.
- PIPE DIAMETER (INCHES)
- | | |
|---------------|----------------------|
| 4 | 1.7 |
| 6 | 3.8 |
| 8 | 6.7 |
| 10 | 10.5 |
| 12 | 15.1 |
| 14 and Larger | D ² /15.1 |
- Where D is the inside pipe dia. In feet – D=d/12
3. Place tablets in each pipe section, with number of tablets determined by the formula (0.0012 * d² * L) rounded to the next highest integer, where "d" is the nominal inside diameter of pipe in inches, and "L" is the length of pipe section in feet, and place 1 tablet in each hydrant, hydrant branch, and other appurtenance. Attach tablets using a USDA approved food grade adhesive on only the side attached and at the inside top of the pipe upon pipe installation, and with approximately equal number of tablets at each end of a given pipe length.
4. Fill main with potable water such that water within the main will flow at a velocity no greater than 1 fps.
5. Take precautions as necessary to ensure air pockets are eliminated.
6. Keep water in pipe at least 24 hours, except if water temperature is less than 41 degrees F, then keep water in pipe at least 48 hours. A detectable chlorine residual should be found at each sampling point after the 24 hour period.
- E. Continuous Feed Method:
1. Exhaust all air in main and flush main as thorough as possible with water pressure and outlets available. If no hydrant is installed at end of main, provide a tap large enough to develop a minimum 2.5 fps velocity in main. Disinfection can be accomplished by injecting a 1 percent chlorine solution into the main at a point not more than 10 feet downstream from beginning of new main. Pump potable water for the injector for delivering the 1 percent chlorine solution from a clean and sterile container. Control flow of water from the existing distribution system or other approved potable water source so as to flow slowly into

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PAVEMENT AND WATER MAIN SPECIFICATIONS

- new main during chlorine application, with rate of chlorine application in such proportion to the rate of water entering the main that the solution of clean water and chlorine in the main will have 25 mg/l minimum free chlorine.
2. Keep the solution in the main for 24 hours, during which time all valves and hydrants in the treated section shall be operated to ensure disinfection of appurtenances.
 3. At the end of the 24 hour period, the treated water in all portions of the main shall have a residual of not less than 10 mg/l free chlorine.
- F. Slug Method:
1. Place calcium hypochlorite granules in main during construction.
 2. Fill the main slowly and completely and exhaust all air.
 3. Flush to remove particulates.
 4. Flow a slug of water with 100 mg/l chlorine concentration slowly through main so the main and its appurtenances will be exposed to the highly chlorinated water for minimum 3 hours. If at any time the free chlorine residual in the slug drops below 50 mg/l, stop the flow, relocate the chlorination equipment at the head of the slug, and as flow is resumed, apply chlorine to restore the free chlorine in the slug to minimum 100 mg/l.
- G. Bacteriological Tests:
1. At least two samples taken at 24 hour intervals shall show the water to be safe.
 2. At least one set of samples shall be collected from every 1200 feet of new water main, plus one set from the end of the main and at least one set from each branch.
 3. Before taking a sample, allow the water to flow from the sampling point for at least 1 minute. Use bleach solution, or approved, as specified by AWWA to kill all bacteria. Nothing should be allowed to touch the lip or top of the sample bottle while the sample is being taken. No hose or fire hydrant shall be used in the collection of samples.
 4. If bacteriological tests show the water to be safe, the main may be placed in service in accordance with Article 3.6.
 5. If bacteriological tests show the water to be unsafe, the main shall be completely disinfected again by Contractor, at no additional cost to the City.
- 3.13 COMPLETION OF TESTS
- A. When all tests on the water main have been successfully completed, main will be placed in service by the City.
- B. No further Work on the main, valves, hydrants, and appurtenances will be permitted without full knowledge of the Work by the City.





