

Ayrshire Farms

Dublin, Ohio

DATE: November 01, 2021

Final Development Plan Submittal

PROJECT NO. 19053

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PREPARED FOR

MC Shier Rings LLC
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PREPARED BY



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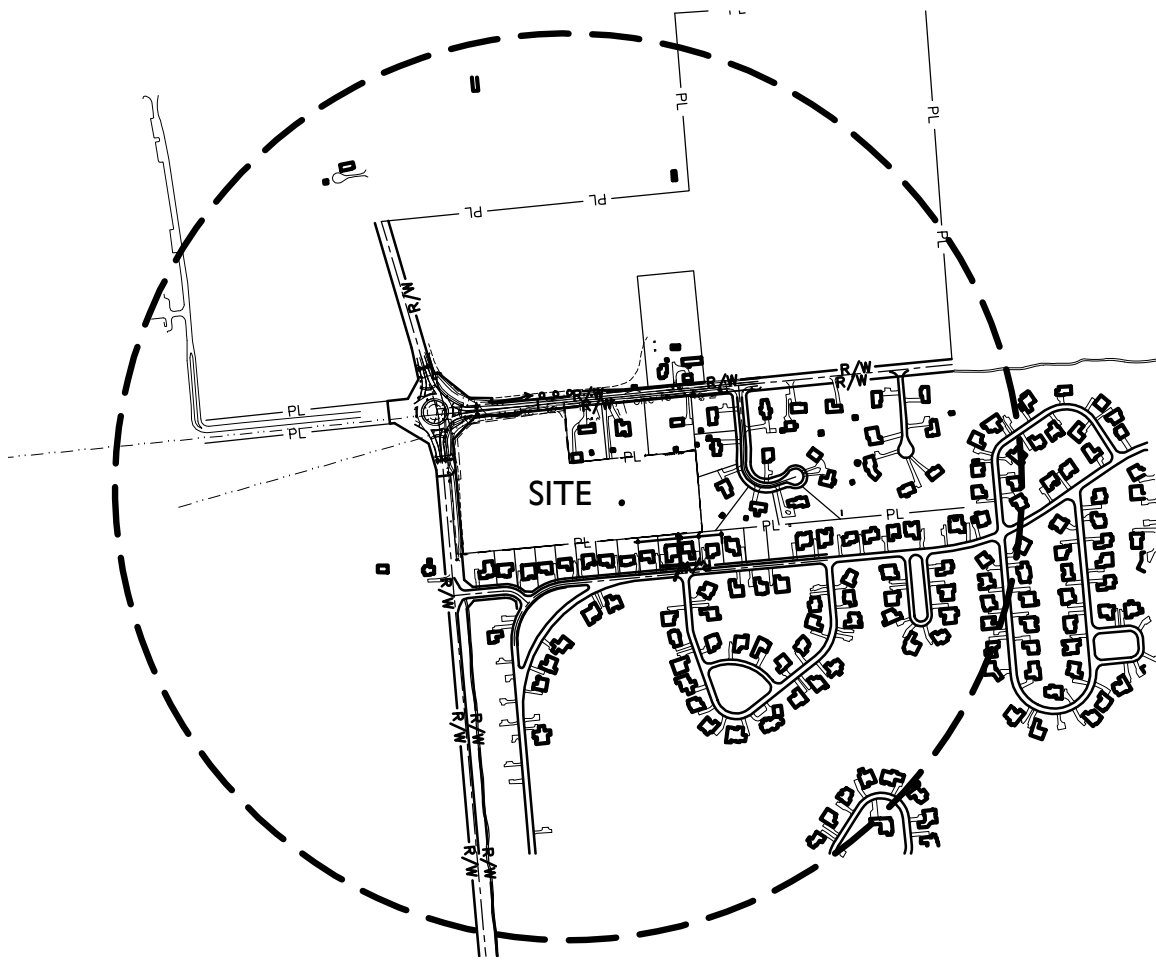
2550 Corporate Exchange Dr.
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VICINITY MAP

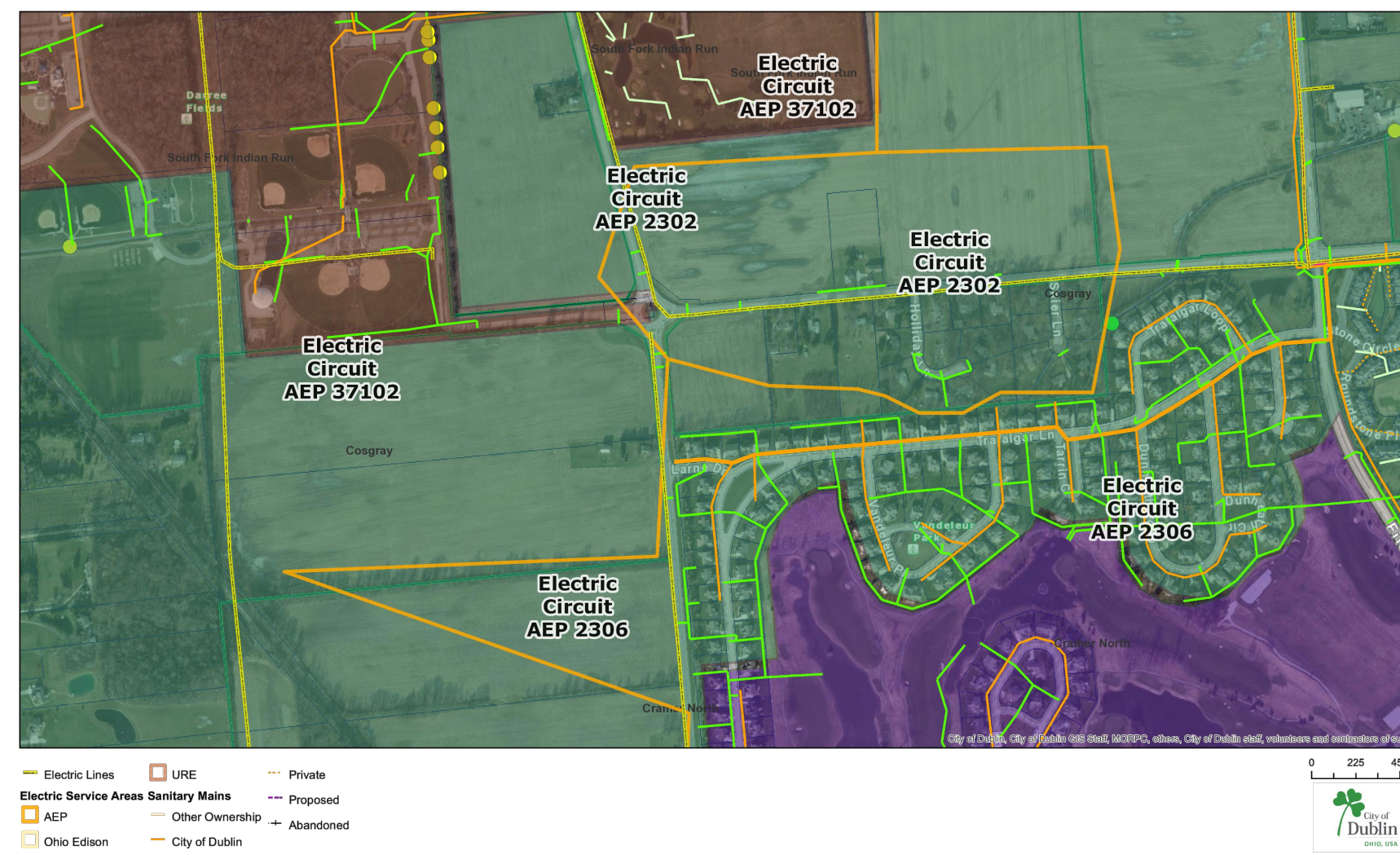
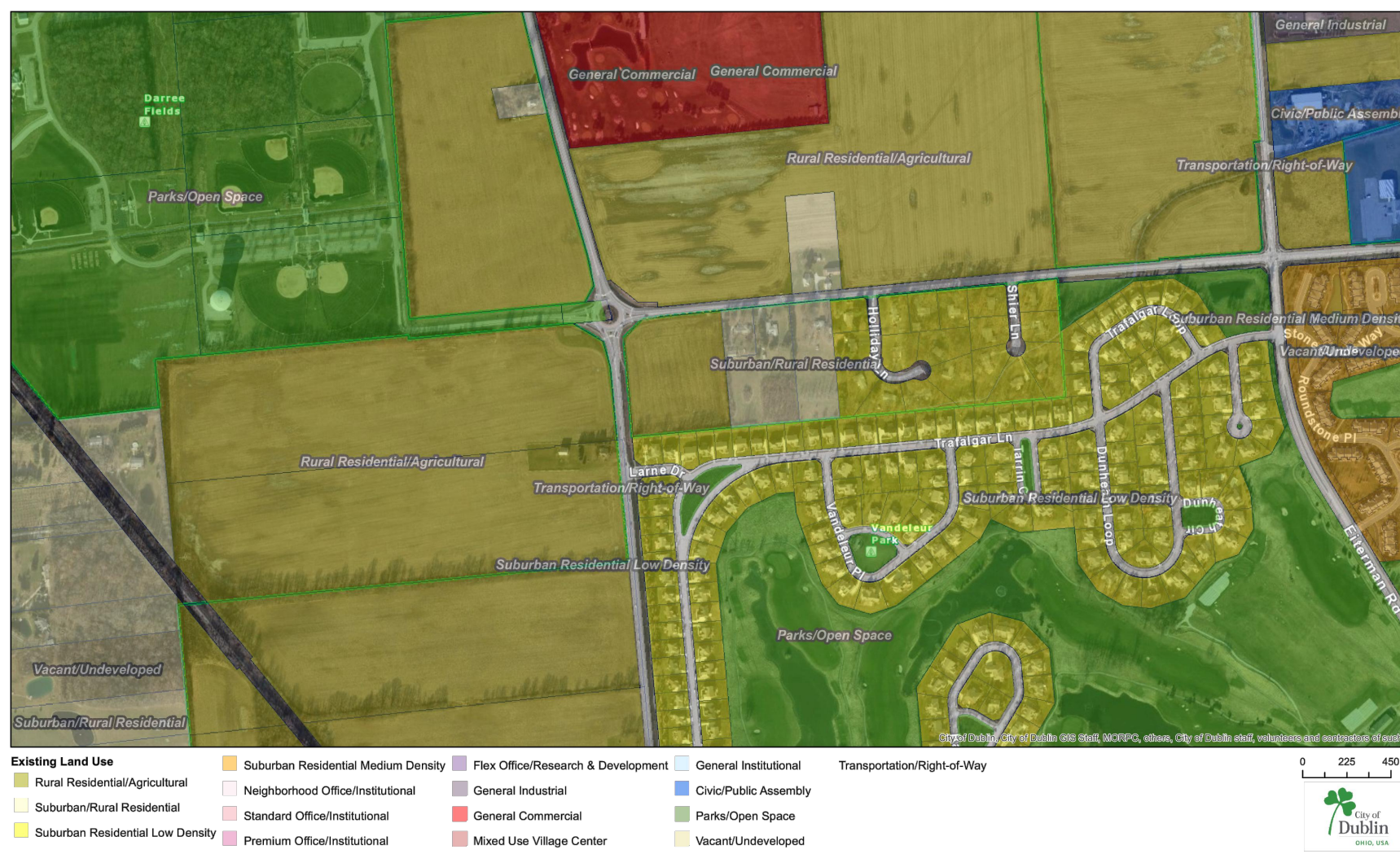


SCALE: 1" = 1000'





2000' RADIUS



- INTERMEDIATE CONTOUR LINE
- INDEX CONTOUR LINE

NOTE:
BASE FILES GENERATED FROM
COUNTY AND CITY GIS FILES.

UTILITY PROVIDER NOTE:
ELECTRIC SERVICE - AEP
TELEPHONE SERVICE - AT&T
WATER SERVICE - CITY OF DUBLIN
SANITARY SERVICE - CITY OF DUBLIN
NATURAL GAS - COLUMBIA GAS OF OHIO

DRAINAGE NOTE:
THE SITE IS LOCATED IN THE COSGRAY
CREEK WATERSHED AND GENERALLY DRAINS
FROM NORTHWEST AND SOUTHEAST AWAY
FROM THE CENTER OF THE SITE. THE SITE IS
ENTIRELY OUT OF THE 100-YEAR
FLOODPLAIN

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By GB/TF
Scale As Noted

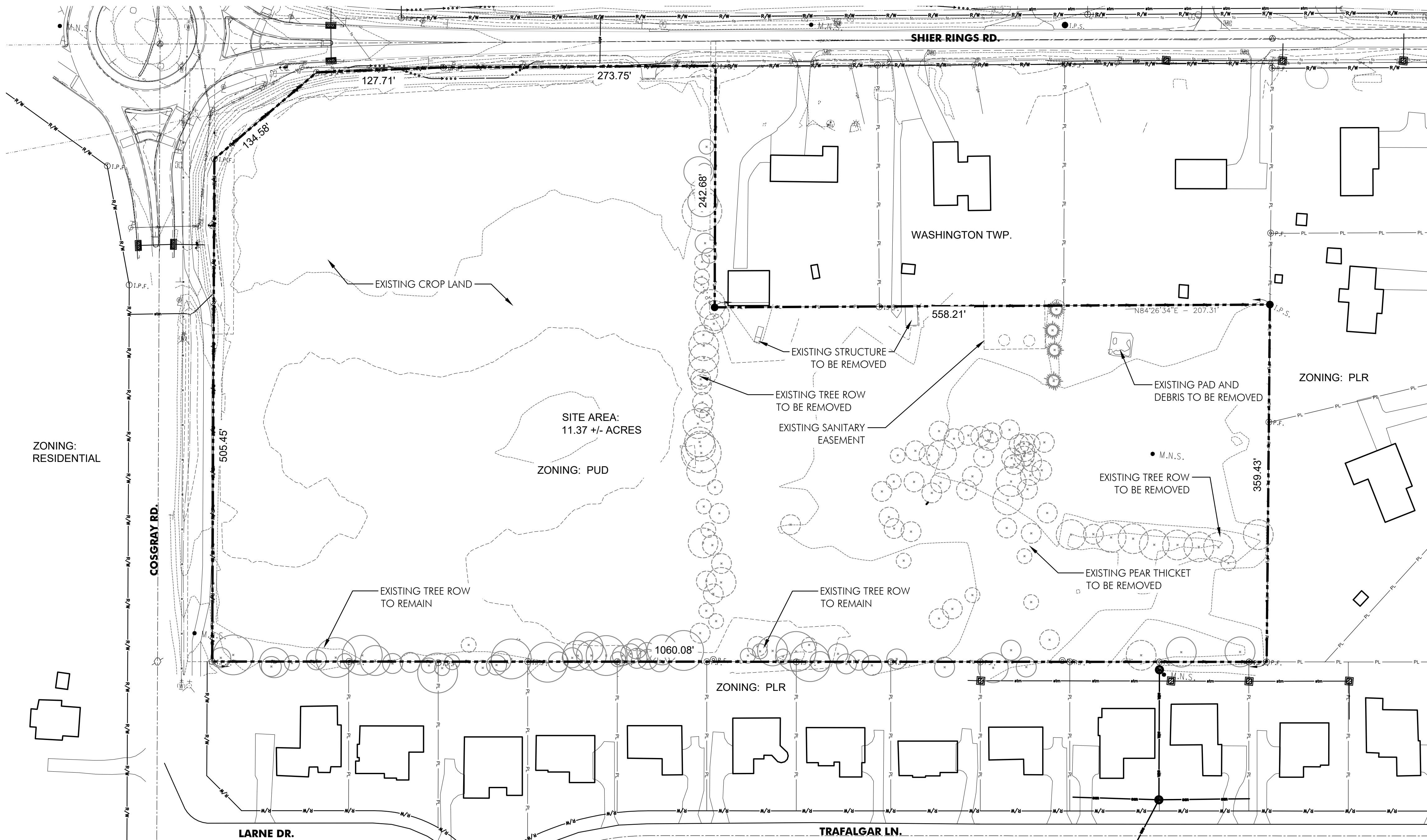
Revisions

Sheet Title

**Existing
Conditions
Plan**

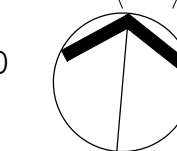
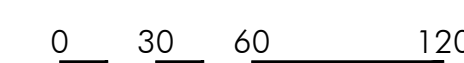
Sheet #

L0.01



Existing Conditions Plan

SCALE: 1" = 60'-0"



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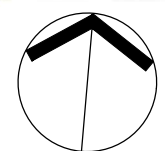
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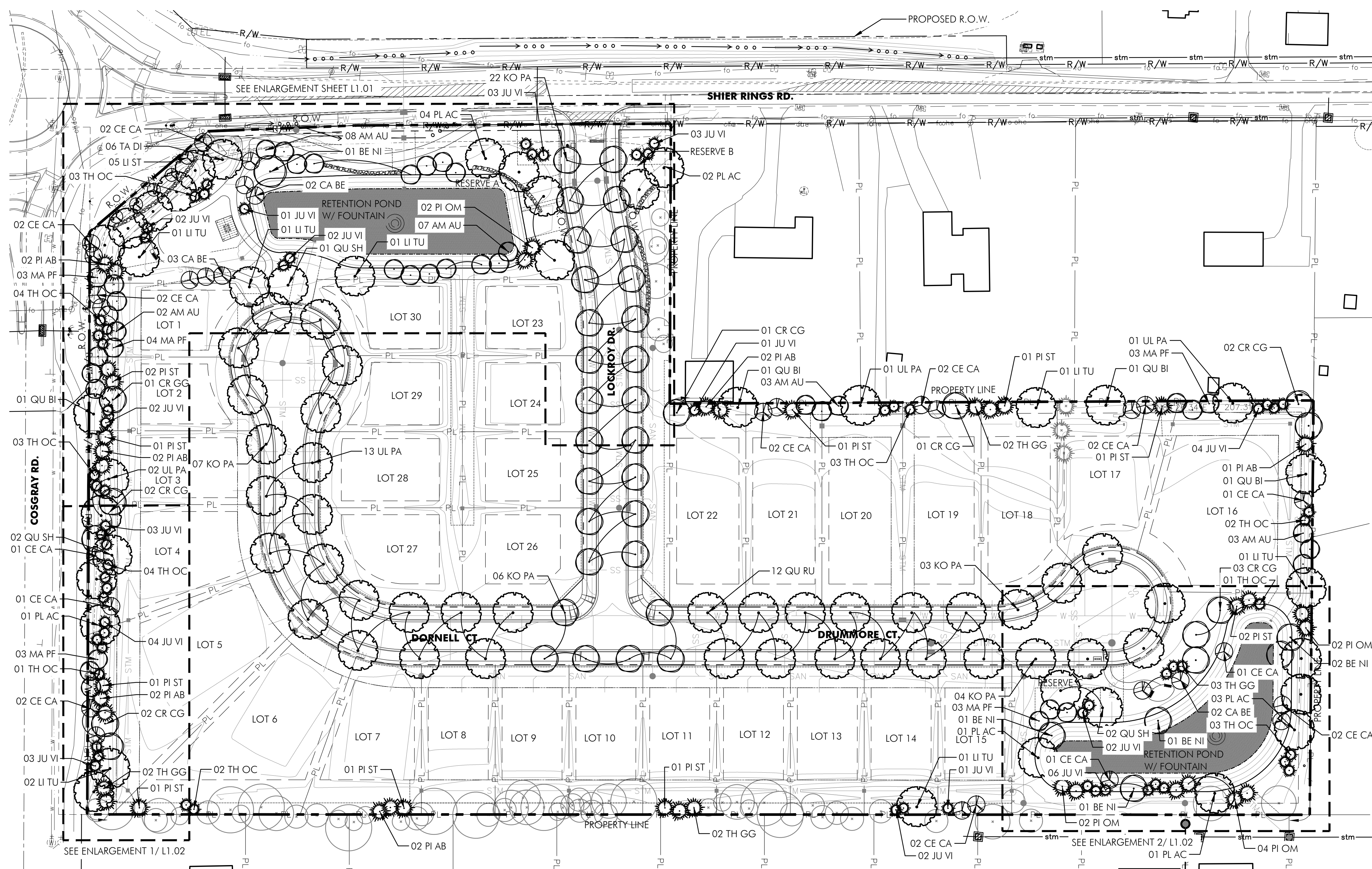
Sheet Title

Illustrative Site Plan

Sheet #

L0.02





LEGEND

- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- PROPOSED LARGE DECIDUOUS TREE
- PROPOSED MEDIUM DECIDUOUS TREE
- PROPOSED SMALL DECIDUOUS TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
TREES						
24	AM AU	<i>Amelanchier canadensis</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5" cal.	B&B	As Shown
6	BE NI	<i>Betula nigra</i> 'Heritage'	Heritage River Birch	2.5" cal.	B&B	As Shown
7	CA BE	<i>Carpinus betulus</i>	European Hornbeam	2.5" cal.	B&B	As Shown
23	CE CA	<i>Cercis canadensis</i>	Eastern Redbud	2.5" cal.	B&B	As Shown
12	CR CG	<i>Crataegus crus-galli</i> var. <i>inermis</i> 'Crusader'	Crusader Hawthorn	2.5" cal.	B&B	As Shown
39	JU VI	<i>Juniperus virginiana</i> 'Burkii'	Eastern Red Cedar	6' ht.	B&B	As Shown
28	KO PA	<i>Koeleria paniculata</i>	Goldenrain Tree	2.5" cal.	B&B	As Shown
5	LI ST	<i>Liquidambar styraciflua</i> 'Slender Silhouette'	Slender Silhouette Sweetgum	2.5" cal.	B&B	As Shown
8	LI TU	<i>Liriodendron tulipifera</i>	Tuliptree	2.5" cal.	B&B	As Shown
15	MA PF	<i>Malus 'Prairifire'</i>	Prairie Fire Crabapple	2.5" cal.	B&B	As Shown
11	PI AB	<i>Picea abies</i>	Norway Spruce	8'-10' ht.	B&B	As Shown
10	PI OM	<i>Picea omorika</i>	Serbian Spruce	8'-10' ht.	B&B	As Shown
10	PI ST	<i>Pinus strobus</i>	White Pine	12'-15' ht.	B&B	As Shown
12	PL AC	<i>Platanus x acerifolia</i> 'Exclamation'	Exclamation London Planetree	2.5" cal.	B&B	As Shown
4	QU BI	<i>Quercus bicolor</i>	Swamp White Oak	2.5" cal.	B&B	As Shown
12	QU RU	<i>Quercus rubra</i>	Red Oak	2.5" cal.	B&B	As Shown
5	QU SH	<i>Quercus shumardii</i>	Shumard Oak	2.5" cal.	B&B	As Shown
6	TA DI	<i>Taxodium distichum</i>	Bald Cypress	2.5" cal.	B&B	As Shown
9	TH GG	<i>Thuja 'Green Giant'</i>	Green Giant Arborvitae	6' ht.	B&B	As Shown
1	TH OC	<i>Thuja occidentalis</i> 'Smaragd'	American Arborvitae	6' ht.	B&B	As Shown
17	UL PA	<i>Ulmus parvifolia</i>	Lacebark Elm	2.5" cal.	B&B	As Shown


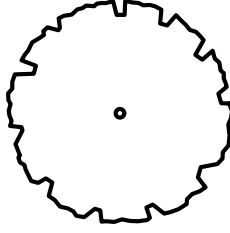
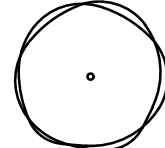


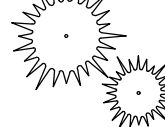
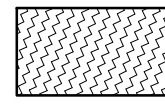
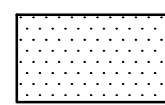
*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

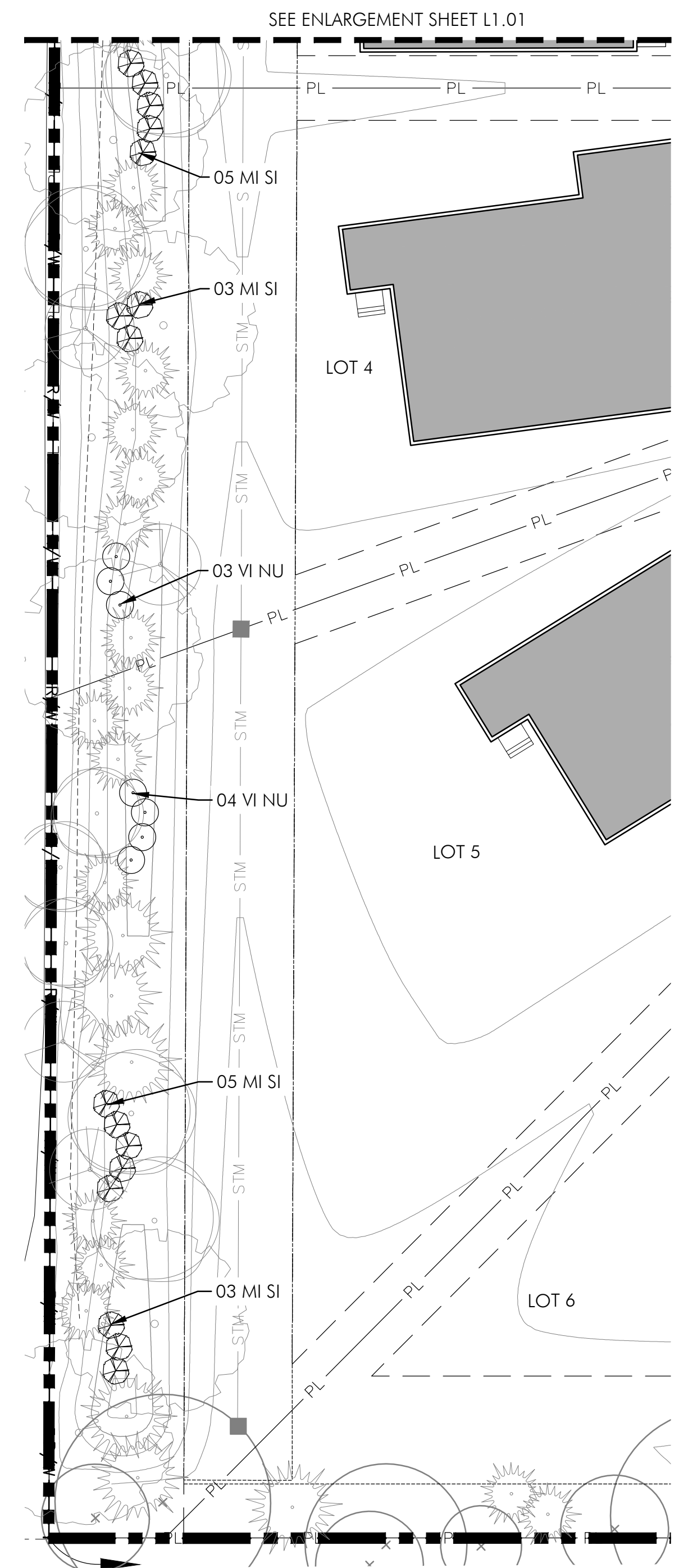
Overall Landscape Plan
SCALE: 1" = 50'-0"

PLANT INSTALLATION NOTES

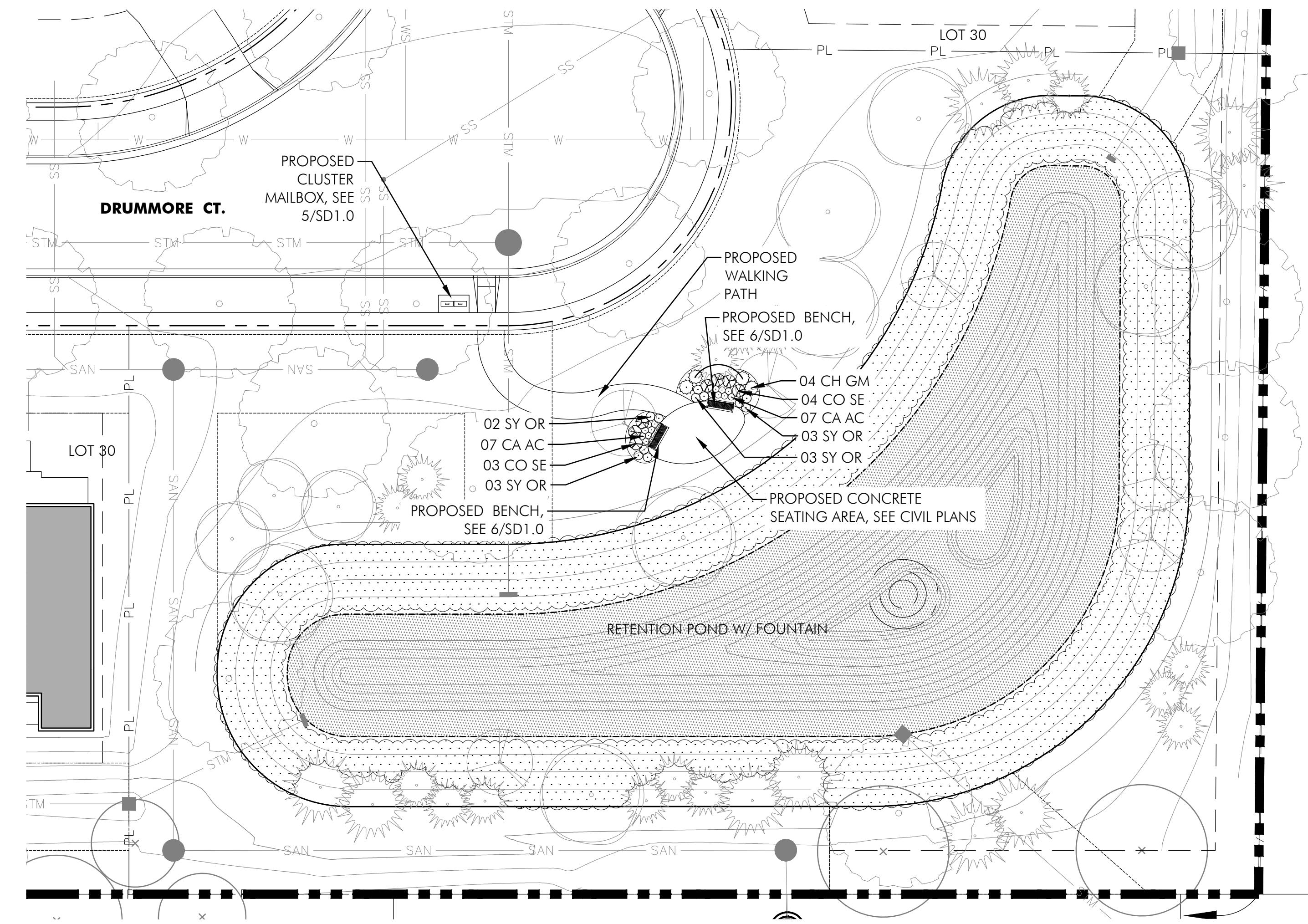
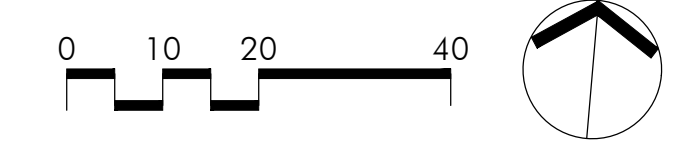
- CONTRACTOR SHALL VERIFY WITH THE OWNER AND UTILITY COMPANIES THE LOCATIONS OF THE EXISTING UTILITIES PRIOR TO STARTING WORK. CALL THE OHIO UTILITIES PROTECTION SERVICE AT (800) 362-2764. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE CONSTRUCTION OF THE PROJECT.
- PLANT MATERIAL SHALL BE FURNISHED IN THE QUANTITIES AND/OR SPACING AS SHOWN OR NOTED. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SITE ELEMENTS AND IMMEDIATELY INFORM THE OWNER AND DESIGN CONSULTANT OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS. NO WORK SHALL BE DONE IN ANY AREA WHERE THERE IS A DISCREPANCY WITHOUT OWNER'S APPROVAL.
- CONTACT THE OWNER TO REQUEST ELECTRONIC FILES FOR LAYOUT AND STAKING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN THE PROJECT REQUIRED TO PROVIDE A PROPER SOD AND PLANTING BED.
- ALL PLANT MATERIAL TO MEET OR EXCEED AMERICAN STANDARD FOR NURSERY STOCK, 1986 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SUBJECT TO INSPECTION PRIOR, DURING AND AFTER INSTALLATION. ANY PLANT NOT MEETING THE REQUIREMENTS WILL BE CAUSE FOR REJECTION BY THE OWNER. ALL REJECTED PLANTS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE REPLACEMENT MATERIAL SHALL BE PROVIDED.
- ALL SUBSTITUTIONS AND PLANT CHANGES MUST BE APPROVED BY THE OWNER AND DESIGN CONSULTANT PRIOR TO ANY ACTION TAKEN. TREES SHALL BE PROTECTED AND HANDLED CAREFULLY AT ALL TIMES DURING TRANSPORT & HANDLING TO PREVENT DRYING OF TREE OR ROOT BALL BY WINDS AND TO PREVENT ANY DAMAGE OR BREAKAGE OF THE ROOT BALL. BARK SHALL BE PROTECTED FROM BRUISING OR ABRASION.
- WATER TREES IMMEDIATELY AFTER PLANTING AND CONTINUE TO WATER UNTIL FINAL ACCEPTANCE BY THE OWNER.
- PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY OWNER AND DESIGN CONSULTANT BY PRIOR TO PLANT INSTALLATION.
- ALL SHRUB AND BED AREAS TO BE MULCHED WITH TWO INCHES (2") DEPTH MINIMUM SHREDDED HARDWOOD MULCH. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
- FINISHED TURF (SOD) TO BE FLUSH WITH TOP OF ADJACENT CURB OR WALK. COORDINATE WITH OWNER IN FIELD AS REQUIRED.
- THE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS AND GROUND COVERS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPLACE MATERIAL WITHIN SEVEN (7) DAYS OF NOTIFICATION OF THE OWNER.
- PERFORM CLEANING DURING INSTALLATION OF LANDSCAPE WORK AND UPON COMPLETION. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPING OPERATIONS. SWEEP AND HOSE DOWN PAVED SURFACES AFFECTED BY LANDSCAPING OPERATIONS. COORDINATE WITH OWNER AND OTHER CONTRACTORS FOR FINAL CLEANUP PRIOR TO CLEANING.

LEGEND

-  EXISTING DECIDUOUS TREE
-  PROPOSED LARGE DECIDUOUS TREE
-  PROPOSED MEDIUM DECIDUOUS TREE
-  PROPOSED SMALL DECIDUOUS TREE
-  PROPOSED ORNAMENTAL TREE
-  PROPOSED EVERGREEN TREE
-  PROPOSED PERENNIALS
-  PROPOSED LINKS GRASS MIX, 12"-24" HEIGHT, TO BE MOWED ONCE A YEAR. MIX TO BE MADE UP OF BROWNTOP BENT AND RED FESCUE GRASSES



1 S. Cosgray Buffer Planting
SCALE: 1" = 20'-0"



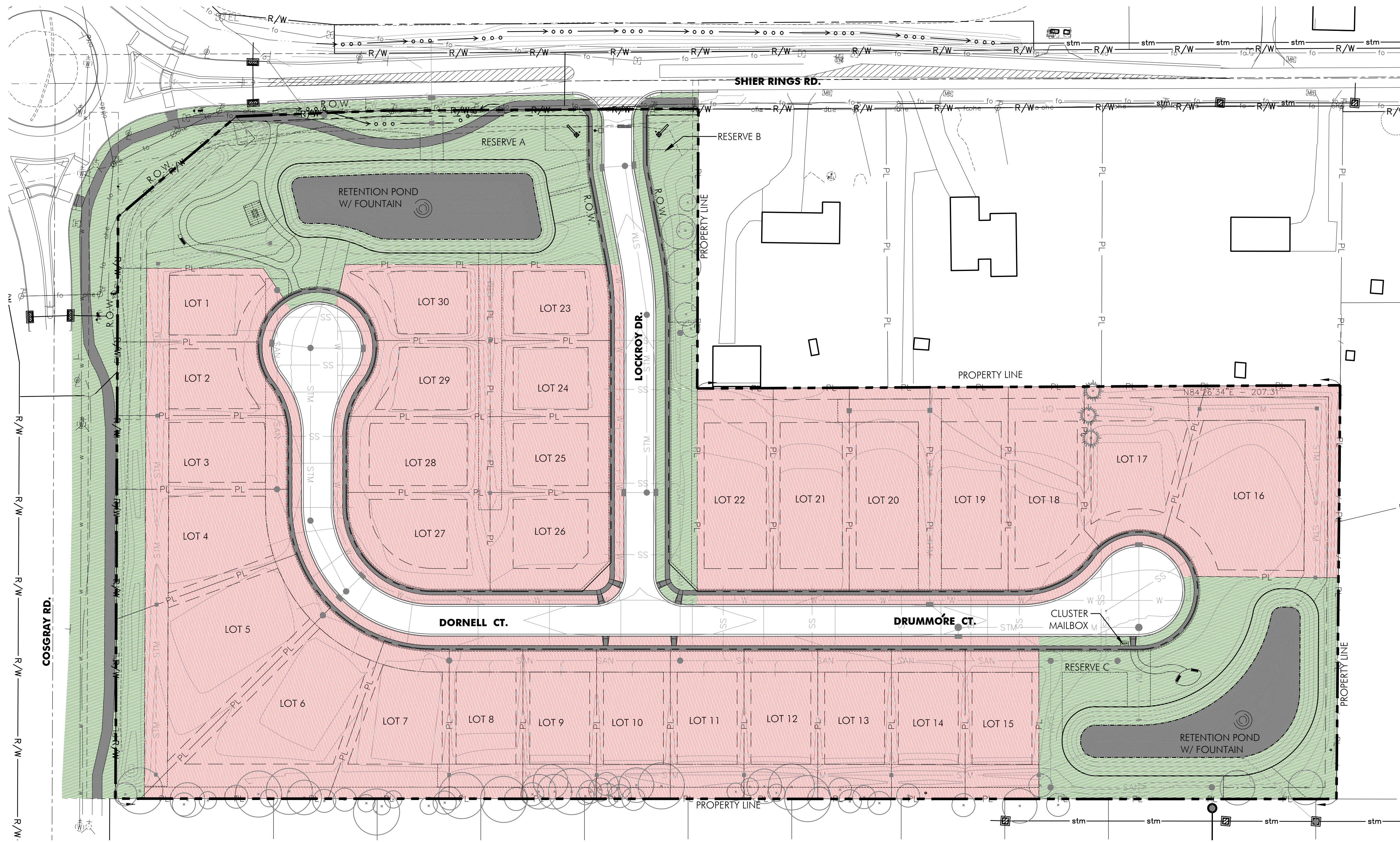
2 Southeast Basin Planting
SCALE: 1" = 20'-0"

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
SHRUBS						
4	CH GM	<i>Chamaecyparis pisifera</i> 'Gold Mop'	Gold Mop False Cypress	24" ht.	Cont.	As Shown
7	CO SE	<i>Cornus sericea</i> 'Cardinal'	Cardinal Redtwig Dogwood	24" ht.	Cont.	As Shown
11	SY OR	<i>Symphoricarpos orbiculatus</i>	Corelberry	24" ht.	Cont.	As Shown
7	VI NU	<i>Viburnum nudum</i> 'Winterthur'	Smooth Witherod	24" ht.	Cont.	As Shown

*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
ORNAMENTAL GRASSES & PERENNIALS						
21	CA AC	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 Cont.	Cont.	18" O.C.
414	HE PM	<i>Hemerocallis</i> 'Pardon Me'	Pardon Me Daylily	#1 Cont.	Cont.	12" O.C.
195	HY HE	<i>Hylotelephium</i> 'Herbstfreude' <i>Autumn Joy</i>	Autumn Joy Sedum	#1 Cont.	Cont.	12" O.C.
16	MI SI	<i>Miscanthus sinensis</i> 'Gracillimus'	Maiden Grass	#2 Cont.	Cont.	24" O.C.
12	NE WL	<i>Nepeta</i> 'Walker's Low'	Walker's Low Catmint	#1 Cont.	Cont.	24" O.C.
4	PA CS	<i>Panicum virgatum</i> 'Cheyenne Sky'	Cheyenne Sky Switch Grass	#2 Cont.	Cont.	24" O.C.
20	PA VI	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switch Grass	#2 Cont.	Cont.	24" O.C.

*Owner may substitute plant species based on availability & approval by City and Landscape Architect.



- LEGEND**
- EXISTING DECIDUOUS TREE
 - EXISTING EVERGREEN TREE
 - INDIVIDUAL HOME OWNER MAINTENANCE AREA
 - HOA MAINTENANCE AREA
 - CITY MAINTENANCE AREA

MAINTENANCE RESPONSIBILITY CHART

RESERVE	ACRES	OWNERSHIP	MAINTAINED BY
A	1.157	CITY OF DUBLIN	HOA
B	0.27	CITY OF DUBLIN	HOA
C	0.96	CITY OF DUBLIN	HOA



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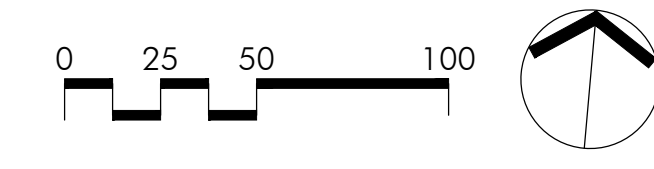
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Revisions

Maintenance Responsibility Plan East
 SCALE: 1" = 50'-0"



Sheet Title
MAINTENANCE RESPONSIBILITY PLAN

Sheet #
L1.03

EVALUATION OF EXISTING TREES

ID #	Species	Common Name	Size	Condition	Status
7625	<i>Crataegus species</i>	hawthorn	15	Fair	B
7626	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B
7627	<i>Juglans nigra</i>	black walnut	20	Good	B
7628	<i>Juglans nigra</i>	black walnut	15	Fair	B
7629	<i>Juglans nigra</i>	black walnut	18	Good	B
7630	<i>Juglans nigra</i>	black walnut	20	Fair	B
7631	<i>Juglans nigra</i>	black walnut	19	Good	B
7632	<i>Juglans nigra</i>	black walnut	14	Good	B
7633	<i>Juglans nigra</i>	black walnut	13	Good	B
7634	<i>Juglans nigra</i>	black walnut	15	Good	B
7635	<i>Malus species</i>	crabapple	20	Fair	A
7636	<i>Pyrus calleryana</i>	flowering pear	21	Fair	A
7637	<i>Malus species</i>	crabapple	18	Poor	B
7638	<i>Malus species</i>	crabapple	10	Poor	A
7639	<i>Morus species</i>	mulberry	16	Fair	A
7640	<i>Juglans nigra</i>	black walnut	8	Excellent	A
7641	<i>Juglans nigra</i>	black walnut	9	Good	A
7642	<i>Picea abies</i>	Norway spruce	16	Good	A
7643	<i>Pinus strobus</i>	white pine	17	Good	A
7644	<i>Picea abies</i>	Norway spruce	11	Good	A
7645	<i>Picea abies</i>	Norway spruce	9	Good	B
7646	<i>Juglans nigra</i>	black walnut	8	Excellent	A
7647	<i>Juglans nigra</i>	black walnut	12	Good	A
7648	<i>Juglans nigra</i>	black walnut	11	Good	A
7649	<i>Prunus serotina</i>	black cherry	9	Good	A
7650	<i>Prunus serotina</i>	black cherry	8	Fair	A
7651	<i>Prunus serotina</i>	black cherry	27	Fair	A*
7652	<i>Prunus serotina</i>	black cherry	7	Poor	B
7653	<i>Acer saccharinum</i>	silver maple	85	Fair	A*
7654	<i>Acer negundo</i>	boxelder	6	Fair	A
7655	<i>Prunus serotina</i>	black cherry	15	Very Poor	A
7656	<i>Juglans nigra</i>	black walnut	6	Fair	A

7657	<i>Prunus serotina</i>	black cherry	11	Fair	A
7658	<i>Juglans nigra</i>	black walnut	6	Fair	A
7659	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7660	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7661	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B*
7662	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7663	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7664	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7665	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7666	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B*
7667	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7668	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7669	<i>Pyrus calleryana</i>	flowering pear	13	Fair	B*
7670	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7671	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B*
7672	<i>Pyrus calleryana</i>	flowering pear	16	Fair	B*
7673	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7674	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7675	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7676	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7677	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7678	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7679	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7680	<i>Pyrus calleryana</i>	flowering pear	12	Poor	B*
7681	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7682	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7683	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7684	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7685	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7686	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7687	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7688	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B
7689	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*

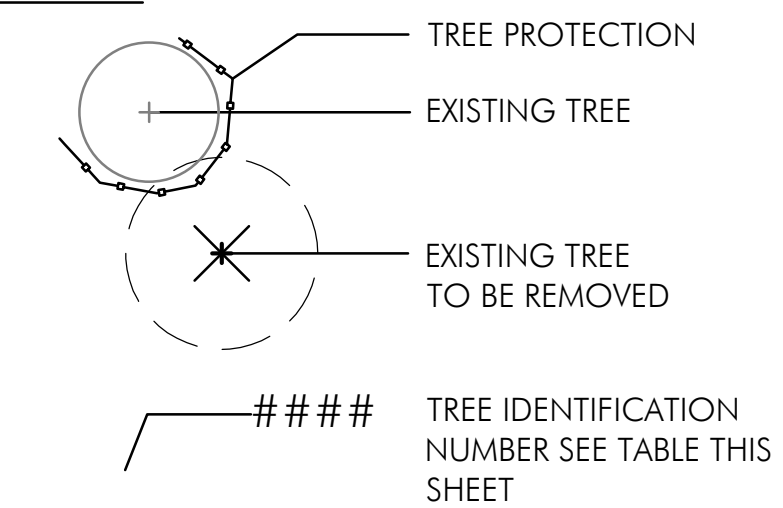
7690	<i>Pyrus calleryana</i>	flowering pear	13	Fair	B*
7691	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B*
7692	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7693	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7694	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7695	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7696	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7697	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7698	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7699	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7700	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7701	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7702	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7703	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7704	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7705	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7706	<i>Celtis occidentalis</i>	hackberry	8	Poor	B
7707	<i>Juglans nigra</i>	black walnut	7	Good	A
7708	<i>Acer saccharinum</i>	silver maple	16	Fair	A
7709	<i>Juglans nigra</i>	black walnut	6	Fair	A
7710	<i>Acer saccharum</i>	sugar maple	16	Fair	A
7711	<i>Fraxinus americana</i>	white ash	26	Dead	B
7712	<i>Quercus palustris</i>	pin oak	12	Good	B
7713	<i>Juglans nigra</i>	black walnut	6	Fair	B
7714	<i>Acer saccharinum</i>	silver maple	6	Good	A
7715	<i>Acer saccharinum</i>	silver maple	6	Good	A
7716	<i>Acer saccharinum</i>	silver maple	6	Good	A
7717	<i>Acer saccharinum</i>	silver maple	16	Fair	B*
7718	<i>Acer saccharinum</i>	silver maple	17	Fair	B*
7719	<i>Acer saccharinum</i>	silver maple	8	Poor	B
7720	<i>Morus species</i>	mulberry	8	Fair	B
7721	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B
7722	<i>Morus species</i>	mulberry	15	Fair	B*

7723	<i>Morus species</i>	mulberry	17	Fair	B*
7724	<i>Acer saccharinum</i>	silver maple	8	Poor	B
7725	<i>Acer saccharinum</i>	silver maple	13	Fair	B
7726	<i>Pyrus calleryana</i>	flowering pear	12	Poor	B
7727	<i>Morus species</i>	mulberry	7	Fair	B
7728	<i>Morus species</i>	mulberry	6	Poor	B
7729	<i>Morus species</i>	mulberry	14	Fair	B
7730	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B
7731	<i>Morus species</i>	mulberry	17	Fair	B
7732	<i>Acer saccharinum</i>	silver maple	32	Poor	B*
7733	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B
7734	<i>Morus species</i>	mulberry	6	Good	B
7735	<i>Juglans nigra</i>	black walnut	6	Excellent	B
7736	<i>Morus species</i>	mulberry	8	Fair	B
7737	<i>Malus species</i>	crabapple	6	Fair	B
7738	<i>Acer saccharinum</i>	silver maple	14	Fair	B
7739	<i>Pyrus calleryana</i>	flowering pear	8	Poor	B
7740	<i>Juglans nigra</i>	black walnut	8	Good	B
7741	<i>Morus species</i>	mulberry	17	Fair	B*
7742	<i>Malus species</i>	crabapple	10	Fair	B*
7743	<i>Morus species</i>	mulberry	8	Good	B
7744	<i>Prunus serotina</i>	black cherry	7	Fair	B
7745	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B
7746	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B
7747	<i>Prunus serotina</i>	black cherry	43	Very Poor	A*
7748	<i>Prunus serotina</i>	black cherry	15	Poor	A
7749	<i>Prunus serotina</i>	black cherry	9	Fair	A
7750	<i>Prunus serotina</i>	black cherry	12	Fair	A
7751	<i>Celtis occidentalis</i>	hackberry	8	Good	A
7752	<i>Celtis occidentalis</i>	hackberry	8	Fair	A
7753	<i>Celtis occidentalis</i>	hackberry	8	Fair	A
7754	<i>Celtis occidentalis</i>	hackberry	9	Good	A
7755	<i>Celtis occidentalis</i>	hackberry	8	Good	A

7756	<i>Celtis occidentalis</i>	hackberry	7	Fair	A
7757	<i>Celtis occidentalis</i>	hackberry	40	Fair	A*
7758	<i>Acer saccharinum</i>	silver maple	17	Fair	A
7759	<i>Celtis occidentalis</i>	hackberry	16	Fair	A
7760	<i>Celtis occidentalis</i>	hackberry	18	Poor	A
7761	<i>Prunus serotina</i>	black cherry	12	Good	A
7762	<i>Acer saccharinum</i>	silver maple	8	Dead	A
7763	<i>Acer saccharinum</i>	silver maple	37	Fair	A
7764	<i>Acer saccharinum</i>	silver maple	31	Fair	A
7765	<i>Prunus serotina</i>	black cherry	8	Very Poor	A
7766	<i>Acer saccharum</i>	sugar maple	10	Good	A
7767	<i>Prunus serotina</i>	black cherry	6	Good	A
7768	<i>Pyrus calleryana</i>	flowering pear	7	Fair	A
7769	<i>Celtis occidentalis</i>	hackberry	7	Fair	A
7770	<i>Celtis occidentalis</i>	hackberry	36	Poor	A*
7771	<i>Celtis occidentalis</i>	hackberry	7	Very Poor	A
7772	<i>Celtis occidentalis</i>	hackberry	7	Poor	A
7773	<i>Fraxinus americana</i>	white ash	9	Very Poor	A
7774	<i>Prunus serotina</i>	black cherry	9	Good	A
7775	<i>Ulmus americana</i>	American elm	16	Fair	A
7776	<i>Acer saccharinum</i>	silver maple	38	Poor	A
7777	<i>Prunus serotina</i>	black cherry	6	Good	A
7778	<i>Celtis occidentalis</i>	hackberry	35	Fair	A
7779	<i>Acer saccharinum</i>	silver maple	11	Fair	A
7780	<i>Juglans nigra</i>	black walnut	7	Good	A
7781	<i>Ulmus americana</i>	American elm	15	Very Poor	A
7782	<i>Ulmus americana</i>	American elm	8	Poor	A
7783	<i>Acer saccharinum</i>	silver maple	24	Very Poor	A
7784	<i>Acer saccharinum</i>	silver maple	9	Poor	A

* MULTI-STEM TREE

PLANT KEY



EXISTING TREE CONDITION AND STATUS KEY

CONDITION	STATUS
EXCELLENT	(A) PRESERVE
GOOD	
FAIR	
POOR	(B) REMOVE
DEAD	

NOTES FOR TREES REMOVED

1145 CALIPER INCHES OF TREES WHICH ARE TO BE REMOVED DUE TO THE POOR, DEAD, OR EXEMPT CONDITIONS.

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942** CALIPER INCHES/2.5 CALIPER INCHES = 377 TREES

**515 OF 942 ARE FLOWERING PEAR

NOTES FOR TREES PROVIDED ON SHEET L1.00

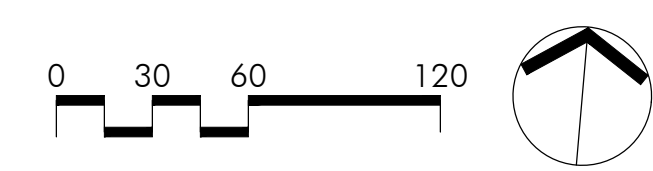
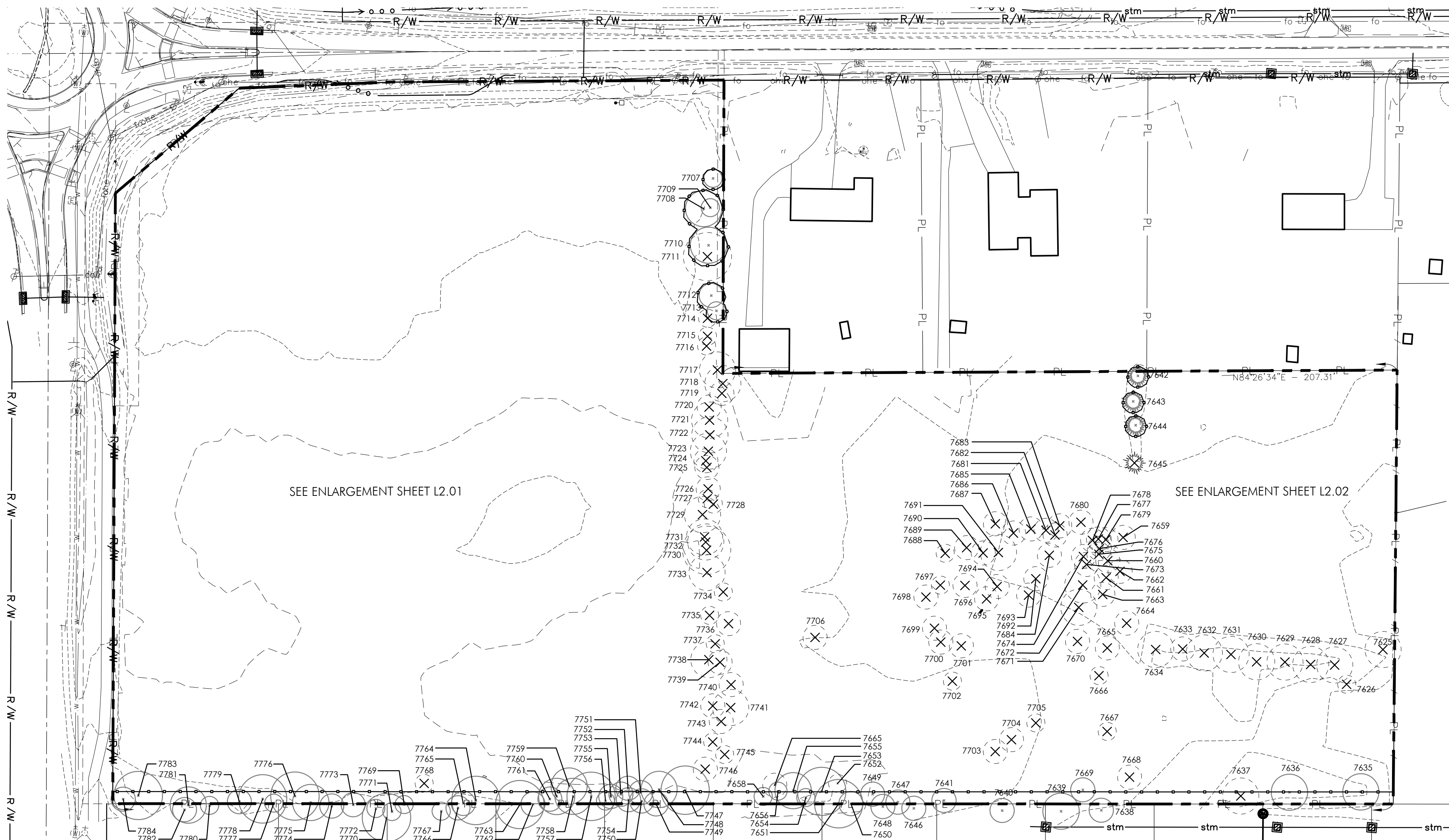
TOTAL REPLACEMENT TREES ON SITE
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Preliminary Tree Removal Plan
SCALE: 1" = 60'-0"



Columbus
100 Northwoods Blvd, Ste A
Columbus, Ohio 43235
p 614.255.3399

Cincinnati
20 Village Square, Floor 3
Cincinnati, Ohio 45246
p 614.360.3066

PODdesign.net

Project Name
Ayrshire Farms
Dublin, Ohio

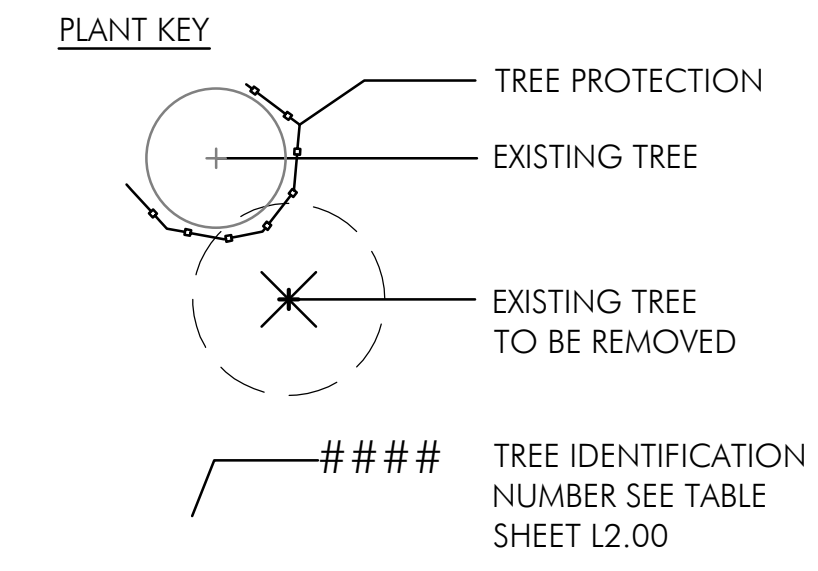
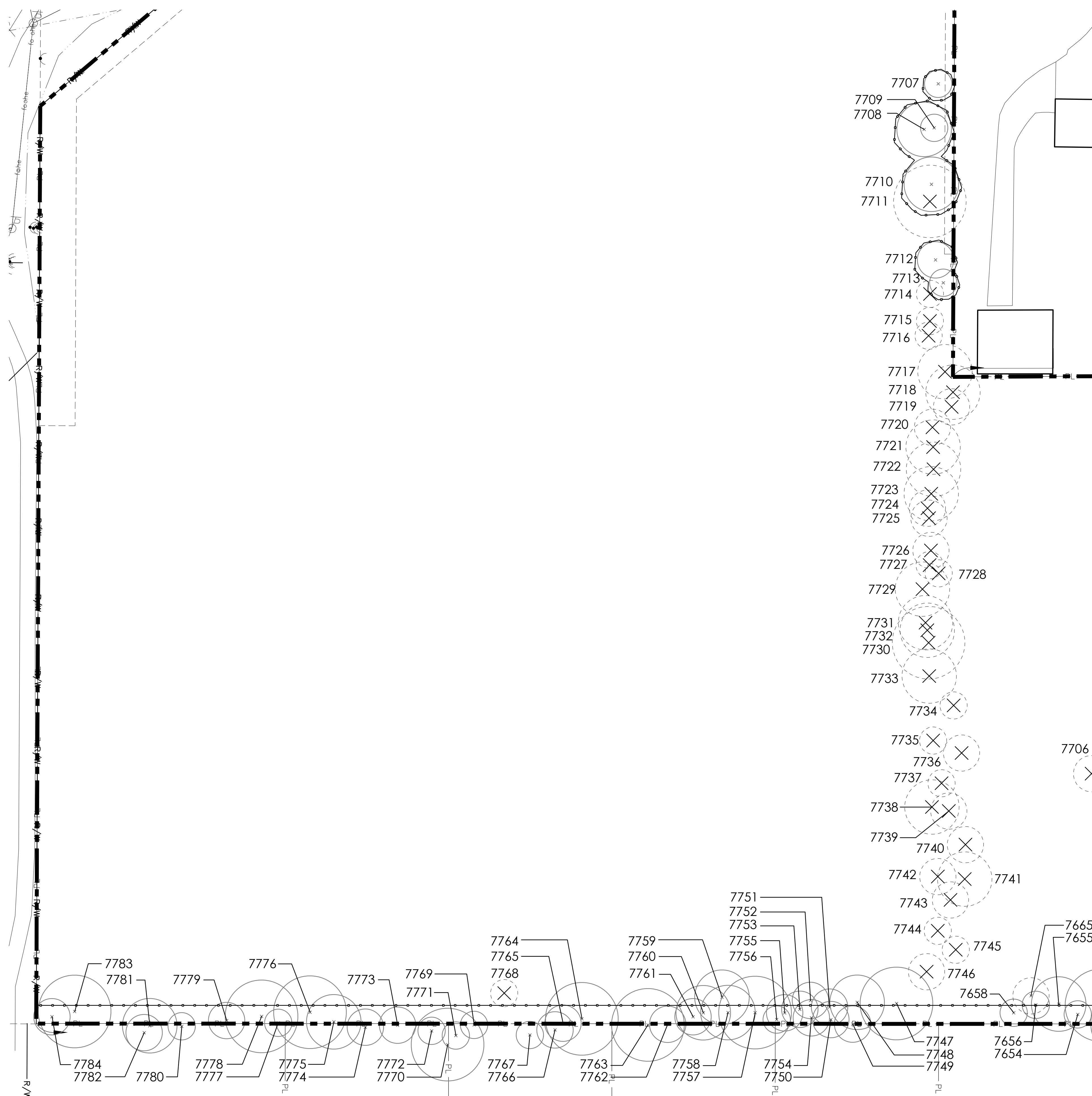
Prepared For
MC Shier Rings LLC
P.O. Box 3001
Dublin, OH 43016

Project Info
Project # 19053
Date 11/01/21
By GB/TF
Scale As Noted

Revisions

Sheet Title
TREE REMOVAL PLAN

Sheet #
L2.00



EXISTING TREE CONDITION AND STATUS KEY

CONDITION	STATUS
EXCELLENT	(A) PRESERVE
GOOD	
FAIR	
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DEAD	

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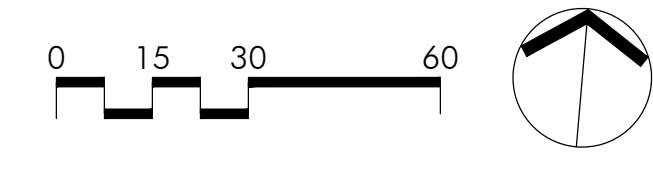
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Tree Removal Plan Enlargement
 SCALE: 1" = 30'-0"



Columbus
 100 Northwoods Blvd, Ste A
 Columbus, Ohio 43235
 p 614.255.3399

Cincinnati
 20 Village Square, Floor 3
 Cincinnati, Ohio 45246
 p 614.360.3066

PODdesign.net

Project Name
Ayrshire Farms
 Dublin, Ohio

Prepared For
 MC Shier Rings LLC
 P.O. Box 3001
 Dublin, OH 43016

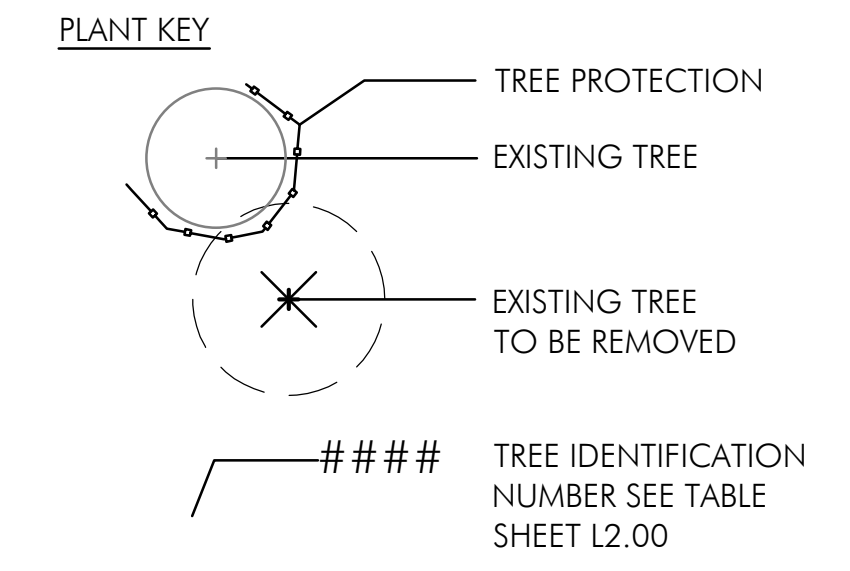
Project Info

Project # 19053
 Date 11/01/21
 By GB/TF
 Scale As Noted

Revisions

Sheet Title
TREE REMOVAL PLAN ENLARGEMENT

Sheet #
L2.01



EXISTING TREE CONDITION AND STAUUS KEY

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GOOD	
FAIR	
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DEAD	

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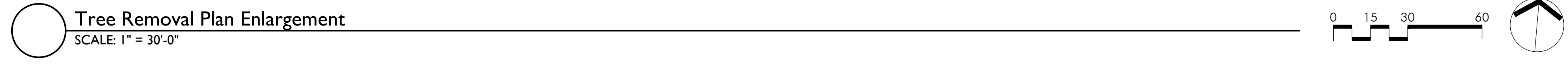
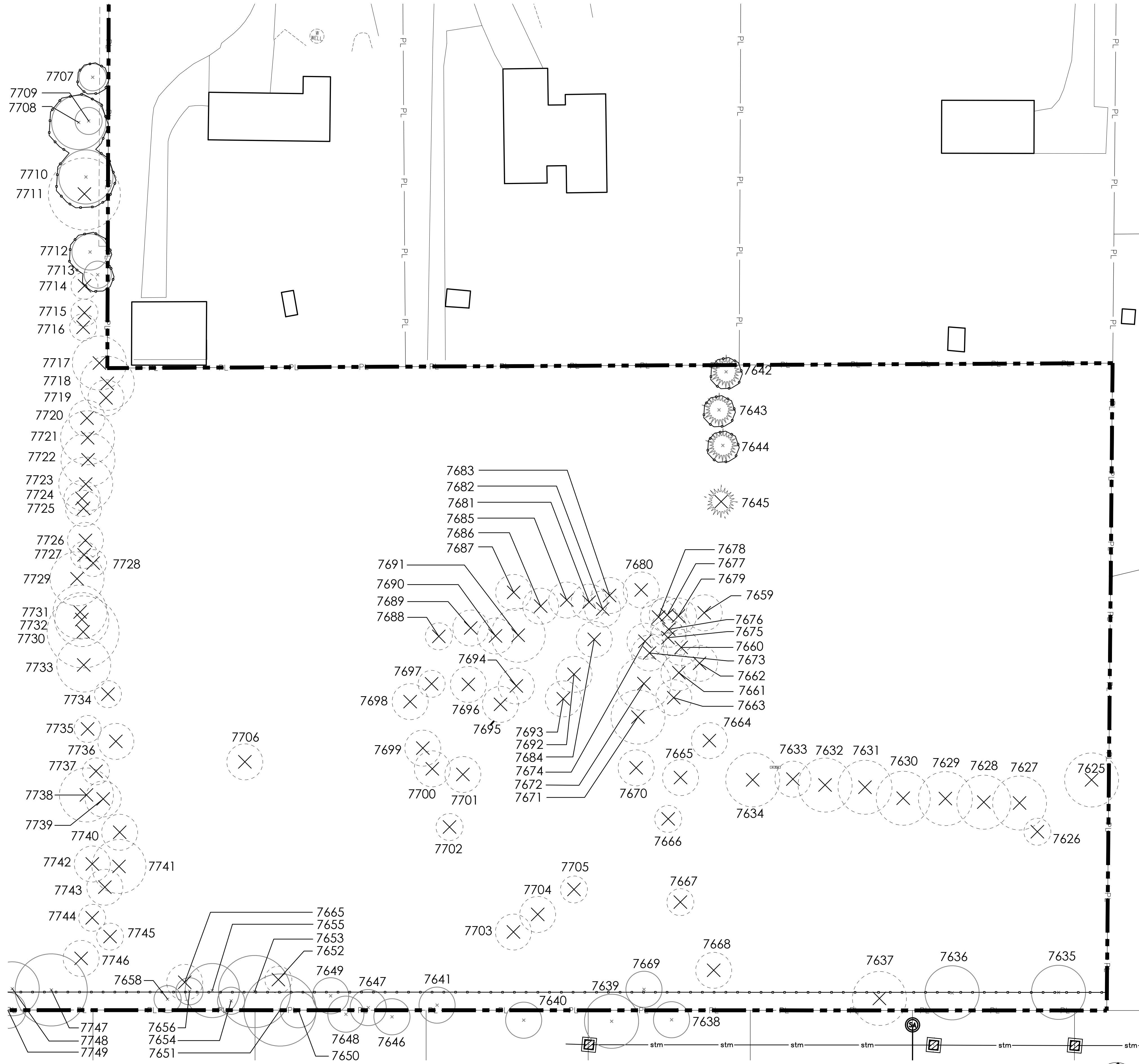
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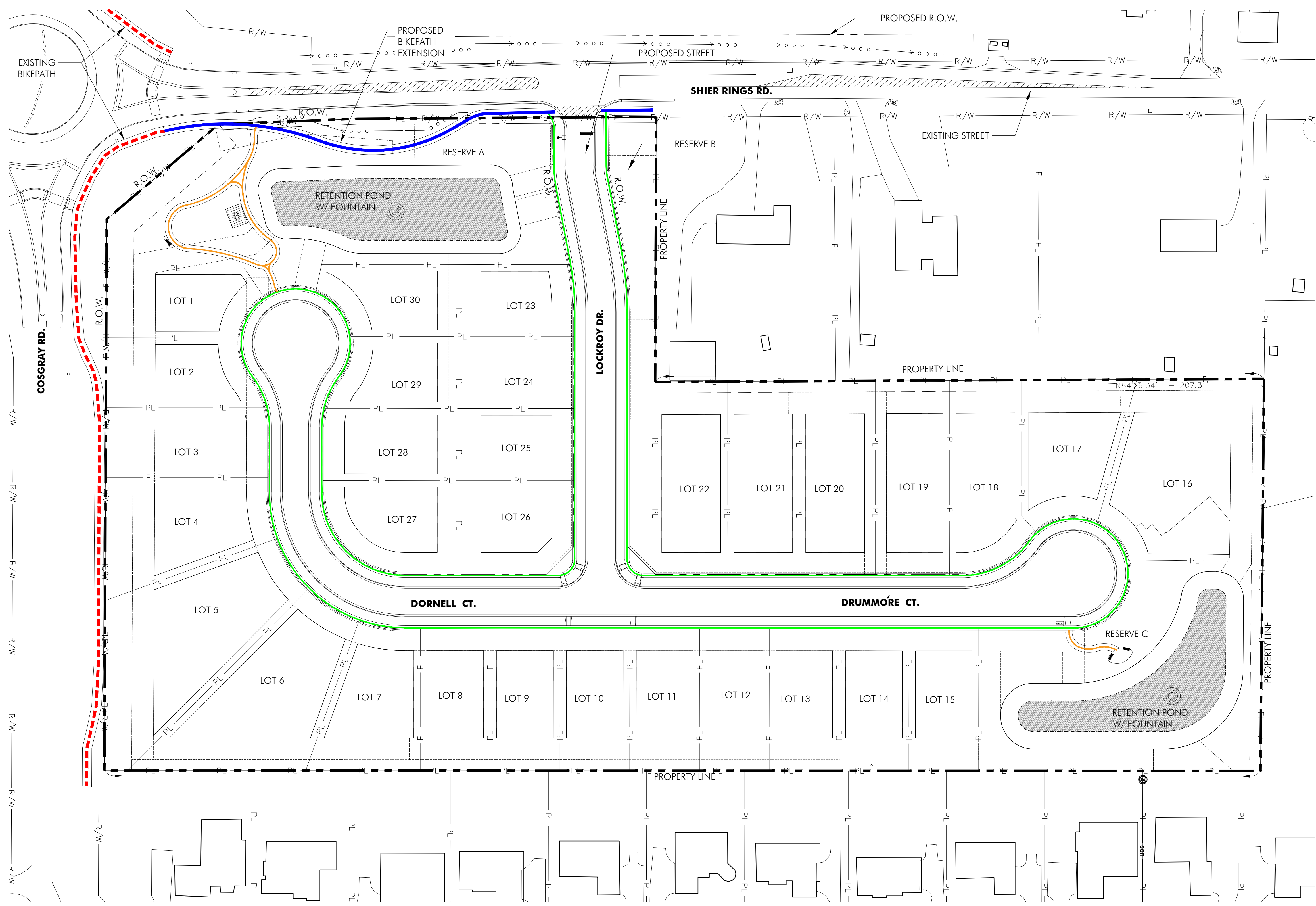
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LEGEND

- PROPOSED 4' CONCRETE WALK
- PROPOSED 8' SHARED-USE PATH
- - - EXISTING 8' SHARED-USE PATH
- PROPOSED 6' RESERVE A CONNECTOR & LOOP PATH



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PODdesign.net

Project Name

Ayrshire Farms

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Prepared For

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Project Info

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Revisions

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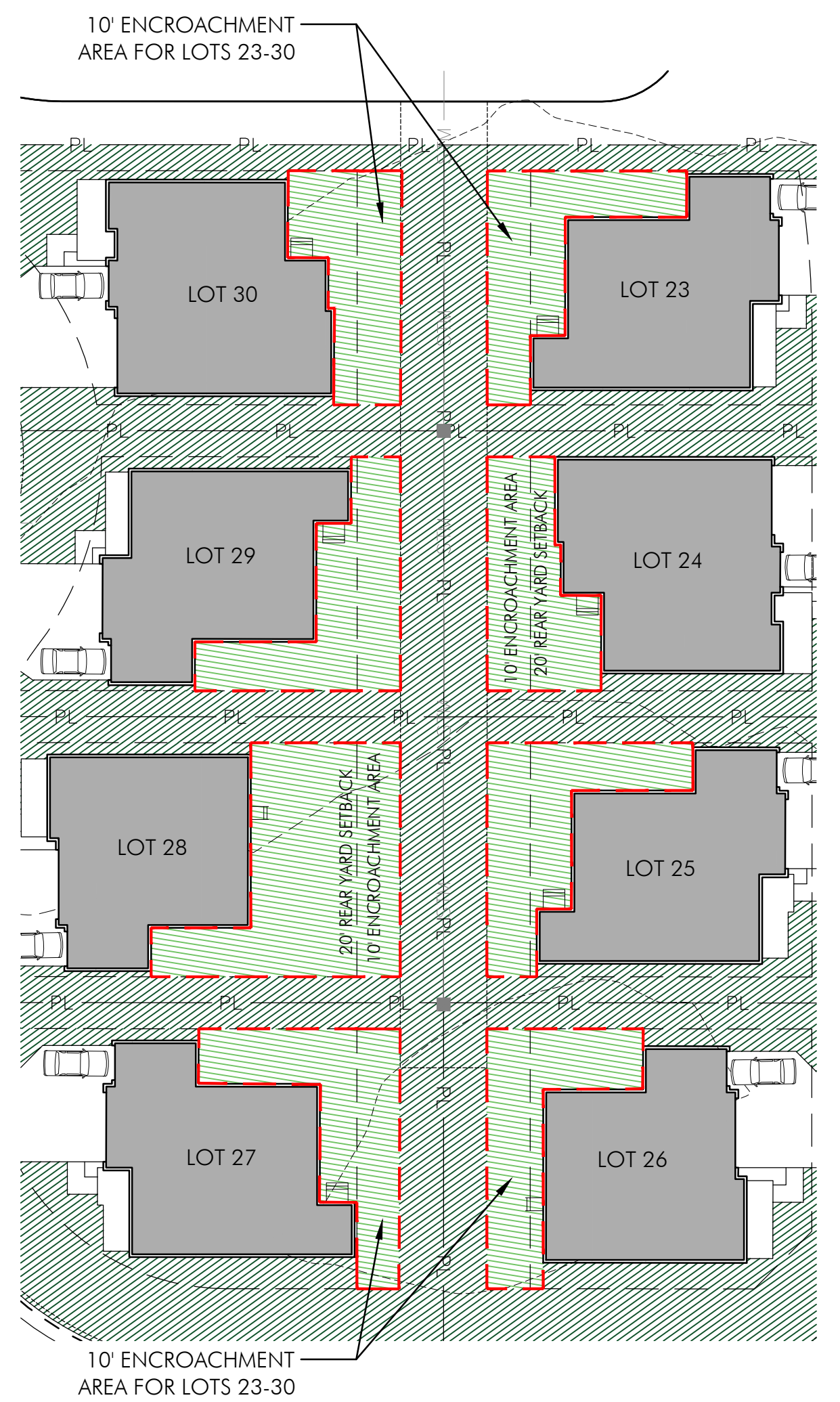
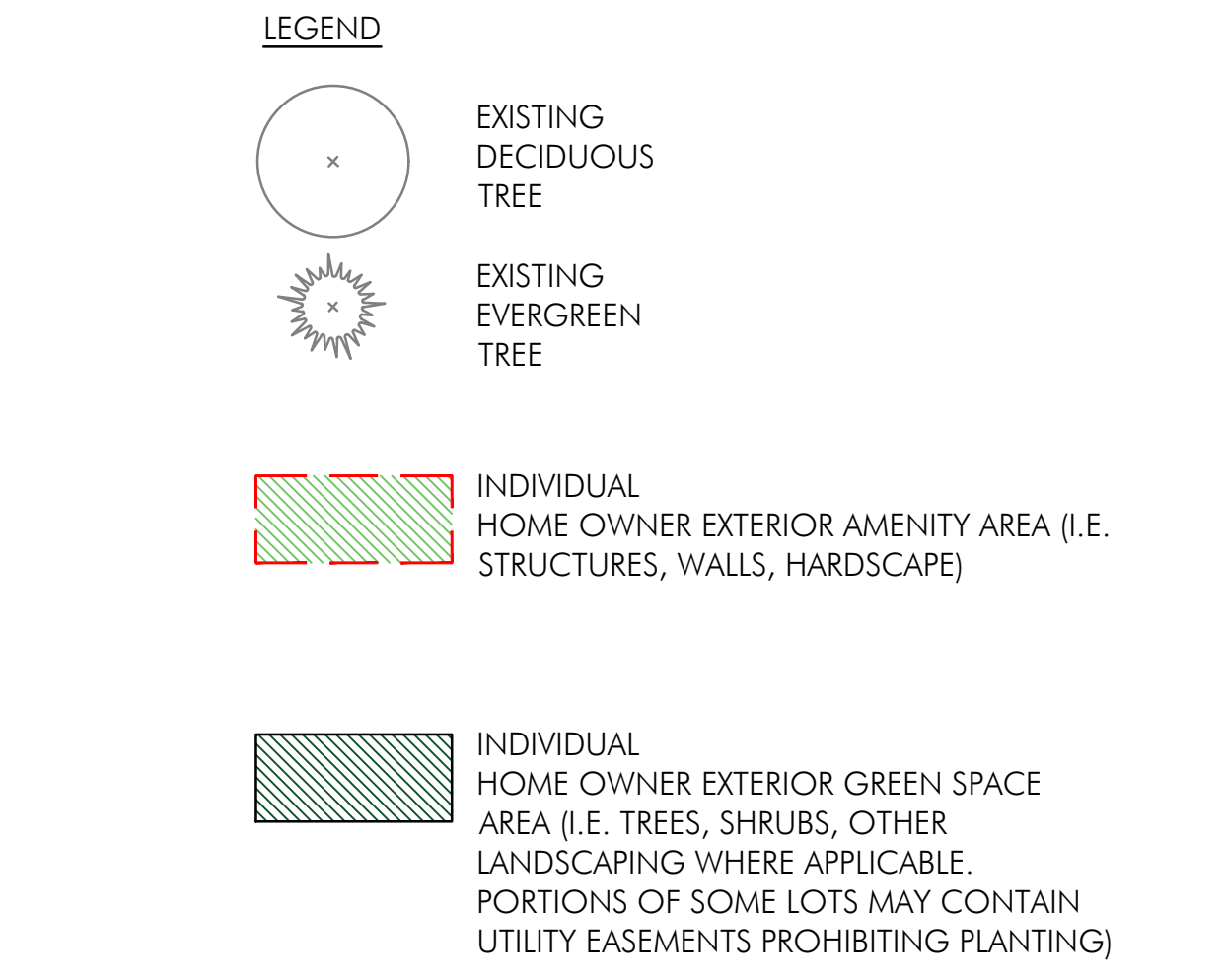
**Pedestrian
 Circulation
 Plan**

Sheet #

L3.00

Pedestrian Circulation Plan

SCALE: 1" = 50'-0"



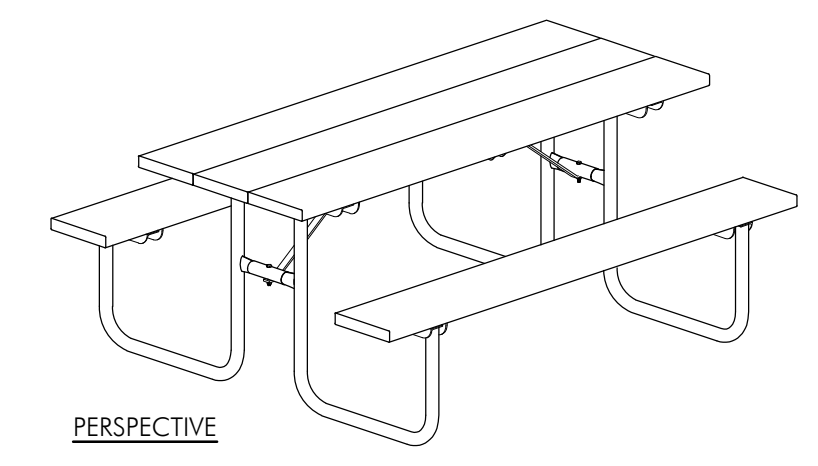
Conceptual Home Development Plan
SCALE: 1" = 50'-0"

Enlargement Plan
SCALE: 1" = 30'-0"

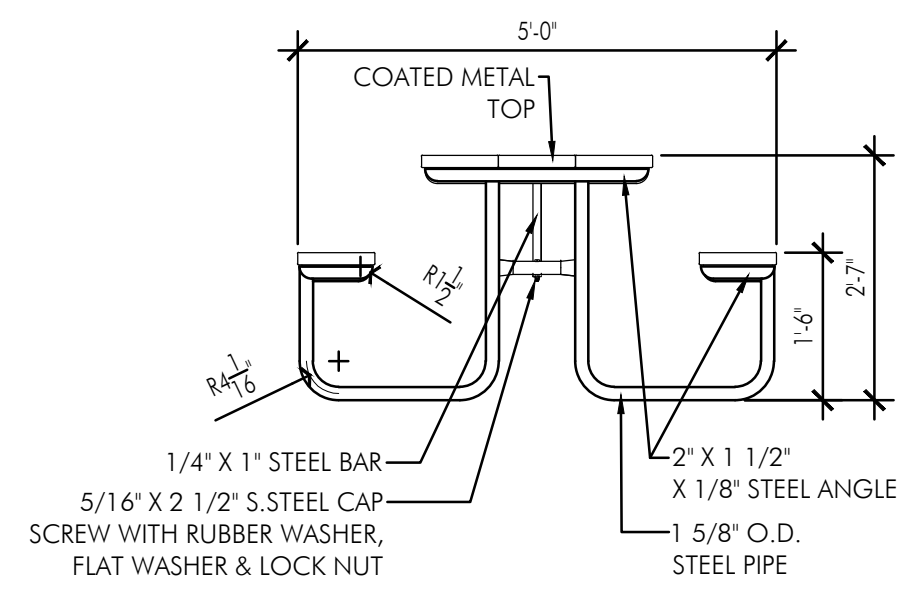
NOTE:
HOUSE FOOTPRINTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL HOUSE CONFIGURATION/PLACEMENT SHALL BE DETERMINED BY DEVELOPER AND IN CONFORMANCE WITH THE APPROVED DEVELOPMENT TEXT SET FORTH WITHIN THE PROJECT SUBMITTAL.

DuMor, Inc.
P.O. BOX 142
MIFFLINTOWN, PA 17058
P. 800.598.4018
DUMOR.COM
MODEL #: 71-60a

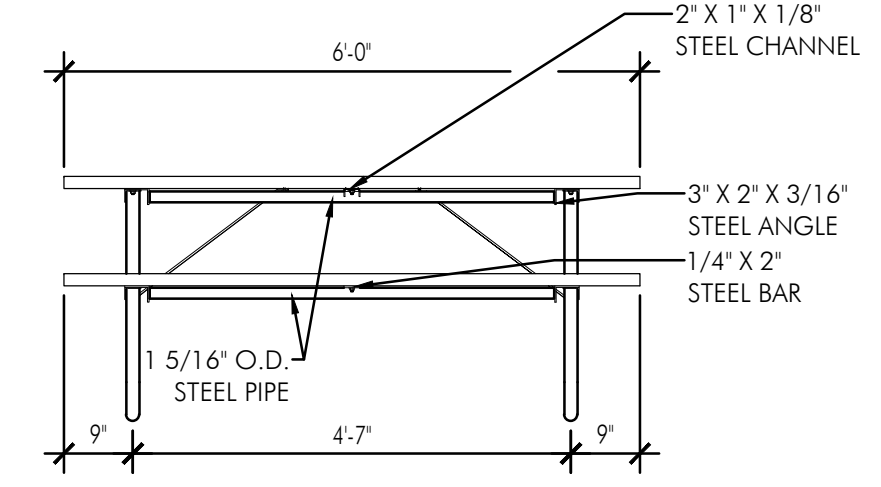
- NOTES:
- ALL STEEL MEMBERS COATED WITH ZINC RICH EPOXY THEN FINISHED WITH POLYESTER POWDER COATING
 - HOT DIP GALVANIZE AFTER FABRICATION
 - COATED PERFORATED METAL TOP & BENCH OPTION TO BE APPROVED BY OWNER REP OR LANDSCAPE ARCHITECT



PERSPECTIVE

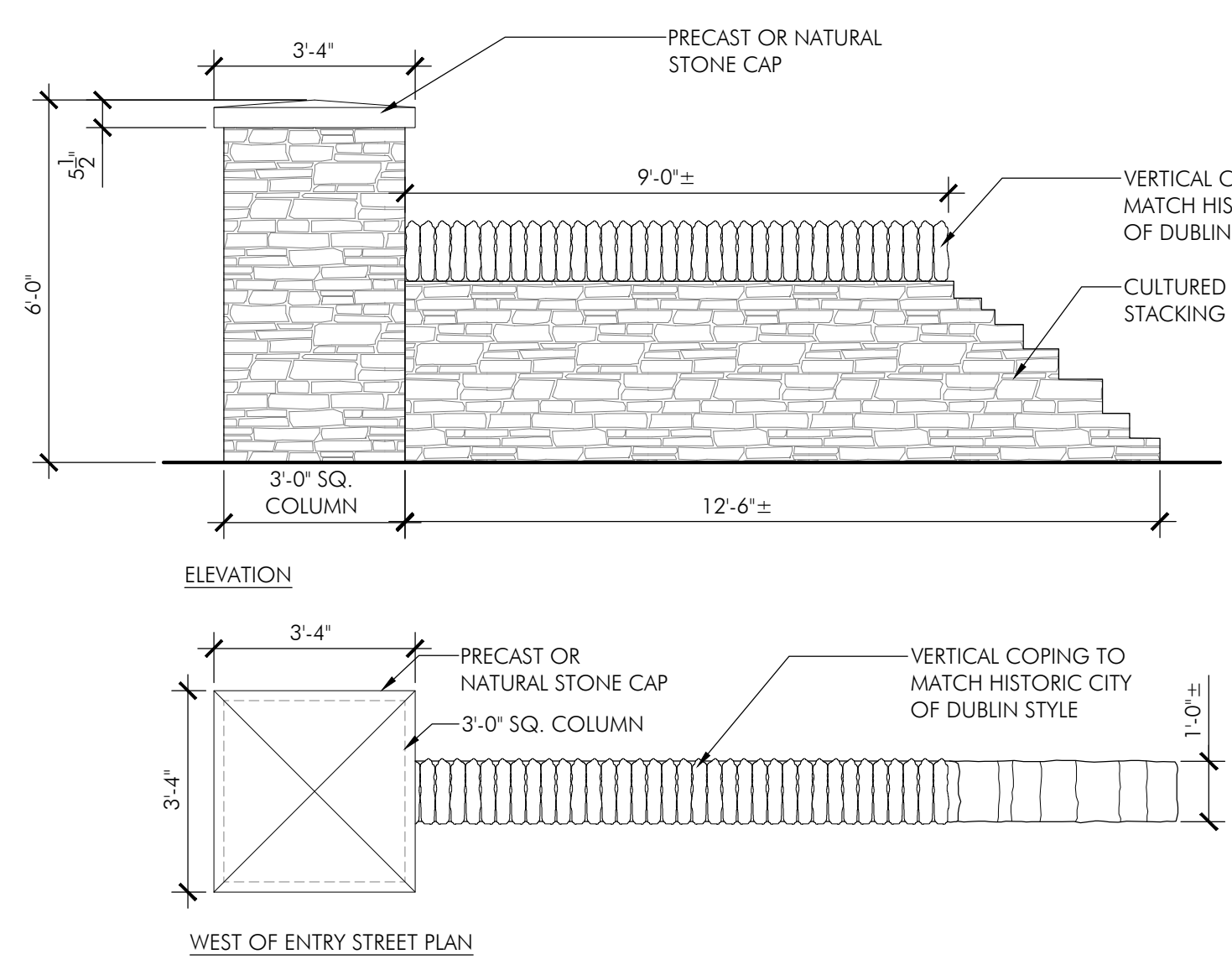
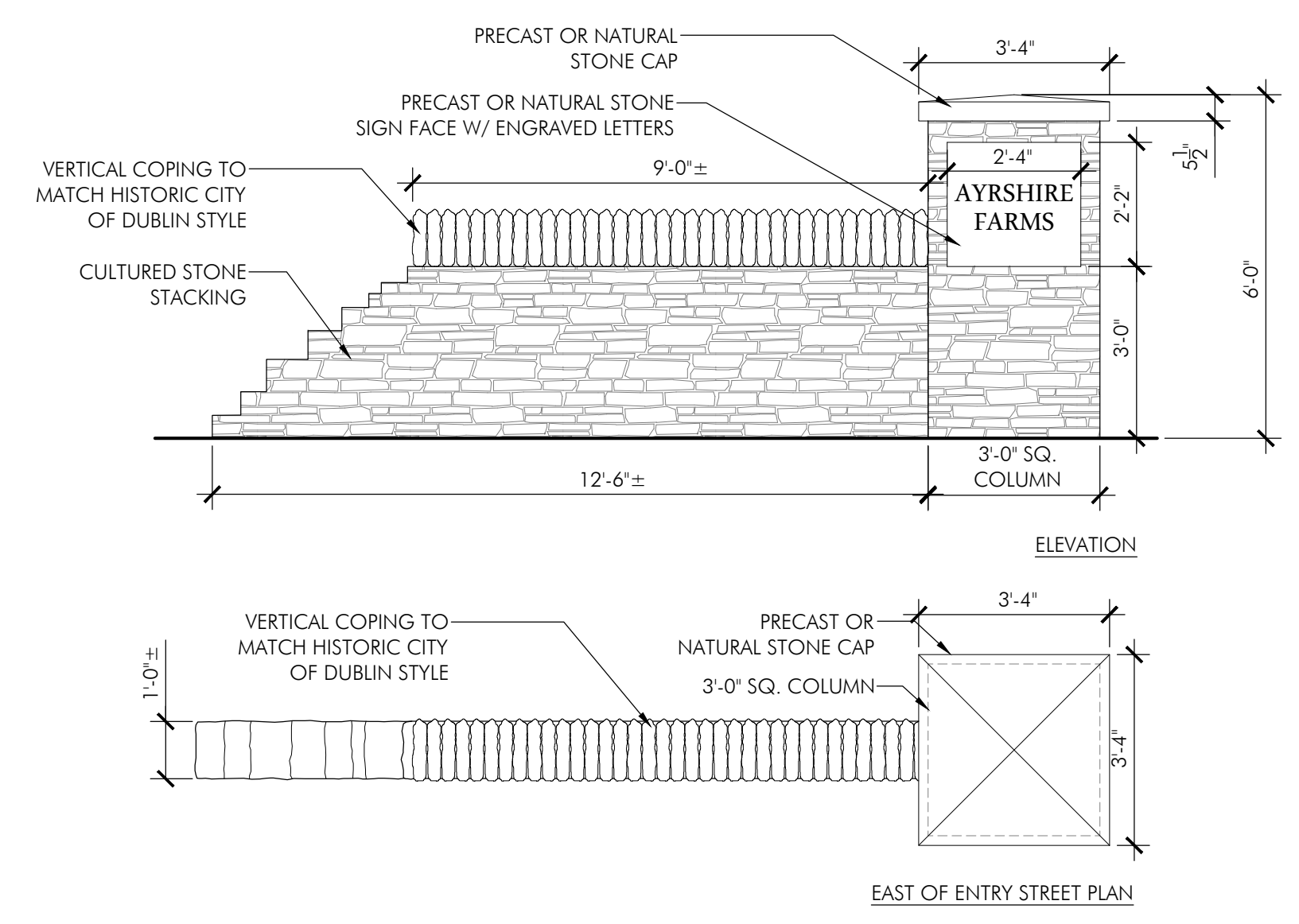


SECTION

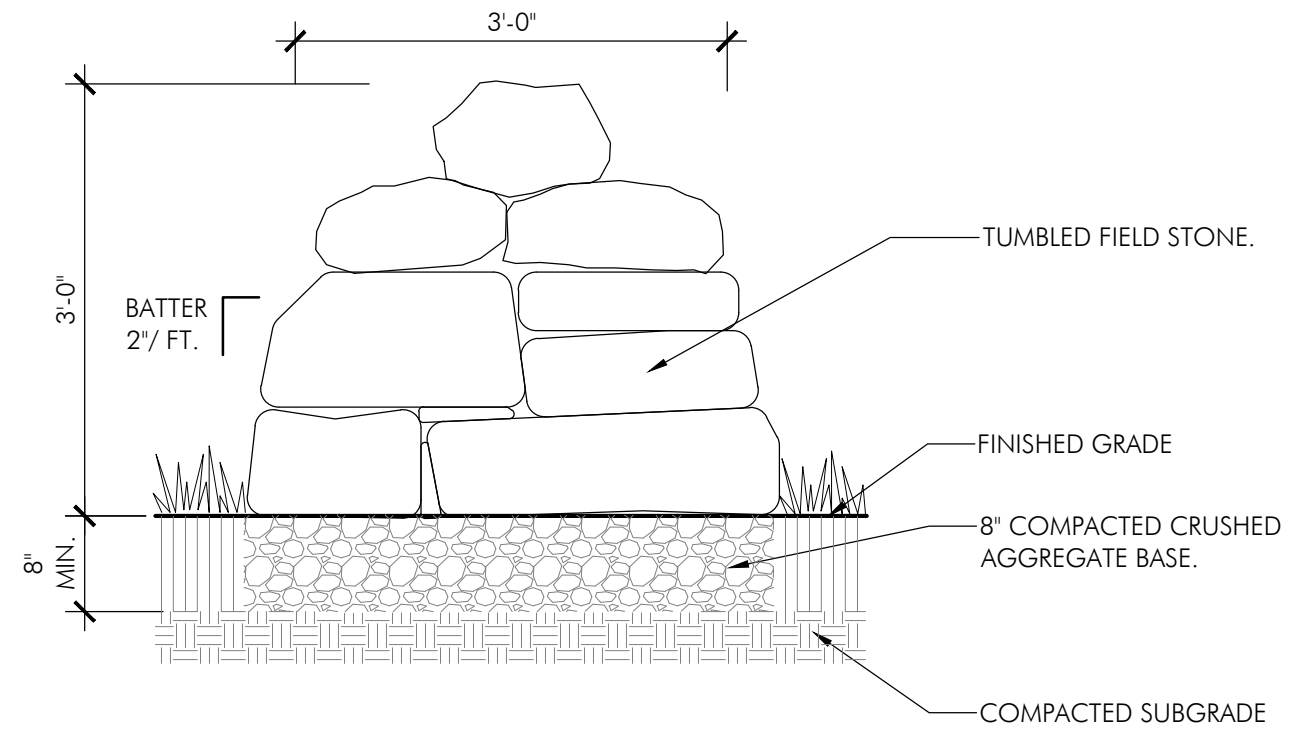


ELEVATION

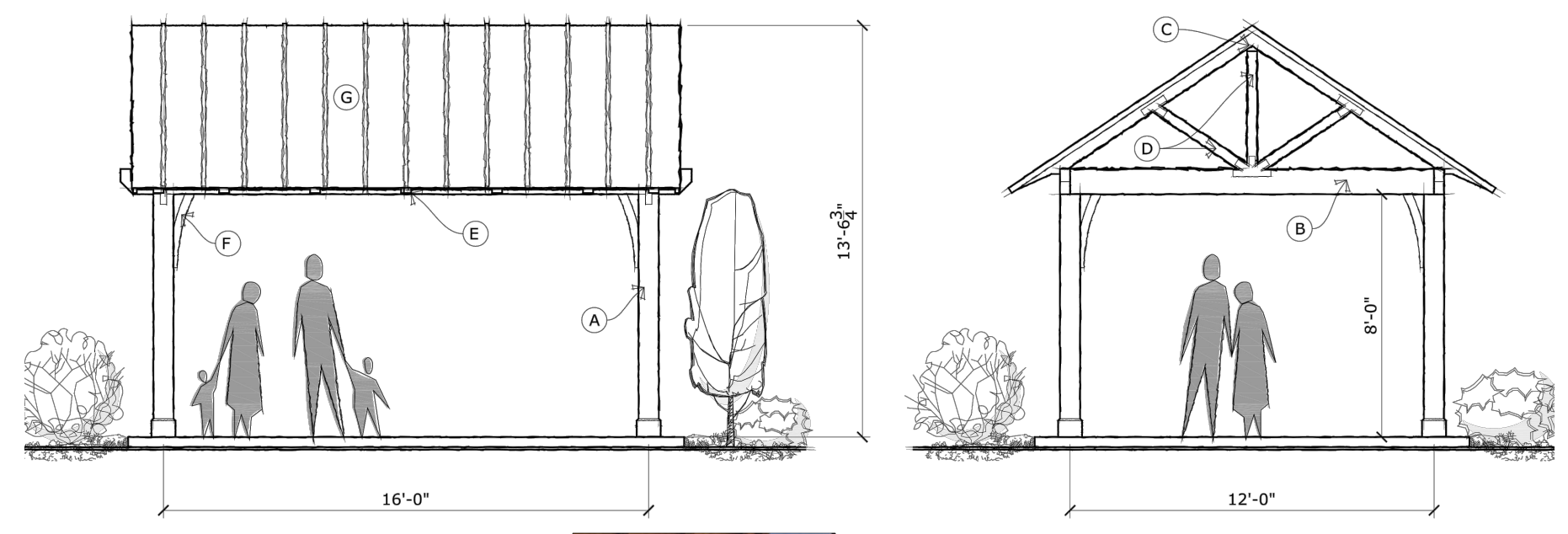
2 DuMor Picnic Table
1/2"=1'-0"