TYPE	SIZE	PLUGS	
		C	D
2000 PSF SOIL	6" *	10"	24"
	8"	12"	32"
	10"	14"	40"
	12"	16"	47"
	14"	18"	54"
	16"	20"	61"
	20"	24"	74"
	24"	28"	88"

NOTE:
BASED ON 150 PSI STATIC PRESSURE.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

THRUST BLOCKING DETAIL
NO SCALE

DEAD END	LENGTHS OF RESTRAINED PIPE
8"	60'
12"	100'
16"	120'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR LARGER PIPE
REDUCER	
8" X 4"	60'
8" X 6"	40'
12" X 6"	80'
12" X 8"	60'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR TEE BRANCH
TEE	
8" X 6"	60'
8" X 8"	60'
12" X 6"	60'
12" X 8"	60'
12" X 12"	100'
16" X 8"	60'
16" X 12"	100'
16" X 16"	120'

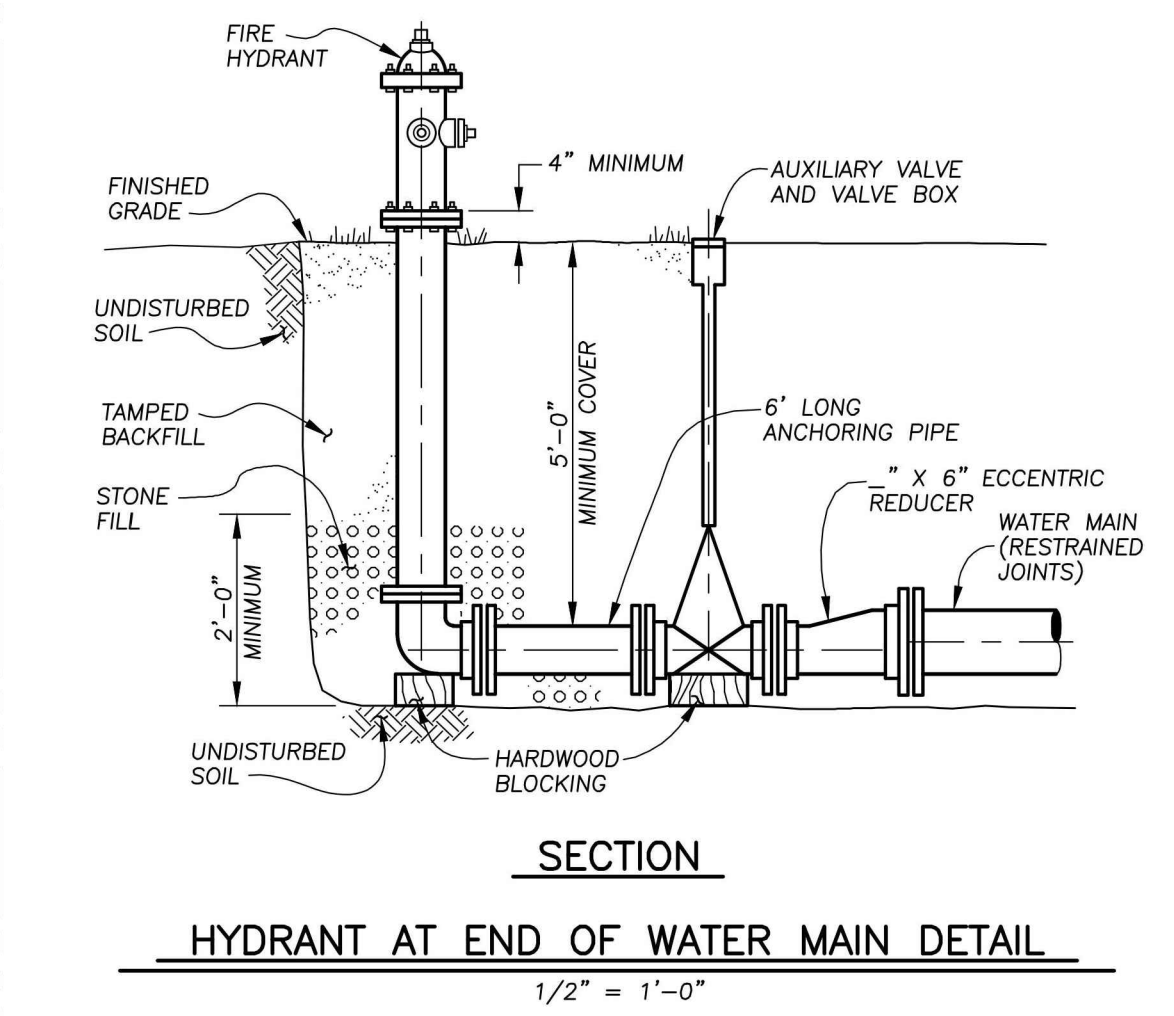
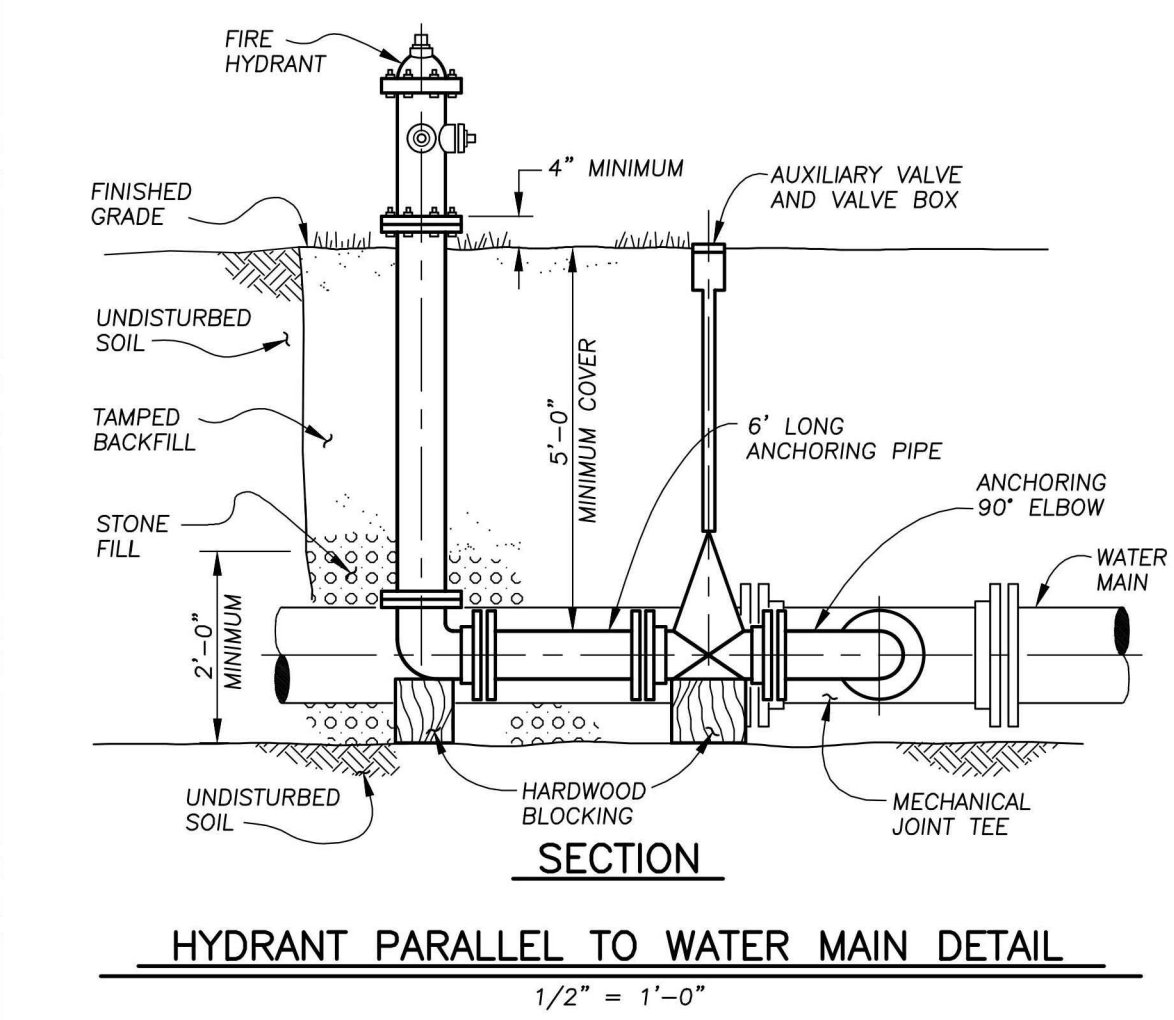
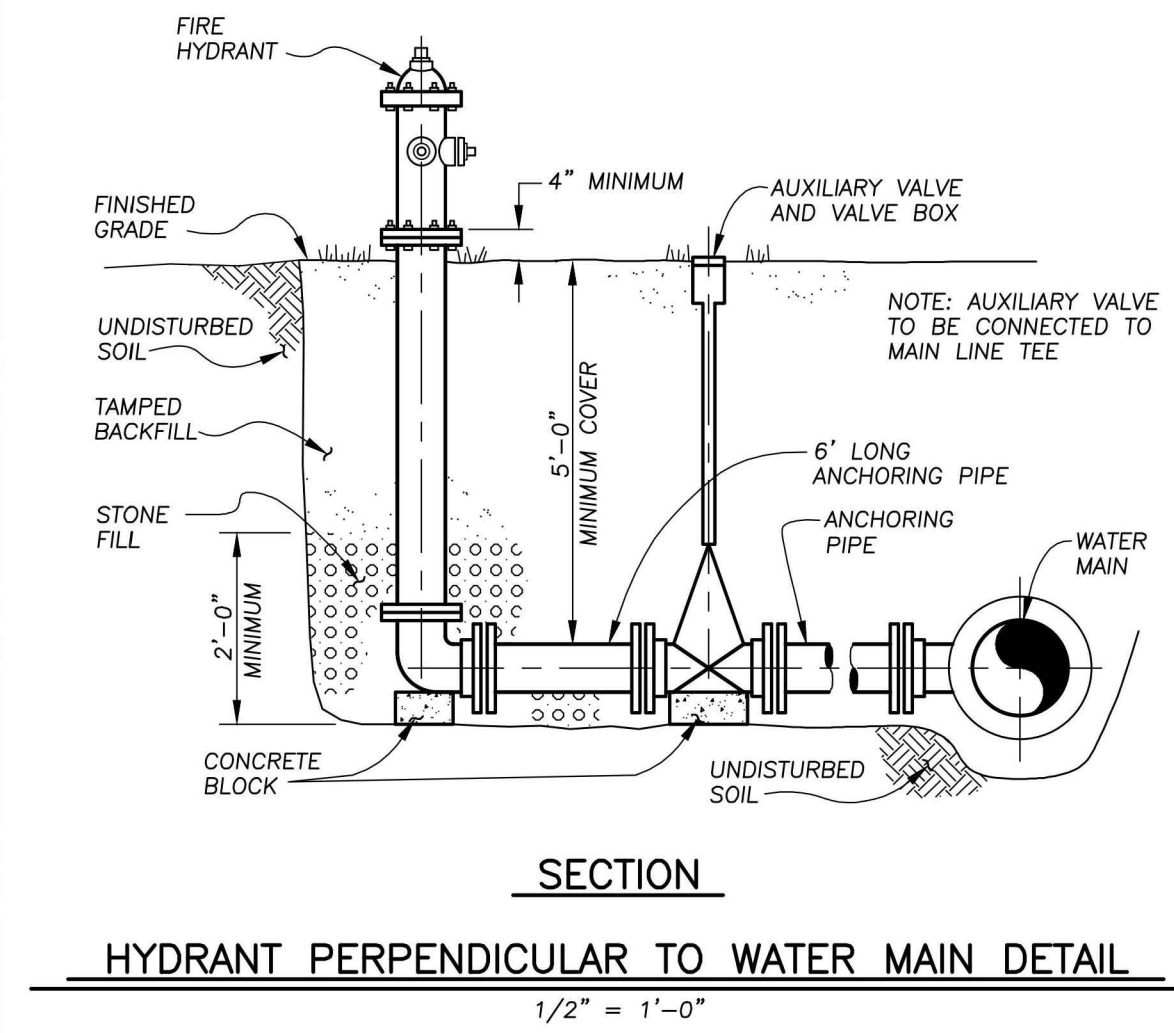
FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
HORIZONTAL BEND	
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	80'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (UP)	
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	40'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (DOWN)	
8" 11 1/4"	20'
8" 22 1/2"	40'
8" 45"	60'
8" 90"	120'
12" 11 1/4"	20'
12" 22 1/2"	40'
12" 45"	80'
12" 90"	180'
16" 11 1/4"	40'
16" 22 1/2"	60'
16" 45"	100'
16" 90"	240'