1 Entry Sign Wall
3/8"=1'-0"



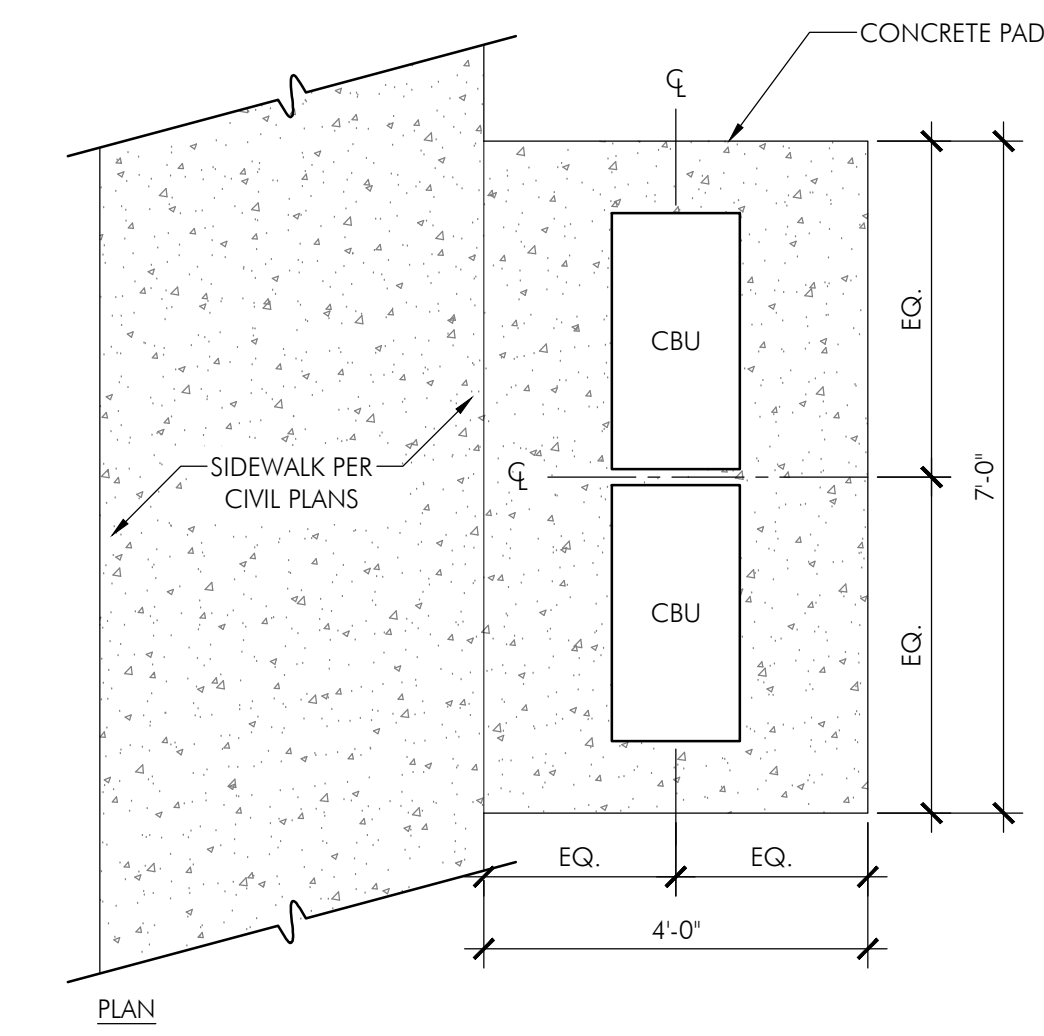
3 Tumbled Stone / Boulder Wall
3/4"=1'-0"



- CODED NOTES**
- A 8x8 CEDAR POST EMBEDDED INTO CONCRETE PIER
 - B 4x10 CEDAR BREAST BEAM
 - C 4x8 CEDAR RIDGE BEAM
 - D 4x6 CEDAR TIMBER DETAILS AT BOTH GABLE ENDS
 - E 4x6 CEDAR RAFTERS AT 36" O/C W/ EXPOSED RAFTER TAILS
 - F 4x6 DECORATIVE CEDAR BRACKETS
 - G STANDING SEAM METAL ROOF, COLOR: BLACK



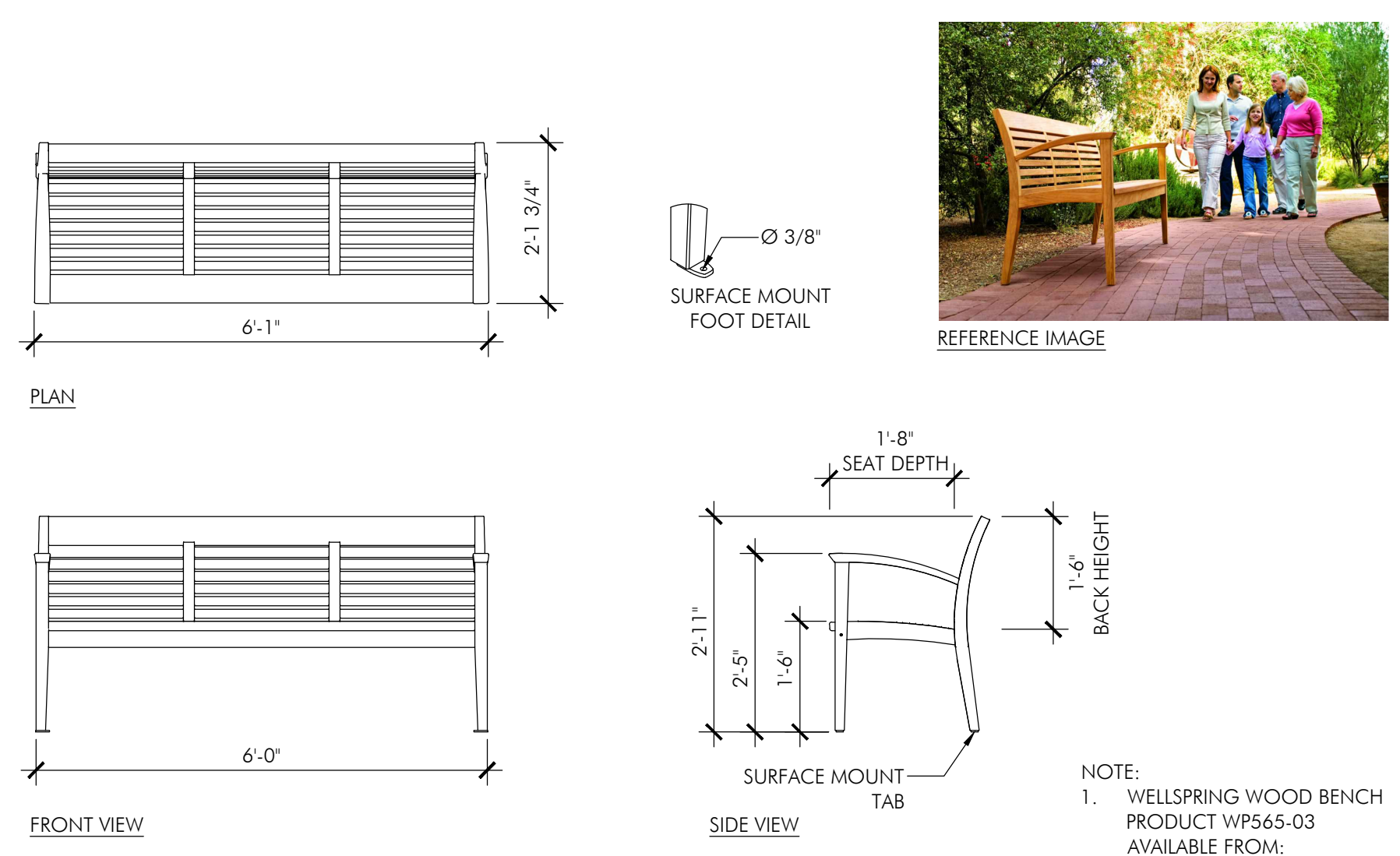
4 Neighborhood Pavilion
3/16"=1'-0"



5 Cluster Mailbox
1/2"=1'-0"



- NOTES:
- PRODUCT NUMBER: H1570-16AF-DT
COLOR: BLACK
NATIONAL MAILBOXES, INC.
WWW.NATIONALMAILBOXES.COM
800-676-5161
 - COORDINATE WITH USPS ON FINAL PRODUCT SPECIFICATIONS
 - CBU TO BE INSTALLED PER MANUFACTURER AND APPROVED USPS SPECIFICATIONS



6 Wellspring Bench
1/2"=1'-0"

High Output Solar Spot Light

Outdoor Solar Store
(800) 833-8129
sales@outdoorsolarstore.com

Light up your house, business, signs, trees or pretty much any feature with this super high-output solar spot light. This is by far the brightest solar spot light we have tested. Included is a 1/2" Heavy Duty PVC stake to secure the light into the ground.

Our optional wall mount allows you to mount this light on the side of any building, overhang, or deck.

This unit is 100% wireless and easy to install. Simply stick it into the ground in an area of your yard that receives sufficient daytime sunlight, point it where you want and you're done!

- Brightness: 125 Lumens
- Color: 5700K Cool White
- Operating Time: 8-10 Hours
- Measurements: Height: 10" X 8"
- 1X Light
- 1X Solar Panel
- 1X Yard Stake
- 1 Year Manufacturer Warranty

SIGN UPLIGHT

WVR9007EK
Westover Outdoor Lantern
Earth Black

QUOIZEL LIGHTING

DETAILS
Material: Steel
Glass/Shade Description: Clear Beveled Glass

LAMPING
Light Source: LED
Bulb Included: No
Bulb Type: Medium Base
Bulb Quantity: 1
Watts per Bulb: 23w eq 150

ELECTRICAL
Dimmable: Yes
Voltage: 120v
Wire Length: 0.5'

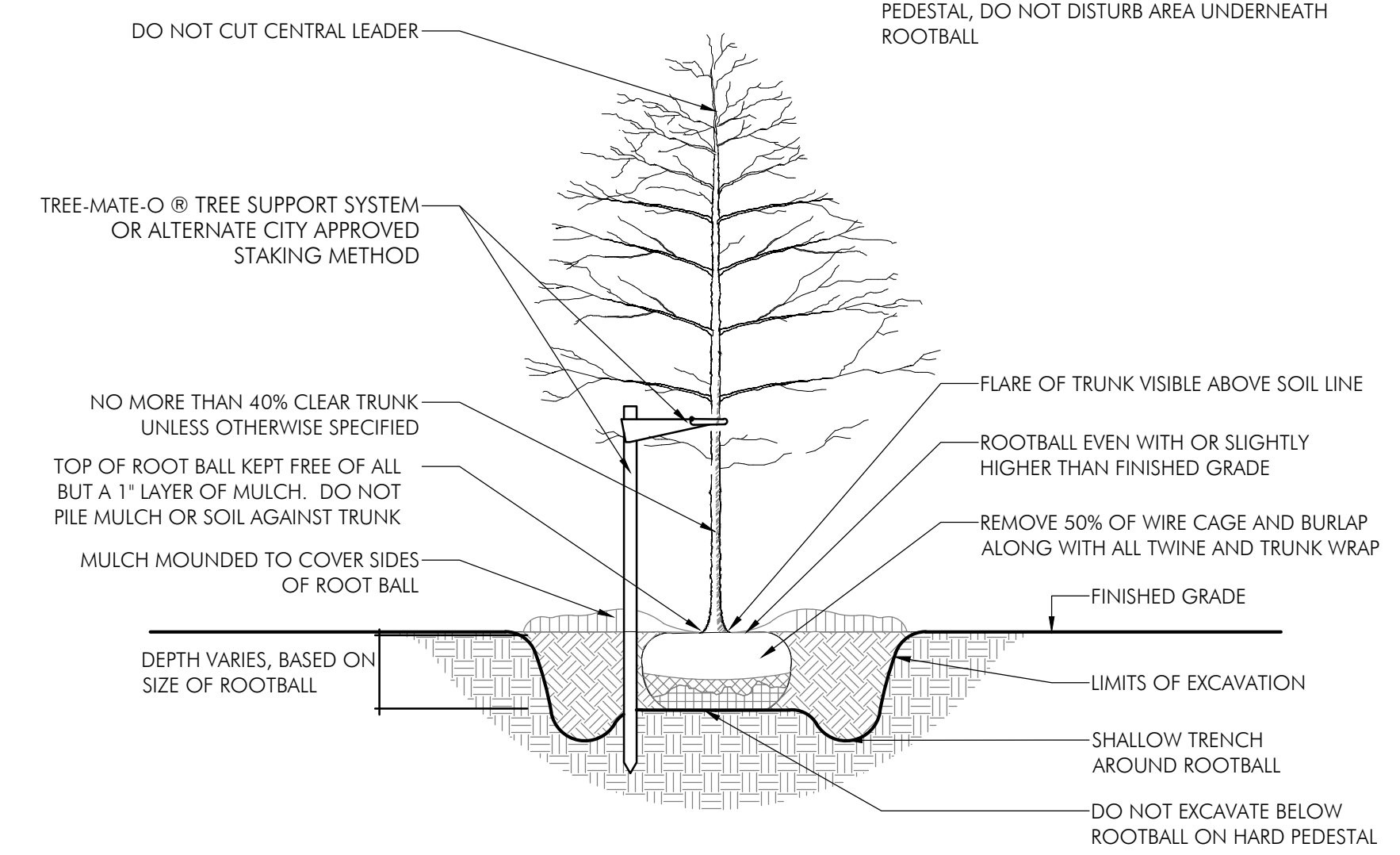
INSTALLATION
Location Rating: Wet
Sloped Ceiling Compatible: No

DIMENSIONS
Dimensions: 7.00" W x 20.50" H x 7.00" D
Weight: 6.69 lbs

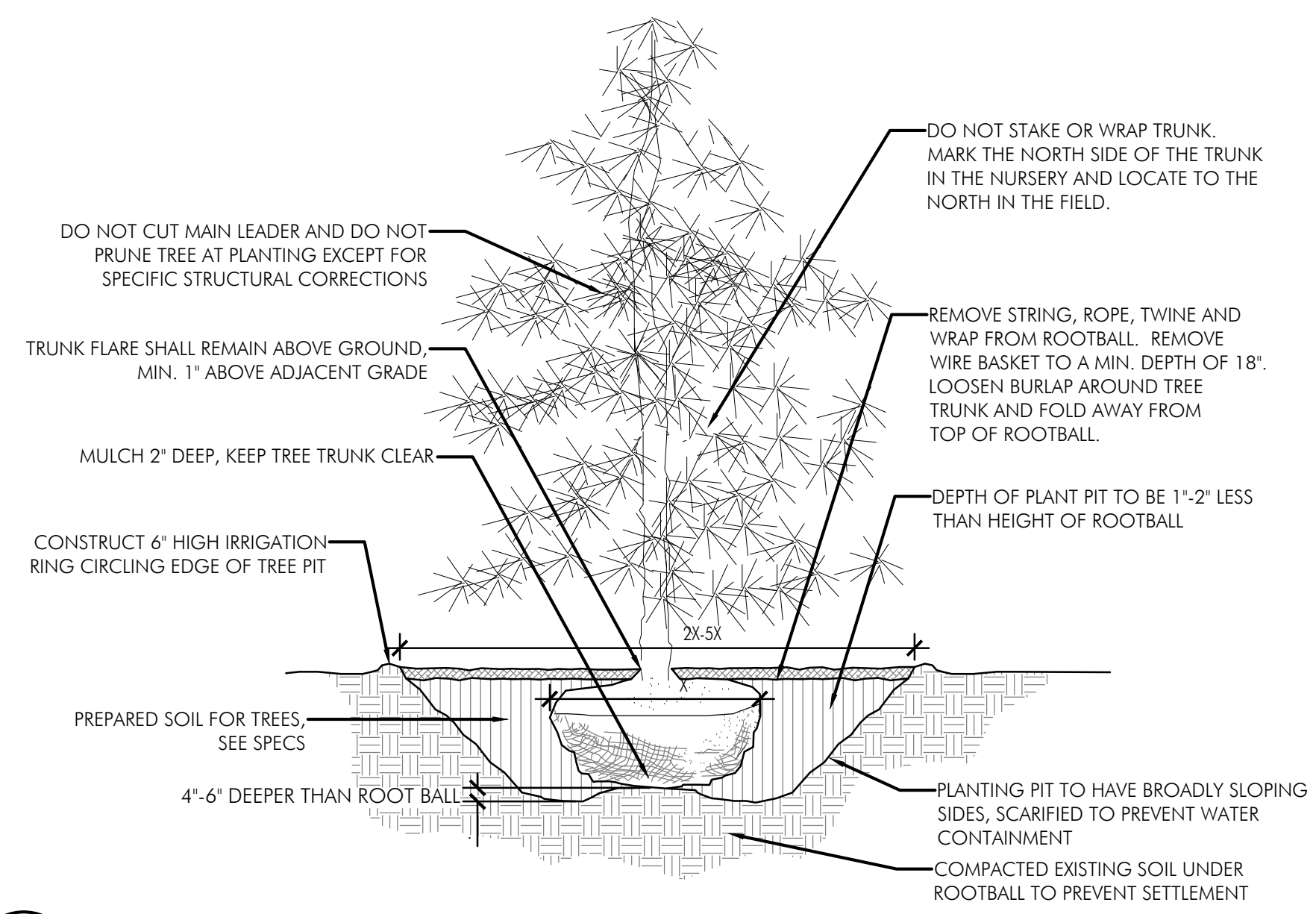
INDIVIDUAL HOME POST LIGHT

LIGHTING NOTE:
FIXTURES SHOWN ARE FOR THE BASIS OF DESIGN INTENT. MASTER DEVELOPER MAY SUBSTITUTE LIGHT FIXTURES BASED ON AVAILABILITY & APPROVAL BY CITY AS MEETING DESIGN INTENT

NOTES:
1. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL. DO NOT DISTURB AREA UNDERNEATH ROOTBALL



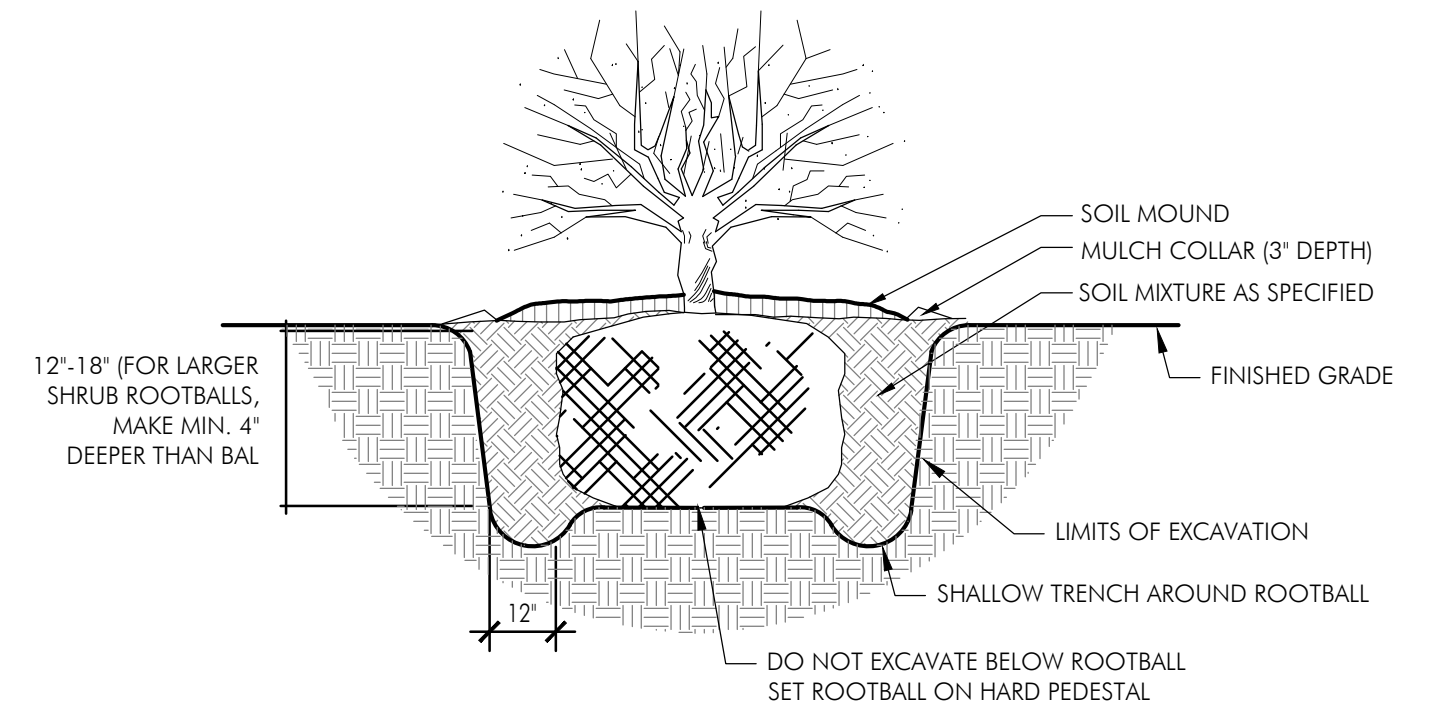
1 Deciduous Tree Planting
N.T.S.



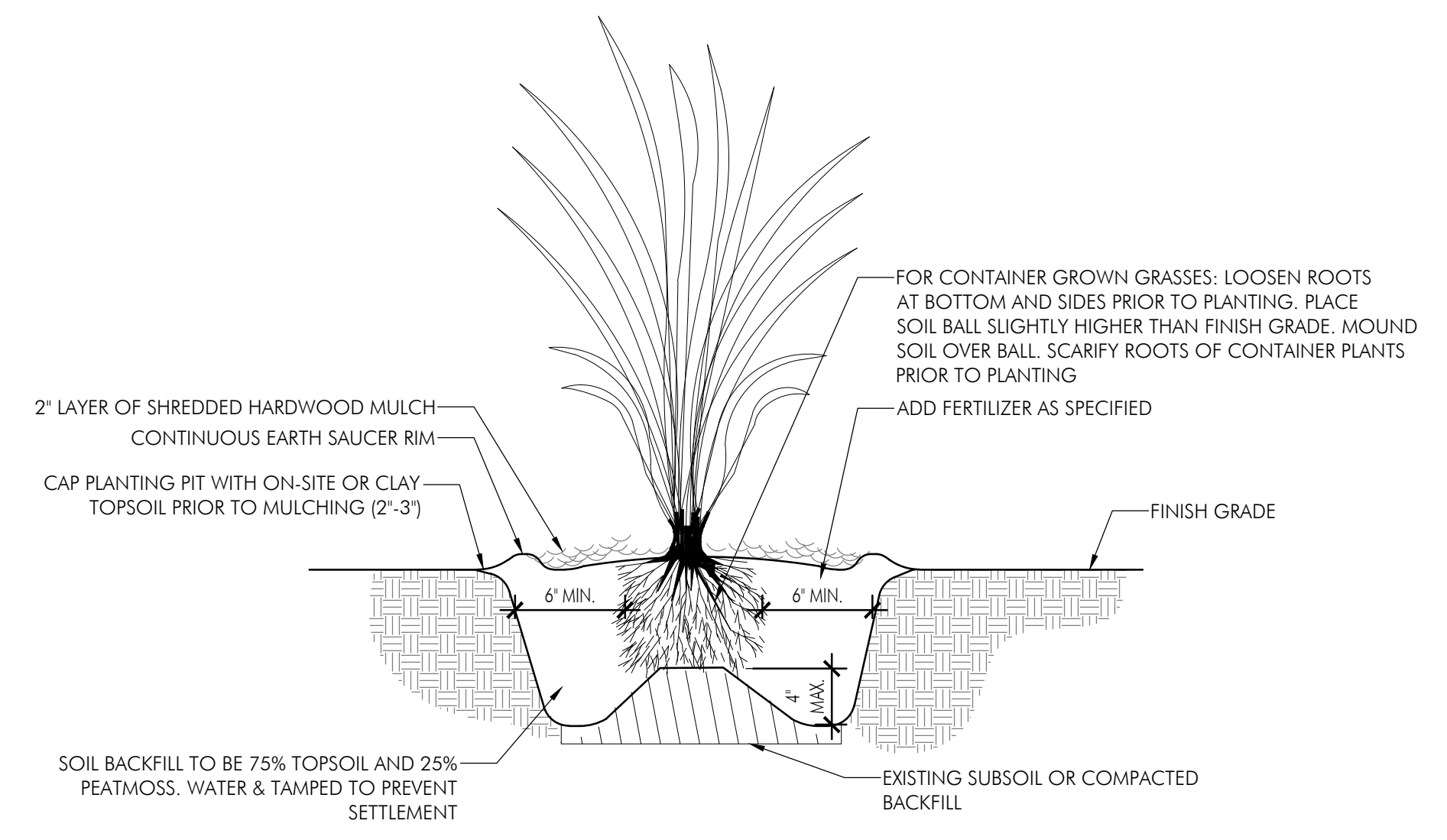
2 Evergreen Tree Planting
1"=1'-0"

THE AMOUNT OF PRUNING SHALL BE LIMITED TO 1/3 OF THE BRANCHES TO COMPENSATE FOR LOSS OF ROOTS FROM TRANSPLANTING. REMOVE DEAD AND INJURED LIMBS. REMOVE BURLAP AND WIRE OR TWINE FROM TOP AND SIDES OF BALL. CENTER SHRUB IN HOLE. SET TOP OF BALL 1-3" ABOVE FINISH GRADE.

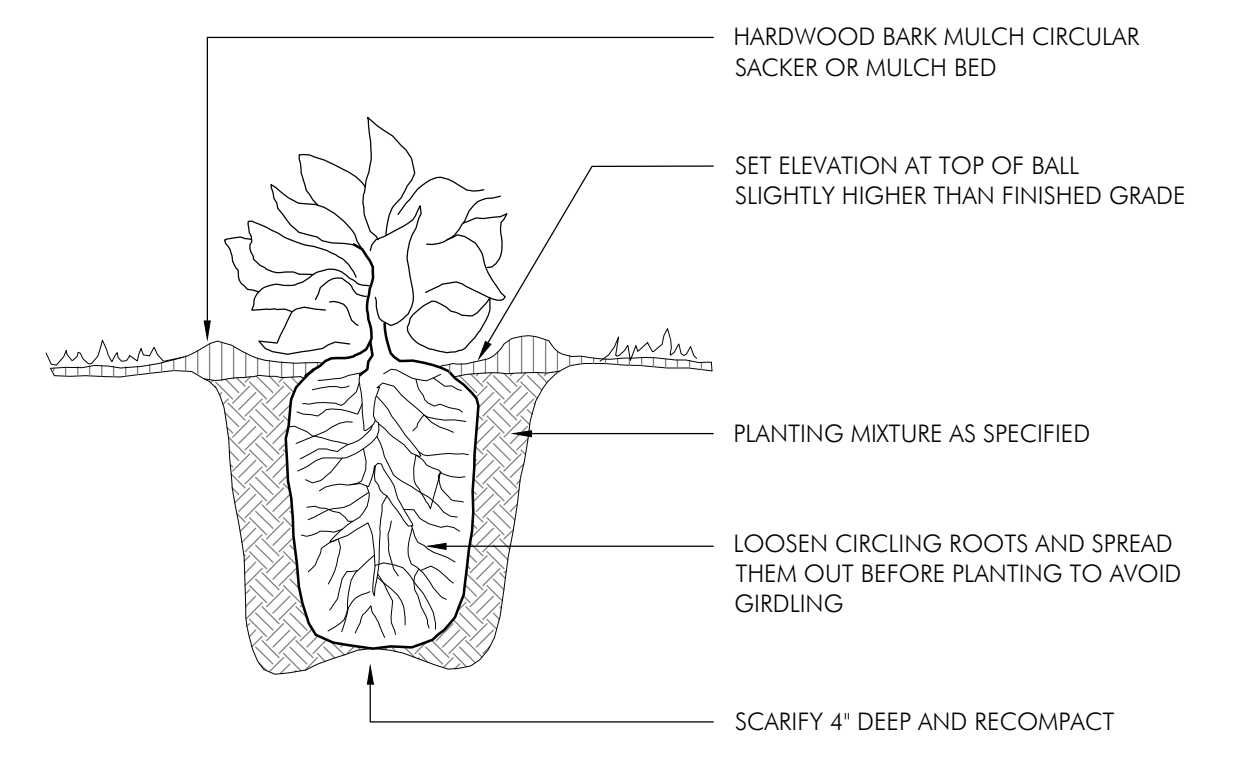
NOTES:
1. DO NOT PRUNE SHRUBS DURING INSTALLATION
2. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL. DO NOT DISTURB AREA UNDERNEATH ROOTBALL



3 Shrub Planting
N.T.S.



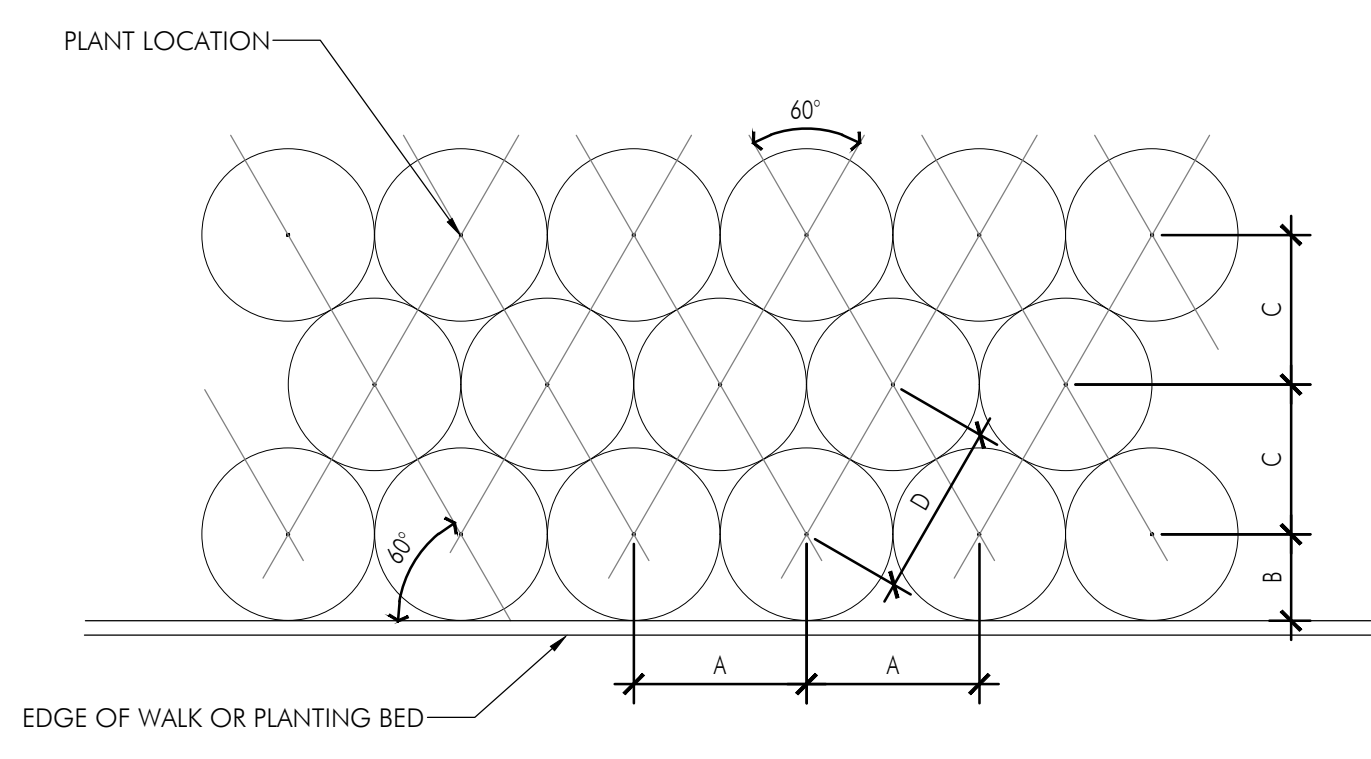
4 Ornamental Grass Planting
1 1/2"=1'-0"



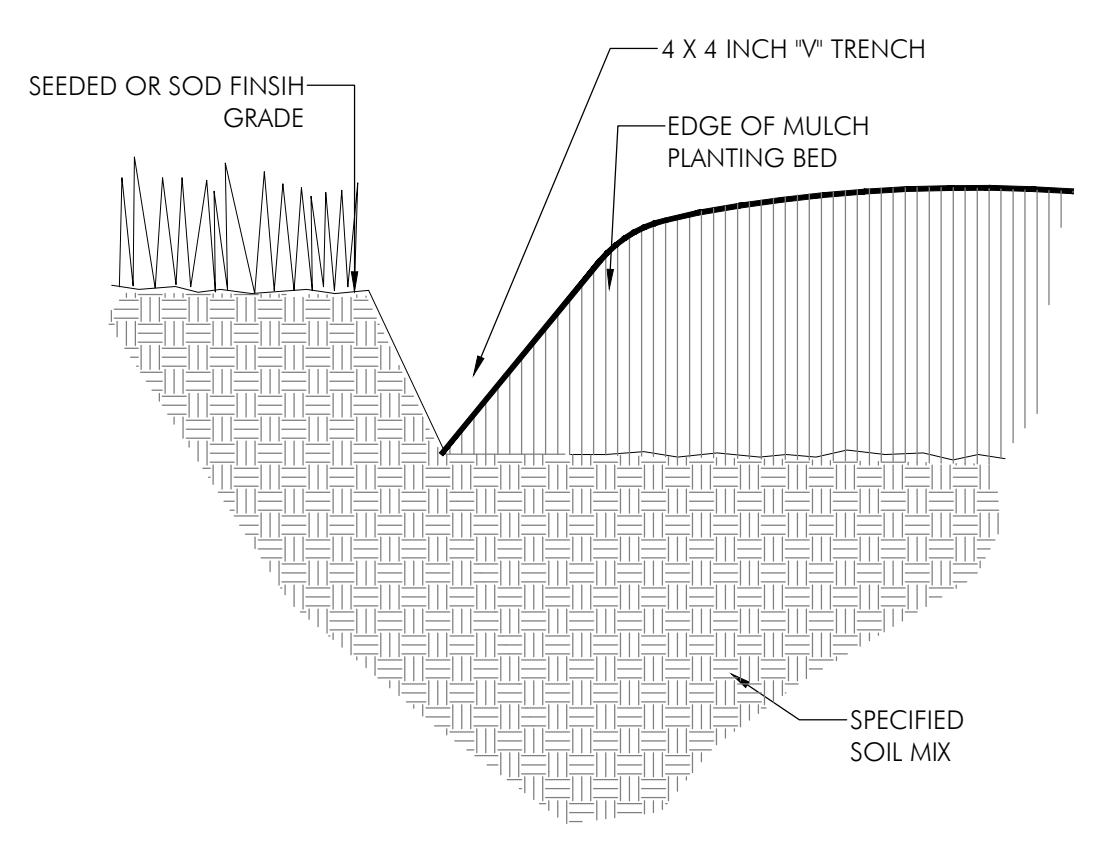
5 Perennial Planting
N.T.S.

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

A= SPACING
B= SP/2
C= SP/1.2
D= SPACING



6 Typical Plant Spacing
N.T.S.



7 Mulch Edge
N.T.S.



Front Elevation

The Bristol I



Front Elevation

The Bristol II



Rear Elevation

The Bristol I



Rear Elevation

The Bristol II

NOTE:

**ARCHITECTURAL ELEVATIONS ARE CONCEPTUAL ONLY.
FINAL BUILDING ELEVATIONS WILL BE SUPPLIED AS PART
OF INDIVIDUAL HOME OWNER BUILDING PERMIT PROCESS**



Front Elevation

The Aberdeen



Front Elevation

The Carrick



Front Elevation

The Redding



Rear Elevation

The Aberdeen



Rear Elevation

The Carrick



Rear Elevation

The Redding

NOTE:

**ARCHITECTURAL
ELEVATIONS ARE
CONCEPTUAL ONLY.
FINAL BUILDING
ELEVATIONS WILL BE
SUPPLIED AS PART OF
INDIVIDUAL HOME
OWNER BUILDING
PERMIT PROCESS**



Front Elevation **The Aberdeen** 64%



Front Elevation **The Bristol I** 60%



Front Elevation **The Carrick** 58.6%



Front Elevation **The Bristol II** 60%



Front Elevation **The Redding** 60%

BUILDING TYPE	CALCULATION INCLUDING GARAGE DOORS, DIVIDER WALL & OUTSIDE WALLS	CALCULATION OF GARAGE DOOR OPENING (AS DEFINED IN SECTION 153.190 (E)(f)(4)(c))
ABERDEEN	64.0%	48.0%
BRISTOL I	60.0%	48.0%
BRISTOL II	60.0%	48.0%
CARRICK	58.6%	48.0%
REDDING	60.0%	48.0%

NOTE:
ARCHITECTURAL ELEVATIONS ARE CONCEPTUAL ONLY. FINAL BUILDING ELEVATIONS WILL BE SUPPLIED AS PART OF INDIVIDUAL HOME OWNER BUILDING PERMIT PROCESS

SHEET INDEX

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EXISTING CONDITIONS SURVEY	S001
DEMOLITION PLAN	C100
STAKING PLAN	C200
PLAN & PROFILE	C300-C302
INTERSECTION DETAILS	C400-C401
STORM SEWER PROFILES	C501-C503
MASTER GRADING PLAN	C600
DETAILED GRADING PLAN	C601
BASIN DETAILS	C700
EROSION & SEDIMENT CONTROL PLAN	C800
EROSION & SEDIMENT CONTROL NOTES	C801
EROSION & SEDIMENT CONTROL DETAILS	C802

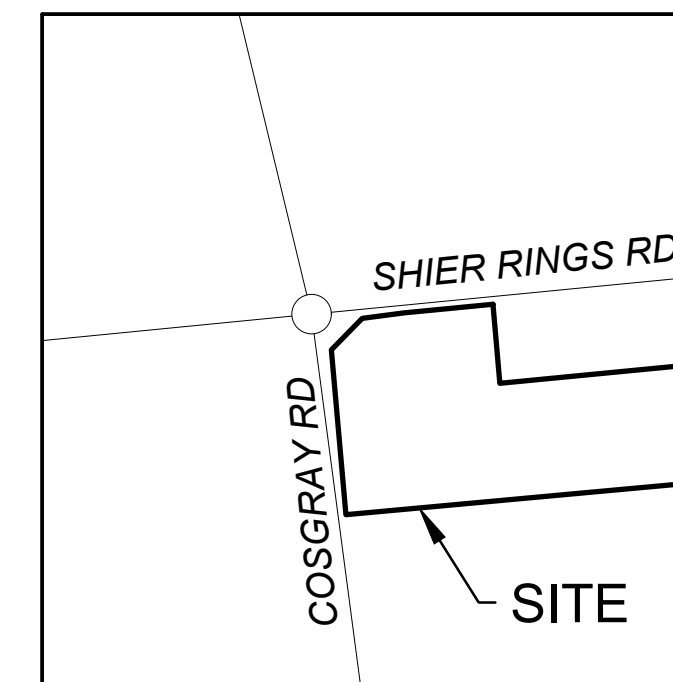
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

AYRSHIRE FARMS

SHIER RINGS ROAD

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

2021



UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

STANDARD CONSTRUCTION DRAWINGS

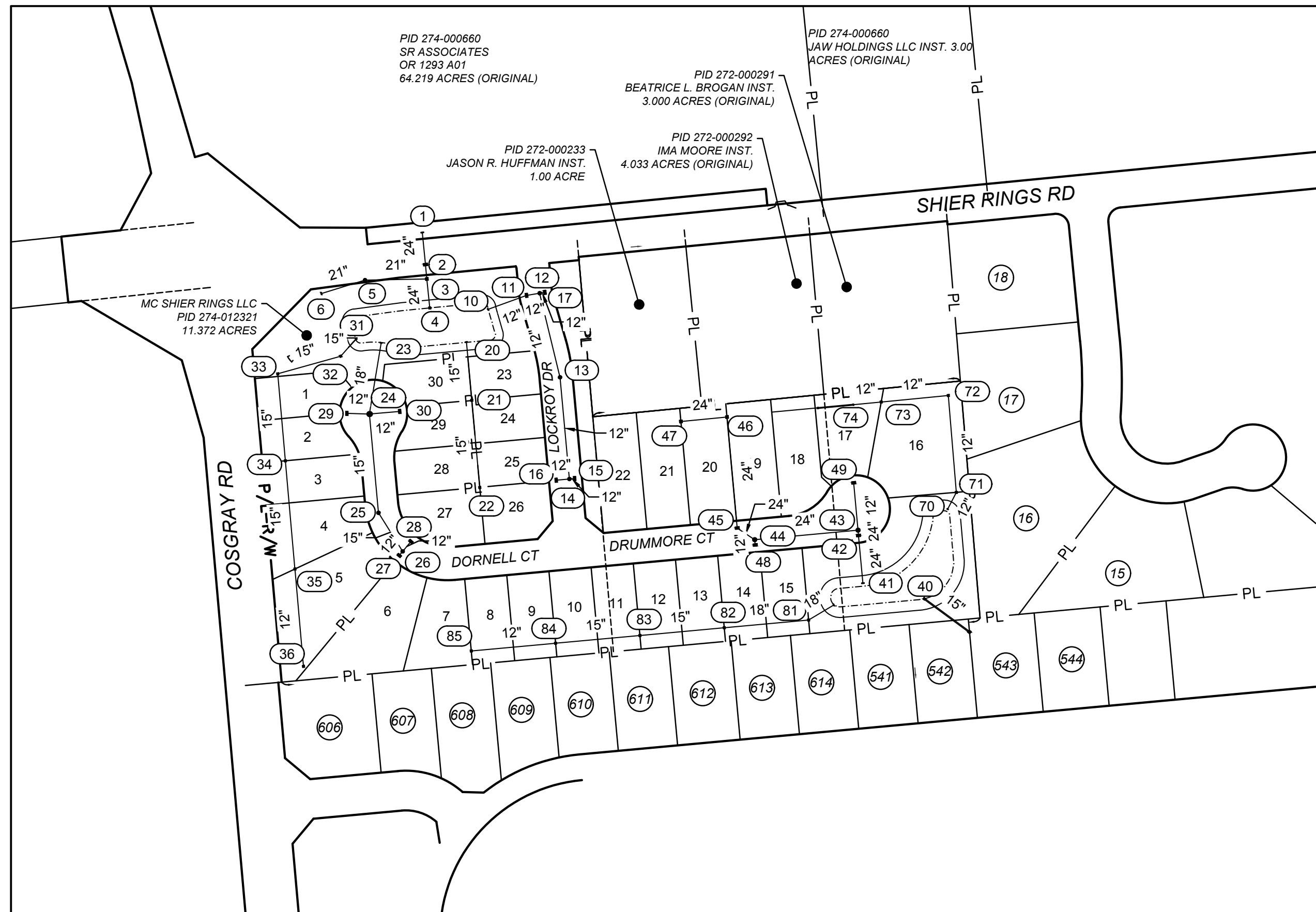
THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)	ODOT	CITY OF COLUMBUS			
MD-02 RD-03 ST-05	BP-3.1	AA-S102	AA-S128	AA-S168	L-6316A
MD-05 RD-05 WA-01		AA-S106	AA-S133A	L-1001	L-6409A
PD-02 RD-09		AA-S107	AA-S133B	L-6306	L-6637A
PD-03 RD-10		AA-S110	AA-S134B	L-6309A	L-6640
PD-04 SA-04		AA-S112	AA-S139/141	L-6309B	L-7001
PD-06 ST-01		AA-S117	AA-S140	L-6310	L-8502
RD-01 ST-03		AA-S119	AA-S149/151	L-6311	L-9901
RD-02 ST-04		AA-S125A	AA-S150	L-6312	

SITE DATA

ZONING:

PROPERTY OWNER: MC SHIER RINGS LLC
PARCEL ID: 274-012321
PROPOSED USE: RESIDENTIAL DEVELOPMENT
SITE ACREAGE:
TOTAL: 11.326 AC
PROP RIGHT-OF-WAY: 1.871 AC
RESERVE AREAS: 2.387 AC
ZONING: PUD
FEMA FLOODPLAIN: ZONE X
FEMA FIRM PANEL No.: 39049C0133K
NUMBER OF UNITS 30



ADJACENT OWNER INFORMATION

LOT No.	OWNER	PID	ACREAGE
15	DYBERT RICHARD L	272-000371-00	0.71
16	HARTMAN ARTHUR RAYMOND TR	272-000372-00	0.96
17	STICKEY CHARLOTTE L	272-000373-00	0.71
18	RAMSEY MICHAEL E	272-000374-00	0.71
541	KEEL ADAM D	274-001153-00	0.31
542	D SILVA JOYCE V	274-001154-00	0.31
543	BOFF JEFFERY	274-001155-00	0.34
544	KANE JOHNNIE M	274-001156-00	0.34
606	PORTER KENNETH E	274-001297-00	0.49
607	SMITH KYLE K	274-001298-00	0.32
608	PLACE TRACY J	274-001299-00	0.38
609	REAGER ANDREW T	274-001300-00	0.33
610	DATTANT JATIN	274-001301-00	0.31
611	SALCONE MICHAEL A JR	274-001302-00	0.31
612	STUDRAWA CYNTHIA M	274-001303-00	0.31
613	BLACK JOSEPH E	274-001304-00	0.31
614	SHAMSUDDIN ABDUL	274-001305-00	0.31

INDEX MAP
1" = 150'



OWNER/ DEVELOPER
MC SHIER RINGS, LLC
999 POLARIS PARKWAT SUITE 200
COLUMBUS, OHIO 43240
CONTACT: MR. MICHAEL G. KING
PHONE: 614-785-0015
EMAIL: MKING@ROCKFORDHOMES.NET

ENGINEER
AMERICAN STRUCTUREPOINT
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: BEN MILLER
PHONE: 614-901-2235
EMAIL: BMILLER@STRUCTUREPOINT.COM

LANDSCAPE ARCHITECT
POD DESIGN
100 NORTHWOOD BLVD, SUITE A
COLUMBUS, OHIO 43235
CONTACT: TODD FOLEY
PHONE: (614) 360-3055
EMAIL: TFOLEY@PODDESIGN.NET

REGISTERED ENGINEER E-76866 DATE

APPROVED:
CITY OF DUBLIN:
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO DATE
DIRECTOR OF ENGINEERING/PAUL A. HAMMERSMITH, P.E.

CITY OF COLUMBUS:
CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR PUBLIC STREET, STORM, AND WATER ONLY.
APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT WITH THE CITY OF DUBLIN, OHIO ON APRIL 13, 1993.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE DATE
CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE
CITY OF COLUMBUS, OHIO

BASIS OF BEARING
BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

ELEVATION DATUM
ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

BENCHMARKS
CP1003
V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.
ELEVATION = 944.56

TBM 100
"X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY
ELEVATION = 944.88

TBM 101
"X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.
ELEVATION = 947.48

ROCKFORD HOMES

AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43231
TEL: 614-901-2235
WWW.STRUCTUREPOINT.COM

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR AYRSHIRE FARMS CITY OF DUBLIN, FRANKLIN COUNTY, OHIO TITLE SHEET

REVISIONS	DATE	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C001

PLOT SCALE: 1" = 148.8 FT. DATE: 11/1/21 - 1:48 PM. EDITED BY: MROCHE. DRAWING FILE: 0:201901745.D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019.01745.CE.TS.GXD.DWG

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTLEMENT OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON-RUBBER Tired VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS. THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS 1800 EAST 17TH AVENUE COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING
CITY OF DUBLIN
5800 SHIER RINGS ROAD DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE: IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) GERMINATION RATE: 85% APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

NOTE: SEE SHEET C001 FOR UTILITY CONTACT INFORMATION.

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 8 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.

5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.

8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILL OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECT TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL. THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER, ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

- A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
B. RUBBER GASKET COMPRESSION.
1) PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE NOTES - CITY OF COLUMBUS

1. THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.

2. ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.

3. FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

4. ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.

5. IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER MAIN SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

6. NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

7. APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF. (MUST APPEAR ABOVE COLUMBUS SIGNATURE BLOCK).

8. THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MUST BE OBTAINED FROM THE RESPECTIVE HYDRANT OWNER THE CITY OF DUBLIN PRIOR TO CONTACTING THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE.

9. ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

10. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: 150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.

11. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.15 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT A WRITTEN REQUEST FOR CHLORINATION OF THE MAINS THAT NEED DISINFECTED, THREE (3) SETS OF "AS-BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS-BUILT SURVEY COORDINATES, WATER SERVICE REPORTS AND A PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.

12. ANY SECTION OF WATER MAIN THAT IS LONGER THAN 20 FEET IN LENGTH SHALL BE CHLORINATED. HAND SWABBING METHODS WILL ONLY BE PERMITTED FOR SECTIONS LESS THAN OR EQUAL TO 20 FEET IN LENGTH. USE UNSCENTED HOUSEHOLD BLEACH FOR HAND SWABBING OF PIPE AND FITTINGS.

13. ONLY ONE CONNECTION TO AN EXISTING WATER MAIN IS PERMITTED BEFORE DISINFECTION OF A NEW WATER MAIN HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE MAIN HAS BEEN DISINFECTED.

14. WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICE LINES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICE LINES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF WATER SERVICE LINES. TO ENSURE THAT ALL EXISTING WATER SERVICE LINES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICE LINES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND WATER TAP BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).

15. ALL WATER METERS ASSOCIATED WITH THIS PROJECT SHALL BE INSTALLED INSIDE THE PROPOSED STRUCTURE UNLESS A METER PIT IS APPROVED BY THE ADMINISTRATOR OF THE DIVISION OF WATER. ALL METER PITS MUST CONFORM TO STANDARD DRAWING L-7103 FOR 5/8" THROUGH 1" METERS OR L-6317 A, B, C, D, & E FOR 1-1/2" OR LARGER METERS.

16. NO WATER SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY WATER TAPS UNTIL WATER MAINS HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER. WHEN A 3-INCH OR LARGER TAP IS TO OCCUR ON A 20-INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614)-645-7168 TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.

17. WATER TAP BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.

18. WHEN PERFORMING WATER SERVICE LINE TRANSFERS, THE CONTRACTOR SHALL FLUSH THE WATER TAP PRIOR TO CONNECTING TO THE EXISTING SERVICE LINE.

19. MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.

20. WHEN CROSSING THE EXISTING WATER MAIN, AND LOW STRENGTH MORTAR (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER MAIN.

21. IF DURING EXCAVATION, THE POLYETHYLENE ENCASEMENT ON THE EXISTING WATER MAIN BECOMES DAMAGED, THE CONTRACTOR SHALL REPAIR THE POLYETHYLENE ENCASEMENT PER MANUFACTURER'S SPECIFICATIONS AND DOW STANDARD DRAWINGS L-1003 AND L-1004, AT THEIR OWN EXPENSE. ENSURE THAT THE ENTIRE EXPOSED AREA IS COVERED WITH NEW POLYETHYLENE ENCASEMENT AND SECURELY TAPED, PRIOR TO BACKFILLING.

22. CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE CHAPTER 3745-83-02 WATER DISRUPTION OF SERVICE RULE. EXCAVATE PITS SUFFICIENTLY BELOW THE AREA TO BE CONNECTED TO IN ORDER TO MAINTAIN WATER LEVELS BELOW THE WATER MAIN. IF WATER FROM THE PIT ENTERS THE EXISTING MAIN, CONTACT DIVISION OF WATER IMMEDIATELY. ENSURE THAT SUFFICIENTLY SIZED PUMPS ARE UTILIZED TO REMOVE WATER FROM THE TRENCH AND BACKUP PUMPS ARE KEPT ON SITE FOR REDUNDANCY.

23. "SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, HORIZONTAL DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, AND CASING PIPE TERMINI. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 200 FEET WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

24. ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXXX.XX, E XXXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

25. THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

26. LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

27. NOTE TO CONSULTANT: PROVIDE THE X, Y, Z COORDINATE TABLE FOR PROPOSED WORK AND BLANK SPACES FOR AS-BUILTS ON THE SHEETS AS REQUIRED BY THE C.O.C. WATER DISTRIBUTION ENGINEERING SECTION.



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES

Table with 4 columns: REVISIONS, DATE, SHEET NO., DESCRIPTION

Table with 2 columns: DATE, DRAWN BY, CHECKED BY, JOB NUMBER

C002

PLOT SCALE: 1" = 40' DATE: 11/17/21 - 1:48 PM EDITED BY: MROOHE DRAWING FILE: 0:201910745.D DRAWINGS/CIVIL/CONSTRUCTION DOCUMENTS/STREET, STORM, & WATER/2019.01745.CE.TS.GXD.DWG

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLED COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL. IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS, THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

STORM SEWER

1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
5. HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."
7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

WATER LINE

1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.
3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.
4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED. TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.

7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
9. ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.
13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.
16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
17. TWO 3/4 INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 1:45 PM EDITED BY: MROOCH DRAWING FILE: 0:201919107451D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019_017451.DCE.TS.GXD.DWG



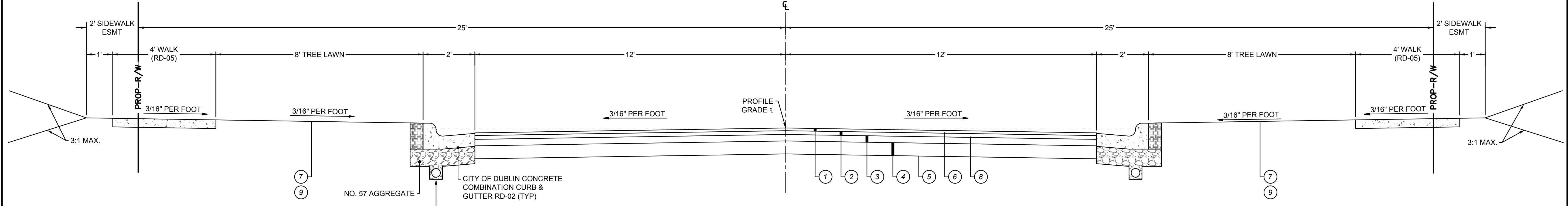
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PUBLIC STREET, STORM, AND WATER
IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C003



A TYPICAL 28' B/B PUBLIC STREET SECTION (30 MPH DESIGN SPEED)
 PER DUBLIN STANDARD DRAWING RD-01
 NOT TO SCALE

SECTION KEY	
1	ITEM 441. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG-64-22
2	ITEM 441. 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG-64-22
3	ITEM 301, 3" ASPHALT CONCRETE BASE
4	ITEM 304, 6" AGGREGATE BASE
5	ITEM 204, SUBGRADE COMPACTION
6	ITEM 407, NON-TRACKING TACK COAT @ 0.075 GAL/SY
7	ITEM 659, SEEDING AND MULCHING, CLASS 1
8	ITEM 407, NON-TRACKING TACK COAT @ 0.10 GAL/SY
9	ITEM 653, 3" TOPSOIL FURNISHED AND PLACED

STATION DATA		
NAME	BEGIN STA	END STA
LOCKROY DR	STA: 0+32.89	STA: 4+31.36
DORNELL CT	STA: 0+76.66	STA: 4+34.81
DRUMMORE CT	STA: 5+12.81	STA: 8+05.14


ESTIMATE OF QUANTITIES
 THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.

DEMOLITION			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	14	EA	REMOVE TREE
202	1	EA	REMOVE TREE STUMP
202	20	SY	DRIVE REMOVED
202	10	LF	FENCE REMOVED
202	1	EA	CHICKEN COOP REMOVED
SITE			
203	5,231	CY	EXCAVATION
203	73,041	CY	EMBANKMENT
204	5,158	SY	SUBGRADE COMPACTION
207	24	CY	STABILIZED CONSTRUCTION ENTRANCE
207	1	EACH	DESIGNATED CONCRETE WASHOUT AREA
207	33	EACH	INLET PROTECTION
207	2,860	LF	PERIMETER FILTER FABRIC FENCE
301	387	CY	3" ASPHALT CONCRETE BASE
304	773	CY	6" AGGREGATE BASE
407	812	GAL	TACK COAT
441	161	CY	1.25" ASPHALT CONCRETE SURFACE COURSE
441	226	CY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE
608	4,668	SF	4" CONCRETE WALK
608	9,218	SF	4" CONCRETE WALK (BY HOMEBUILDER)
608	4	EACH	TYPE "A" CURB RAMP
608	1	EACH	DRIVE APPROACH
609	2,970	LF	COMBINATION CURB AND GUTTER
630	4	EACH	STREET SIGN (RD-10)
630	1	EACH	STOP SIGN (RD-10)
659	44,305	SY	SEEDING AND MULCHING
STORM			
601		CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	9	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03)
604	9	EACH	CURB & GUTTER INLET (AA-S125A) W/ GRATE (ST-04)
604	15	EACH	2'X2' CB (AA-S139) W/ GRATE (ST-04)
604	2	EACH	3'X3' CB (AA-S139) W/ GRATE (ST-04)
604	2	EACH	3'X3' CB (AA-S133B) W/ GRATE (ST-04) (OUTLET STRUCTURE)
604	9	EACH	PRECAST HEADWALL (AA-S168)
901	394	LF	12" STORM PIPE, WITH ITEM 911 BACKFILL
901	482	LF	12" STORM PIPE, WITH ITEM 912 BACKFILL
901	1228	LF	15" STORM PIPE, WITH ITEM 911 BACKFILL
901	692	LF	15" STORM PIPE, WITH ITEM 912 BACKFILL
901	861	LF	18" STORM PIPE, WITH ITEM 911 BACKFILL
901	58	LF	18" STORM PIPE, WITH ITEM 912 BACKFILL
901	279	LF	24" STORM PIPE, WITH ITEM 912 BACKFILL
901	242	LF	24" STORM PIPE, WITH ITEM 911 BACKFILL
WATER			
801	12	LF	6 INCH WATER PIPE AND FITTINGS
801	1,422	LF	8 INCH WATER PIPE AND FITTINGS
802	5	EACH	8" X 6" TEE
802	4	EACH	8" VALVE AND APPURTENANCES
802	5	EACH	6" VALVE AND APPURTENANCES
805	30	EACH	3/4" CURB STOP
805	11	EACH	3/4" WATER TAP (SHORT)
805	19	EACH	3/4" WATER TAP (LONG)
809	6	EACH	FIRE HYDRANT TYPE B (COMPLETE)
SPEC	1	SUM	SURVEY COORDINATES
SPEC	1	EACH	FORD BOX AND METER RELOCATION

WATER COORDINATE TABLE LOCKROY DR				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
CONNECT TO WATER MAIN	0+11.58	17.50 R		
10.25° HORZ BEND	0+76.40	17.89 R		
10.50° HORZ BEND	1+79.15	16.36 R		
3/4" WATER SERVICE (SHORT)(23)	2+16.45	21.00 R		
3/4" WATER SERVICE (SHORT)(24)	2+78.45	21.00 R		
FIRE HYDRANT TYPE "B"	3+03.62	21.15 R		
8" TEE (FOR FH)	3+03.62	17.50 R		
3/4" WATER SERVICE (SHORT)(25)	3+40.45	21.00 R		
3/4" WATER SERVICE (SHORT)(26)	4+02.46	21.00 R		
8"x8"x8" TEE	4+52.86	17.50 R		

WATER COORDINATE TABLE DORNELL CT & DRUMMORE CT				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
3/4" WATER SERVICE (SHORT)(30)	-0+14.35	44.75 L		
3/4" WATER SERVICE (LONG)(1)	-0+37.27	28.63 R		
FIRE HYDRANT TYPE "B"	-0+41.72	17.52 L		
3/4" WATER SERVICE (SHORT)(29)	0+24.09	40.36 L		
3/4" WATER SERVICE (LONG)(2)	0+38.53	30.81 R		
FIRE HYDRANT TYPE "B"	0+53.37	19.29 L		
8" TEE FOR FH	0+53.37	17.50 L		
3/4" WATER SERVICE (SHORT)(28)	0+86.17	21.00 L		
3/4" WATER SERVICE (LONG)(3)	1+00.38	21.00 R		
3/4" WATER SERVICE (SHORT)(27)	1+51.21	21.00 L		
3/4" WATER SERVICE (LONG)(4)	1+57.06	21.00 R		
3/4" WATER SERVICE (LONG)(5)	1+90.82	21.00 R		
3/4" WATER SERVICE (LONG)(6)	2+33.87	21.00 R		
3/4" WATER SERVICE (LONG)(7)	2+75.63	21.00 R		
3/4" WATER SERVICE (LONG)(8)	3+33.36	21.00 R		
FIRE HYDRANT TYPE "B"	3+81.57	15.98 L		
8" TEE FOR FH	3+81.60	17.50 L		
3/4" WATER SERVICE (LONG)(9)	3+95.36	21.00 R		
8"x8"x8" TEE	4+56.31	17.50 L		

WATER COORDINATE TABLE DORNELL CT & DRUMMORE CT				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
3/4" WATER SERVICE (LONG)(10)	4+57.36	21.00 R		
3/4" WATER SERVICE (LONG)(11)	5+19.36	21.00 R		
3/4" WATER SERVICE (SHORT)(22)	5+56.21	21.00 L		
3/4" WATER SERVICE (LONG)(12)	5+81.36	21.00 R		
3/4" WATER SERVICE (SHORT)(21)	6+33.36	21.00 L		
3/4" WATER SERVICE (LONG)(13)	6+43.36	21.00 R		
8" TEE FOR FH	6+86.03	17.50 L		
FIRE HYDRANT TYPE "B"	6+86.05	15.97 L		
3/4" WATER SERVICE (SHORT)(20)	6+91.03	21.00 L		
3/4" WATER SERVICE (LONG)(14)	7+35.33	21.00 R		
3/4" WATER SERVICE (SHORT)(19)	7+41.27	21.00 L		
3/4" WATER SERVICE (LONG)(15)	7+75.79	21.00 R		
3/4" WATER SERVICE (SHORT)(18)	8+13.98	21.32 L		
3/4" WATER SERVICE (LONG)(17)	9+10.68	46.99 L		
8" TEE FOR FH	9+39.76	29.93 R		
FIRE HYDRANT TYPE "B"	9+41.30	27.65 R		
8" CAP & THRUST BLOCK	9+50.26	39.70 R		
3/4" WATER SERVICE (SHORT)(16)	9+55.22	13.62 R		



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

FOR

AYRSHIRE FARMS

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

TYPICAL SECTIONS & WATER COORDINATE TABLES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 11/1/2021
 DRAWN BY: ALH
 CHECKED BY: JRP
 JOB NUMBER: 2019.01745

C004

PLOT SCALE: 1"=100' DATE: 11/1/21 - 1:48 PM EDITED BY: MROCHE DRAWING FILE: 0:2019101745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019.01745.CET.TS.GXD.DWG

CALCULATED BY: BAJ DATE: 06/29/2021 CHECKED BY: JRP 06/29/2021

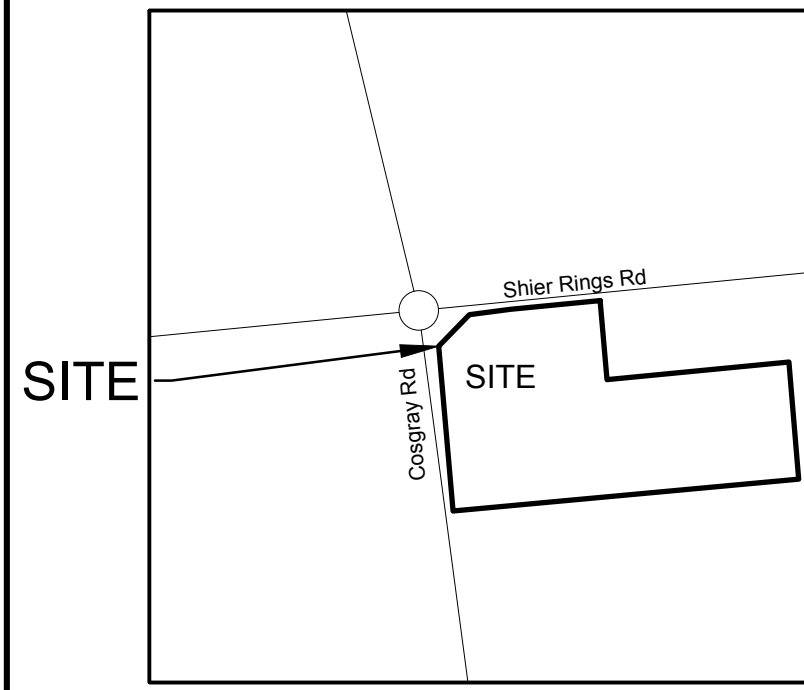
ALTA/NSPS LAND TITLE SURVEY

STATE OF OHIO, COUNTY OF FRANKLIN, TOWNSHIP OF WASHINGTON

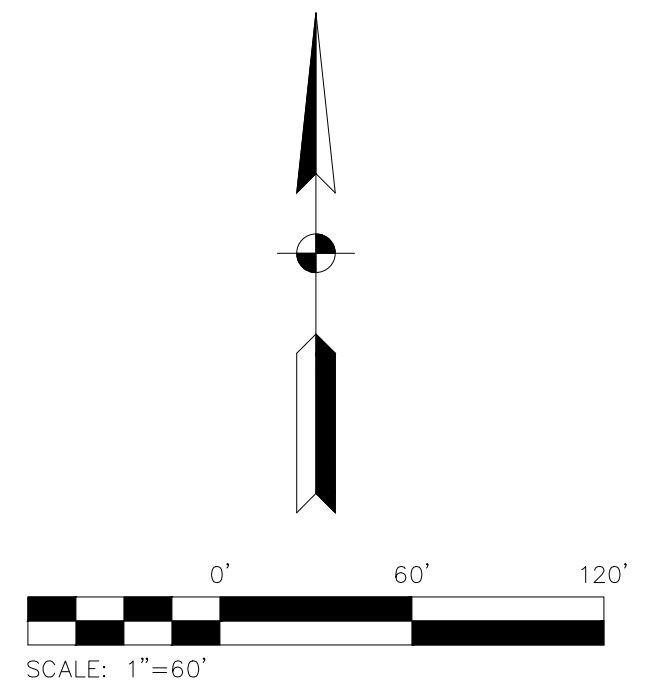
VIRGINIA MILITARY SURVEY NO. 6953

GENERAL PROPERTY INFORMATION

Owners of Record: MC Shier Rings LLC
 Current Tax PIDs: 274-012321
 Current Tax District: City of Dublin-Wash TWP-Hilliard
 Current Deed Reference: I.N. 201808140109233, 201808140109232,
 201907090083345 & 201907090083346
 Current Site Address: Shier Rings Rd & Cosgray Road

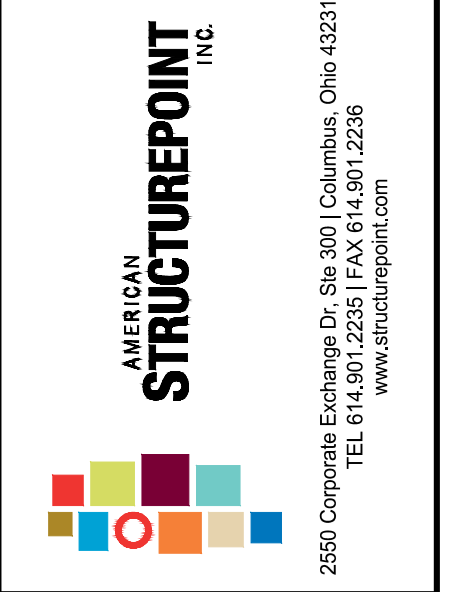


VICINITY MAP
NTS



LEGEND

- Bush
- Curb Inlet
- Drainage Inlet Round
- Drainage Inlet Square
- Electric Box
- Electric Meter
- Electric Transformer
- Fire Hydrant
- Gas Marker
- Government Control Point Found
- Guy Wire
- Iron Pin & Cap Found
- Iron Pin Found
- Iron Pin Set
- Light Pole
- M.N.F. Mag Nail Found
- Monument Box Found
- Pine Tree
- Post
- Power & Light Pole
- Power & Telephone Pole
- Power Pole
- Railroad Spike Found
- Rock
- Sanitary Manhole
- Sign
- Storm Manhole
- Stump
- Telephone Light Pole
- Telephone Pole
- Tree
- Water Valve
- Water Well Drilled



PUBLIC STREET, STORM, AND WATER
IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
**EXISTING CONDITIONS
SURVEY**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

To: Chicago Title Insurance Company; First American Title Insurance Company; Title First Agency, LLC; MC Shier Rings, LLC; and all of their respective successors and/or assigns as their interests may appear.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 11(b), 13, 14, 16, 17, 18 and 19 of Table A thereof. The original field work was completed on April 22, 2021 (date of latest field activity).

Date of Plat or Map: May 19, 2021
 This document is not valid unless imprinted with a land surveyor's seal.

BASIS OF BEARINGS

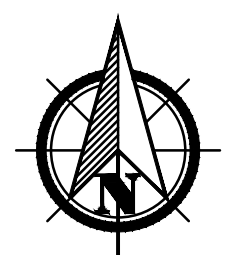
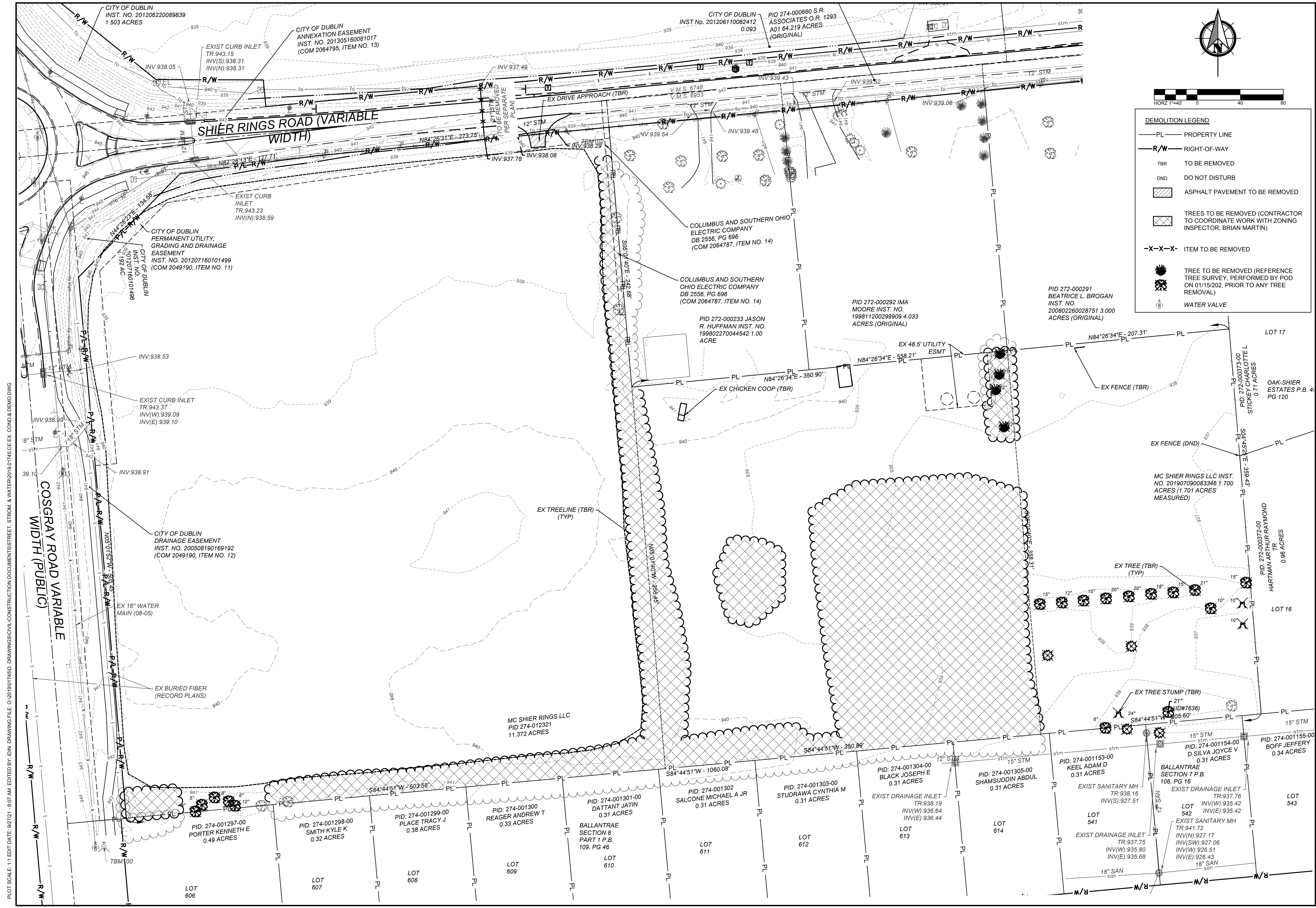
Bearings described hereon are based on North 84 degrees 26 minutes 31 seconds East, the centerline of right-of-way for Shier Rings Road, measured from Grid North, referenced to the Ohio State Plane Coordinate System (South Zone) and the North American Datum of 1983 (2011 Adjustment), as established utilizing a GPS survey and an NGS OPUS solution.

Brian P. Bingham
 Professional Land Surveyor 8438
 _____ Date

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

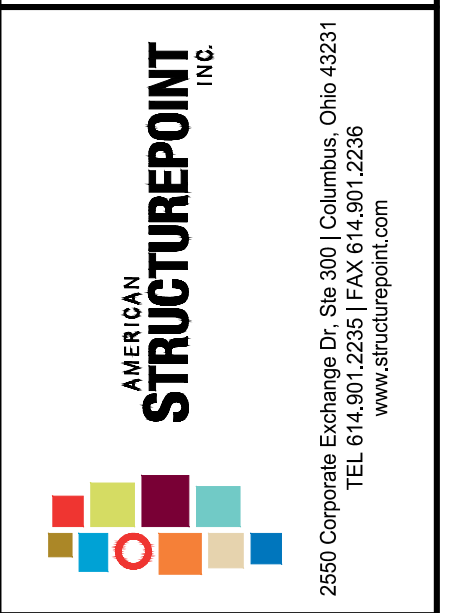
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PLOT SCALE: 1:1 EDIT DATE: 9/27/21 - 7:54 AM EDITED BY: IDN DRAWING FILE: C:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\01745 CE SV.DWG



DEMOLITION LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- TBR TO BE REMOVED
- DND DO NOT DISTURB
- ASPHALT PAVEMENT TO BE REMOVED
- TREES TO BE REMOVED (CONTRACTOR TO COORDINATE WORK WITH ZONING INSPECTOR, BRIAN MARTIN)
- X-X-X- ITEM TO BE REMOVED
- TREE TO BE REMOVED (REFERENCE TREE SURVEY, PERFORMED BY POD ON 01/15/202, PRIOR TO ANY TREE REMOVAL)
- WATER VALVE



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
AYSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
DEMOLITION PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C100

PLOT SCALE: 1"=40' AM. EDITED DATE: 9/27/21 - 8:07 AM. EDITED BY: IDN. DRAWING FILE: C:\2019\01745.D. DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019.01745.CE EX. COND. & DEMO.DWG

SITE DATA

ZONING:

PROPERTY OWNER: MC SHIER RINGS LLC
 PARCEL ID: 274-012321
 PROPOSED USE: RESIDENTIAL DEVELOPMENT

SITE ACREAGE:

TOTAL: 11.326 AC
 PROP RIGHT-OF-WAY: 1.871 AC
 RESERVE AREAS: 2.387 AC

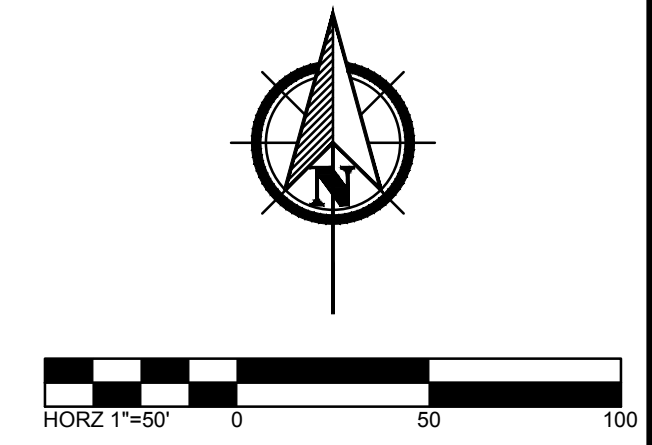
ZONING: PUD

FEMA FLOODPLAIN: ZONE X
 FEMA FIRM PANEL No.: 39049C0133K

NUMBER OF UNITS 30

SITE LEGEND

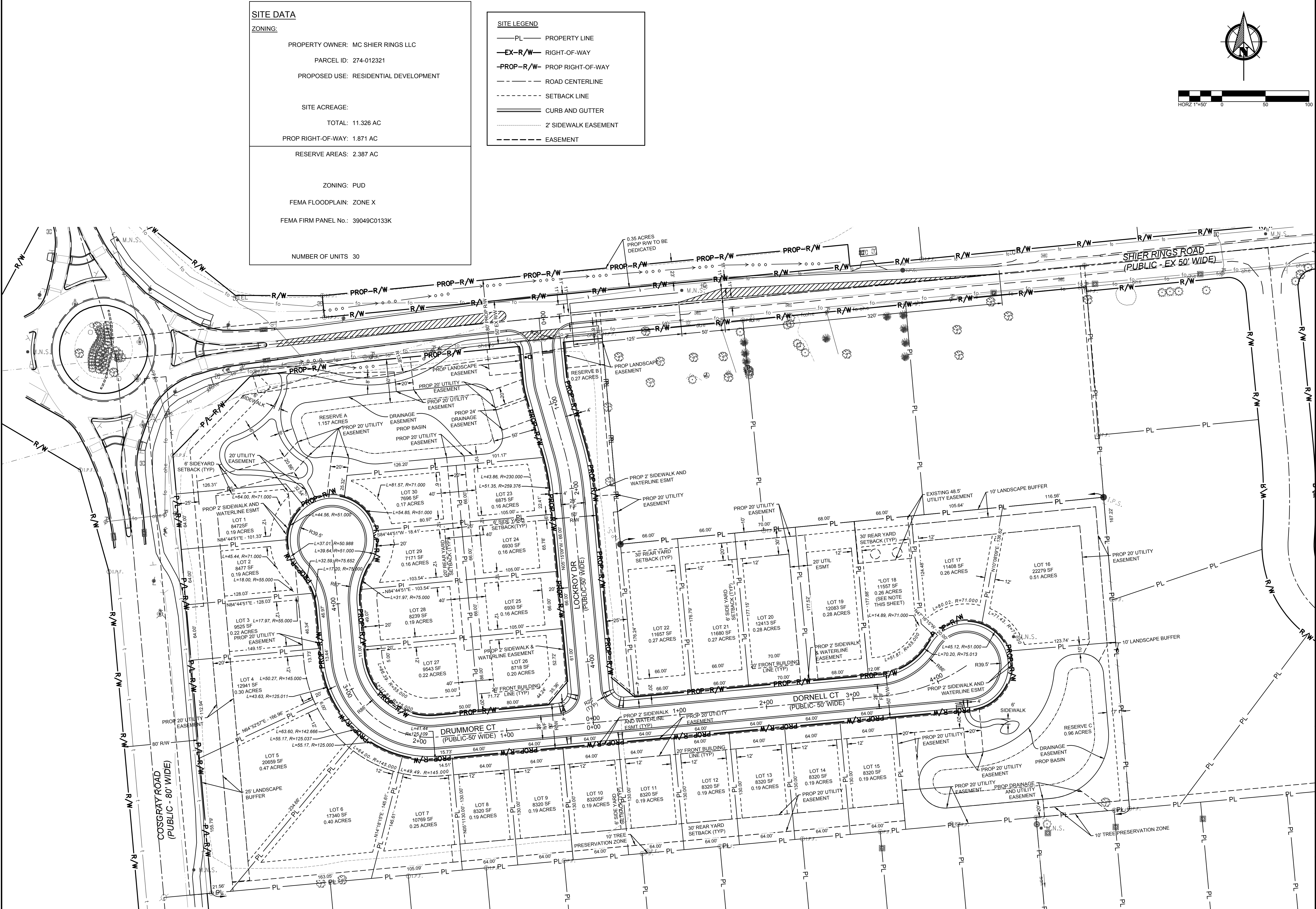
- PL — PROPERTY LINE
- EX-R/W — RIGHT-OF-WAY
- PROP-R/W — PROP RIGHT-OF-WAY
- — ROAD CENTERLINE
- - - - SETBACK LINE
- ==== CURB AND GUTTER
- 2' SIDEWALK EASEMENT
- EASEMENT



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
STAKING PLAN



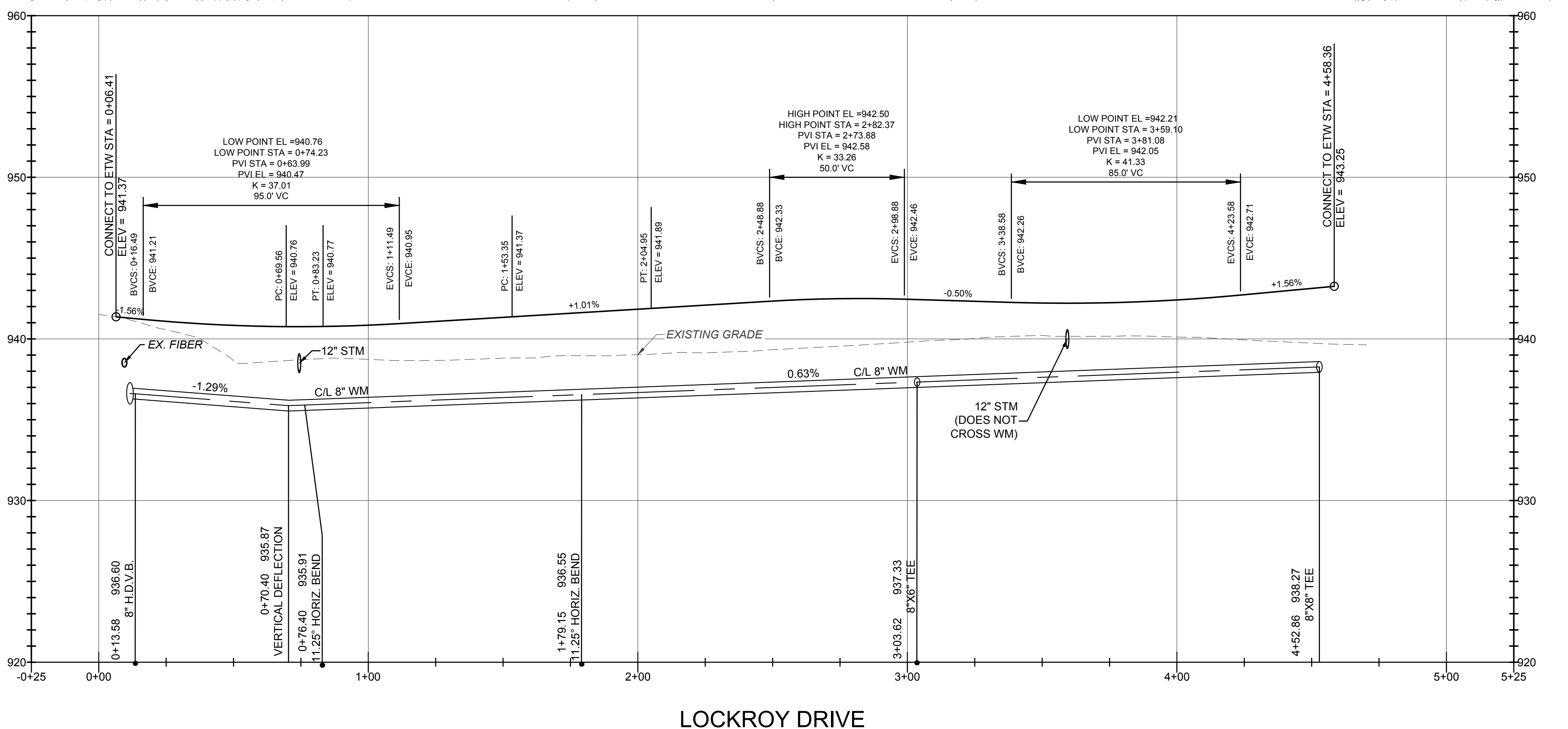
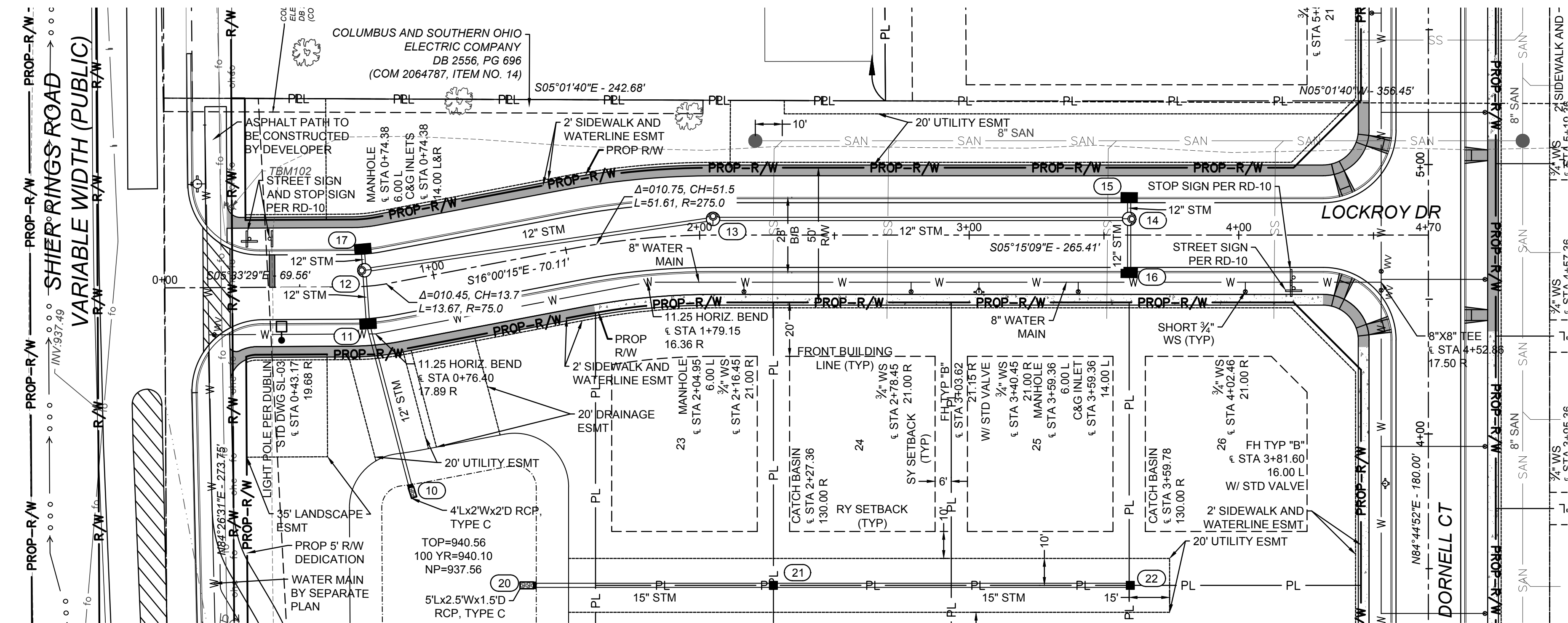
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 11/1/2021
 DRAWN BY: ALH
 CHECKED BY: JRP
 JOB NUMBER: 2019.01745

C200

PLOT SCALE: 1"=145' PM EDIT DATE: 11/1/21 - 1:45 PM EDITED BY: MROCHE DRAWING FILE: 0:201901745.DRAWINGS\CIVIL\CONSTRUCTION DOCUMENT\STREET, STORM, & WATER\2019.01745.CE.SP.DWG

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 1:47 PM EDITED BY: MROCHE DRAWING FILE: 0:2019/01745/DRAWINGS/CIVIL/CONSTRUCTION DOCUMENTS/STREET, STORM, & WATER/2019.01745.CE.P&P.DWG



HATCH LEGEND

	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEOWNER

SITE LEGEND

	PROPERTY LINE
	RIGHT-OF-WAY
	SETBACK
	EASEMENT
	CENTERLINE
	CURB AND GUTTER
	PUBLIC WATER MAIN
	WATER SERVICE
	PUBLIC STORM SEWER (FOR REFERENCE ONLY)
	PUBLIC SANITARY SEWER (FOR REFERENCE ONLY)
	SANITARY LATER (FOR REFERENCE ONLY)

NOTE:

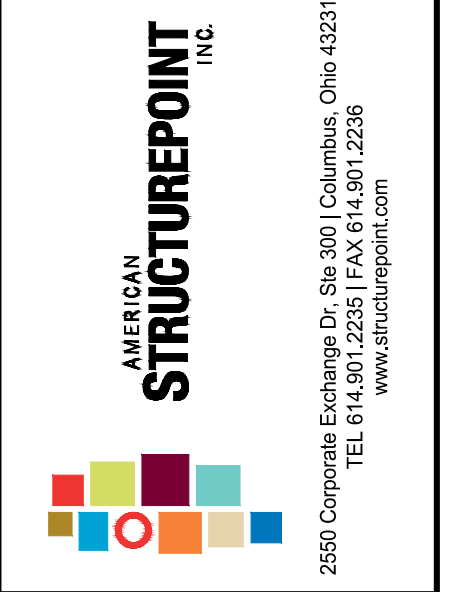
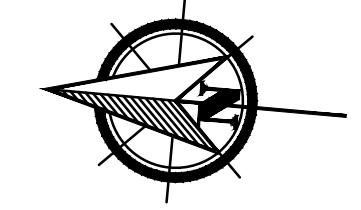
FOR INTERSECTION DETAILS, SEE SHEET C400

FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401

PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS

REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.

PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.



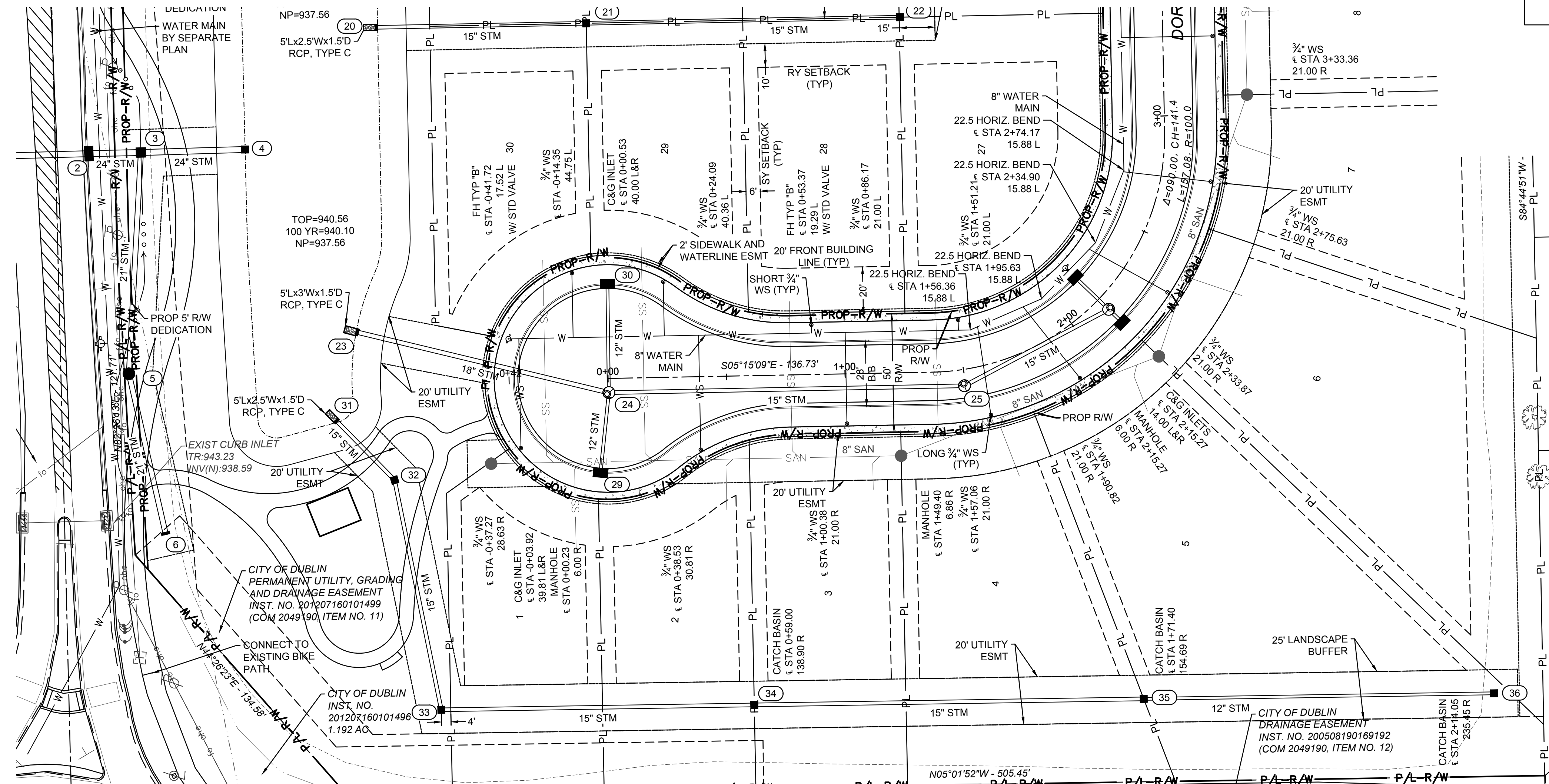
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C300

PLOT SCALE: 1"=11/2' DATE: 11/1/21 1:47 PM EDITED BY: MROOCH DRAWING FILE: 0:2019/01745/D DRAWINGS/CIVIL/CONSTRUCTION DOCUMENTS/STREET, STORM, & WATER/2019.01745.CE.P&P.DWG



HATCH LEGEND

[Hatched Box]	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
[Dotted Box]	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEOWNER

SITE LEGEND

— PL —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
- - - -	SETBACK
- - - -	EASEMENT
- - - -	CENTERLINE
=====	CURB AND GUTTER
— W —	PUBLIC WATER MAIN
— WS —	WATER SERVICE
— P.S.S. —	PUBLIC STORM SEWER
— SAN —	PUBLIC SANITARY SEWER (FOR REFERENCE ONLY)
— SS —	SANITARY LATER (FOR REFERENCE ONLY)

NOTE:

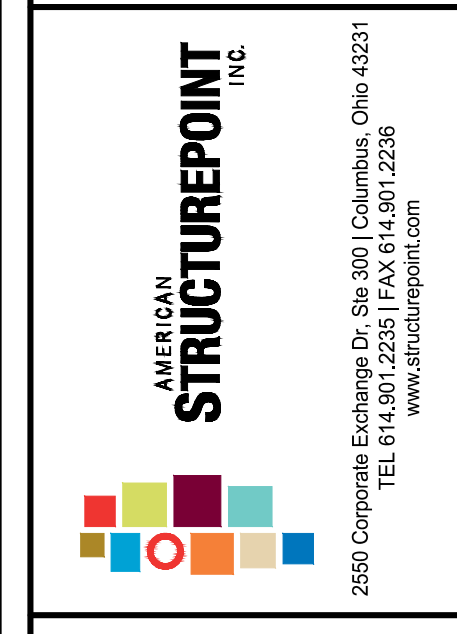
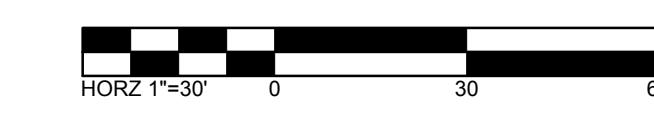
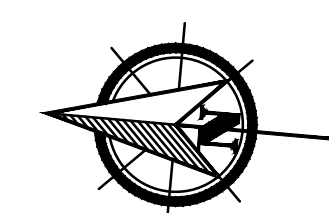
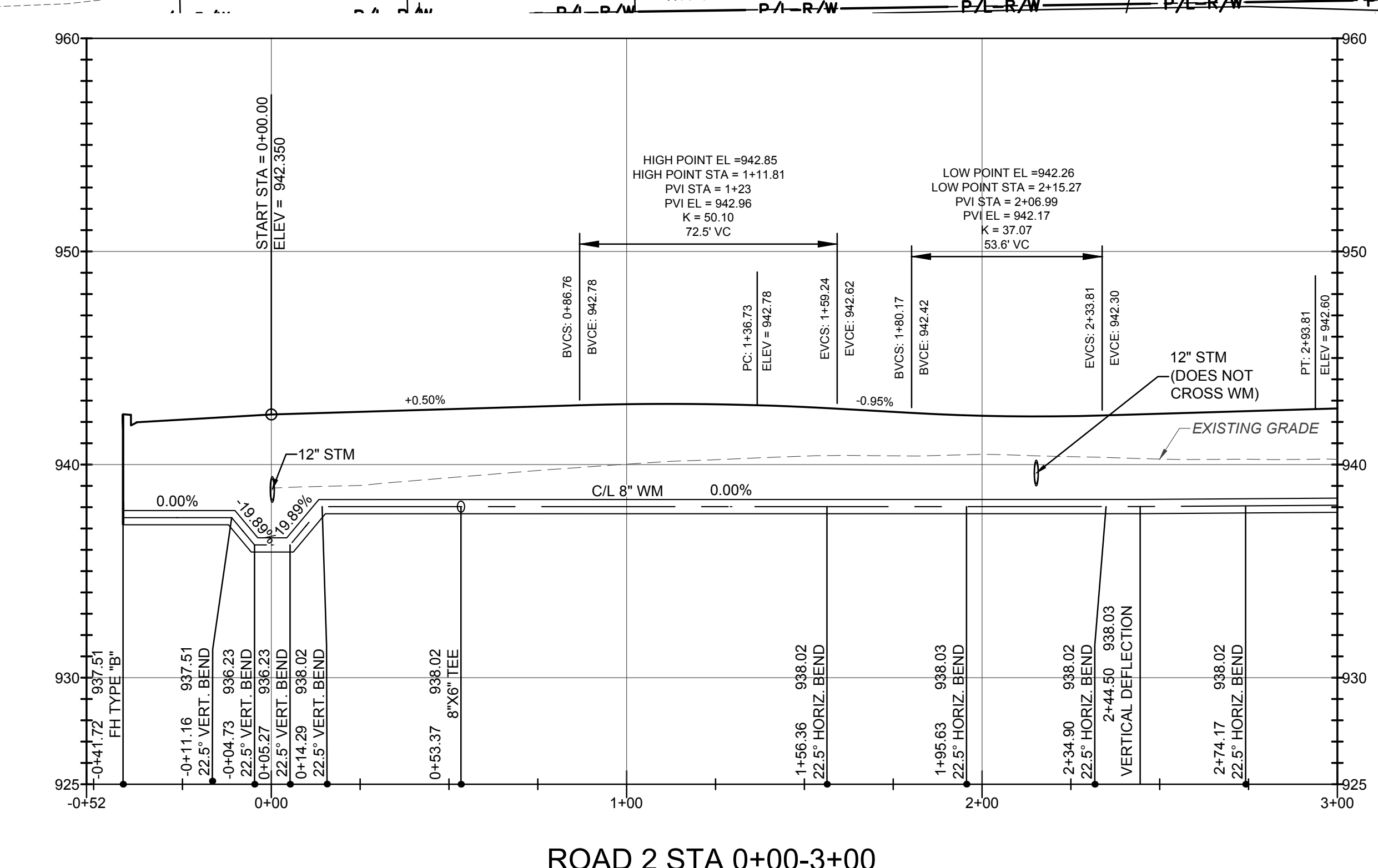
FOR INTERSECTION DETAILS, SEE SHEET C400

FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401

PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS

REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.

PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
AYRSHIRE FARMS
 FOR
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

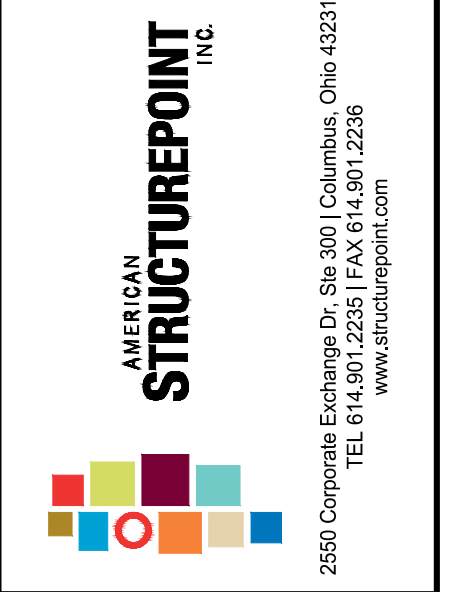
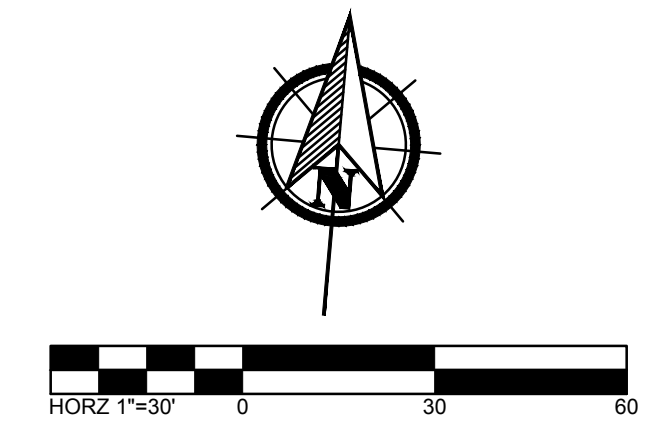
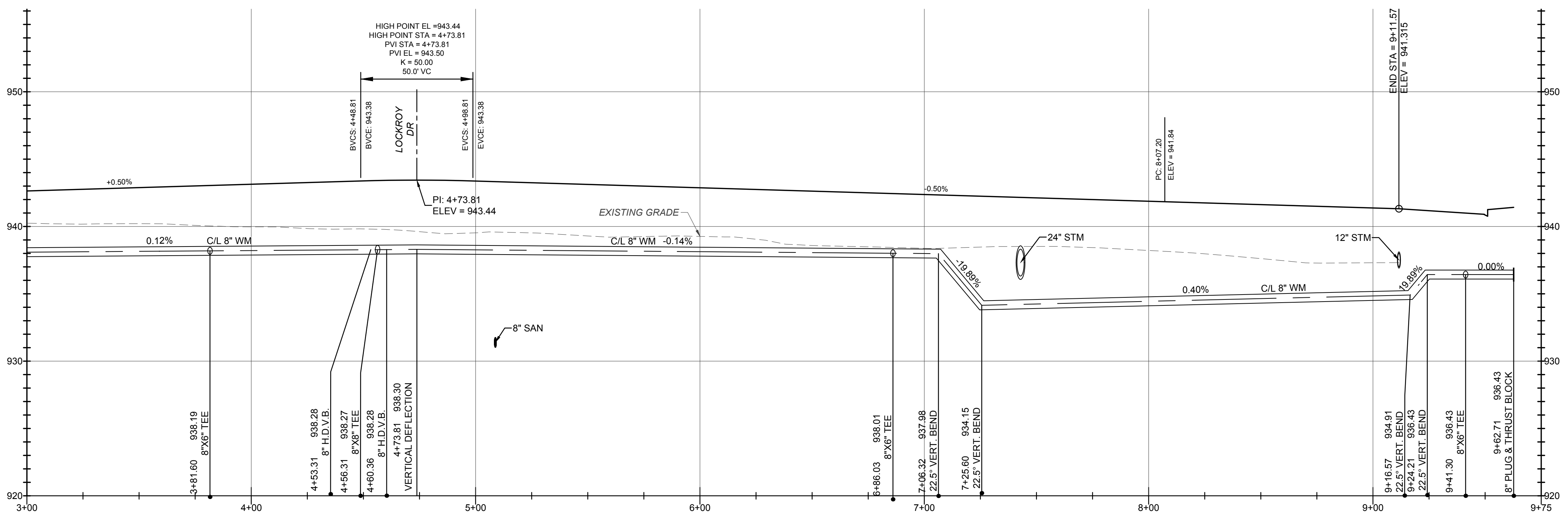
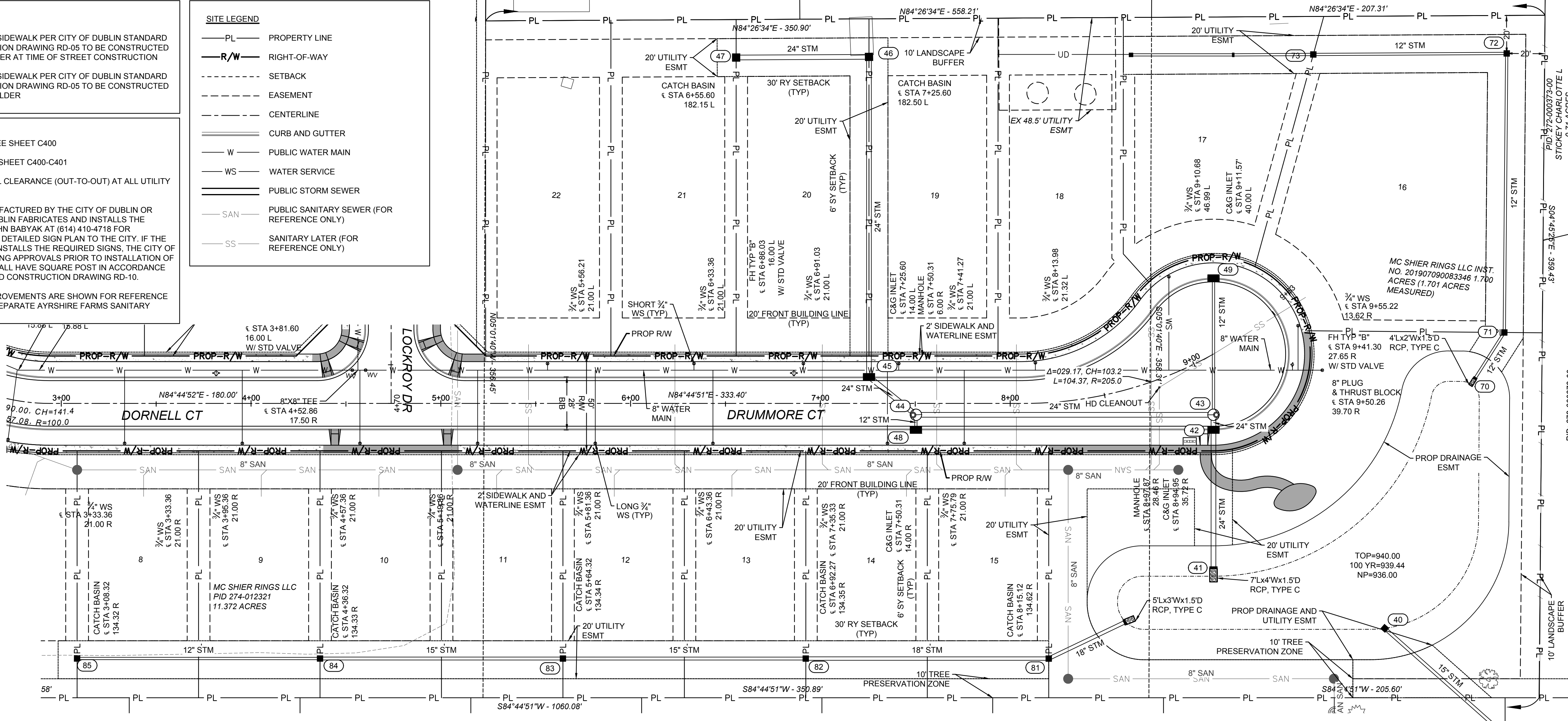
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C301

HATCH LEGEND	
	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEBUILDER

SITE LEGEND	
	PL PROPERTY LINE
	R/W RIGHT-OF-WAY
	SETBACK
	EASEMENT
	CENTERLINE
	CURB AND GUTTER
	W PUBLIC WATER MAIN
	WS WATER SERVICE
	PS PUBLIC STORM SEWER
	SAN PUBLIC SANITARY SEWER (FOR REFERENCE ONLY)
	SS SANITARY LATER (FOR REFERENCE ONLY)

NOTE:
 FOR INTERSECTION DETAILS, SEE SHEET C400
 FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401
 PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS
 REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.
 PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

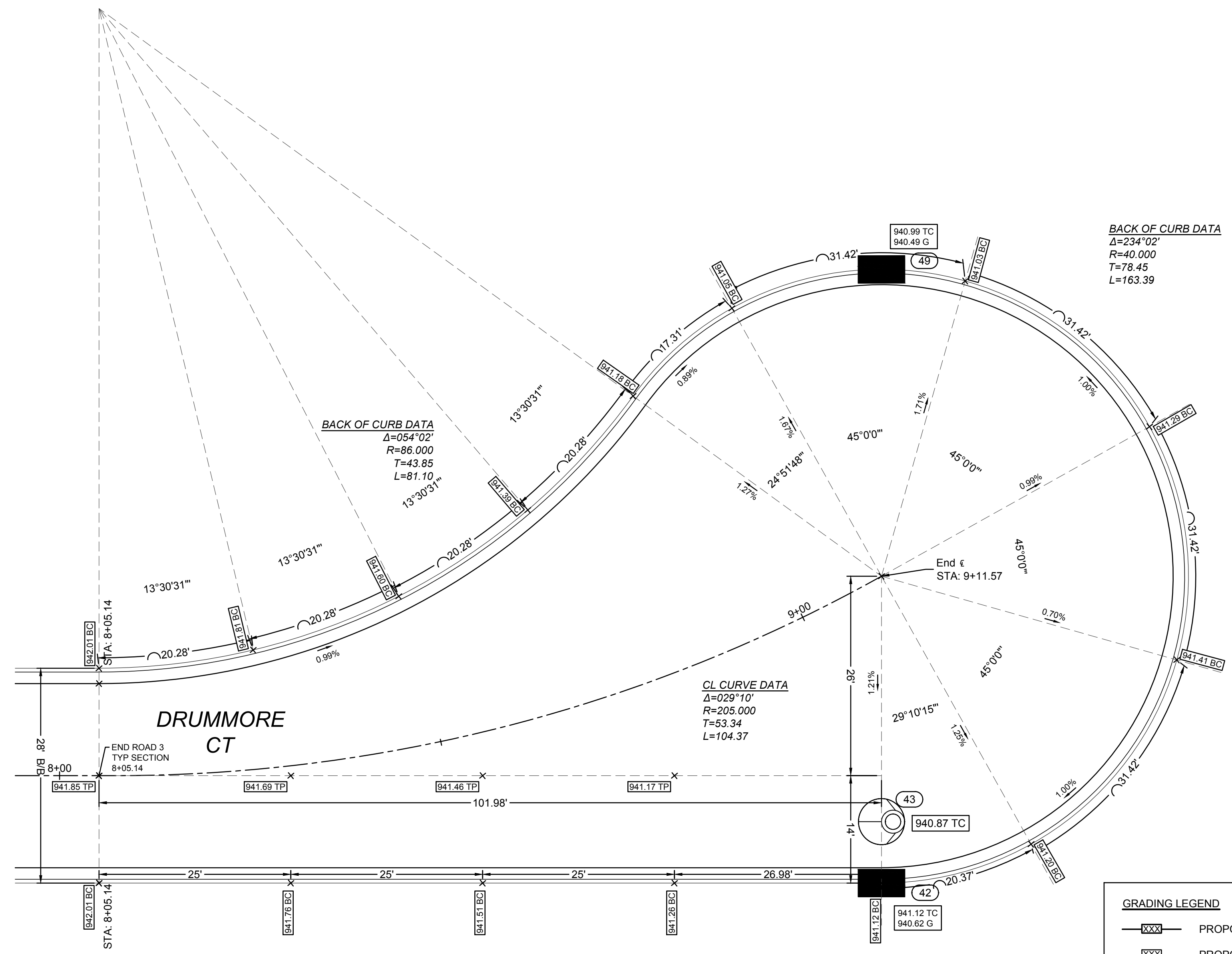
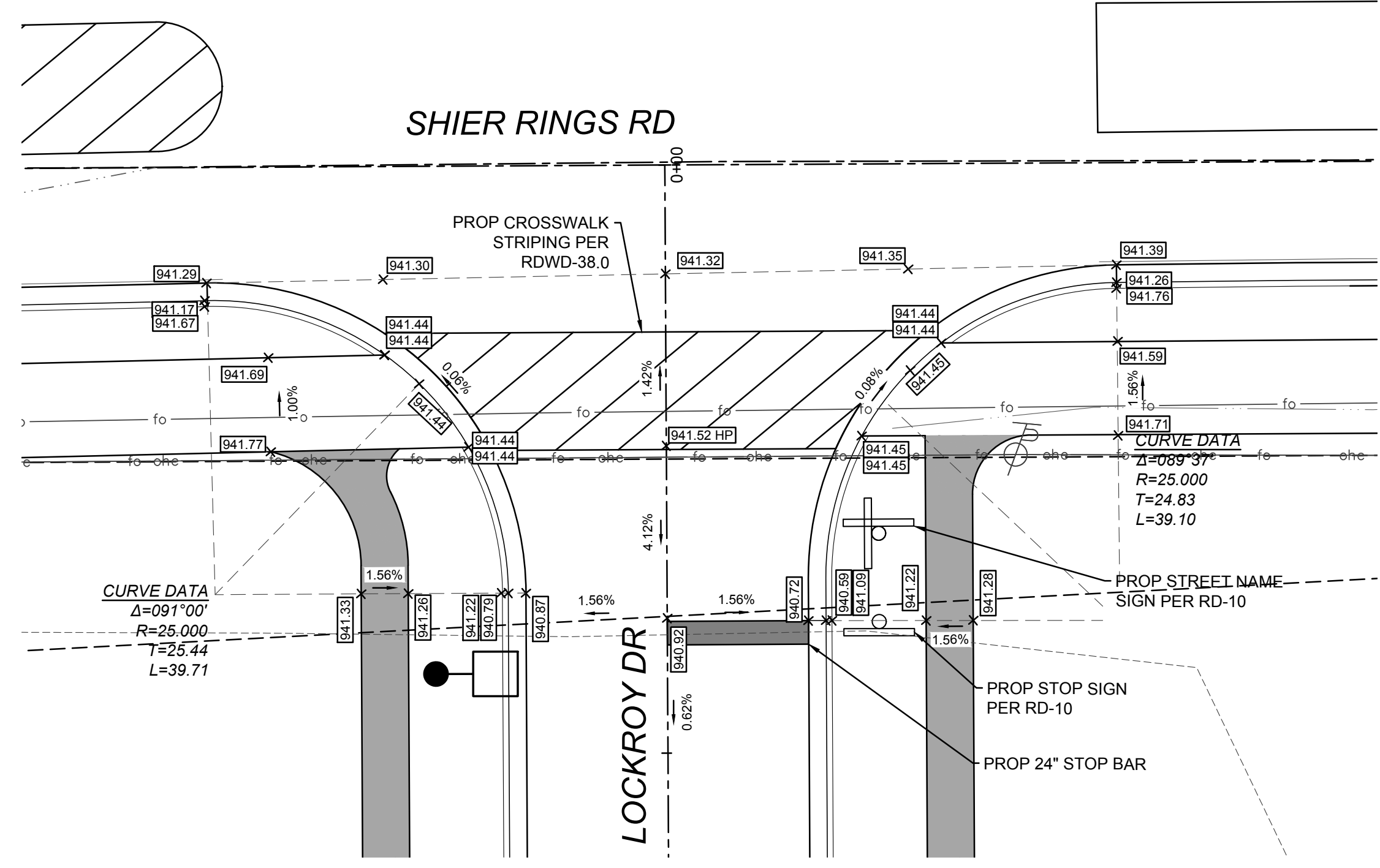
DATE: 11/1/2021
 DRAWN BY: ALH
 CHECKED BY: JRP
 JOB NUMBER: 2019.01745

C302

PLOT SCALE: 1"=40' DATE: 11/1/21 - 1:47 PM EDITED BY: MROCHE DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019\01745.CE.P&P.DWG

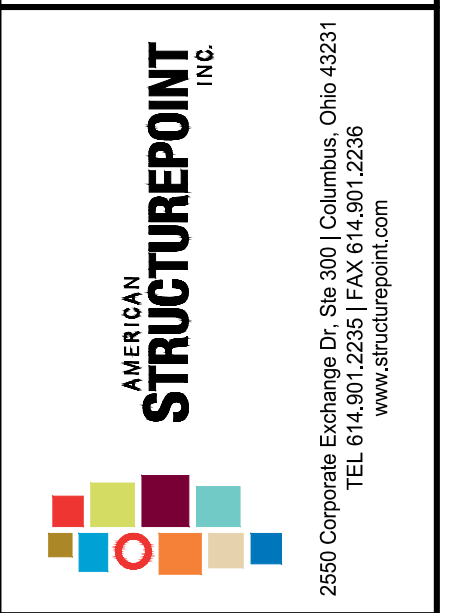
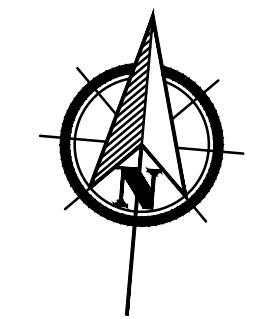
ROAD 2 STA 3+00-9+25

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 1:49 PM EDITED BY: MROCHE DRAWING FILE: O:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019.01745.CE.INT.DWG



GRADING LEGEND

- XXX— PROPOSED MAJOR CONTOUR
- - -XXX- - - EXISTING MAJOR CONTOUR
- XXX— PROPOSED MINOR CONTOUR
- - -XXX- - - EXISTING MINOR CONTOUR
- FFE=XXXX FINISHED FLOOR ELEVATION
- XXXX SPOT ELEVATION
- XXXX TC TOP OF CASTING ELEVATION
- XXXX HP HIGH POINT ELEVATION
- XXXX ME MATCH EXISTING ELEVATION
- XXX TOP OF CURB ELEVATION
- XXX BOTTOM OF CURB ELEVATION
- XXX TW TOP OF WALL ELEVATION
- XXX BW BOTTOM OF WALL ELEVATION
- X.XX% SLOPE ARROWS
- FLOW ARROW
- ← FLOOD ROUTE
- - - - - NORMAL POOL
- o o o — SWALE
- ATG ADJUST TO GRADE



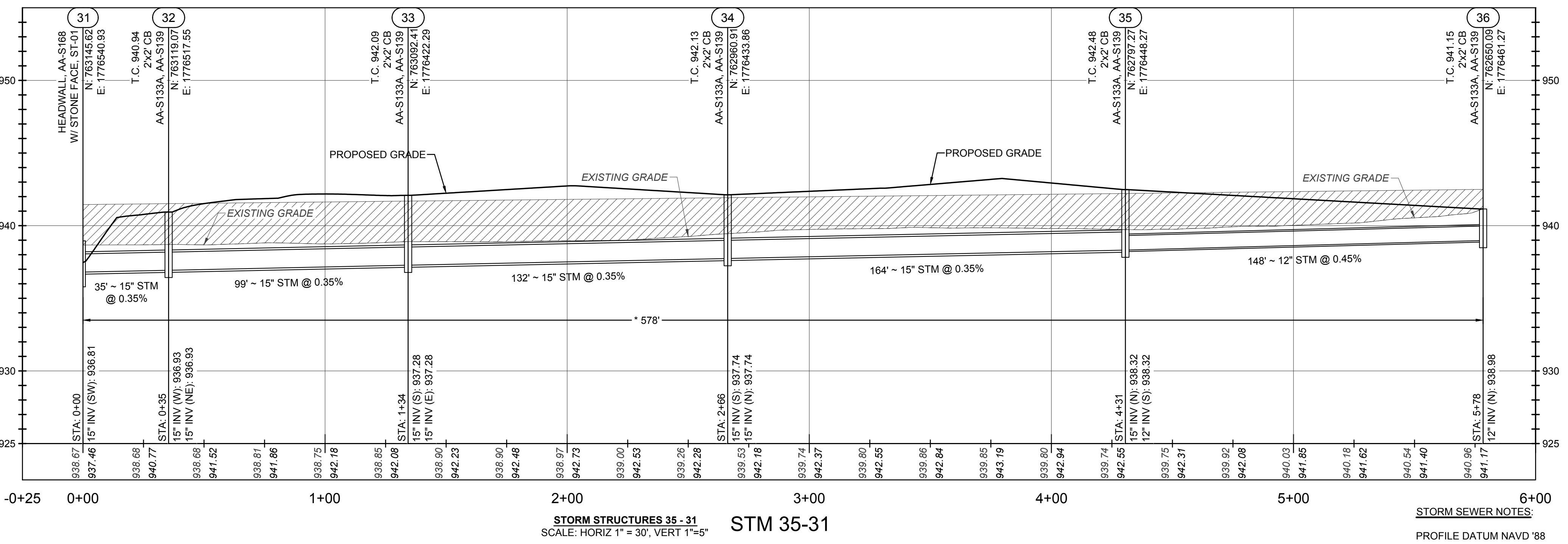
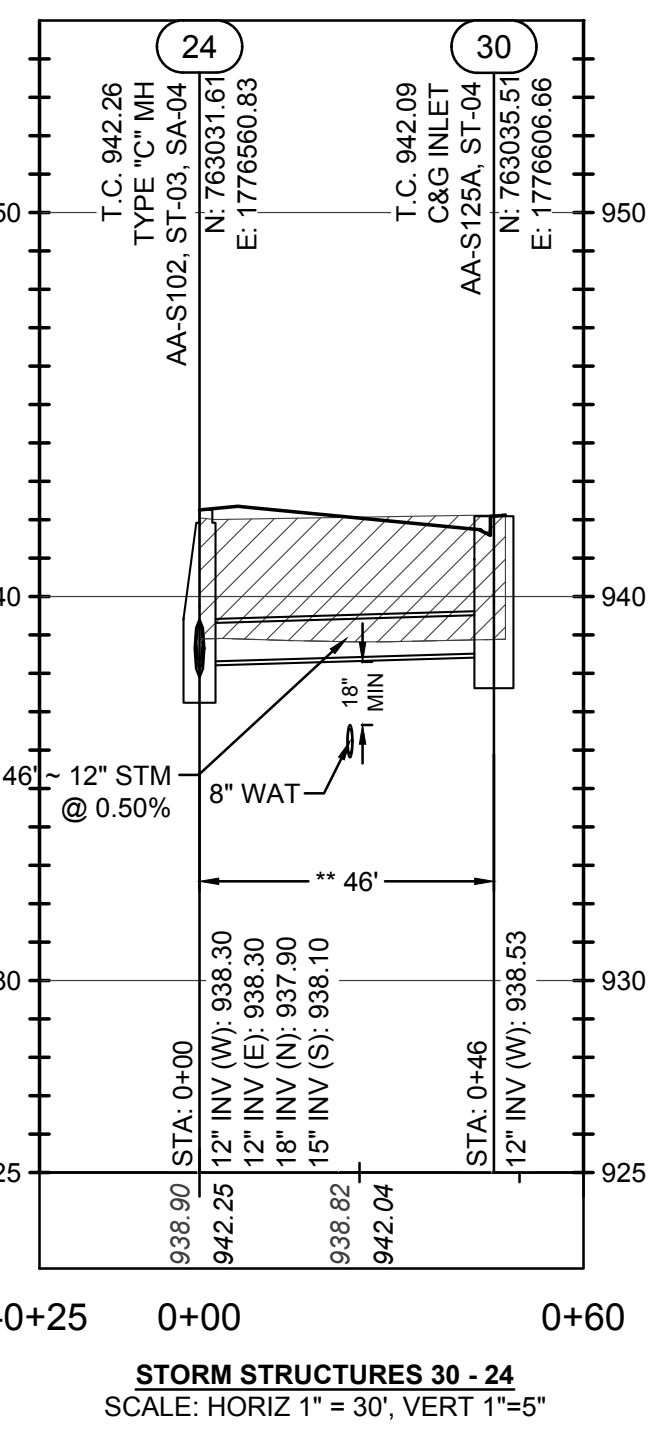
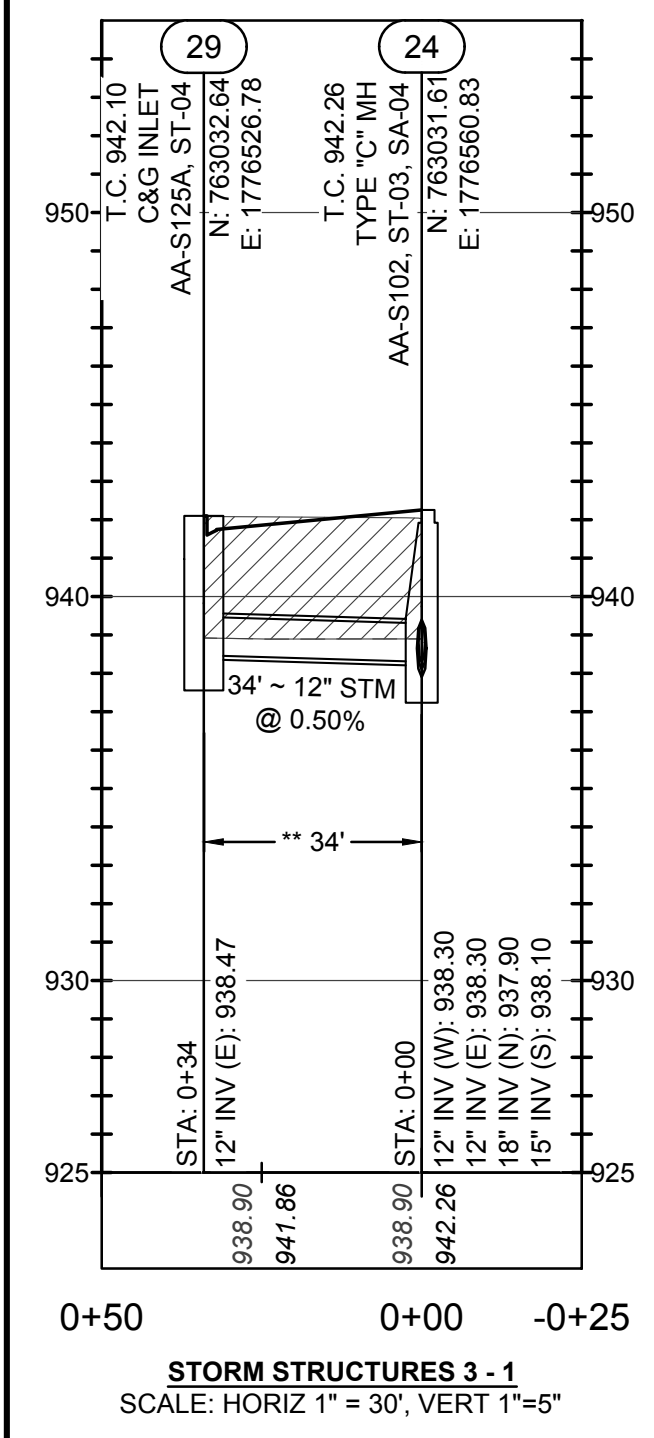
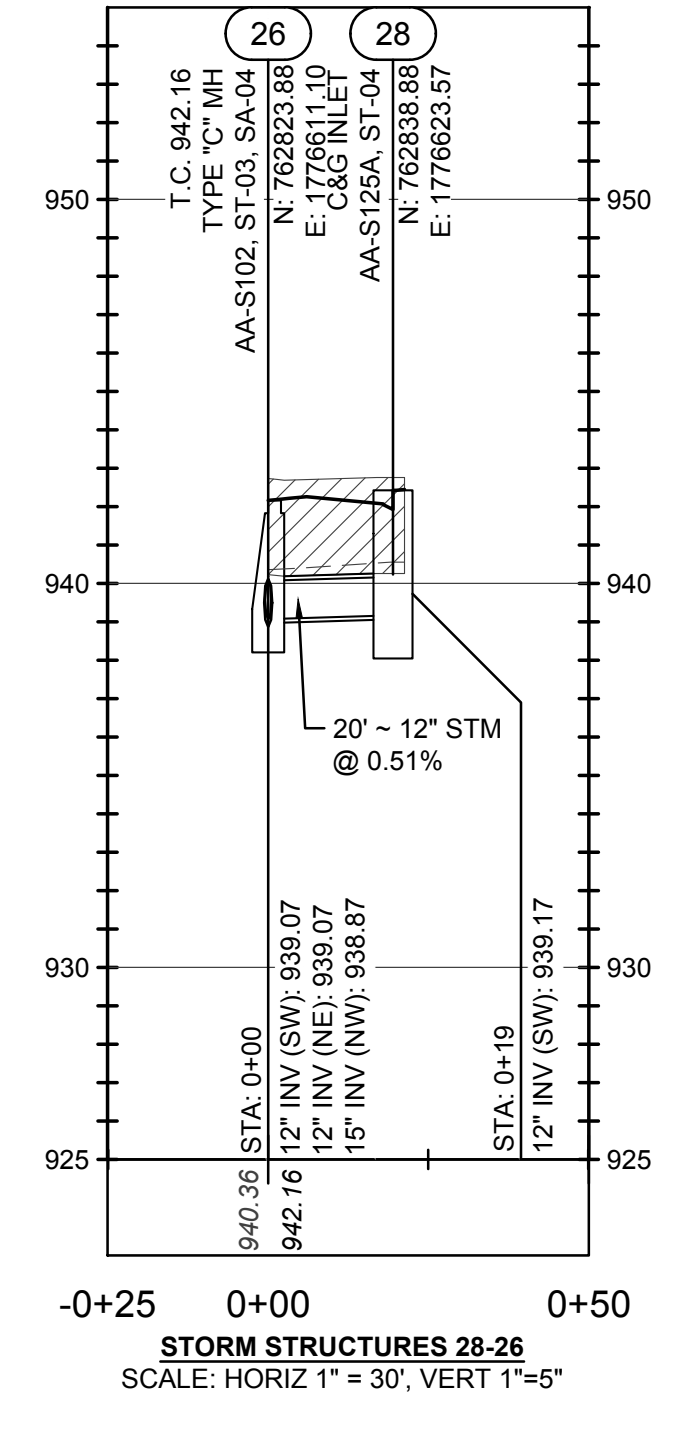
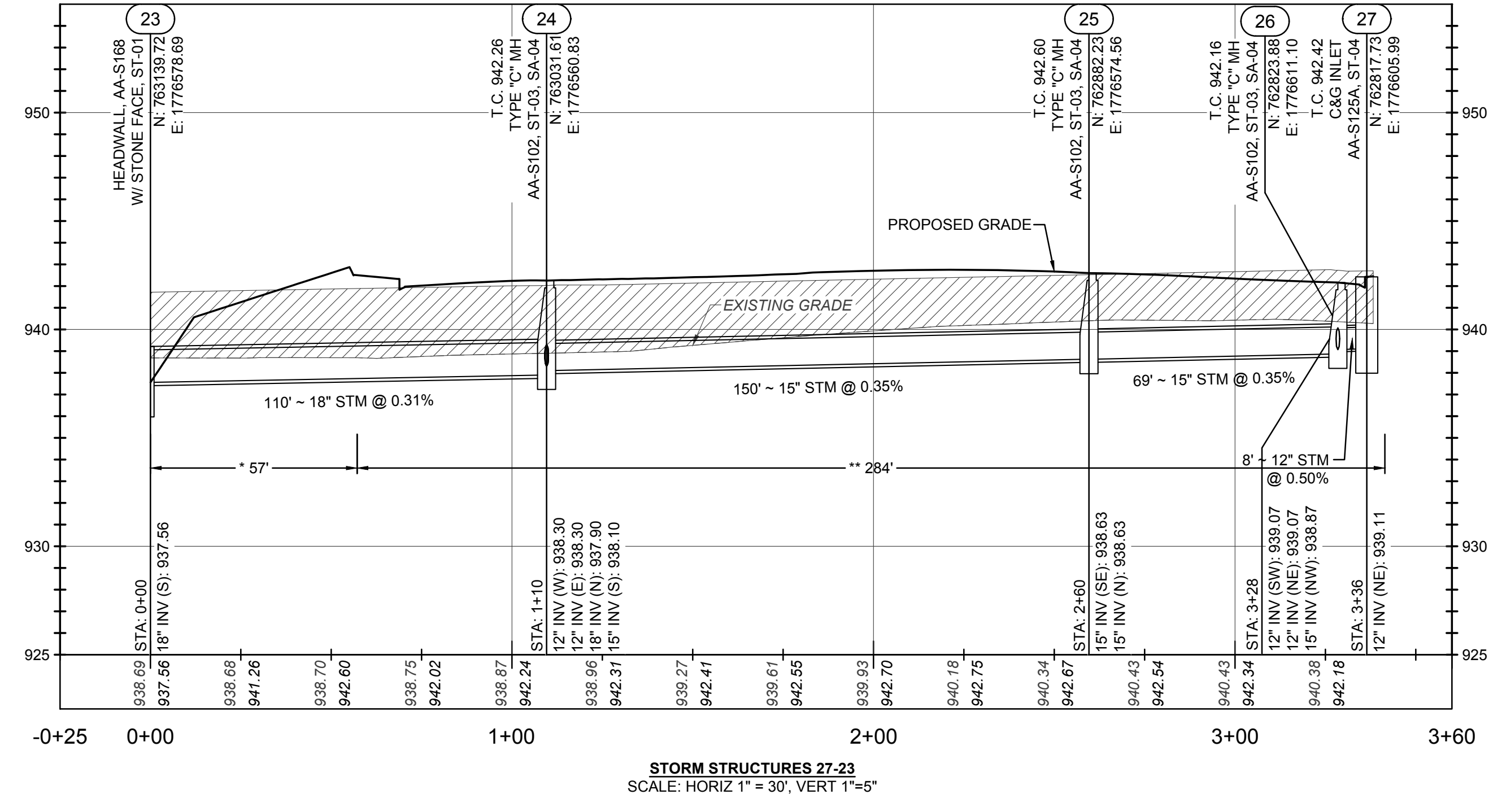
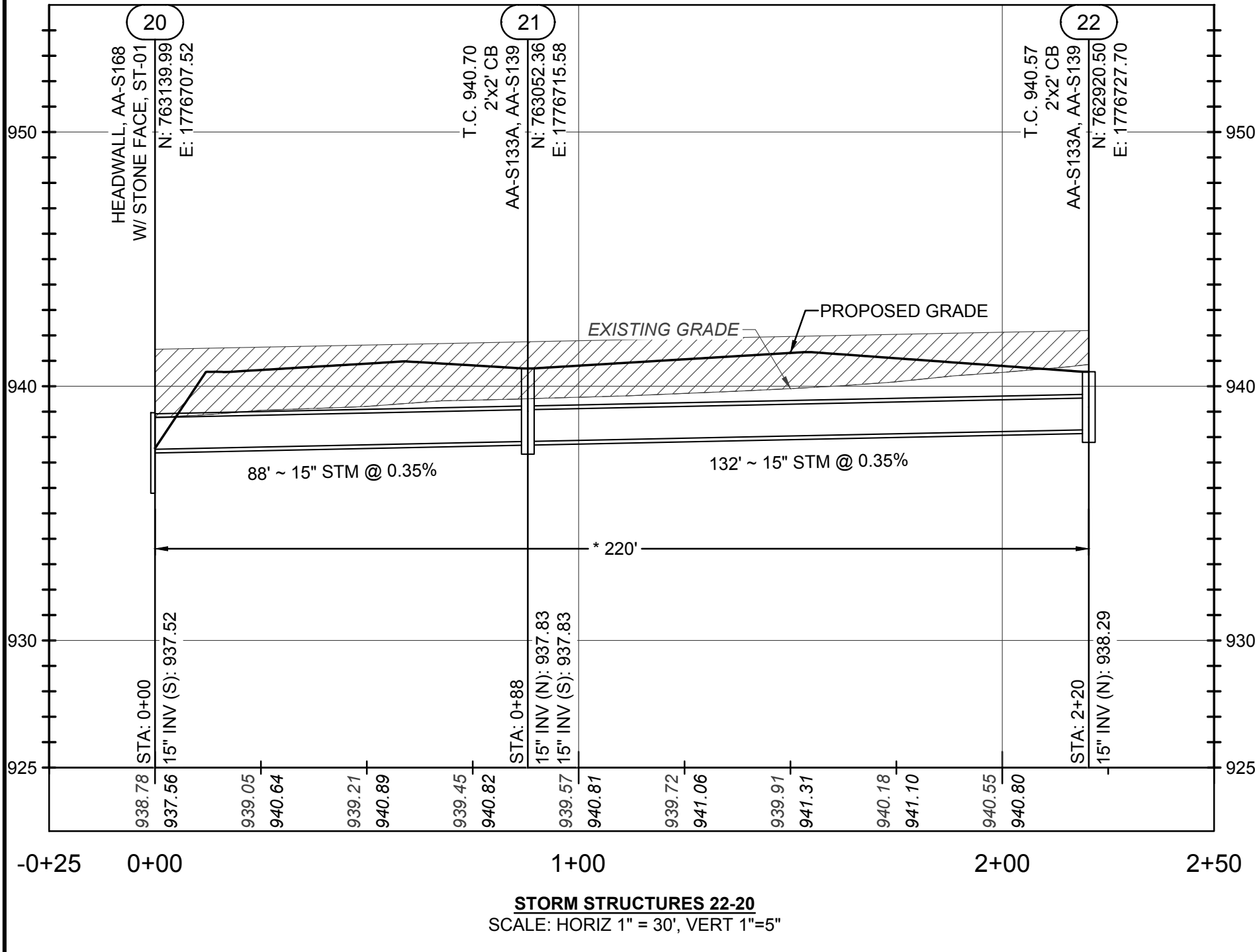
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
INTERSECTION DETAILS

REVISIONS	DATE	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C401

PLOT SCALE: 1:1; EDIT DATE: 10/31/21 - 7:13 PM; EDITED BY: MROCHIE; DRAWING FILE: 0:20/010745.DWG; DRAWINGS/CIVIL/CONSTRUCTION/DOCUMENTS/STREET, STORM, & WATER/010745.CE/STM/PROFILES.DWG



STORM SEWER NOTES:
 PROFILE DATUM NAVD '88
 MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.
 ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
 * COMPACTED BACKFILL PER CMS ITEM 911.
 ** COMPACTED BACKFILL PER CMS ITEM 912.
 ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.
 NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C501

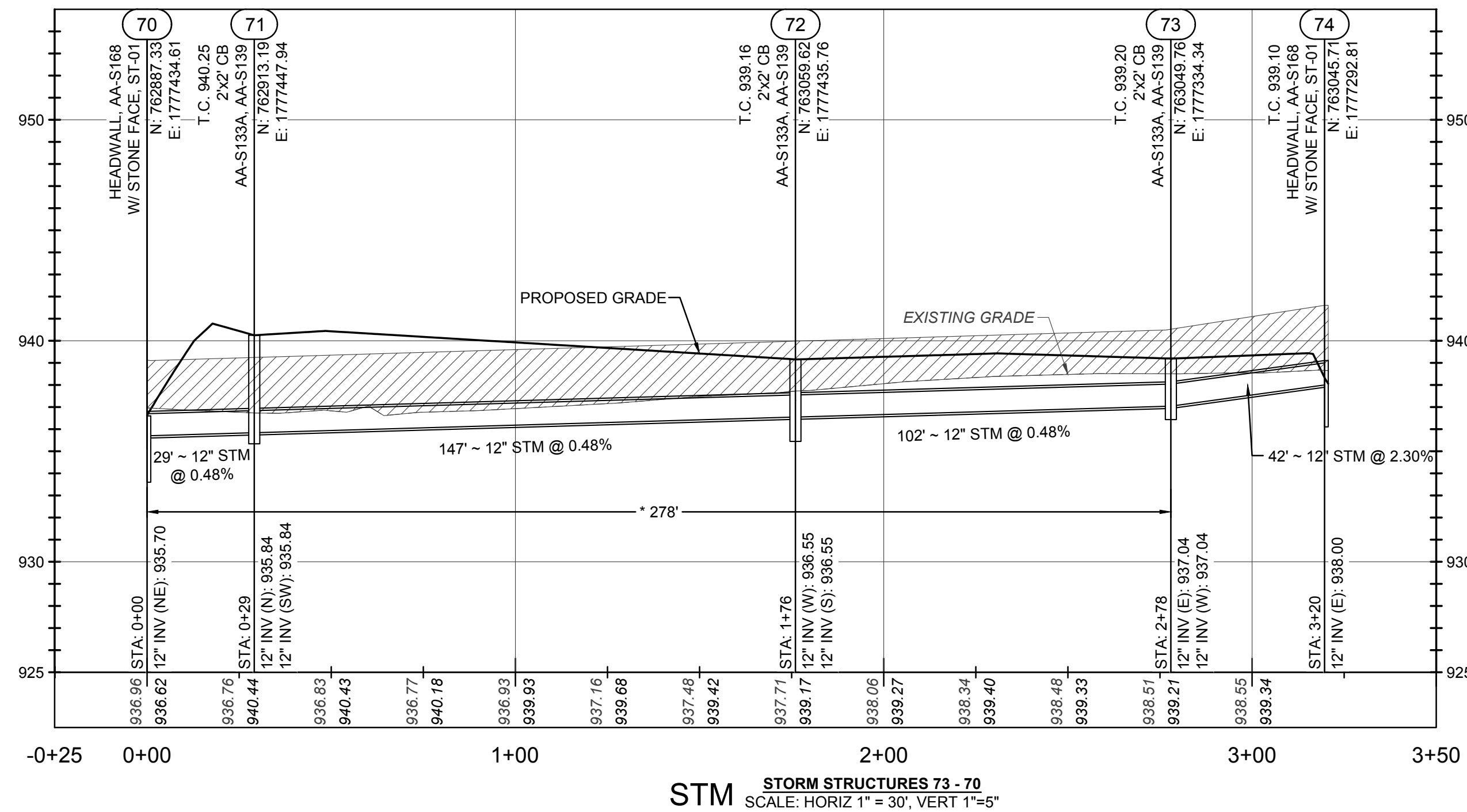
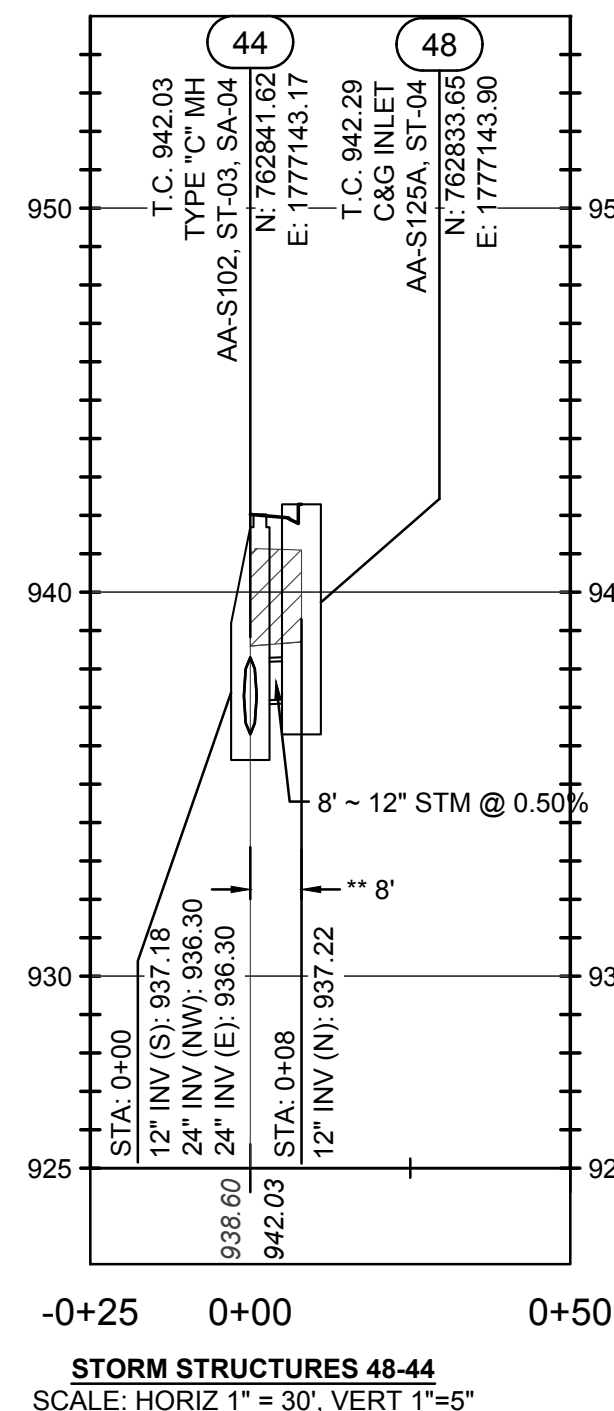
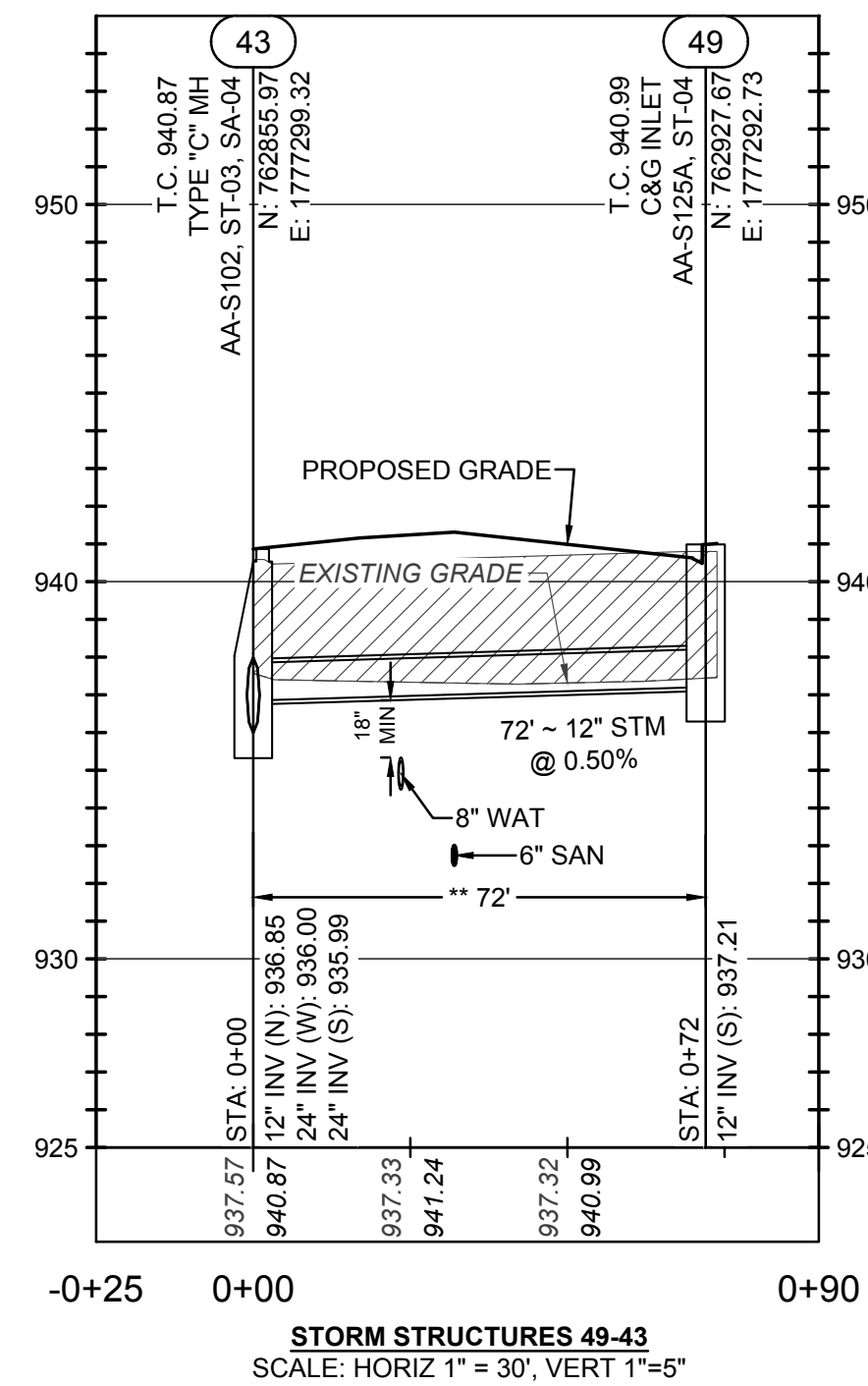
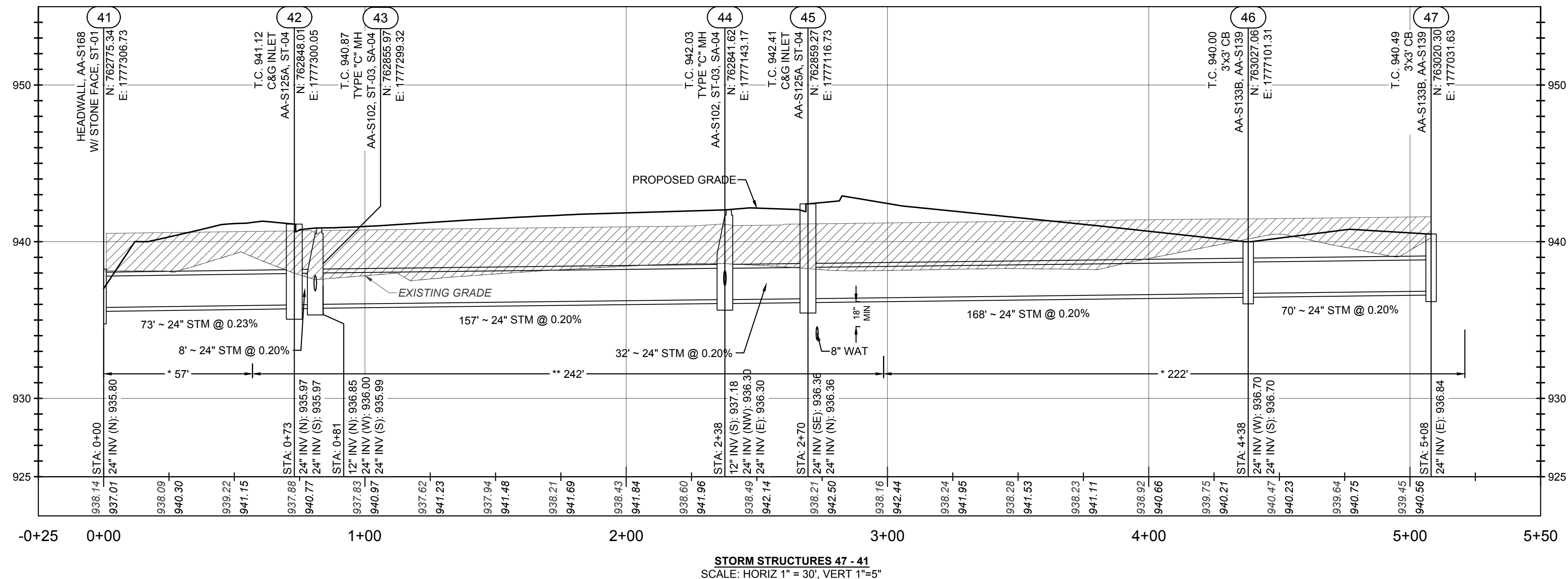
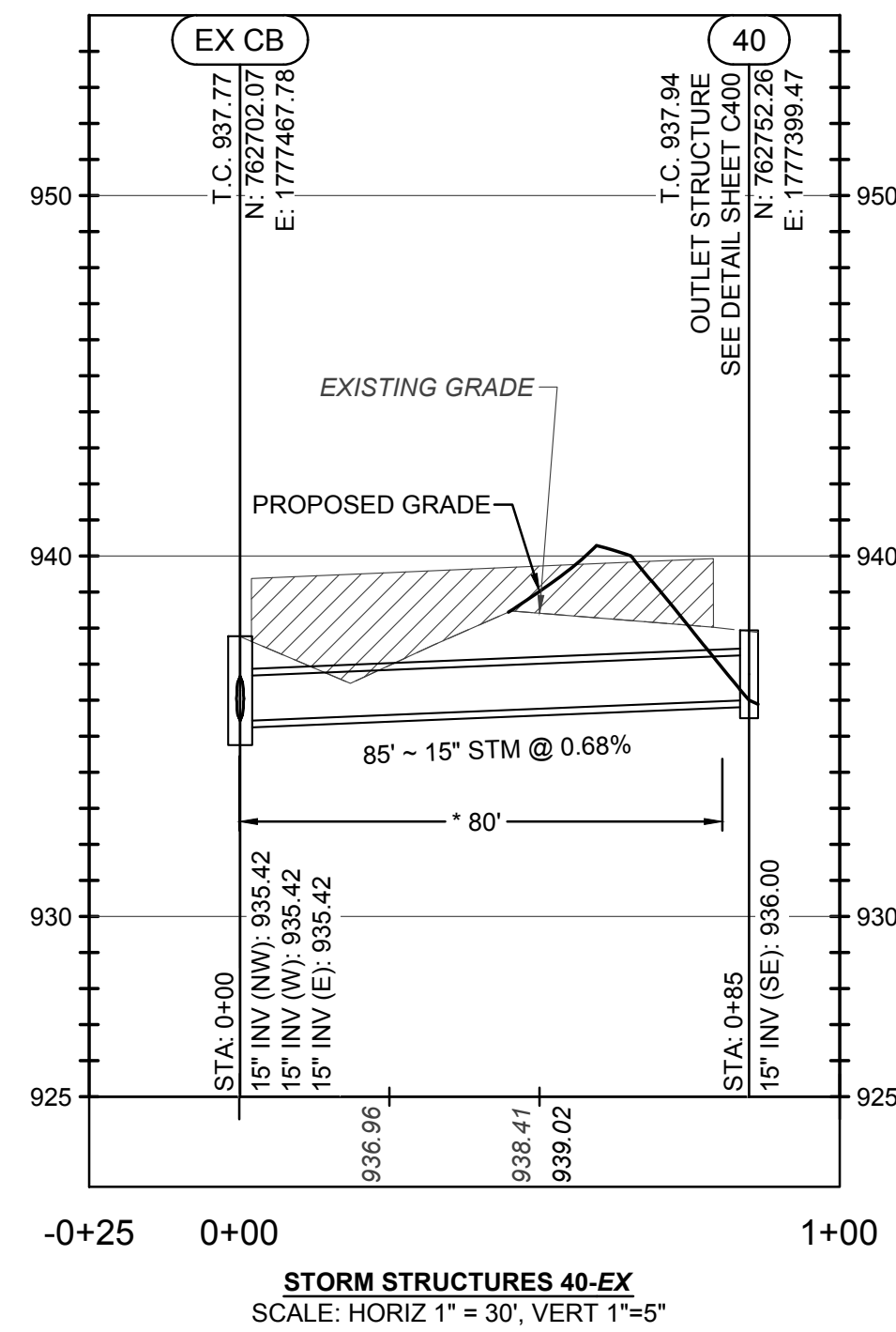
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
STORM SEWER PROFILES

AMERICAN STRUCTUREPOINT INC.