RESTRAIN ALL JOINTS WITHIN THE INDICATED DISTANCES FOR THE FITTINGS DESCRIBED.

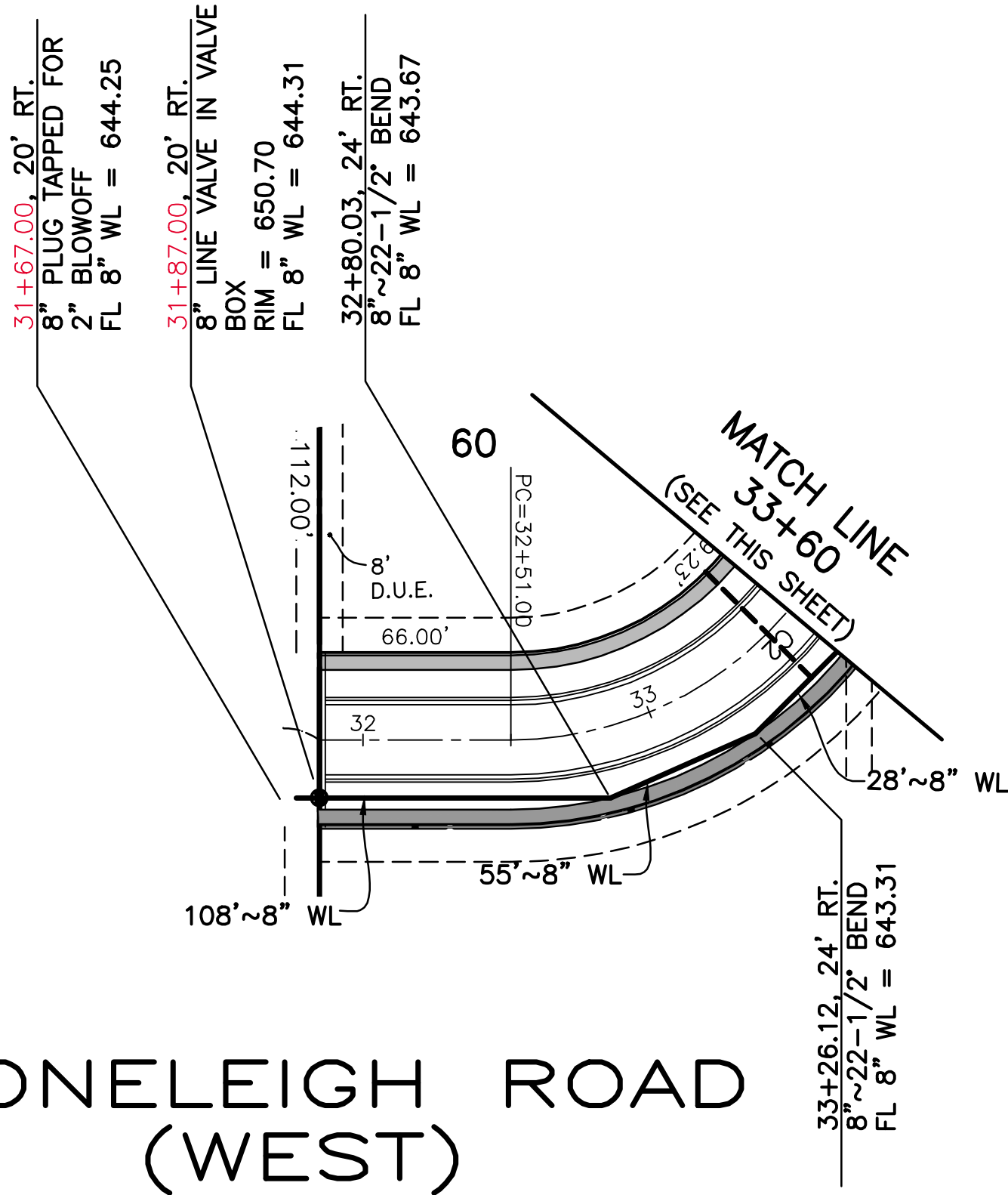
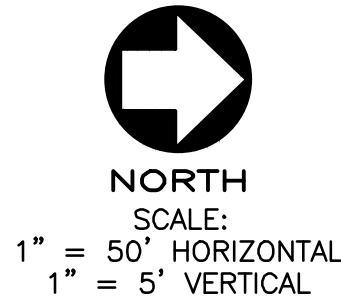
RESTRAINED JOINTS TABLE
BASED ON 150 PSI STATIC PRESSURE