2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221
 TEL: 614.891.1226
 WWW.STRUCTUREPOINT.COM

ROCKFORD HOMES

PLOT SCALE: 1"=30' DATE: 10/31/21 7:13 PM EDITED BY: MROOCHIE DRAWING FILE: 0/20/19/01745D.DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STROM, & WATER\019.01745.CE\STM\PROFILES.DWG



STORM SEWER NOTES:
 PROFILE DATUM NAVD '88
 MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.
 ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
 * COMPACTED BACKFILL PER CMS ITEM 911.
 ** COMPACTED BACKFILL PER CMS ITEM 912.
 ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.
 NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

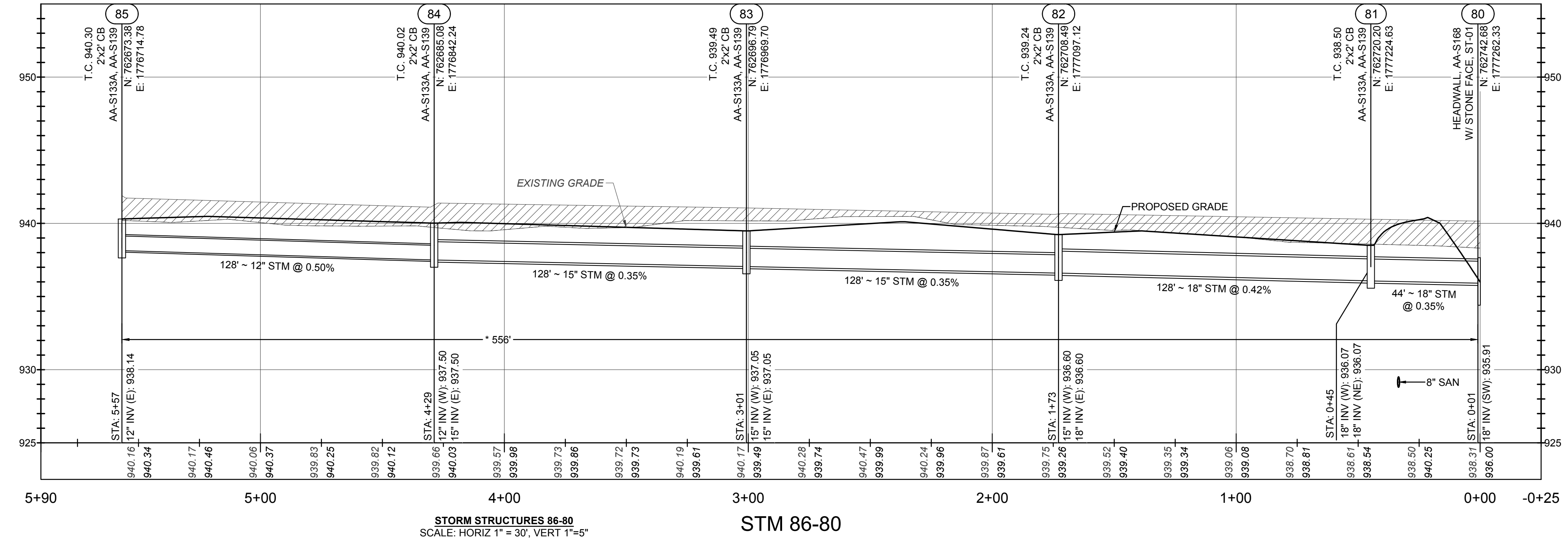
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C502

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
STORM SEWER PROFILES



PLOT SCALE: 1:1 EDIT DATE: 10/8/21 7:13 PM EDITED BY: MROCHIE DRAWING FILE: 0/20/19/01745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STROM, & WATER\2019\01745 CE STM PROFILES.DWG



STORM STRUCTURES 86-80
SCALE: HORIZ 1" = 30', VERT 1" = 5'

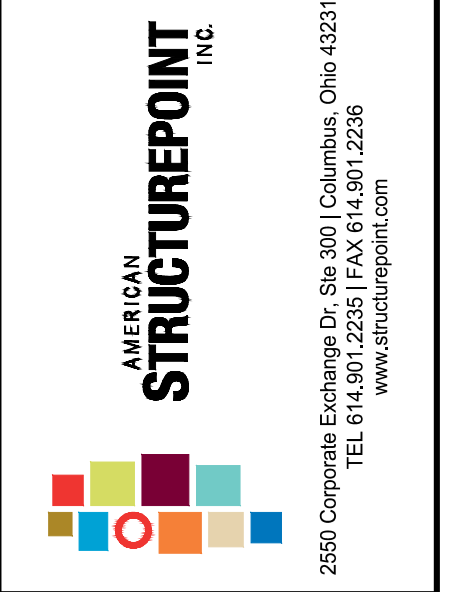
STORM SEWER NOTES:
 PROFILE DATUM NAVD '88
 MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.
 ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
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 ** COMPACTED BACKFILL PER CMS ITEM 912.
 ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.
 NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

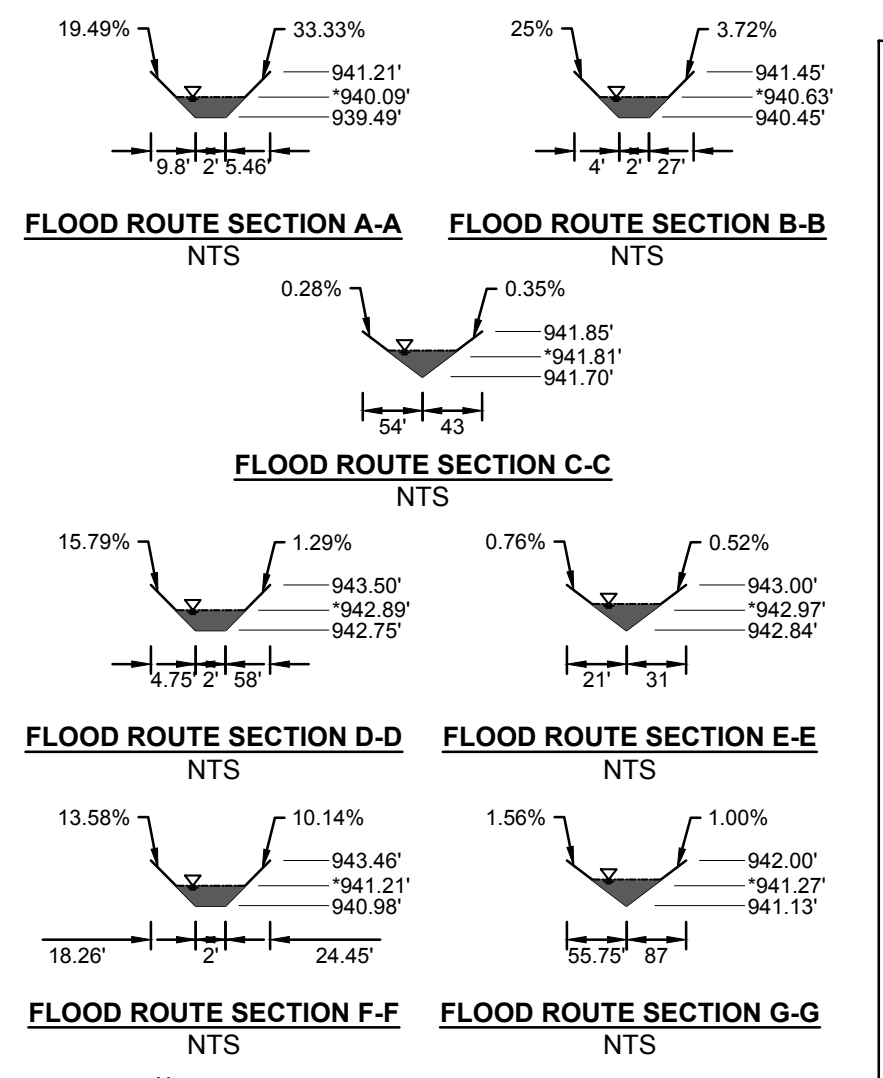
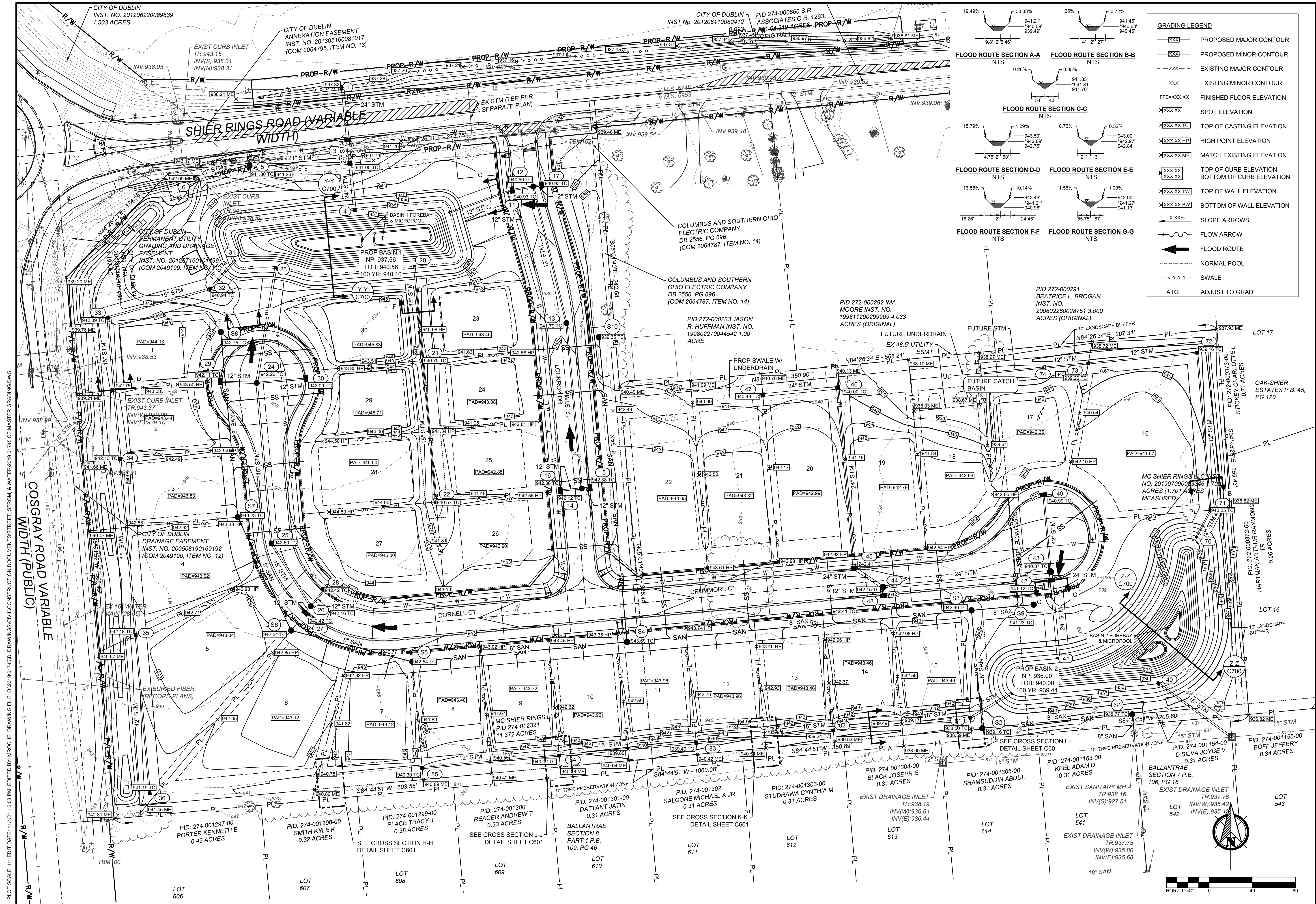
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C503


PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
STORM SEWER PROFILES





GRADING LEGEND

- XXX— PROPOSED MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- EXISTING MAJOR CONTOUR
- XXX--- EXISTING MINOR CONTOUR
- FFE=XXX.XX FINISHED FLOOR ELEVATION
- XXXXXX SPOT ELEVATION
- XXXXXX TC TOP OF CASTING ELEVATION
- XXXXXX HP HIGH POINT ELEVATION
- XXXXXX ME MATCH EXISTING ELEVATION
- XXX.XX TOP OF CURB ELEVATION
- XXX.XX BOTTOM OF CURB ELEVATION
- XXX.XX TW TOP OF WALL ELEVATION
- XXX.XX BW BOTTOM OF WALL ELEVATION
- XXX% SLOPE ARROWS
- FLOW ARROW
- ← FLOOD ROUTE
- NORMAL POOL
- SWALE
- ATG ADJUST TO GRADE



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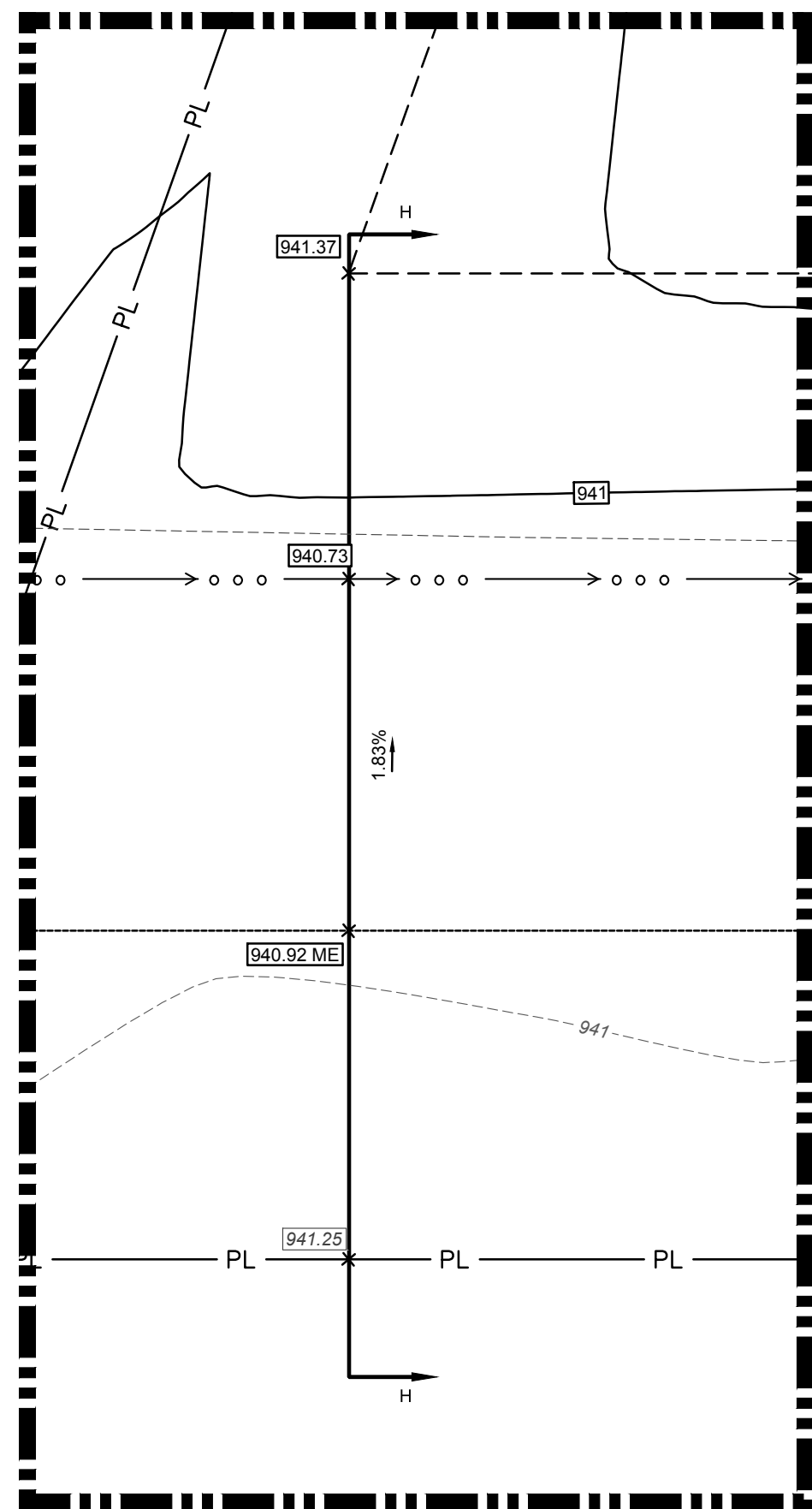
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
MASTER GRADING PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

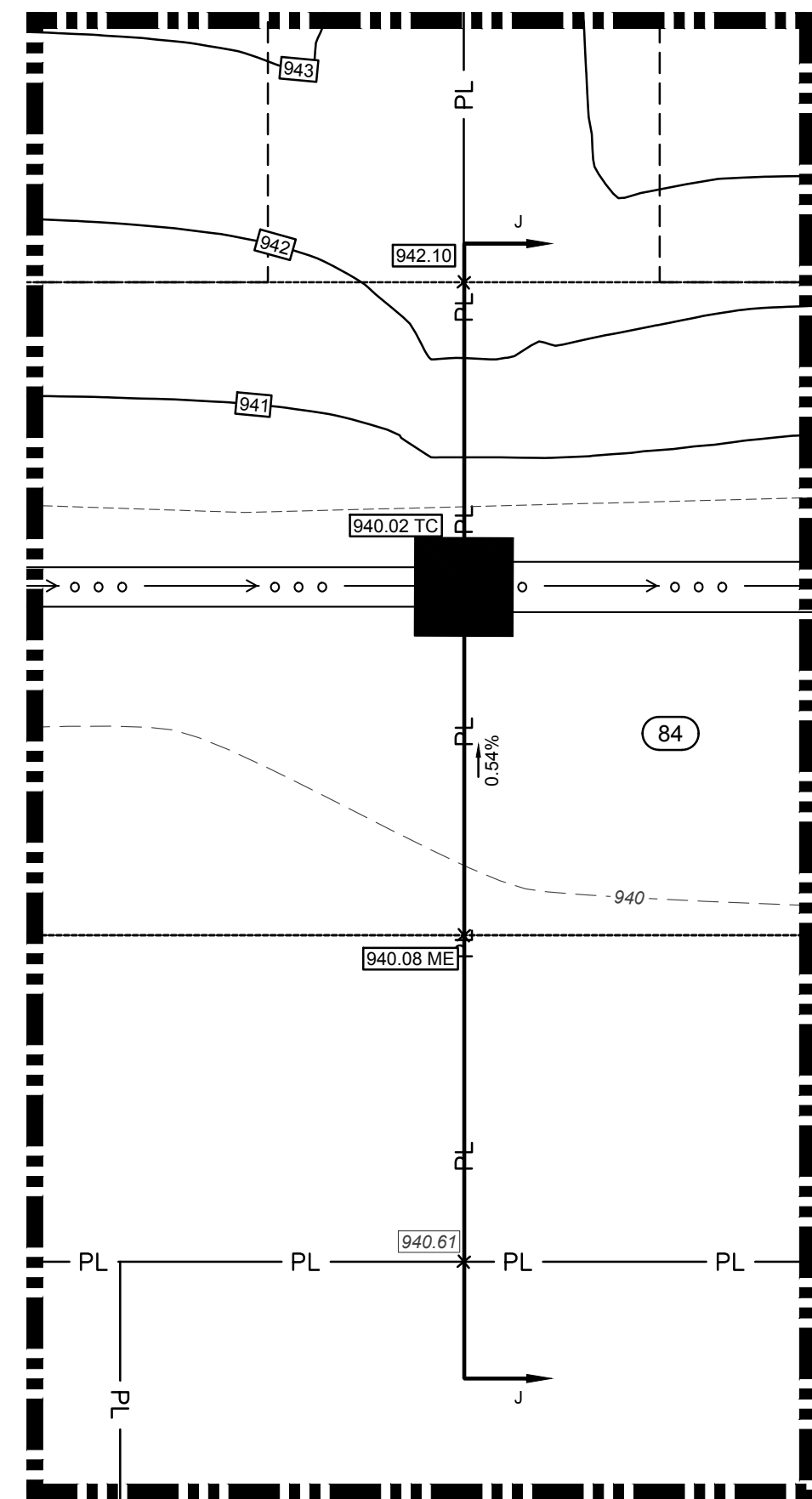
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C600

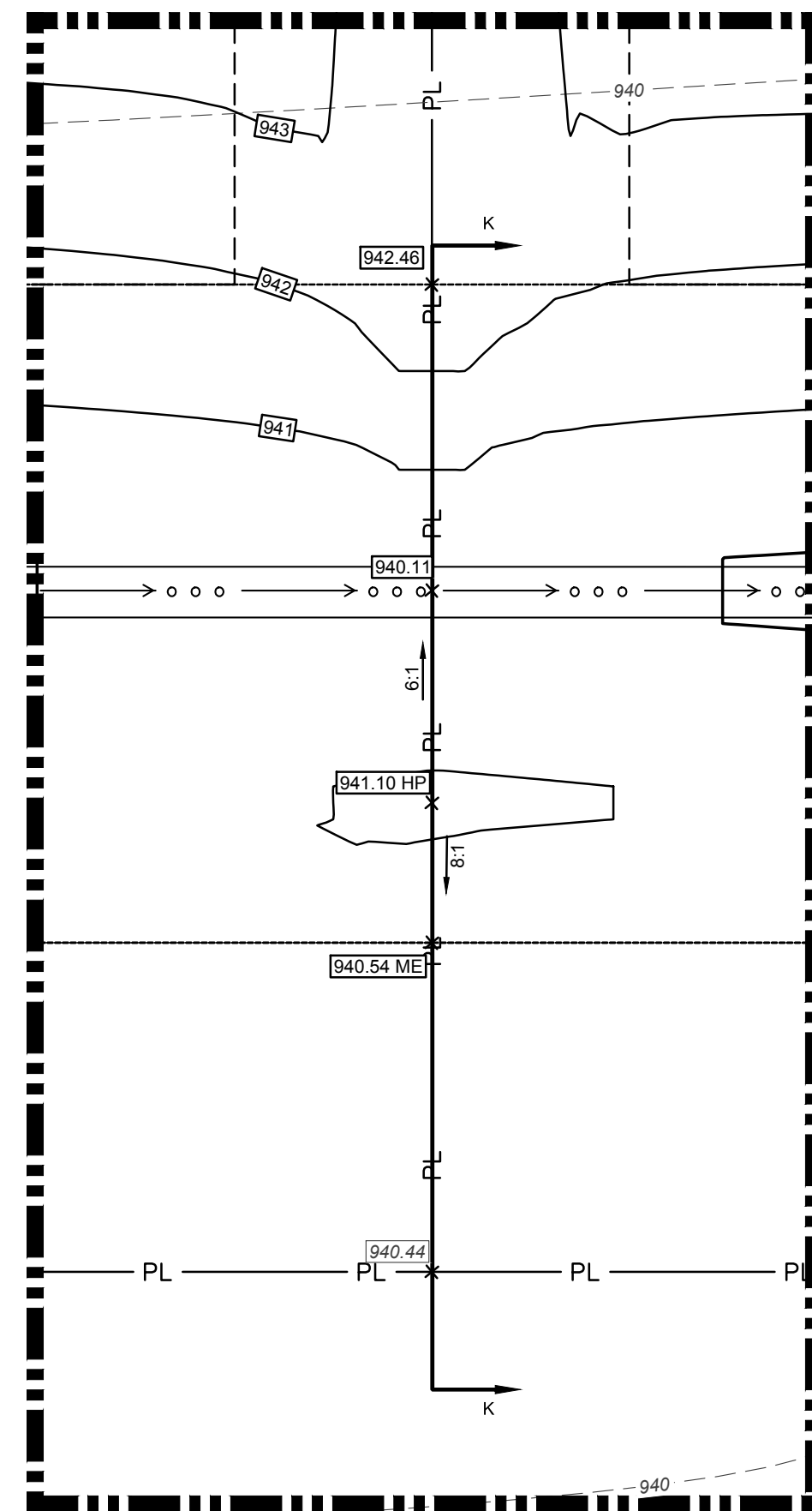
PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 2:08 PM EDITED BY: MROCHE DRAWING FILE: O:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENT\STREET, STORM, & WATER\2019.01745.CE.MASTER.GRADING.DWG



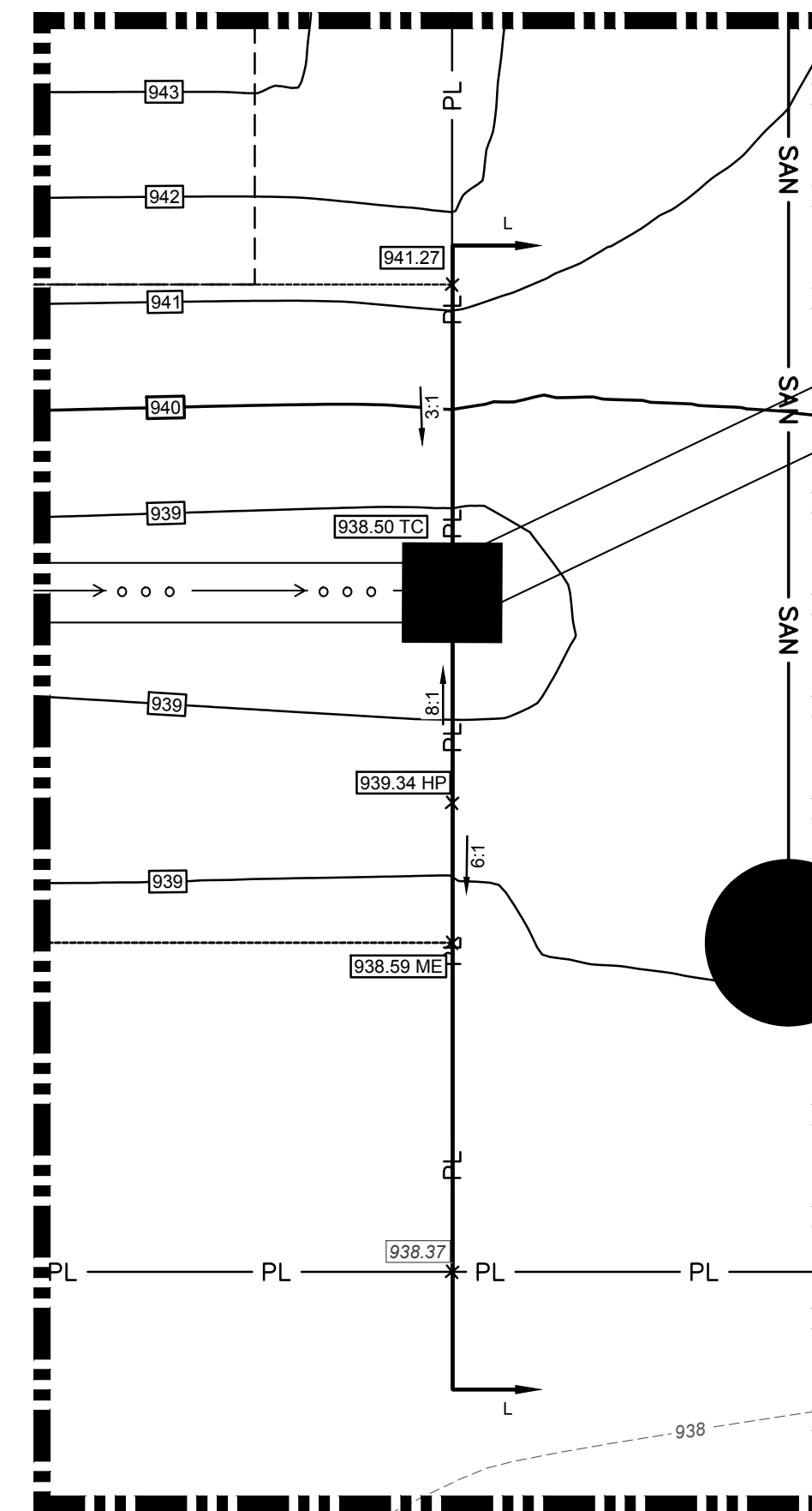
CROSS SECTION H-H
SCALE: 1"=5'



CROSS SECTION J-J
SCALE: 1"=5'

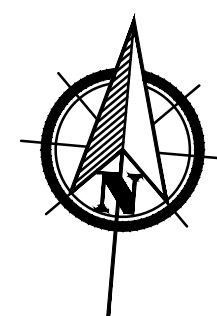


CROSS SECTION K-K
SCALE: 1"=5'



CROSS SECTION L-L
SCALE: 1"=5'

GRADING LEGEND	
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
FFE=XXX.XX	FINISHED FLOOR ELEVATION
	SPOT ELEVATION
	TOP OF CASTING ELEVATION
	HIGH POINT ELEVATION
	MATCH EXISTING ELEVATION
	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	TOP OF WALL ELEVATION
	BOTTOM OF WALL ELEVATION
	SLOPE ARROWS
	FLOW ARROW
	FLOOD ROUTE
	NORMAL POOL
	SWALE
ATG	ADJUST TO GRADE



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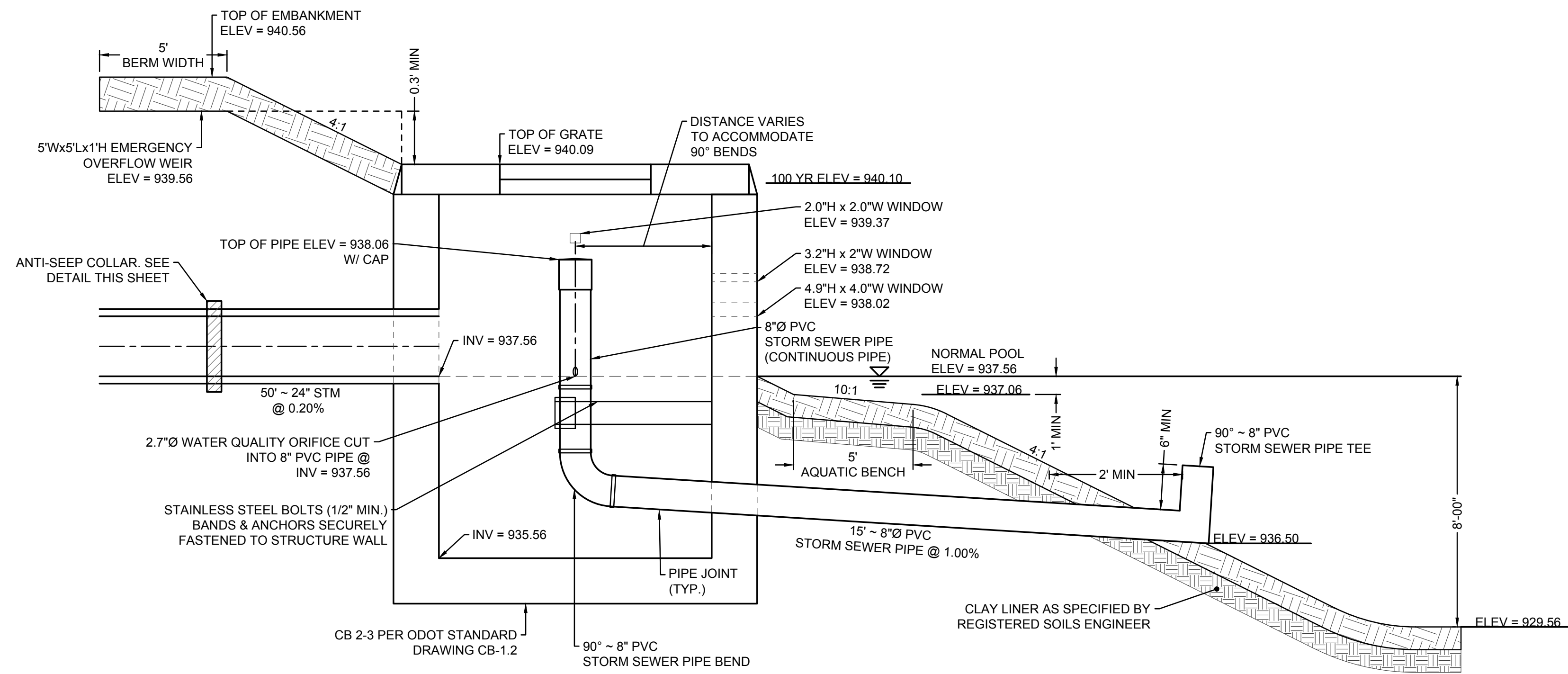
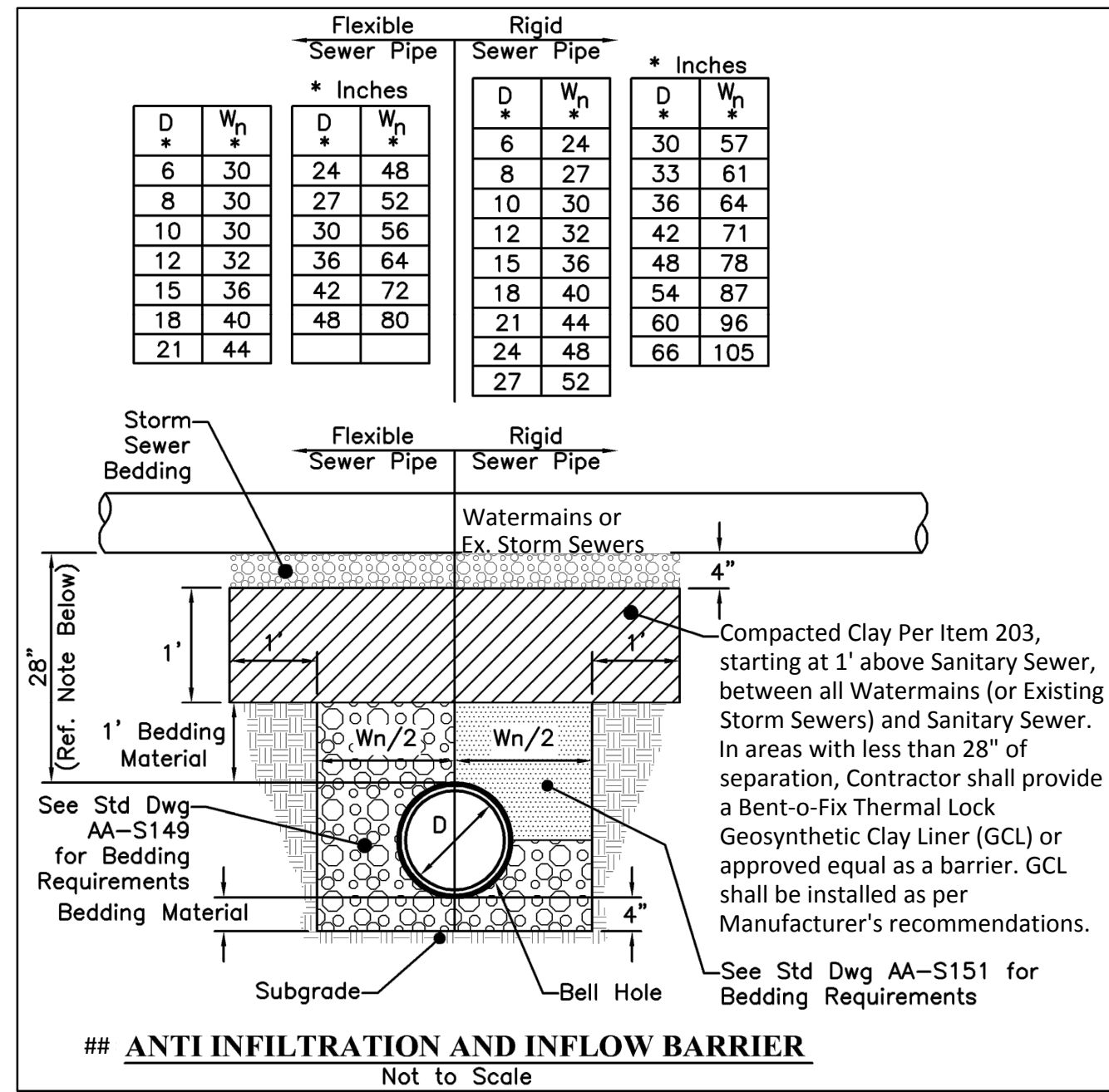
PUBLIC STREET, STORM, AND WATER
IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
DETAILED GRADING PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

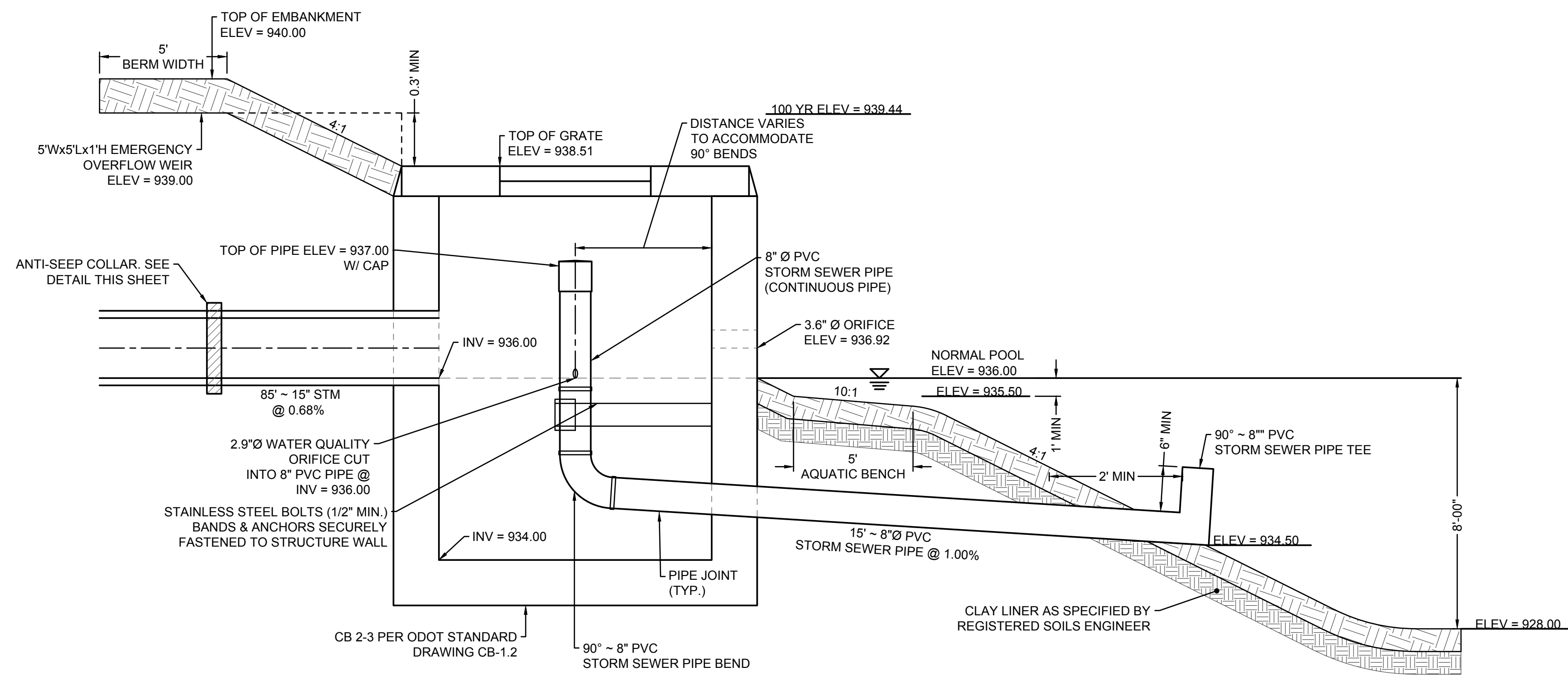
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C601

PLOT SCALE: 1:1 EDIT DATE: 10/30/21 5:30 PM EDITED BY: MROCHIE DRAWING FILE: C:\2019\01745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019.01745.CEBASIN.DWG



Y-Y WET BASIN OUTLET AND WATER QUALITY CONTROL STRUCTURE (STRUCTURE 3)
NOT TO SCALE



Z-Z WET BASIN OUTLET AND WATER QUALITY CONTROL STRUCTURE (STRUCTURE 4)
NOT TO SCALE



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INC.



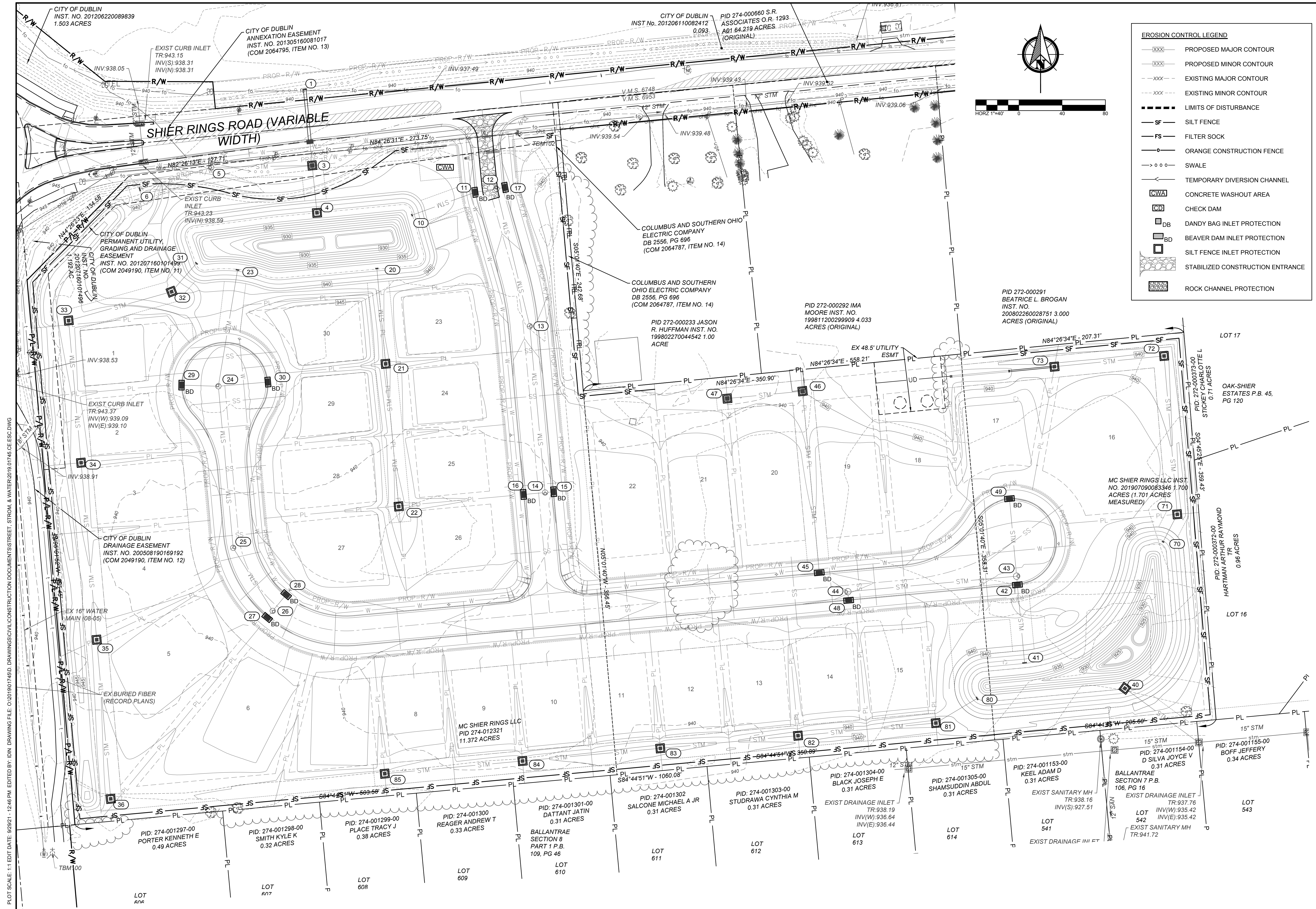
2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221
TEL: 614.881.1226
www.structurepoint.com

PUBLIC STREET, STORM, AND WATER
IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
BASIN DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

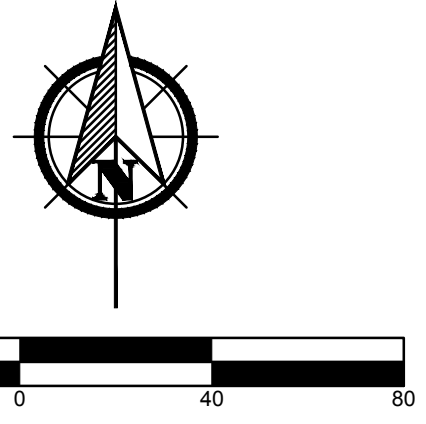
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C700




EROSION CONTROL LEGEND

- XXX— PROPOSED MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- EXISTING MAJOR CONTOUR
- XXX--- EXISTING MINOR CONTOUR
- - - - - LIMITS OF DISTURBANCE
- SF - SILT FENCE
- FS - FILTER SOCK
- O - ORANGE CONSTRUCTION FENCE
- > o o - SWALE
- < - TEMPORARY DIVERSION CHANNEL
- [CWA] CONCRETE WASHOUT AREA
- [CD] CHECK DAM
- [DB] DANDY BAG INLET PROTECTION
- [BD] BEAVER DAM INLET PROTECTION
- [] SILT FENCE INLET PROTECTION
- [] STABILIZED CONSTRUCTION ENTRANCE
- [] ROCK CHANNEL PROTECTION



PLOT SCALE: 1"=100' DATE: 9/29/21 - 12:46 PM EDITED BY: IDN DRAWING FILE: 0:2019016745D.DRAWINGSCIVILCONSTRUCTION DOCUMENTS\STREET, STROM, & WATER\2019 07\15 CEESC.DWG



AMERICAN STRUCTUREPOINT INC.

2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221
TEL: 614.961.2226 | WWW.STRUCTUREPOINT.COM

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

AYRSHIRE FARMS

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION & SEDIMENT CONTROL PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
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C800

SITE NARRATIVE

PLAN DESIGNER
 AMERICAN STRUCTUREPOINT, INC.
 2550 CORPORATE EXCHANGE DR., STE 300
 COLUMBUS, OHIO 43231
 CONTACT: BENJAMIN J. MILLER
 PHONE: (614) 901-2235
 EMAIL: BMILLER@STRUCTUREPOINT.COM

OWNER/ DEVELOPER
 DAN LORENZ
 9341 JEROME ROAD
 DUBLIN, OH 43017
 CONTACT: DAN LORENZ
 PHONE: (614) 989-2228
 EMAIL: DAN@JOEKNOWSENERGY.COM

EXISTING SITE CONDITIONS: THE EXISTING SITE CONSISTS OF A GRASSY FIELD AND SPORADIC TREES. THE SITE CURRENTLY DRAINS FROM NORTH TO SOUTH TO AN EXISTING ON-SITE BASIN. ADDITIONALLY, THE BASIN SERVES THE SITE AS WELL AS APPROXIMATELY 5 ACRES OF OFFSITE AREA. THE BASIN ULTIMATELY OUTLETS INTO NORTH FORK INDIAN RUN VIA UNNAMED CREEKS & DITCHES.