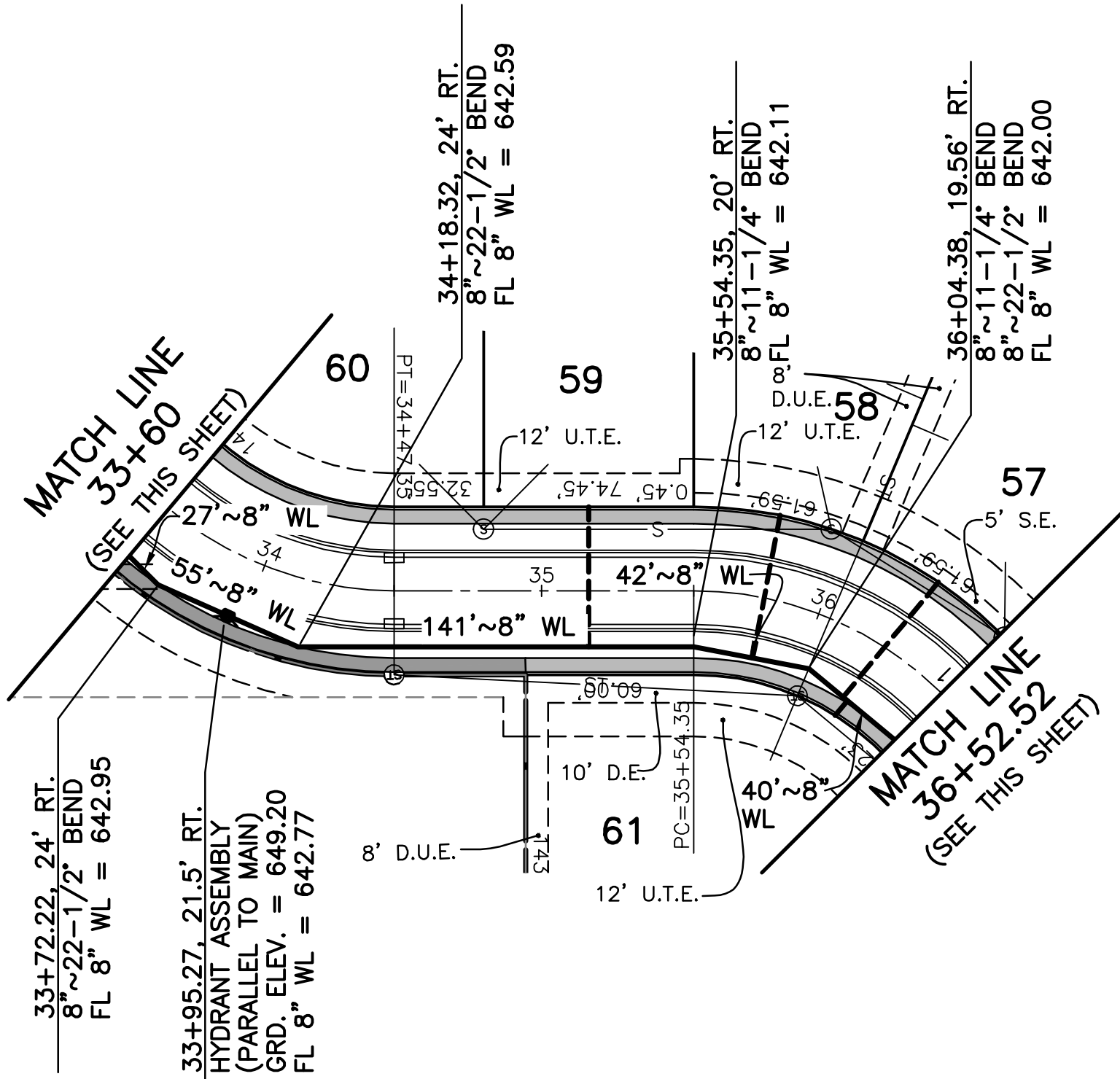
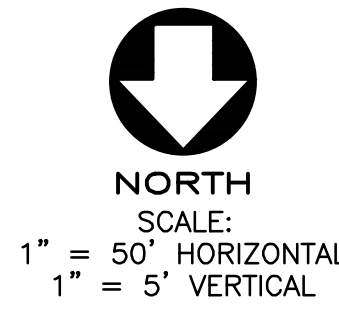
RECORD CONSTRUCTION 01/04/24

EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

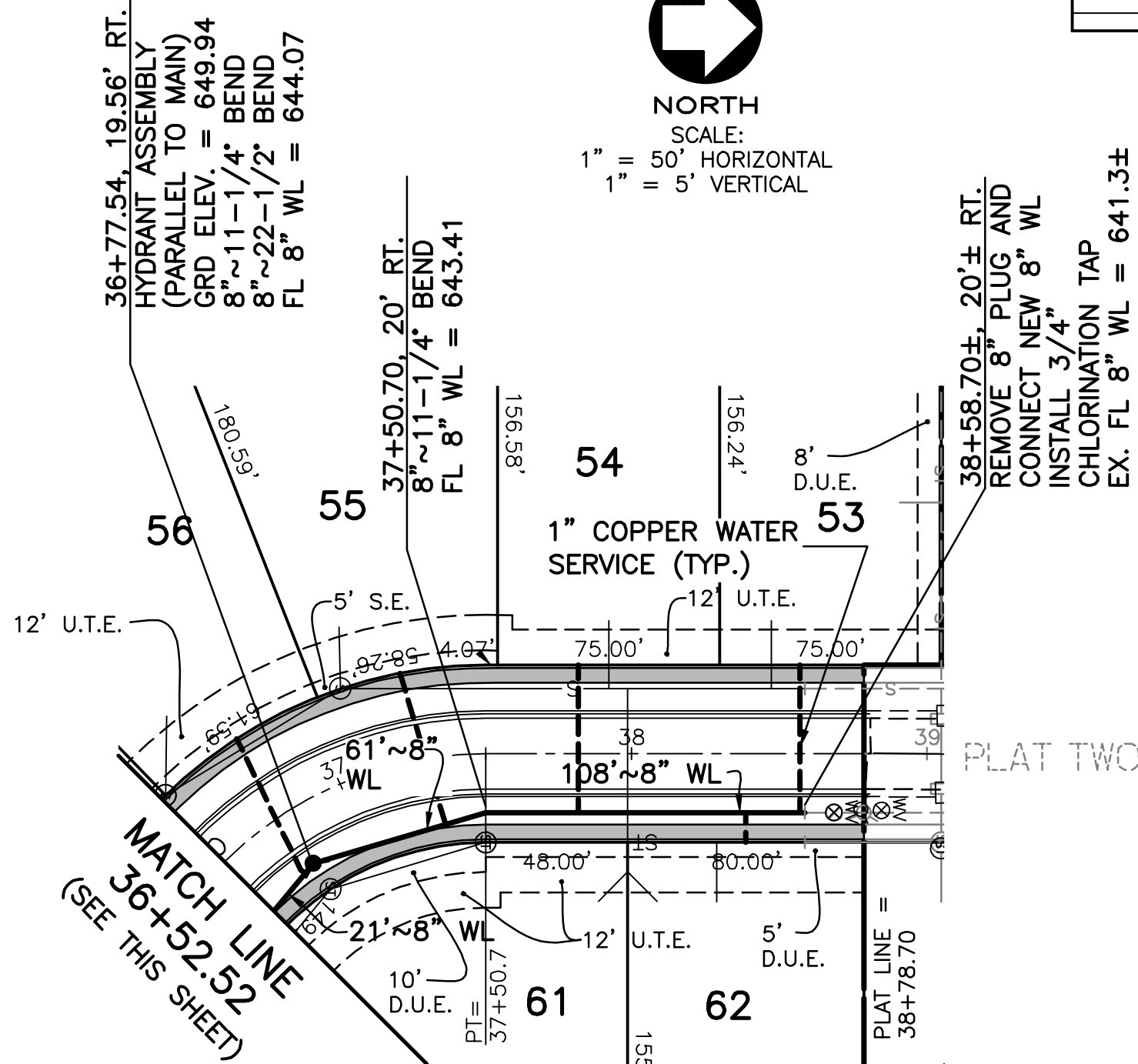
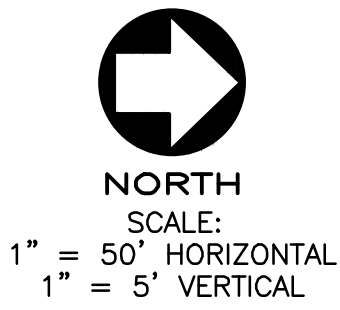
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-30-21
		CHK'D BY:	GNF
		DRAWING:	10-08869WP03A1
			- AB



STONELEIGH ROAD
(WEST)



STONELEIGH ROAD
(WEST)



STONELEIGH ROAD
(WEST)

- WATERLINE NOTES**
- ALL VALVES SHALL BE EXTENDED SO THE OPERATING NUT IS NOT MORE THAN 4' BELOW FINISHED GRADE.
 - KEEP ALL FRAMES, MANHOLE COVERS, VALVES AND APPURTENANCES OUT OF THE SIDEWALK.
 - COORDINATE WITH THE DEPARTMENT OF PUBLIC UTILITIES FOR PROCEDURES AND MATERIALS TO ABANDON THE 3/4" CHLORINATION TAP.