PROJECT DESCRIPTION: ACTIVITIES INCLUDE THE CONSTRUCTION OF A 17 LOT SUBDIVISION WITH ASSOCIATED UTILITIES, STREETS, SIDEWALK AND PAVEMENT IMPROVEMENTS. APPROXIMATELY 5.022 ACRES OF THE SITE WILL BE DISTURBED.

RECEIVING STREAM: SERIES OF UNNAMED DITCHES EVENTUALLY DRAINING TO INDIAN RUN.

DISTURBED AREA: 5.022 ACRES

SITE BMPS: FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM THE CITY OF DUBLIN AND OHIO EPA OF NEW LOCATIONS OF BMPS.

ADJACENT AREAS:
 EAST: RURAL AREA
 NORTH: JEROME ROAD
 WEST: RURAL AREA
 SOUTH: RESIDENTIAL SUBDIVISION

GRADING REQUIREMENTS: DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE, ROCK CHECK DAMS, INLET PROTECTION, AND TEMPORARY SEDIMENT BASINS AS SHOWN ON THE PLAN. AREAS WILL BE STABILIZED WHEN GRADED TO PREVENT EROSION ON THE SITE.

EROSION & SEDIMENT CONTROL MEASURES: A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING.

PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES.

ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA.

ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.

USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.

MAINTENANCE: ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS IN ACCORDANCE WITH CONSTRUCTION GENERAL PERMIT. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

GENERAL CONSTRUCTION SEQUENCE: (UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR)

- 1 - ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA.
- 2 - ADD TREE PROTECTION FENCING
- 3 - CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING.
- 4 - CLEAR AND GRUB
- 5 - STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE.
- 6 - PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN.
- 7 - INSTALL TEMPORARY SEDIMENT BASINS AND TEMPORARY OUTLET STRUCTURE.
- 8 - INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS.
- 9 - COMPLETE ALL PAVEMENT ACTIVITIES.
- 10 - COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS.
- 11 - ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS.
- 12 - PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.

SCHEDULE: THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

JURISDICTION: ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.

OEPA NOI: 4GC06816AG

RUNOFF COEFFICIENTS:
 PRE-DEVELOPED: CN = 83
 POST-DEVELOPED: CN = 90
 PRE-DEVELOPED IMPERVIOUS AREA: 0.765 ACRES
 POST-DEVELOPED IMPERVIOUS AREA: 2.745 ACRES

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
4. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
5. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.
6. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.
7. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.
9. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
10. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.
11. TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.
12. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.
13. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.

POST CONSTRUCTION STORM WATER QUALITY MANAGEMENT - DETENTION BASIN NOTES:

THE DETENTION BASIN WILL ACT AS A STORM WATER QUALITY BASIN. THE BASIN WAS SIZED TO TREAT WATER QUALITY VOLUME IN ADDITION TO PROVIDING STORM WATER DETENTION. AN ADDITIONAL 20% OF VOLUME WAS PROVIDED FOR SEDIMENT LOADING. THE WATER QUALITY VOLUME WILL DRAIN THROUGH A SMALL DIAMETER ORIFICE ON THE OUTLET STRUCTURE.

1. GENERAL MAINTENANCE: INSPECT BASIN AND OUTLET STRUCTURE ONCE PER MONTH OR AFTER RAINFALL EVENTS OF 0.5 INCHES OR GREATER. MAINTAIN DOCUMENTATION OF ALL INSPECTIONS AND MAINTENANCE.
2. BASIN MAINTENANCE: EXCAVATE AND DISPOSE SEDIMENT OFF-SITE IN ACCORDANCE WITH LOCAL STANDARDS WHEN BASIN HAS ACCUMULATED 3 INCHES OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM THE FOREBAY AND MICROPPOOL OF THE BASIN ONCE SITE HAS BEEN STABILIZED. CLEAN OUT ALL SEDIMENT CONTAINED IN THE FOREBAY AND MICROPPOOL. ALL SEDIMENT REMOVAL THEREAFTER SHALL BE LESS FREQUENT AND SHALL OCCUR WHEN BASIN FUNCTIONALITY HAS DECREASED OR ACCUMULATION HAS EXCEEDED 3 INCHES.
3. OUTLET STRUCTURE MAINTENANCE: REMOVE FLUSHED DEBRIS AND SEDIMENT FROM OUTLET STRUCTURE MINIMUM OF ONCE EVERY SIX MONTHS OR WHEN SEDIMENT ACCUMULATES TO WITHIN 6 INCHES OF OUTLET, OR IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS.

SEDIMENT AND EROSION CONTROL NOTES:

MAINTENANCE & INSPECTION PROCEDURES:
 ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:
 SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

CONTRACTORS RESPONSIBILITIES:
 THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

POST FLOOD EVENT SITE MAINTENANCE:

FOLLOWING A FLOOD EVENT, INSPECT ALL MECHANICAL EQUIPMENT THAT ARE LOCATED ON THE SITE FOR ANY DAMAGES. WALLS AND WALL PENETRATIONS SHALL ALSO BE CHECKED FOR CRACKS AND LEAKS AND REPAIRED AS NECESSARY. ALL DEBRIS THAT MAY HAVE ACCUMULATED ALONG THE SITE SHALL BE GATHERED AND DISPOSED OF ACCORDING TO CITY STANDARDS. CHECK AND ENSURE THAT ALL DRAINAGE STRUCTURES ARE IN STANDARD OPERATION AND REPAIR ANY DAMAGES OR CLOGS THAT MAY HAVE OCCURRED DURING FLOODING.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION

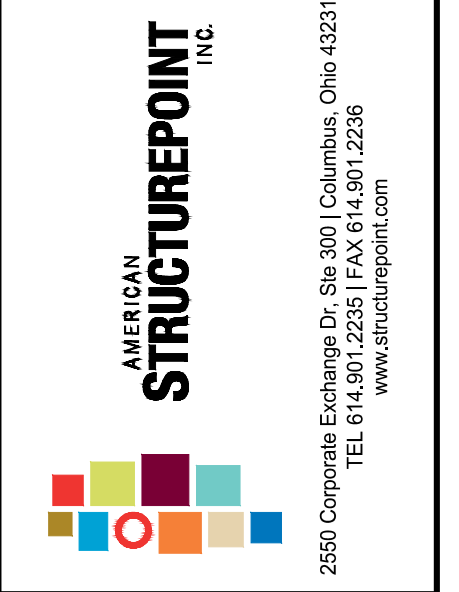
CONTRACTOR TO FOLLOW REGULATIONS FOR TEMPORARY STABILIZATION SET FORTH IN OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL CHAPTER 7 SECTION 8.

PERMANENT STABILIZATION

CONTRACTOR TO FOLLOW REGULATIONS FOR TEMPORARY STABILIZATION SET FORTH IN OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL CHAPTER 7 SECTION 10.

PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	LBS/ACRE	LB/1,000 SF	
GENERAL USE			
CREEPING RED FESCUE	20-40	1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY
RYEGRASS	10-20	1/4-1/2	
KENTUCKY BLUEGRASS	20-40	1/2-1	
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7 YEARS THEREAFTER
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1-1 1/4	
CROWN VETCH	10-20	1/4-1/2	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
FLAT PEA	20-25	1/2-3/4	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1-1 1/4	
TURF TYPE (DWARF) FESCUE	90	2 1/4	
KENTUCKY BLUEGRASS	5	0.1	
LAWNS			
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
PERENNIAL RYEGRASS		2	
KENTUCKY BLUEGRASS	100-120	2	
CREEPING RED FESCUE		1-1/2	
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1,000 SF	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
AUGUST 16 TO NOVEMBER 1	ANNUAL RYGRASS	1	40 LB
	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
NOVEMBER 1 TO SPRING SEEDING	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			



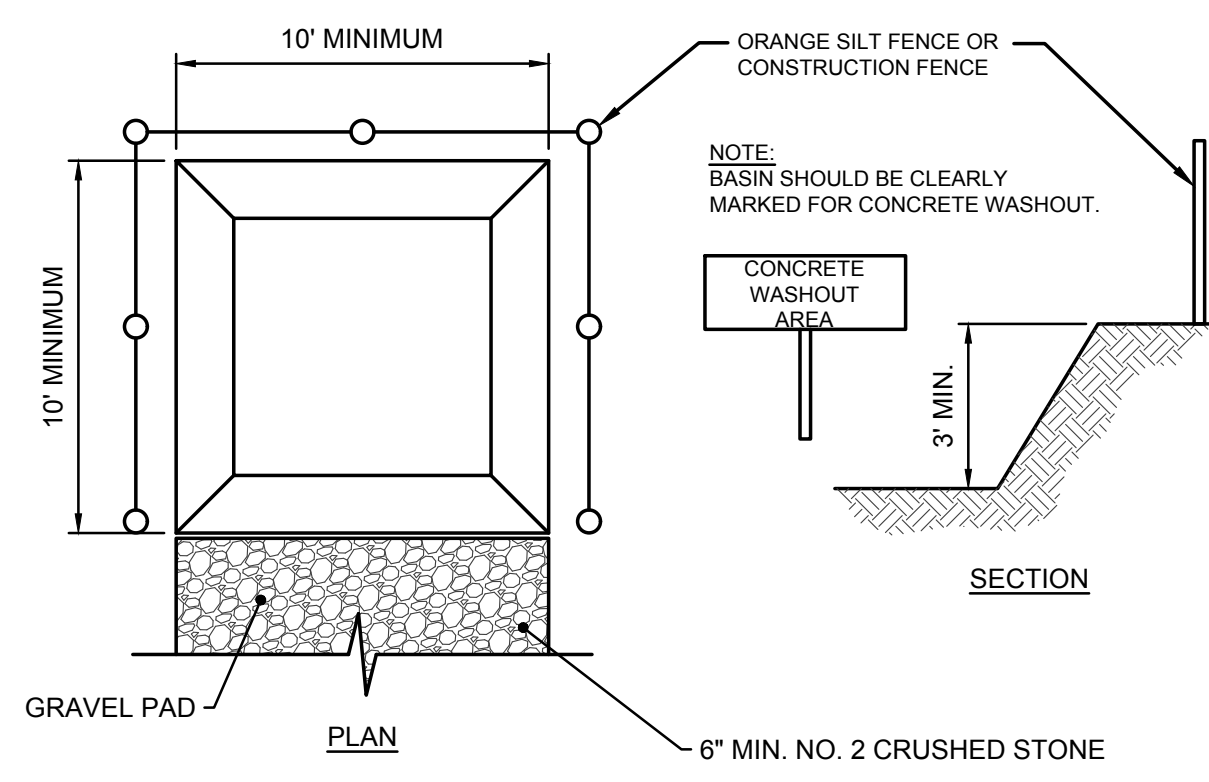
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
 FOR
AYRSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
EROSION & SEDIMENT CONTROL NOTES

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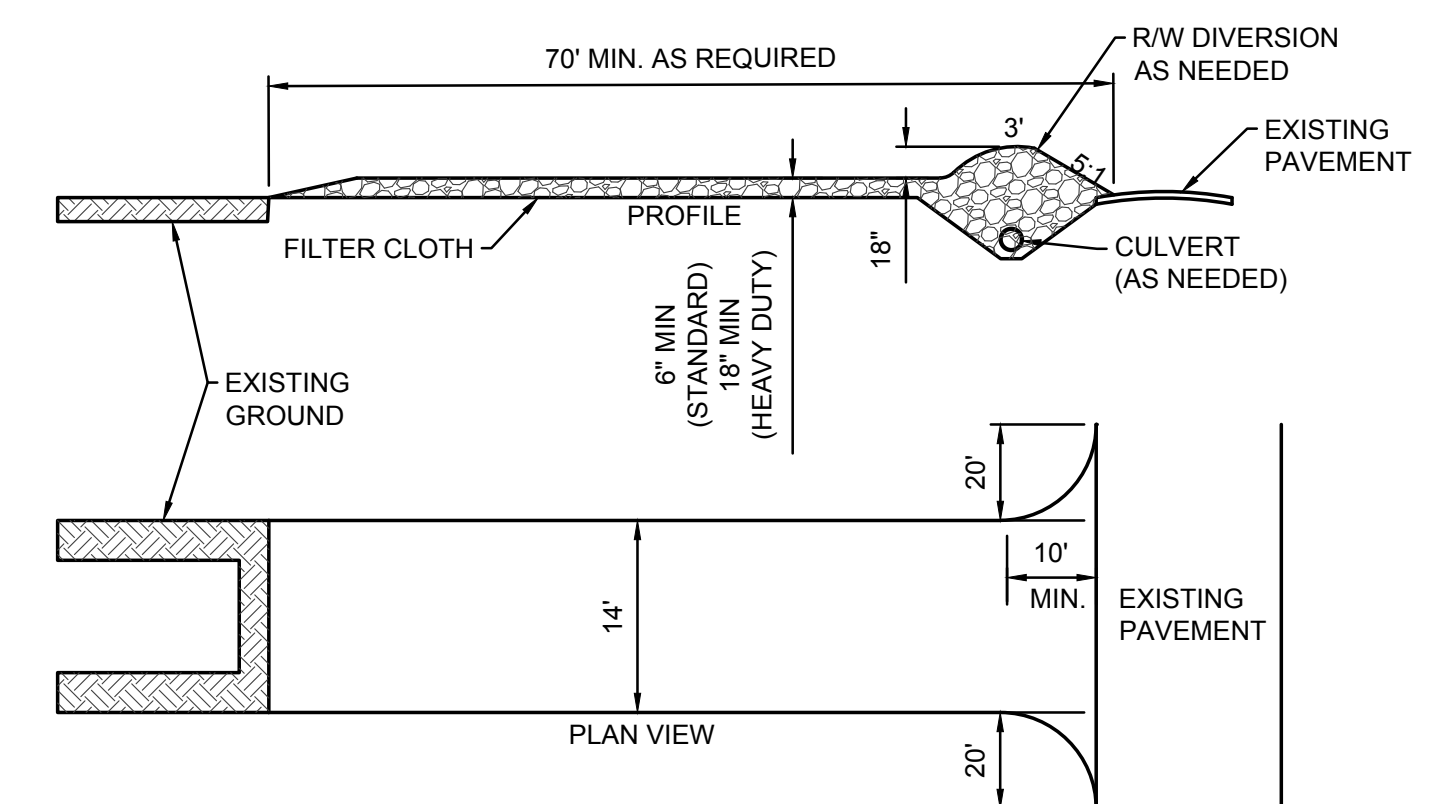
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PLOT SCALE: 1:1; EDIT DATE: 9/29/21 - 12:46 PM; EDITED BY: IDN; DRAWING FILE: 0:20190745D; DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\STREET, STROM, & WATER\2019.07\45.CE\FSC.DWG



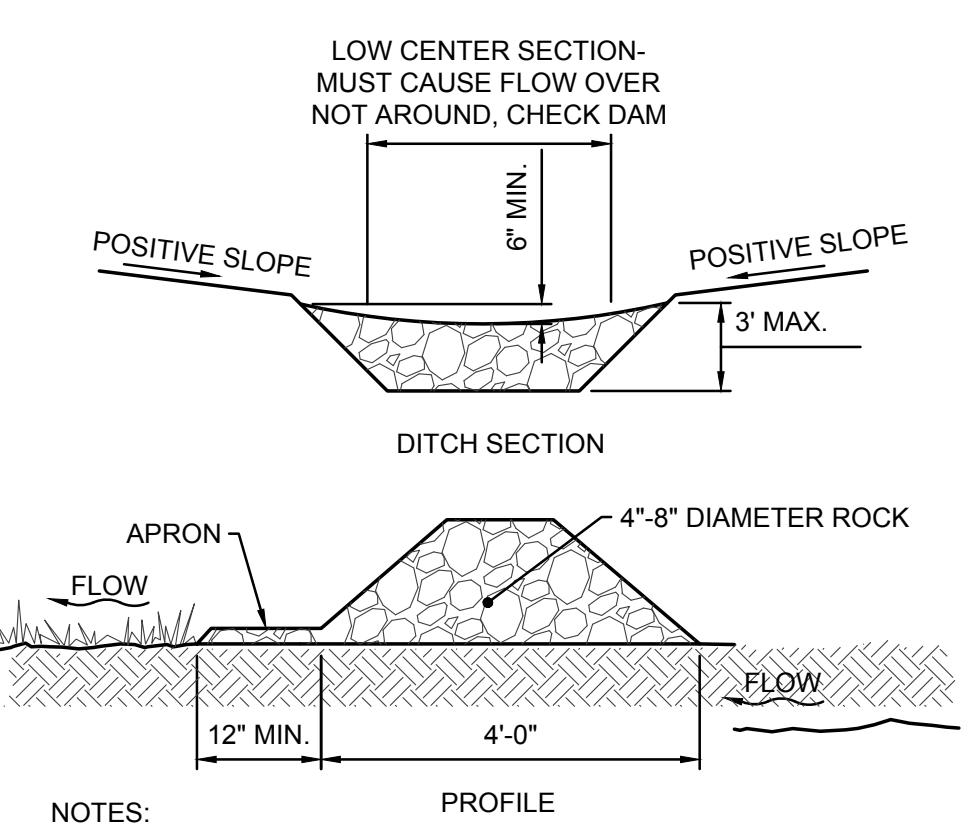
- NOTE:**
- ACTUAL LAYOUT DETERMINED IN THE FIELD, BY CONTRACTOR.
 - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

A CONCRETE WASHOUT AREA
NOT TO SCALE



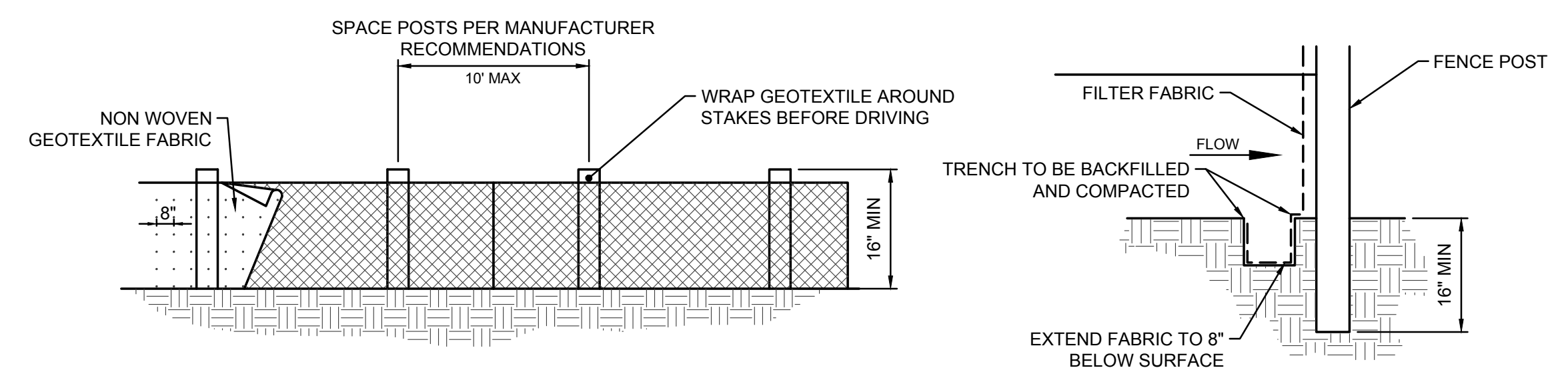
- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE—ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
 - THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
 - WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
 - GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
- | GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE | |
|--|---------------------------|
| MINIMUM TENSILE STRENGTH | 200 lbs |
| MINIMUM PUNCTURE STRENGTH | 80 psi |
| MINIMUM TEAR STRENGTH | 50 lbs |
| MINIMUM BURST STRENGTH | 320 psi |
| MINIMUM ELONGATION | 20% |
| EQUIVALENT OPENING SIZE | EOS<0.6 mm |
| PERMITIVITY | 1x10 ⁻³ cm/sec |
6. TIMING—THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
 7. CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
 8. WATER BAR -A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
 9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PREVENT FLOWING SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
 10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 11. REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

B CONSTRUCTION ENTRANCE
NOT TO SCALE



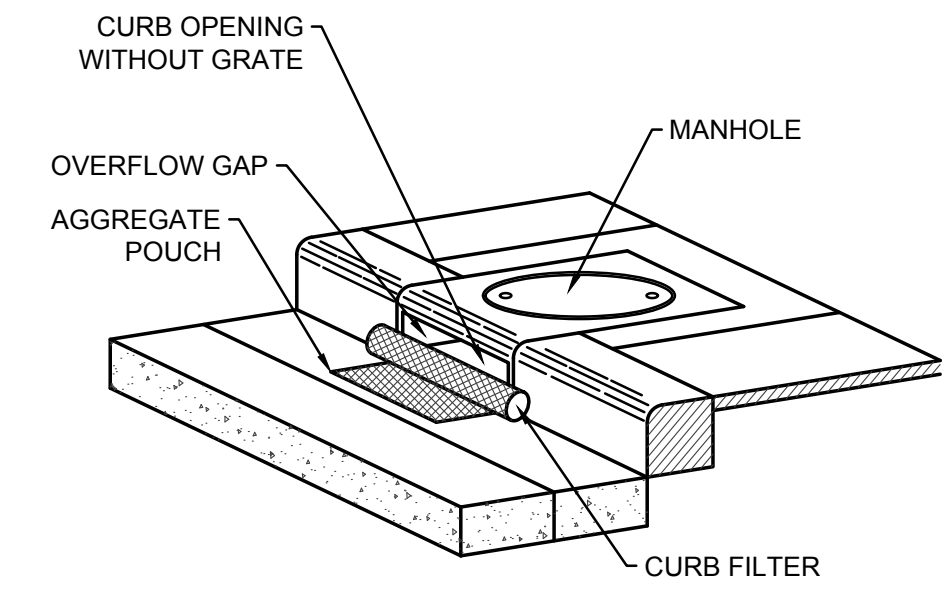
- NOTES:**
- CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
 - SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
 - SIDE SLOPES SHALL BE A MINIMUM OF 2:1

D ROCK CHECK DAM
NOT TO SCALE



- NOTES:**
- FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
 - FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
 - MINIMUM 8" FABRIC BURY REQUIRED.
 - ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
 - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.
- | MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002) | | |
|---|---------------------------------------|-------------|
| MINIMUM TENSILE STRENGTH | 120 lbs (535 N) | ASTM D 4632 |
| MAXIMUM ELONGATION AT 60 LBS | 50% | ASTM D 4632 |
| MINIMUM PUNCTURE STRENGTH | 50 lbs (220 N) | ASTM D 4833 |
| MINIMUM TEAR STRENGTH | 40 lbs (180 N) | ASTM D 4533 |
| APPARENT OPENING SIZE | ≤ 0.84 mm | ASTM D 4751 |
| MINIMUM PERMITIVITY | 1x10 ⁻² sec. ⁻¹ | ASTM D 4491 |
| UV EXPOSURE STRENGTH RETENTION | 70% | ASTM D 4355 |

E SILT FENCE
NOT TO SCALE



INSTALLATION:

- STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
- LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER.
- INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST, THEN LOWER BACK INTO PLACE.
- PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

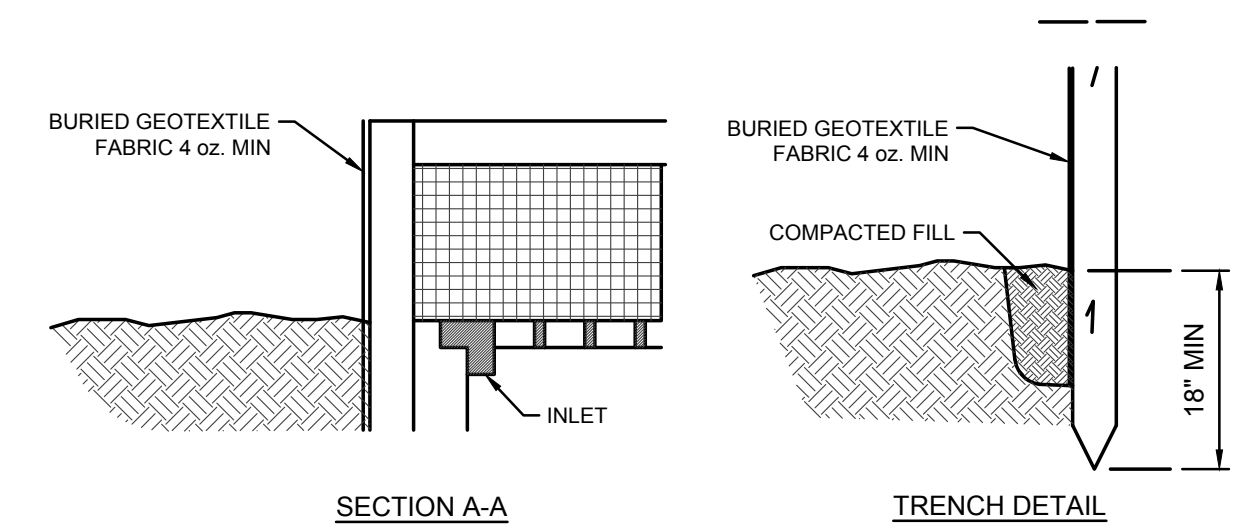
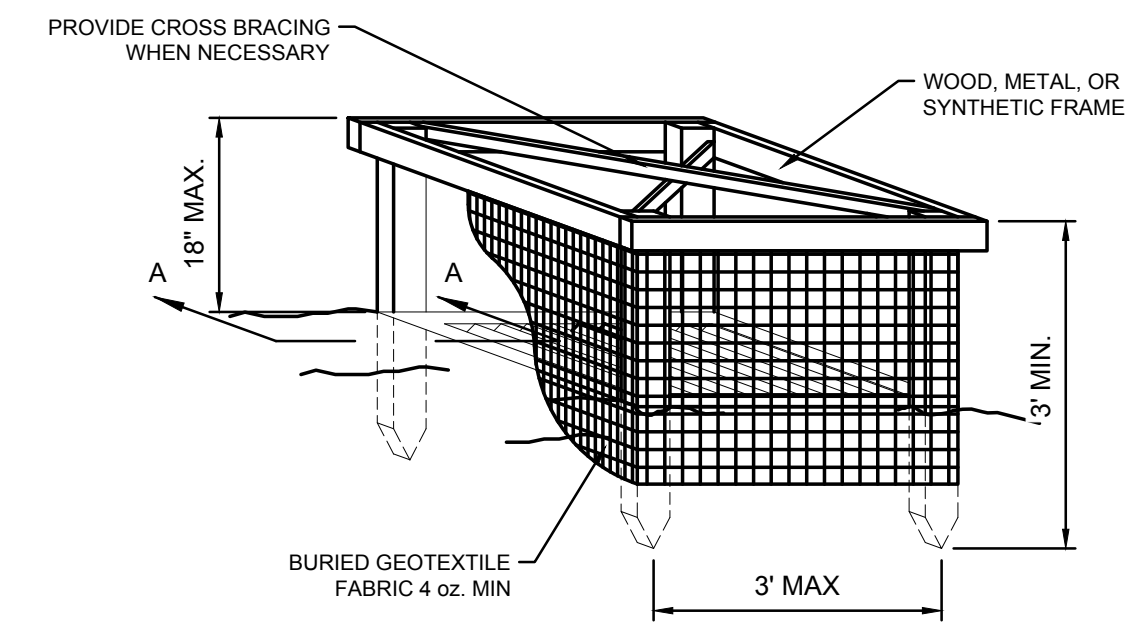
MAINTENANCE:

- WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS

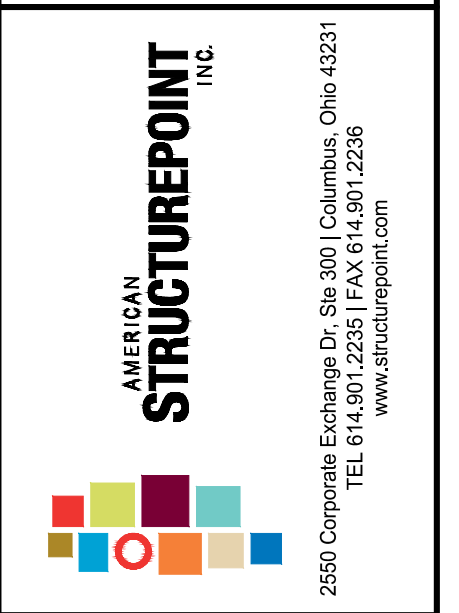
GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491

C BEAVER DAM INLET PROTECTION
NOT TO SCALE



NOTE:
PROVIDE FOR INLETS NOT LOCATED IN PAVEMENT

F SILT FENCE INLET PROTECTION
NOT TO SCALE



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF PULPIN, FRANKLIN COUNTY, OHIO
EROSION & SEDIMENT CONTROL DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

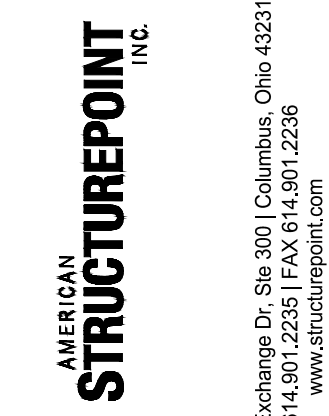
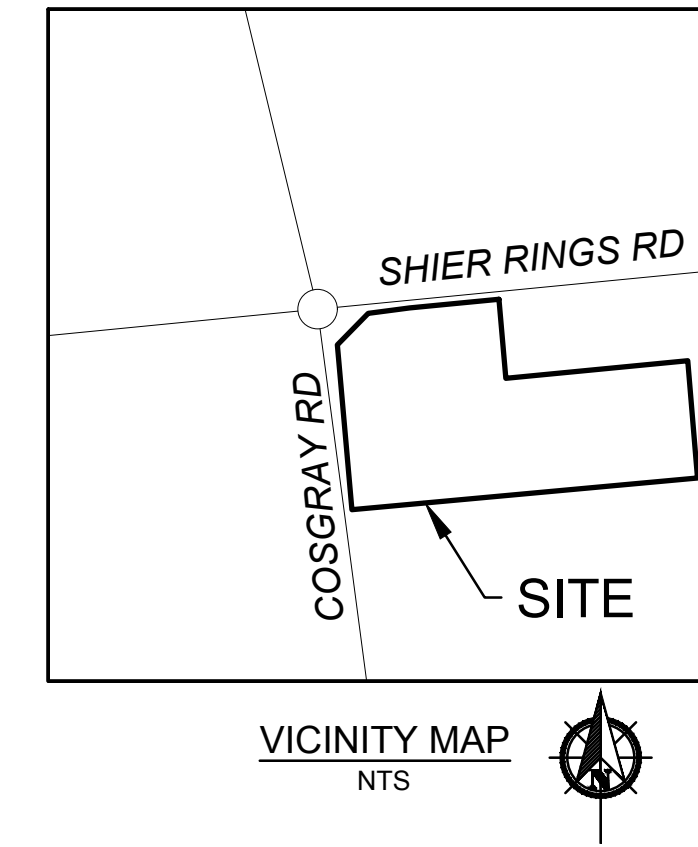
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C802

SHEET INDEX

TITLE SHEET & TRIBUTARY MAP	C001
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ESTIMATE OF QUANTITIES AND DETAILS	C003
SANITARY SEWER PLAN & PROFILE	C100
SANITARY SEWER PLAN & PROFILE	C101
SANITARY SEWER PLAN & PROFILE	C102

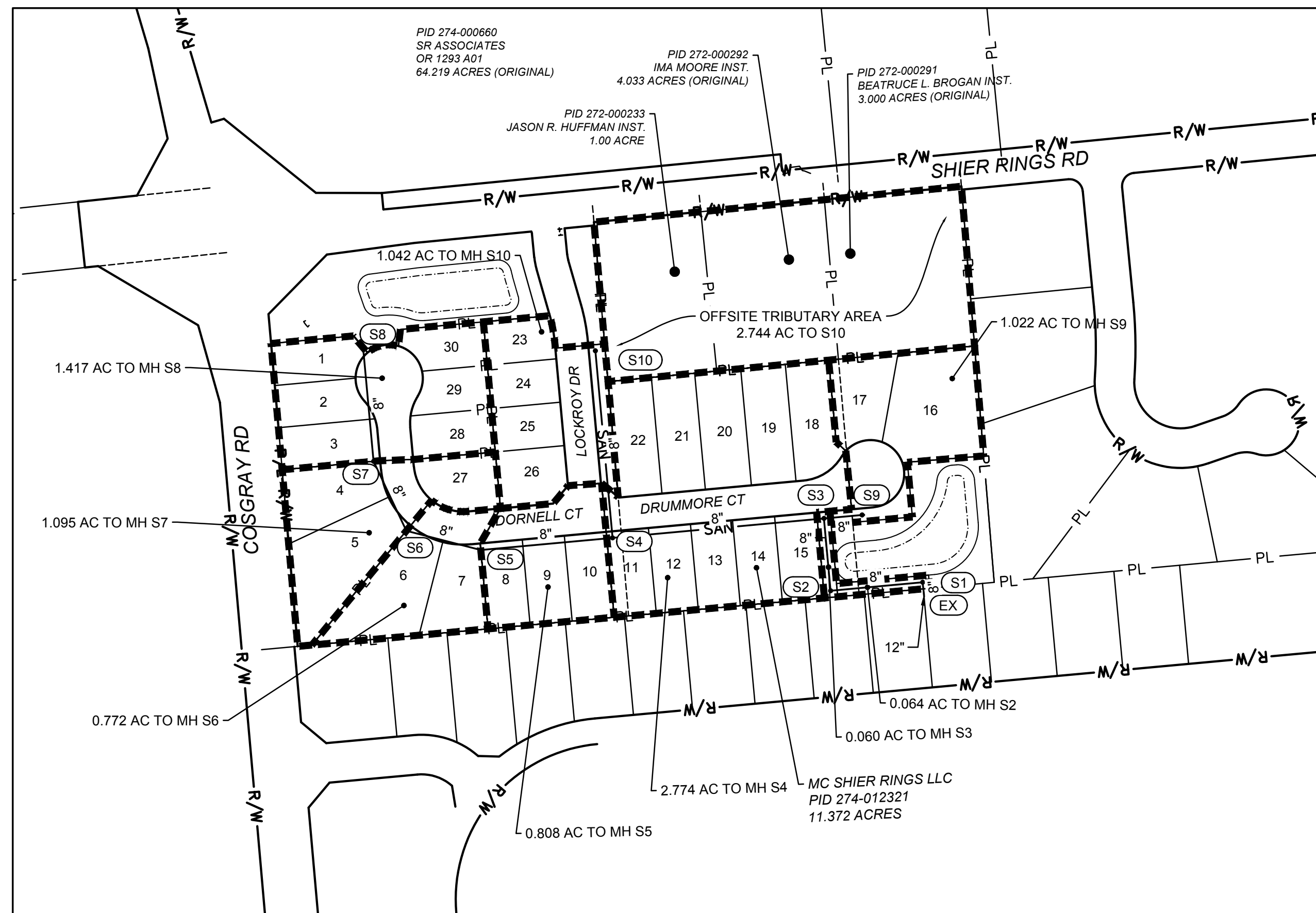
PUBLIC SANITARY IMPROVEMENTS
AYRSHIRE FARMS
 SHIER RINGS ROAD
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
 20-002-RES



2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221
 TEL: (614) 360-1226
 WWW.STRUCTUREPOINT.COM

UTILITY CONTACTS

<p>AMERITECH 408 CRITES ROAD CIRCLEVILLE, OH 43113 PHONE: (740) 477-3658</p>	<p>CITY OF COLUMBUS DIVISION OF WATER 910 DUBLIN ROAD COLUMBUS, OH 43215 PHONE: (614) 645-7788</p>
<p>AMERICAN ELECTRIC POWER 850 TECH CENTER DRIVE GAHANNA, OH 43230 PHONE: (614) 883-6831</p>	<p>COLUMBIA GAS OF OHIO 200 S CIVIC CENTER DR COLUMBUS, OH 43215 PHONE: (614) 460-6000</p>
<p>CITY OF DUBLIN DIVISION OF ENGINEERING 5800 SHIER-RINGS ROAD DUBLIN, OH 43016 PHONE: (614) 410-4600</p>	<p>TIME WARNER CABLE 1980 ALUM CREEK DR COLUMBUS, OH 43207 PHONE: (614) 918-8439</p>



INDEX MAP
 1" = 150'

BASIS OF BEARING

BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

ELEVATION DATUM

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

BENCHMARKS

CP1003
 V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.

ELEVATION = 944.56

TBM 100
 "X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY

ELEVATION = 944.88

TBM 101
 "X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.

ELEVATION = 947.48

OWNER/ DEVELOPER

MC SHIER RINGS, LLC
 999 POLARIS PARKWAY SUITE 200
 COLUMBUS, OHIO 43240
 CONTACT: MR. MICHAEL G. KING
 PHONE: 614-785-0015
 EMAIL: MKING@ROCKFORDHOMES.NET

ENGINEER

AMERICAN STRUCTUREPOINT
 2550 CORPORATE EXCHANGE DRIVE, SUITE 300
 COLUMBUS, OHIO 43231
 CONTACT: BEN MILLER
 PHONE: 614-901-2235
 EMAIL: BMILLER@STRUCTUREPOINT.COM

LANDSCAPE ARCHITECT

POD DESIGN
 100 NORTHWOOD BLVD, SUITE A
 COLUMBUS, OHIO 43235
 CONTACT: TODD FOLEY
 PHONE: (614) 360-3055
 EMAIL: TFOLEY@PODDESIGN.NET

STANDARD CONSTRUCTION DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)	CITY OF COLUMBUS
SA-01	AA-S102 AA-S160
SA-02	AA-S106 AA-S161
SA-03	AA-S107 AA-S162
SA-04	AA-S111
	AA-S117
	AA-S119
	AA-S149
	AA-S150

REGISTERED ENGINEER E-76866 DATE

APPROVED:

CITY OF DUBLIN:
 SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO
 DIRECTOR OF ENGINEERING/PAUL A. HAMMERSMITH, P.E. DATE

CITY OF COLUMBUS:

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE SEWER SERVICE AGREEMENT WITH CITY OF DUBLIN ON 12/14/92, ORDINANCE NO. 2692-92, AND ALL SUBSEQUENT AMENDMENTS THEREOF.

SANITARY SEWER MEETS OR EXCEEDS CITY OF COLUMBUS DESIGN STANDARDS (INCLUDING PER CAPITA FLOW, PEAKING FACTOR, AND I/I ALLOWANCE) AND MATERIAL SPECIFICATIONS.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE
 CITY OF COLUMBUS, OHIO DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES
 CITY OF COLUMBUS, OHIO DATE



REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C001

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 3:56 PM EDITED BY: MROSCHE DRAWING FILE: C:\2019\01745\DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY\2019.01745.CE\TS.DWG

GENERAL NOTES

- CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.
- THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- NON-RUBBER Tired VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
- THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS 1800 EAST 17TH AVENUE COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING
CITY OF DUBLIN
5800 SHIER RINGS ROAD DUBLIN, OHIO 43016

- ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
- ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED,

CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
- PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
- TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
- ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
- ALL INLETS SHALL BE CHANNELIZED.
- PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) GERMINATION RATE: 85% APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
- TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
- STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

- THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:
(SEE UTILITY PROVIDERS ON TITLE SHEET C001)
- THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
- THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
- LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

- TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
- ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
- STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES, THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

SANITARY SEWERS

- CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
- SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS. PROPOSED JOINTS SHALL ADHERE TO ASTM D3212.

- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.
- ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
- ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
- ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
- FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
- ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
- SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
- WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
- THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

- RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
- KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
- LOOK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
- OR EQUAL AS APPROVED BY THE CITY ENGINEER.

- RUBBER GASKET COMPRESSION.
- PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
- DURA SEAL-III AS MANUFACTURED BY DURA TECH, INC.
- LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
- OR EQUAL AS APPROVED BY THE CITY ENGINEER.

THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE 1-17 DELETED

STORM SEWER 1-7 DELETED

MAIL DELIVERY

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS 1-2 DELETED

EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERMITTEE.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
- ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.



PUBLIC SANITARY IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

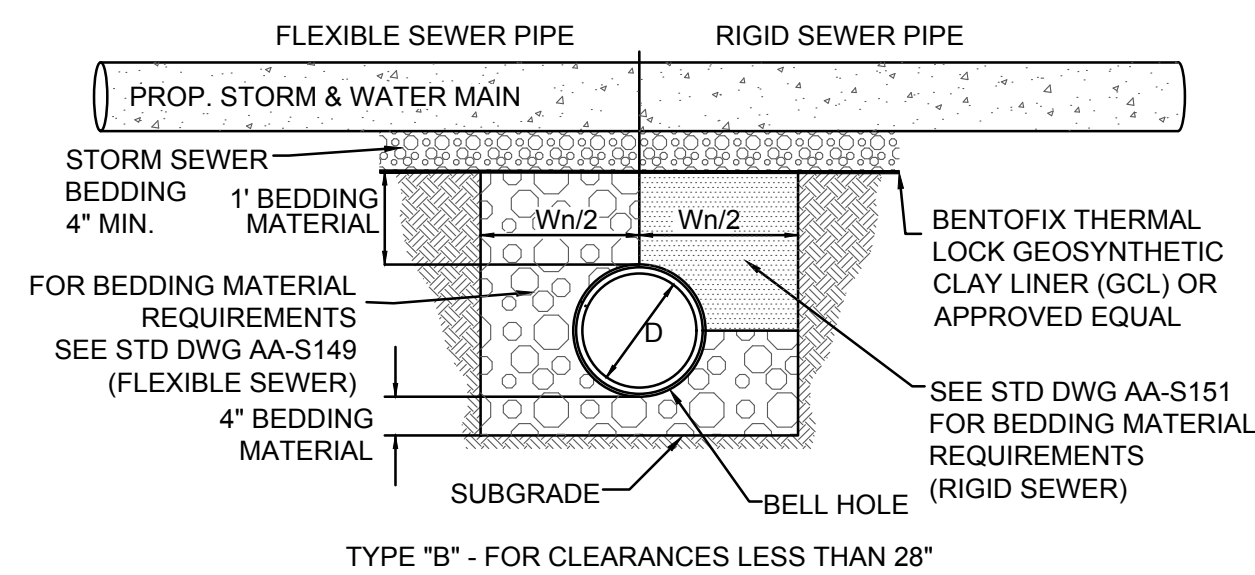
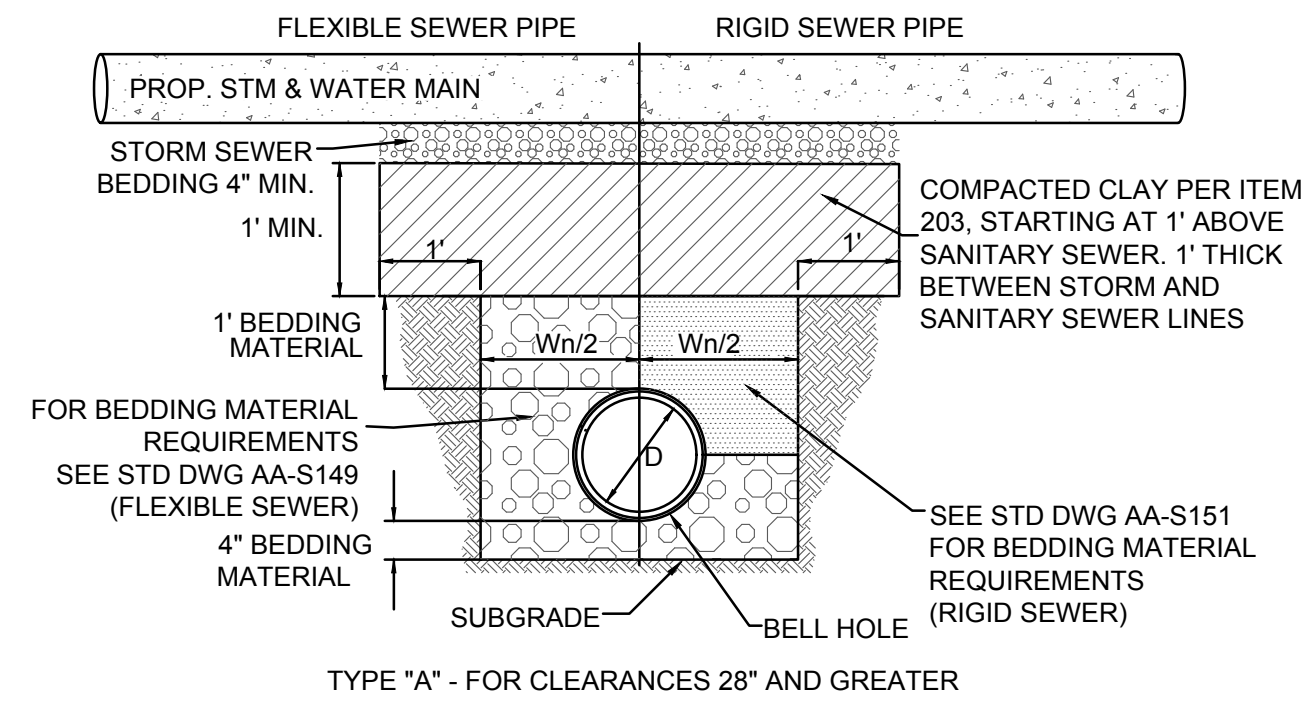
DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C002

PLOT SCALE: 1"=100' DATE: 11/1/21 - 3:56 PM EDITED BY: MROSCHE DRAWING FILE: C:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY\2019.01745.CE.TS.DWG

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 3:56 PM EDITED BY: MROCHE DRAWING FILE: 0:2019/01745.D DRAWINGS/CIVIL/CONSTRUCTION DOCUMENTS/SANITARY/2019.01745.CE.TS.DWG

FLEXIBLE SEWER PIPE				RIGID SEWER PIPE			
* INCHES				* INCHES			
D	W _n	D	W _n	D	W _n	D	W _n
6	30	24	48	6	24	27	52
8	30	27	52	8	27	30	57
10	30	30	56	10	30	33	61
12	32	36	64	12	32	36	64
15	36	42	72	15	36	42	71
18	40	48	80	18	40	48	78
21	44			21	44	54	87
				24	48	60	96
						66	105
						72	116
						78	123
						84	130
						90	136
						96	143
						102	151
						108	160



NOTES:

1. THIS DETAIL IS REQUIRED AT ALL SANITARY SEWER AND WATER MAIN CROSSINGS. IF IT IS DISTURBED DURING THE CONSTRUCTION OF THE STORM SEWER OR WATER MAIN IT MUST BE RESTORED TO THE REQUIREMENTS OF THE DETAIL. THIS DETAIL IS NOT BEING USED TO MITIGATE CROSSINGS WHERE THERE IS LESS THAN 18" OF VERTICAL DISTANCE FROM OUTSIDE TO OUTSIDE OF PIPES.
2. BARRIER SHALL BE PLACED AT ALL WATER MAIN AND STORM CROSSINGS FOR A LENGTH OF 20' MEASURED ALONG THE SANITARY LINE AND CENTERED ON THE WATER MAIN OR STORM CROSSING.

ANTI-INFILTRATION AND INFLOW BARRIER
NOT TO SCALE

ESTIMATE OF QUANTITIES			
THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.			
ITEM	QUANTITY	UNIT	DESCRIPTION
SITE			
201	LUMP	SUM	CLEARING AND GRUBBING
203	LUMP	SUM	EXCAVATION INCLUDING EMBANKMENT
207	LUMP	SUM	TEMPORARY SEDIMENT AND EROSION CONTROLS
SANITARY			
604		EACH	PRECAST CONCRETE MANHOLE TYPE "C" (AA-S102) W/ CITY OF DUBLIN LID (ST-02)
901	1,604	LF	8" PVC SANITARY SEWER PIPE, OR APPROVED EQUAL
914	79	LF	6" PVC DIA. PIPE RISER
915	30	EACH	8" X 6" WYE FITTING
918	1,354	LF	6" DIAMETER PIPE, SANITARY HOUSE SERVICE CONNECTION
CALCULATED BY: BAJ DATE: 06/11/2021 CHECKED BY: BJM 06/28/2021			



2550 Corporate Exchange Dr., Ste. 400 | Columbus, Ohio 43231
TEL: 614.881.1226
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PUBLIC SANITARY IMPROVEMENTS
FOR
AYRSHIRE FARMS
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
**ESTIMATE OF QUANTITIES
AND DETAILS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C003

PLOT SCALE: 1"=11/2' DATE: 11/1/21 - 4:00 PM EDITED BY: MROCHE DRAWING FILE: 0:2019101745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY\2019.01745.CE.P&P.DWG

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S10-S4	23	2+78	65	2.07%	934.25	23	0	
S10-S4	24	2+35	66	2.06%	935.03	24	2	
S10-S4	25	1+54	66	2.04%	934.79	25	2	
S10-S4	26	0+92	67	2.02%	934.79	26	2	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S9-S3	16	0+48	134	2.08%	933.68	16	1	
S9-S3	17	0+43	106	2.08%	932.64	17	1	

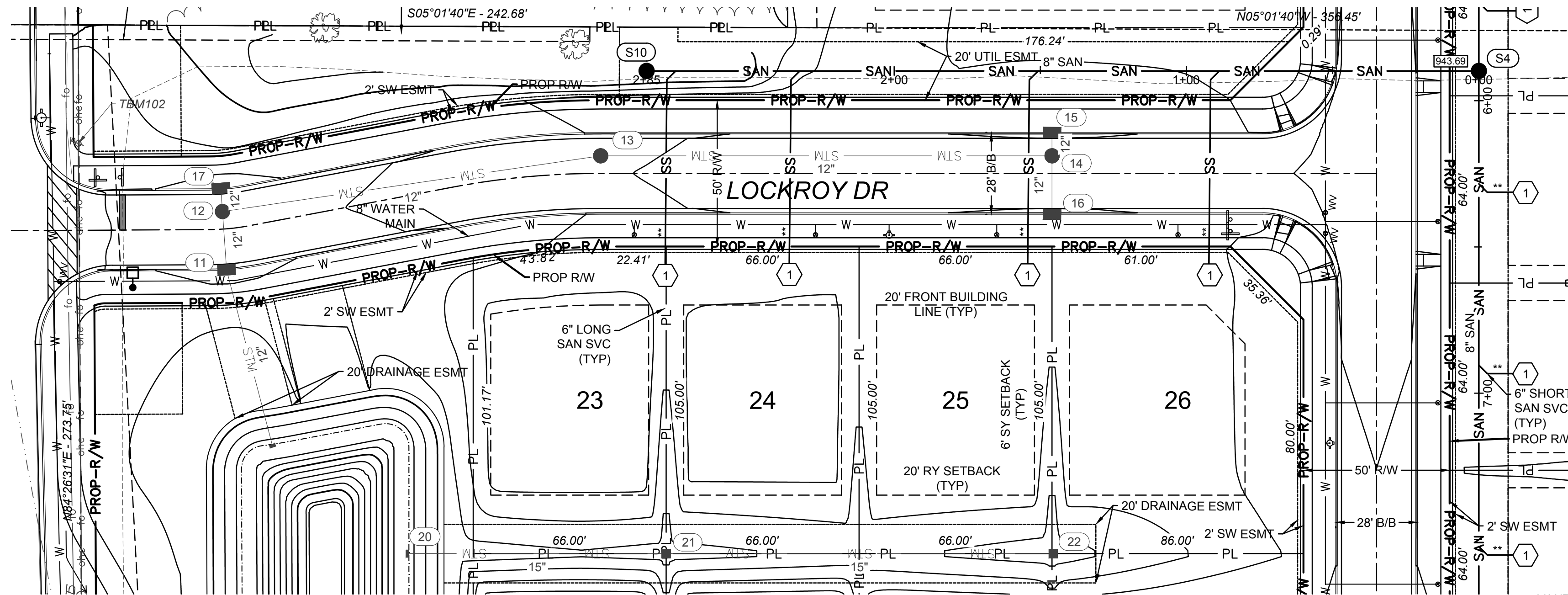
MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S8-S7	1	11+61	38	2.08%	934.63	1	0	
S8-S7	2	10+97	21	2.08%	935.33	2	2	
S8-S7	3	10+35	13	2.08%	935.79	3	2	
S8-S7	28	10+69	65	2.08%	935.50	28	0	
S8-S7	29	11+31	89	2.08%	936.21	29	0	
S8-S7	30	11+73	85	2.08%	936.33	30	0	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S7-S6	4	9+80	25	2.08%	935.74	4	2	
S7-S6	5	9+20	19	2.08%	936.85	5	4	
S7-S6	27	10+06	60	2.08%	935.50	27	0	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S6-S5	6	8+71	24	2.08%	935.80	6	3	
S6-S5	7	8+11	21	2.08%	935.06	7	3	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S5-S4	8	7+55	13	2.08%	935.31	8	3	
S5-S4	9	6+93	13	2.08%	935.63	9	4	
S5-S4	10	6+31	13	2.08%	935.43	10	4	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S4-S3	11	5+69	13	2.08%	935.69	11	5	
S4-S3	12	5+07	13	2.08%	935.37	12	5	
S4-S3	13	4+45	13	2.08%	935.05	13	5	
S4-S3	14	3+53	13	2.08%	934.73	14	5	
S4-S3	15	3+01	13	2.08%	934.66	15	5	
S4-S3	18	2+95	65	2.08%	933.63	18	3	
S4-S3	19	3+47	65	2.08%	933.47	19	2	
S4-S3	20	3+98	65	2.08%	934.96	20	4	
S4-S3	21	4+75	65	2.08%	935.29	21	4	
S4-S3	22	5+52	65	2.08%	935.62	22	4	



NOTE:
 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.

LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.

TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED.

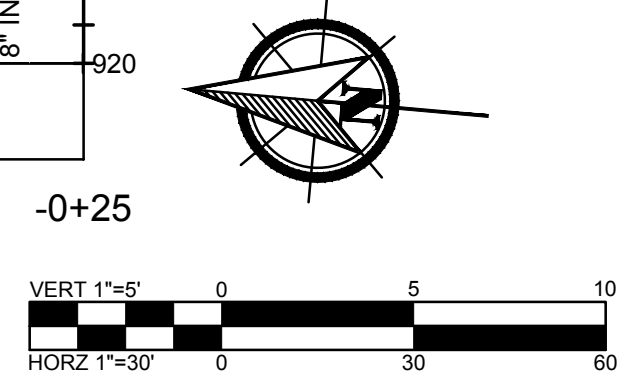
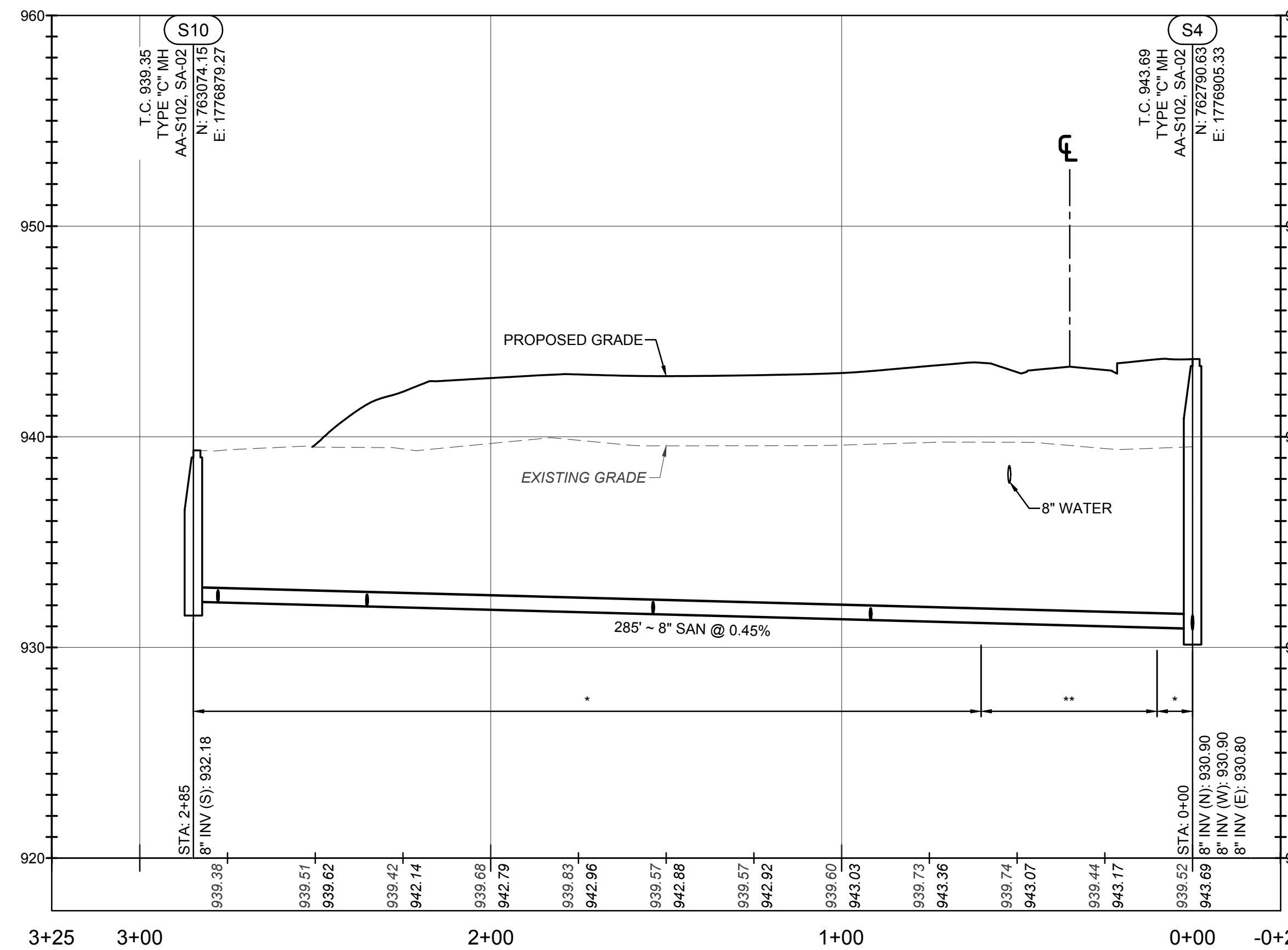
END OF SANITARY STUBS SHALL BE MARKED WITH 4"x4" POST.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 2.5' CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES. CONSTRUCT THE TYPICAL ANTI-INFILTRATION & INFLOW BARRIER FOR ALL CROSSINGS OF SANITARY SEWERS AND WATER MAINS AND STORM SEWERS; SEE DETAIL SHOWN ON SHEET C003

PROPOSED NON-SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE AYSHIRE FARMS PUBLIC STREET, STORM, AND WATER IMPROVEMENT PLAN.

PROFILE NOTES:

- * COMPACTED BACKFILL, ITEM 911
- ** COMPACTED GRANULAR BACKFILL, ITEM 912
- # SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET C003



REVISIONS	DATE	DESCRIPTION

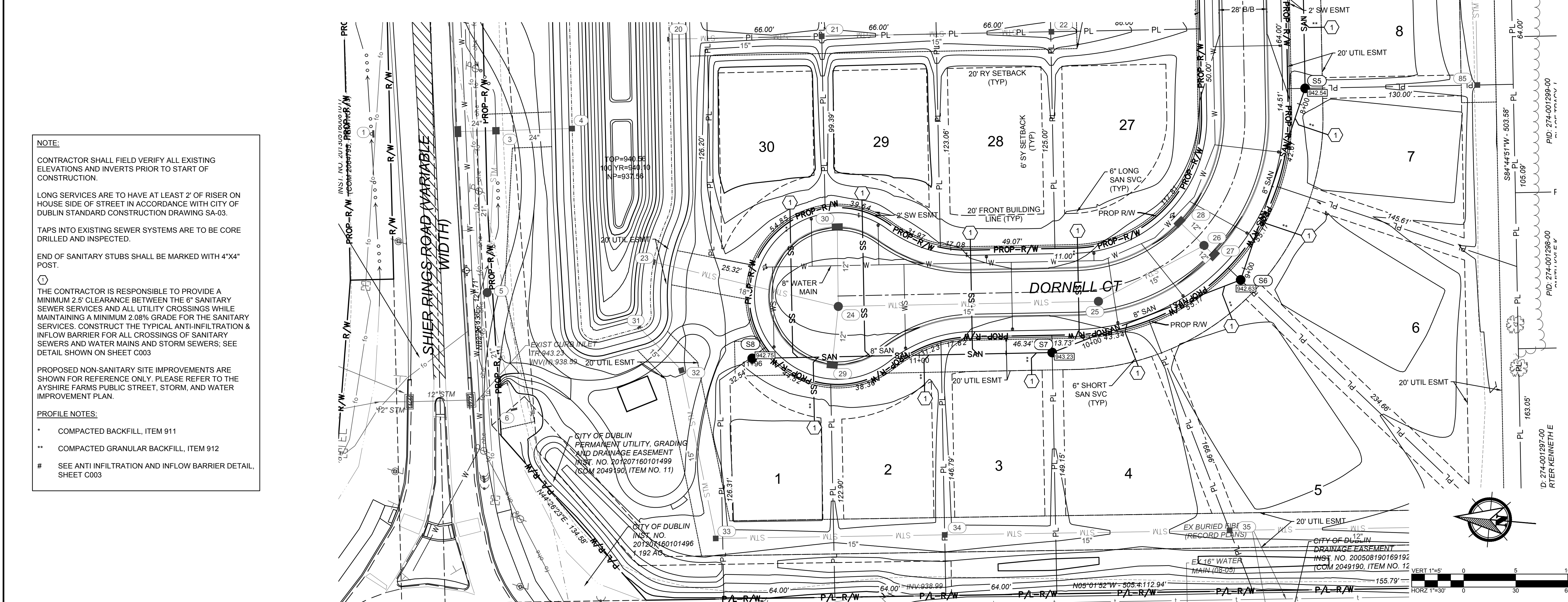
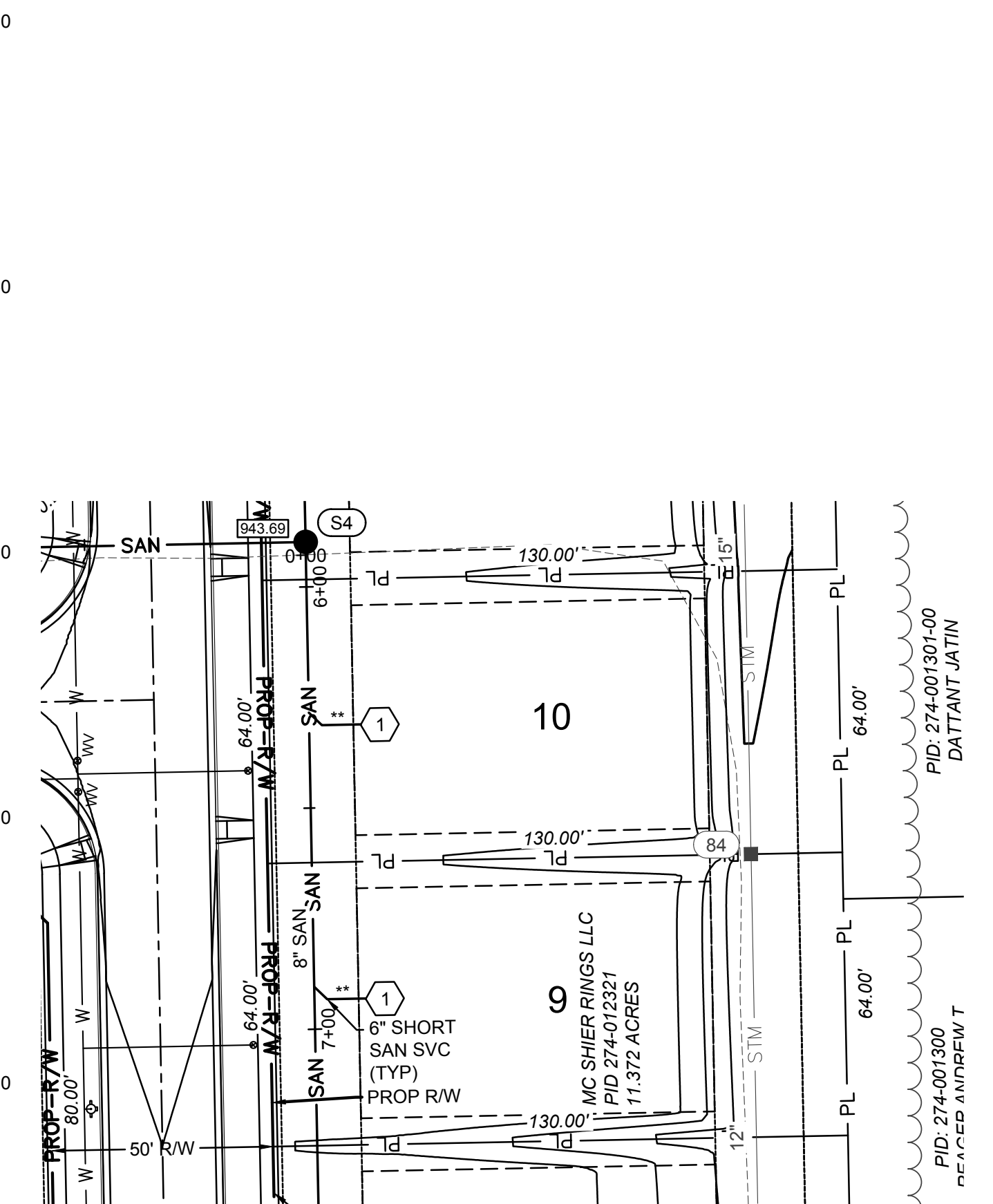
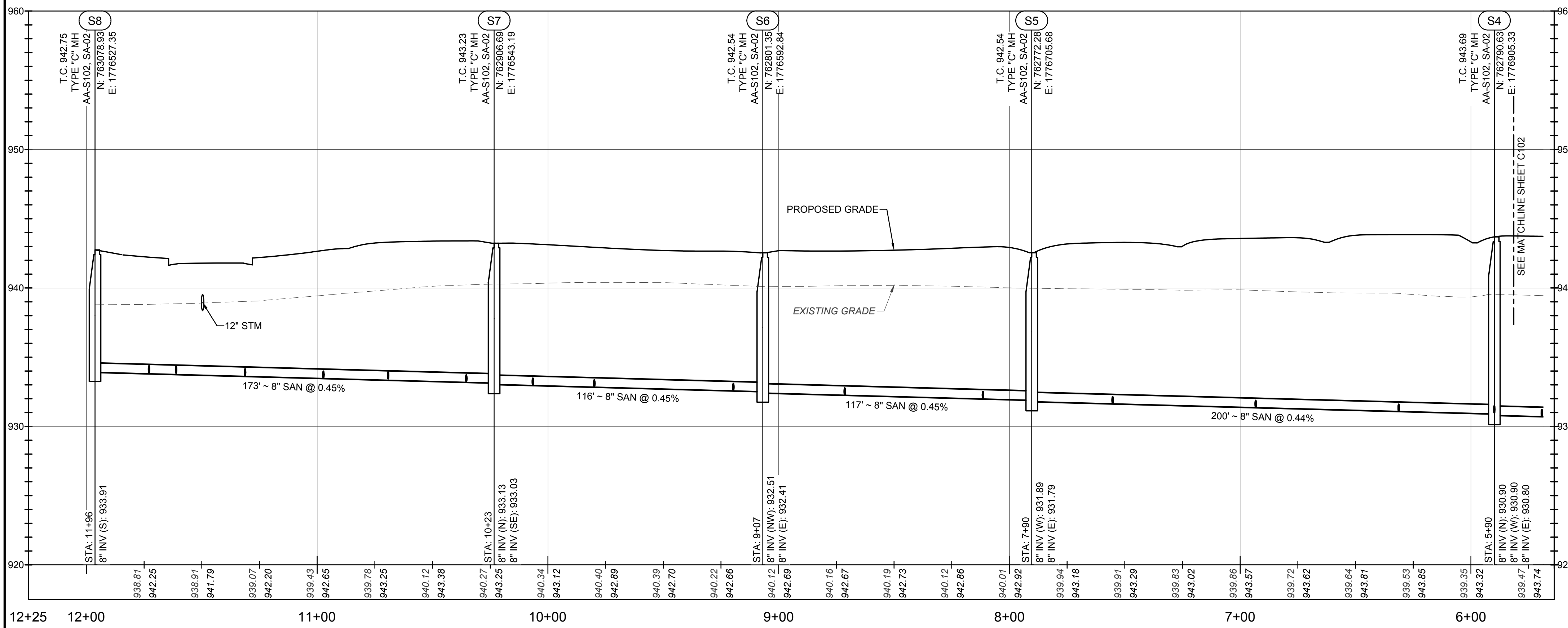
DATE: 11/1/2021
 DRAWN BY: ALH
 CHECKED BY: JRP
 JOB NUMBER: 2019.01745

C100


 AMERICAN STRUCTUREPOINT INC.
 PUBLIC SANITARY IMPROVEMENTS FOR AYSHIRE FARMS CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
SANITARY SEWER PLAN & PROFILE

2550 Corporate Exchange Dr., Ste. 500 | Columbus, Ohio 43221
 TEL: 614.226.1226
 WWW.STRUCTUREPOINT.COM

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NOTE:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.

LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.

TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED.


END OF SANITARY STUBS SHALL BE MARKED WITH 4"X4" POST.

Ⓢ THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 2.5' CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES. CONSTRUCT THE TYPICAL ANTI-INFILTRATION & INFLOW BARRIER FOR ALL CROSSINGS OF SANITARY SEWERS AND WATER MAINS AND STORM SEWERS; SEE DETAIL SHOWN ON SHEET C003

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PROFILE NOTES:

- * COMPACTED BACKFILL, ITEM 911
- ** COMPACTED GRANULAR BACKFILL, ITEM 912
- # SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET C003



AMERICAN
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PUBLIC SANITARY IMPROVEMENTS
FOR
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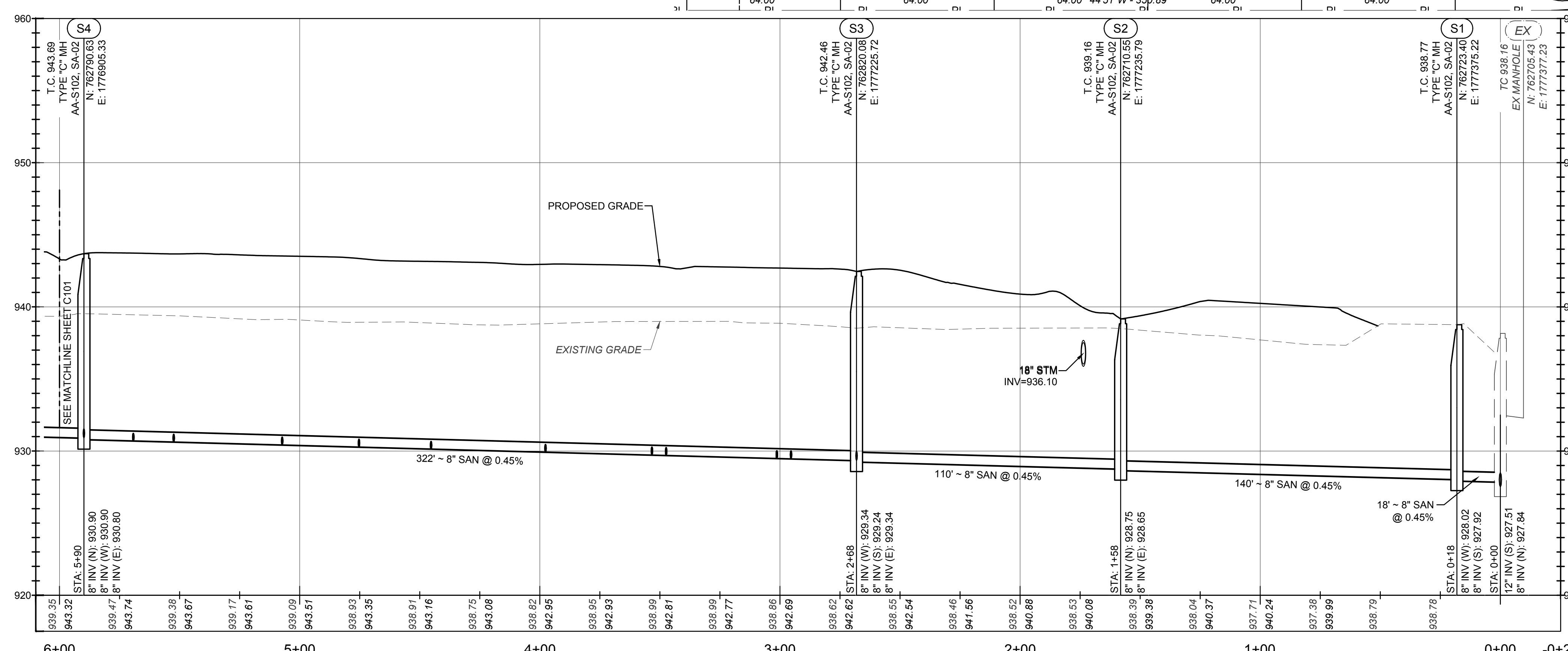
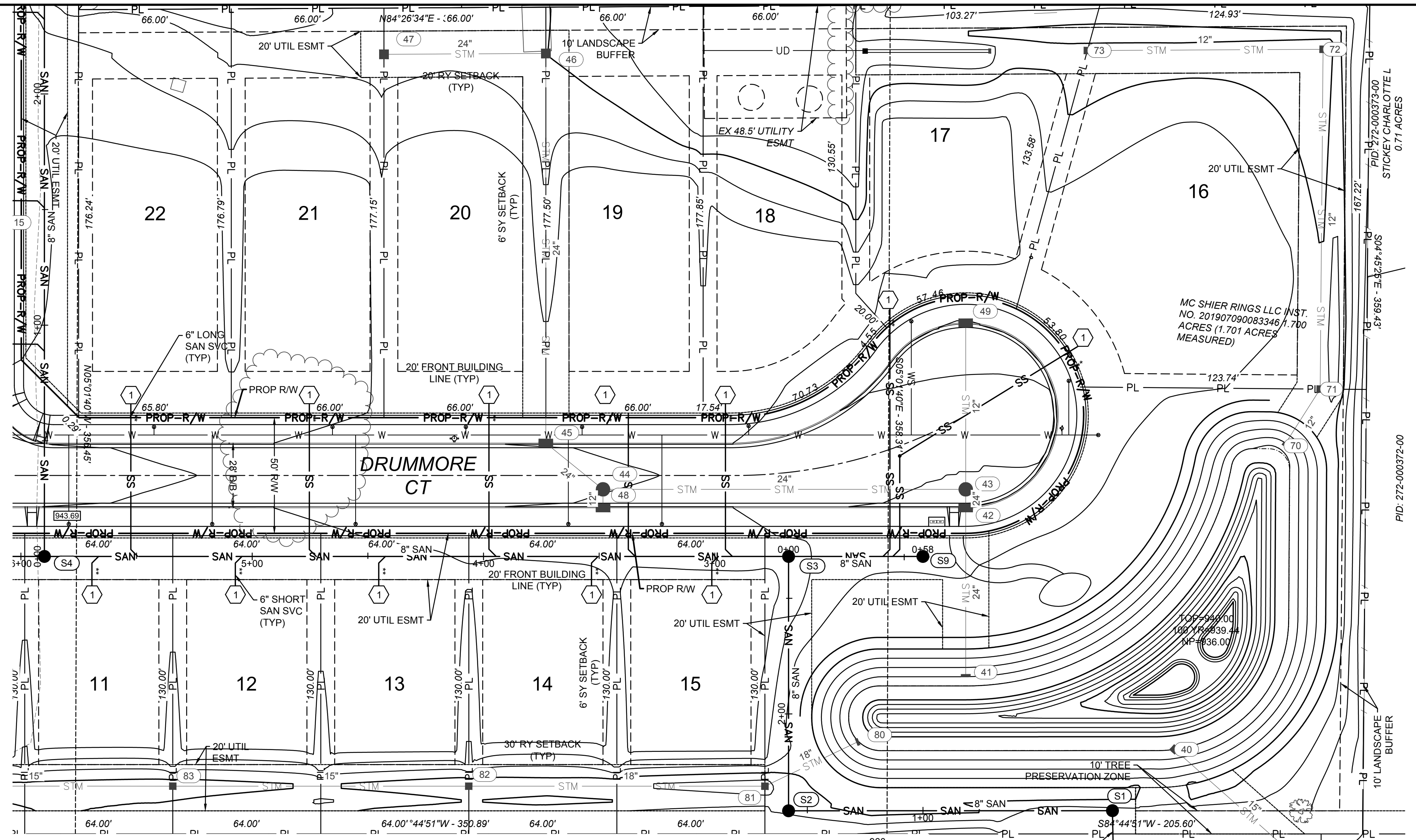
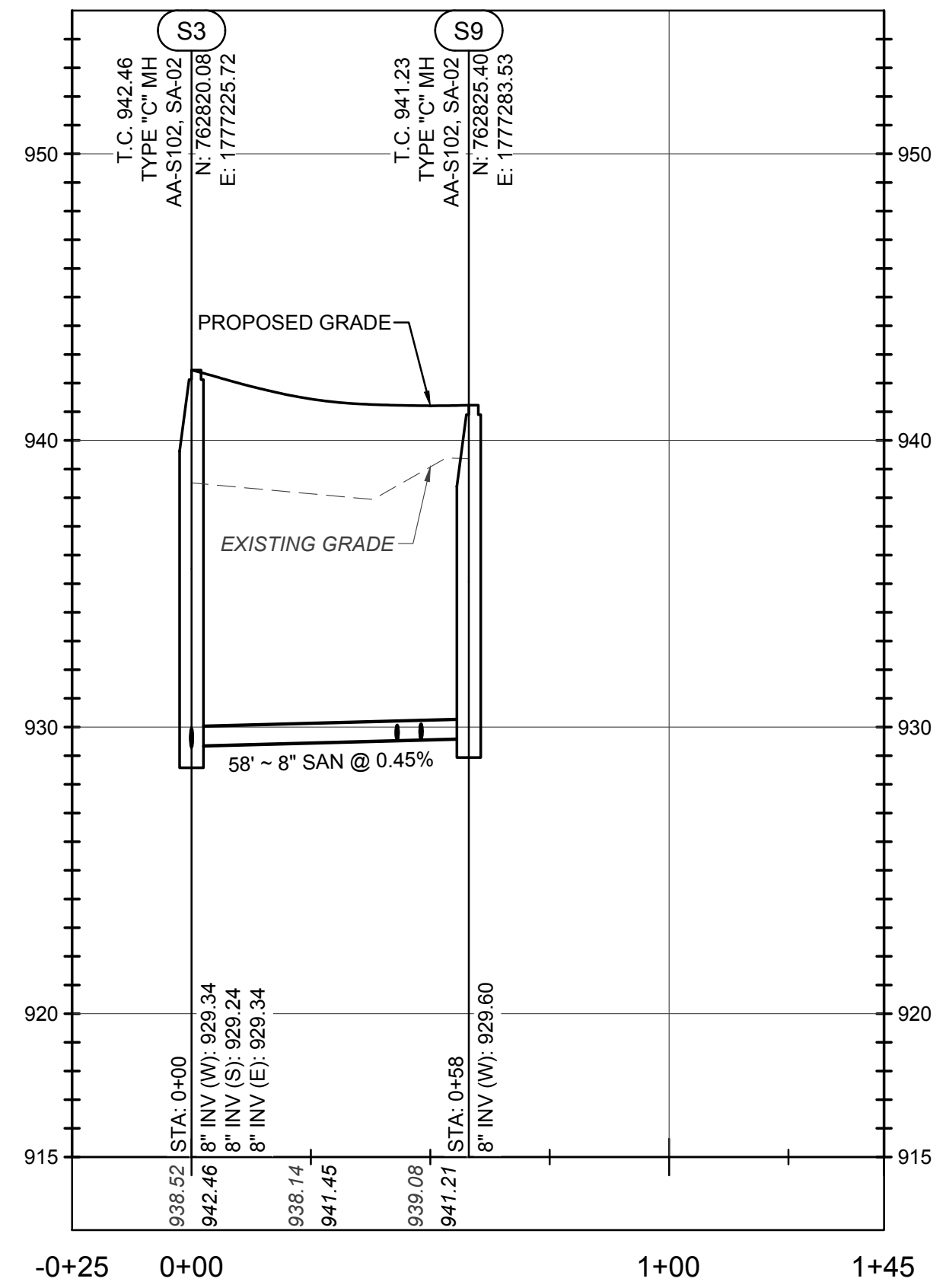
**SANITARY SEWER PLAN &
PROFILE**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

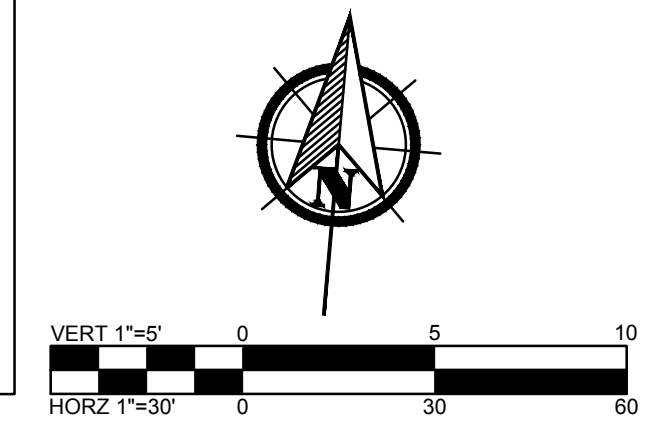
DATE: 11/1/2021
DRAWN BY: ALH
CHECKED BY: JRP
JOB NUMBER: 2019.01745


C101

PLOT SCALE: 1:1 EDIT DATE: 11/1/21 - 4:00 PM EDITED BY: MROCHE DRAWING FILE: O:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY\2019.01745.CE.P&P.DWG



NOTE:
 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.
 TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED.
 END OF SANITARY STUBS SHALL BE MARKED WITH 4"x4" POST.
 THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 2.5' CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES. CONSTRUCT THE TYPICAL ANTI-INFILTRATION & INFLOW BARRIER FOR ALL CROSSINGS OF SANITARY SEWERS AND WATER MAINS AND STORM SEWERS; SEE DETAIL SHOWN ON SHEET C003
 PROPOSED NON-SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE AYSHIRE FARMS PUBLIC STREET, STORM, AND WATER IMPROVEMENT PLAN.
PROFILE NOTES:
 * COMPACTED BACKFILL, ITEM 911
 ** COMPACTED GRANULAR BACKFILL, ITEM 912
 # SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET C003





AMERICAN STRUCTUREPOINT INC.
 2550 Corporate Exchange Dr., Ste 300 | Columbus, Ohio 43231
 TEL: 614-991-1226
 WWW.STRUCTUREPOINT.COM

PUBLIC SANITARY IMPROVEMENTS
 FOR
AYSHIRE FARMS
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

SANITARY SEWER PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

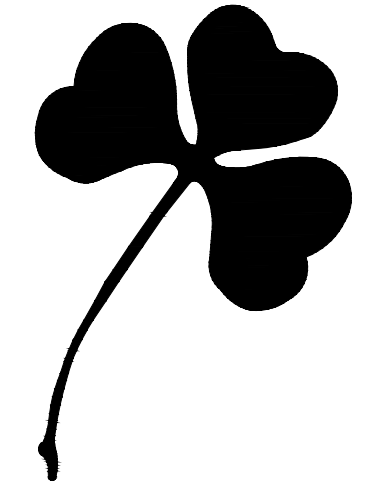
DATE:	11/1/2021
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C102

CITY OF DUBLIN, OHIO

SHIER RINGS ROAD WIDENING

21-002-RES



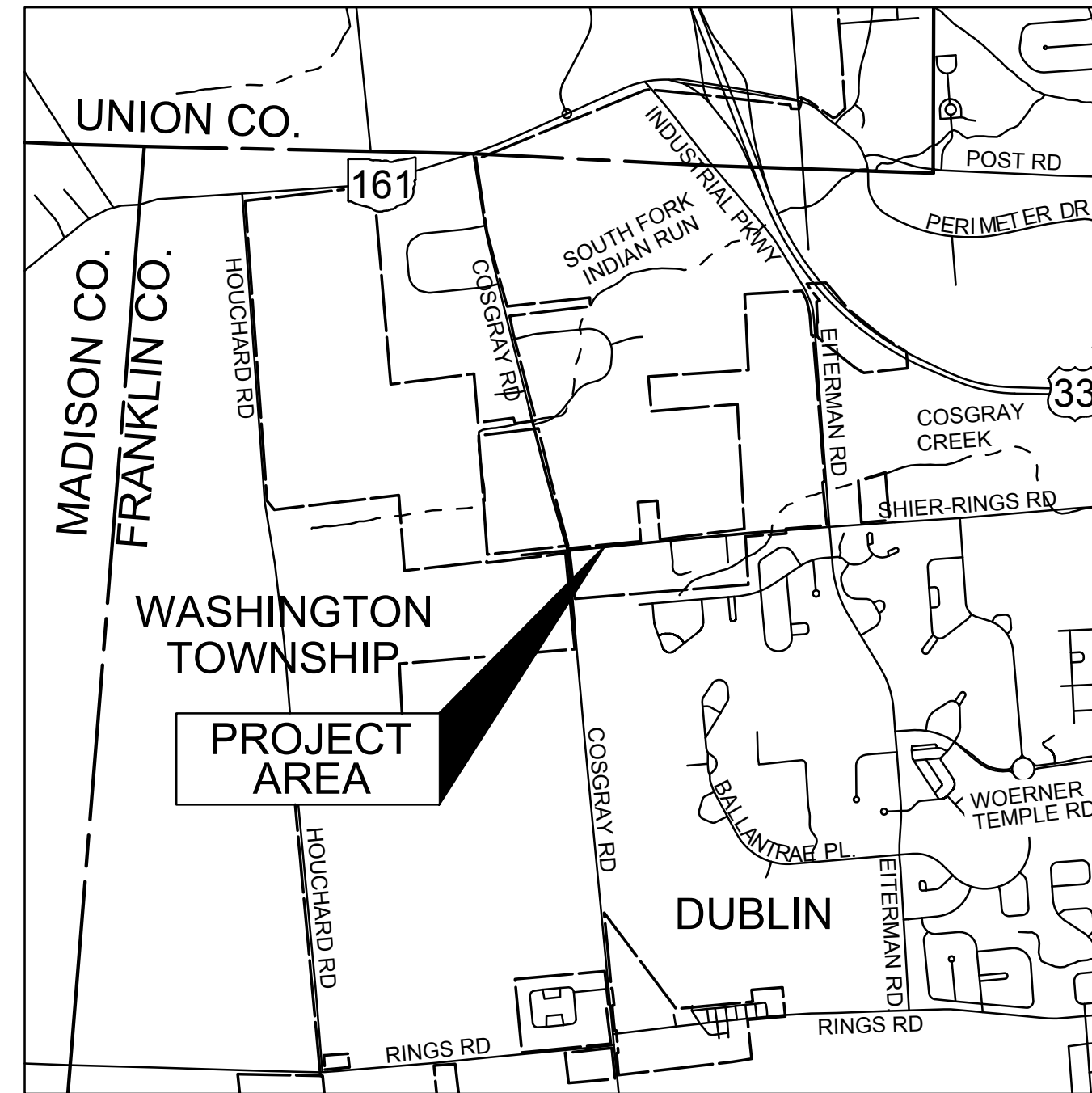
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EXISTING LEGEND

	PINE TREE		POINT OF CURVE
	BUSH		POST
	CONCRETE MONUMENT SET		POWER & LIGHT POLE
	CONCRETE MONUMENT FOUND		POWER & TELEPHONE POLE
	CONTROL CENTER BASE		POWER LINE MARKER
	CURB INLET		POWER POLE
	DRAINAGE INLET SQUARE		ROCK
	ELECTRIC BOX		SIGN
	FIRE HYDRANT		TELEPHONE LIGHT POLE
	GAS MARKER		TELEPHONE MANHOLE
	GAS SERVICE VALVE		TELEPHONE MARKER
	GAS VALVE		TELEPHONE PEDESTAL
	GOVERNMENT CONTROL POINT FOUND		TELEPHONE POLE
	GOVERNMENT CONTROL POINT SET		UTILITY VALVE (MISC)
	GUY WIRE		WATER MANHOLE
	HIGH MAST TOWER LIGHT		WATER MARKER
	IRON PIN & CAP FOUND		WATER METER
	IRON PIN FOUND		WATER SERVICE VALVE
	IRON PIN SET		WATER VALVE
	IRON PIPE SET		
	LIGHT POLE		
	MAG NAIL FOUND		
	MAG NAIL SET		
	MAILBOX		
	PIPE PILE		
	PK NAIL FOUND		
	PK NAIL SET		



INDEX MAP
1" = 2,000'



	DESIGN SPEED	POSTED SPEED
SHIER-RINGS ROAD	40 MPH	35 MPH

ENGINEER

AMERICAN STRUCTUREPOINT
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: BEN MILLER
PHONE: 614-901-2235
EMAIL: BMILLER@STRUCTUREPOINT.COM

UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANNA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

REGISTERED ENGINEER E-76866 DATE

APPROVED:

CITY OF DUBLIN:
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

DIRECTOR OF ENGINEERING/CITY ENGINEER, CITY OF DUBLIN, OHIO DATE
PAUL A. HAMMERSMITH, P.E.

CITY OF COLUMBUS:

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE DATE
CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE
CITY OF COLUMBUS, OHIO

BASIS OF BEARING

BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

ELEVATION DATUM

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

BENCHMARKS

CP1003
V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.

ELEVATION = 944.56

TBM 100
"X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY

ELEVATION = 944.88

TBM 101
"X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.

ELEVATION = 947.48



UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

OHIO & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-929-0988 OR 811

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PUBLIC ROADWAY WIDENING PLANS
FOR
SHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
TITLE SHEET

DESCRIPTION

SHEET NO.

DATE

REVISIONS

DATE:	11/1/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

GENERAL NOTES

- CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), INCLUDING BUILDING PERMITS, ETC.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.
- THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTLEMENT OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- NON-RUBBER TIRE VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
- THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:
 CONSTRUCTION INSPECTION DIVISION
 CITY OF COLUMBUS
 1800 EAST 17TH AVENUE
 COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:
 DIVISION OF ENGINEERING
 CITY OF DUBLIN
 5800 SHIER RINGS ROAD
 DUBLIN, OHIO 43016

- ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
- ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED. WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING

CONSTRUCTION SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
- PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
- TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
- ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
- ALL INLETS SHALL BE CHANNELIZED.
- PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
 IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
 IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
 GERMINATION RATE: 85%
 APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
- TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
- STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

- THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:
 (INSERT NAME OF UTILITY)
 (INSERT NAME OF UTILITY)
- THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0498), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
- THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
- LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

- TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
- ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 8:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
- STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO ODEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITILE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

- ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

SANITARY SEWERS

- CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
- SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.
- ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
- ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
- ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECT TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
- FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
- ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
- SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
- WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
- THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

- RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
- KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
- LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
- OR EQUAL AS APPROVED BY THE CITY ENGINEER.
- RUBBER GASKET COMPRESSION.
- PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
- DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
- LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
- OR EQUAL AS APPROVED BY THE CITY ENGINEER.

THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

- ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
- ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.
- ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.
- PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.
- NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
- ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
- ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
- THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
- WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.
- WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
- CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
- IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.
- ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
- TWO 3/4 INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.



PUBLIC ROADWAY WIDENING PLANS
 FOR
SCHIER RINGS ROAD
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

PLOT SCALE: 1"=100' DATE: 11/01/21 1:02:26 PM EDITED BY: MROCHE DRAWING FILE: C:\2019\010745.DWG DRANKING\SCHEM\CONSTRUCTION\DOCUMENTS\PUBLIC\ROADWAY\2019\01745.GE.TS.DWG

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STORM SEWER

- ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
- HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."
- STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MAIL DELIVERY

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

- THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

ESTIMATE OF QUANTITIES			
THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.			
ROADWAY			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	20	LF	REMOVE CURB & GUTTER
202	33	SF	CONCRETE REMOVAL
202	9	SY	PAVEMENT REMOVAL
203	420	CY	EXCAVATION
203	2,368	CY	EMBANKMENT
204	1,515	SY	SUBGRADE COMPACTION
301	191	CY	BITUMINOUS AGGREGATE BASE
304	167	CY	AGGREGATE BASE
448*	40	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, MEDIUM TRAFFIC, PG64-22
448*	56	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE II, MEDIUM TRAFFIC, PG64-22
609	784	LF	CURB & GUTTER
659	3,300	SY	SEEDING & MULCHING
SPEC	1	LUMP	PROOF SURVEY, A.P.P.
STORM			
601	5	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	1	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03)
604	2	EA	PRECAST HEADWALL (AA-S168)
604	2	EACH	CURB & GUTTER INLET (AA-S125A) W/ GRATE (ST-04)
901	164	LF	21" STORM PIPE, WITH ITEM 912 BACKFILL
901	48	LF	24" STORM PIPE, WITH ITEM 912 BACKFILL
WATER			
801	486	LF	16" WATER PIPE & FITTINGS
801	6	LF	6" WATER PIPE & FITTINGS
802	2	EA	8"X6" TEE
802	2	EA	6" VALVE & APPURTENANCES
809	2	EA	FIRE HYDRANT, TYPE B
SPEC	1	LUMP	CONNECT TO EXISTING 16" WATER
SPEC	1	LUMP	SURVEY COORDINATES
EROSION CONTROL			
207	3,300	SY	TEMPORARY SEEDING AND MULCHING
SPEC	4	EA	NO. 2 STONE CHECK DAM
SPEC	5	EA	INLET PROTECTION
MAINTENANCE OF TRAFFIC*			
614	1	LUMP	MAINTAINING TRAFFIC
CALCULATED BY: GPB DATE: 06/29/2021 CHECKED BY: JRP 06/29/2021			

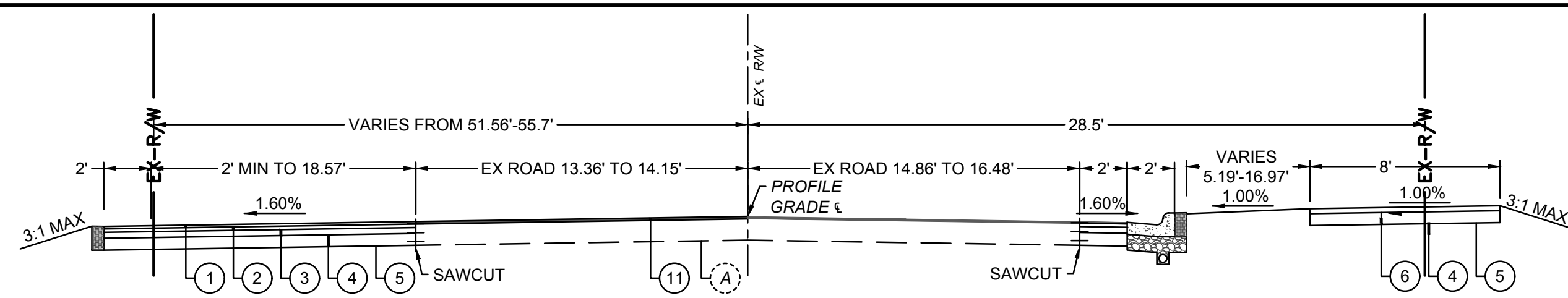


PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES & SUMMARY

REVISIONS	DATE	SHEET NO.	DESCRIPTION

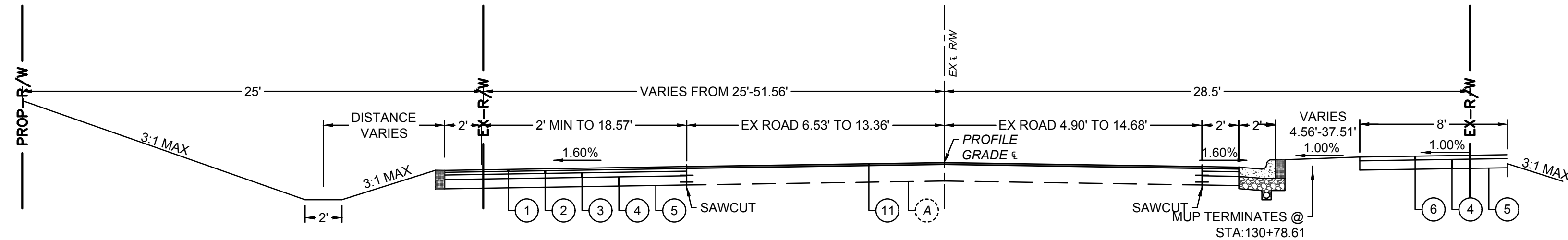
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CHECKED BY:	JRP
JOB NUMBER:	2019.01745

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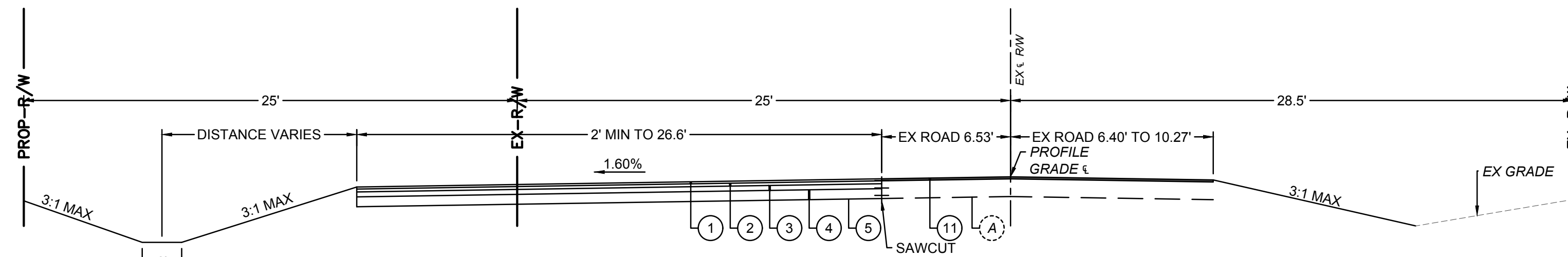
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NOT TO SCALE

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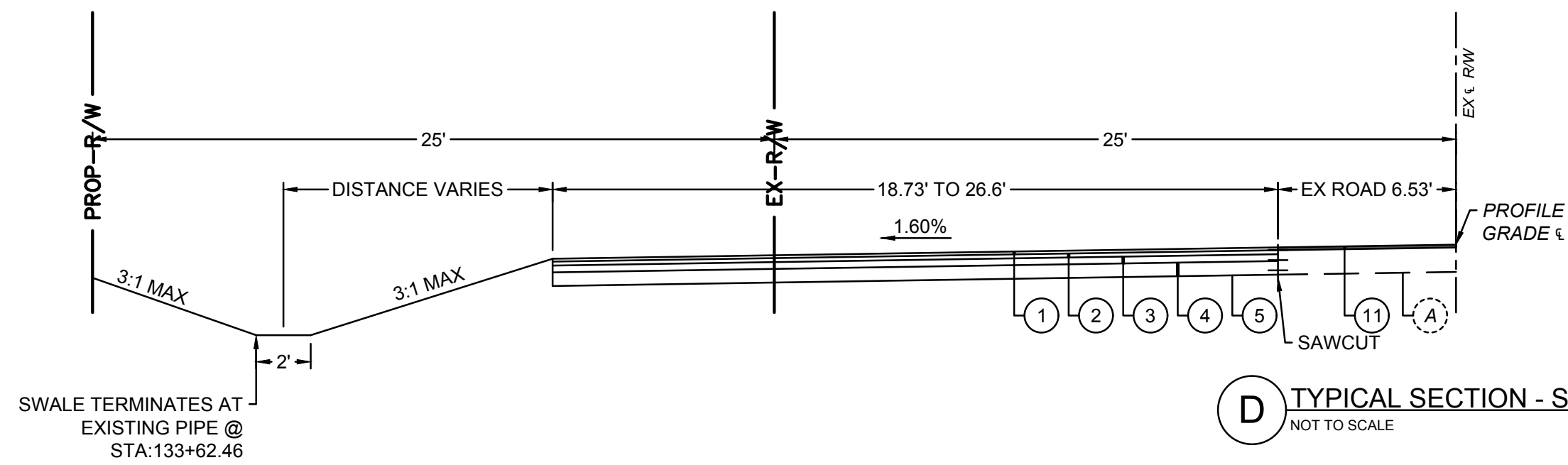
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NOT TO SCALE

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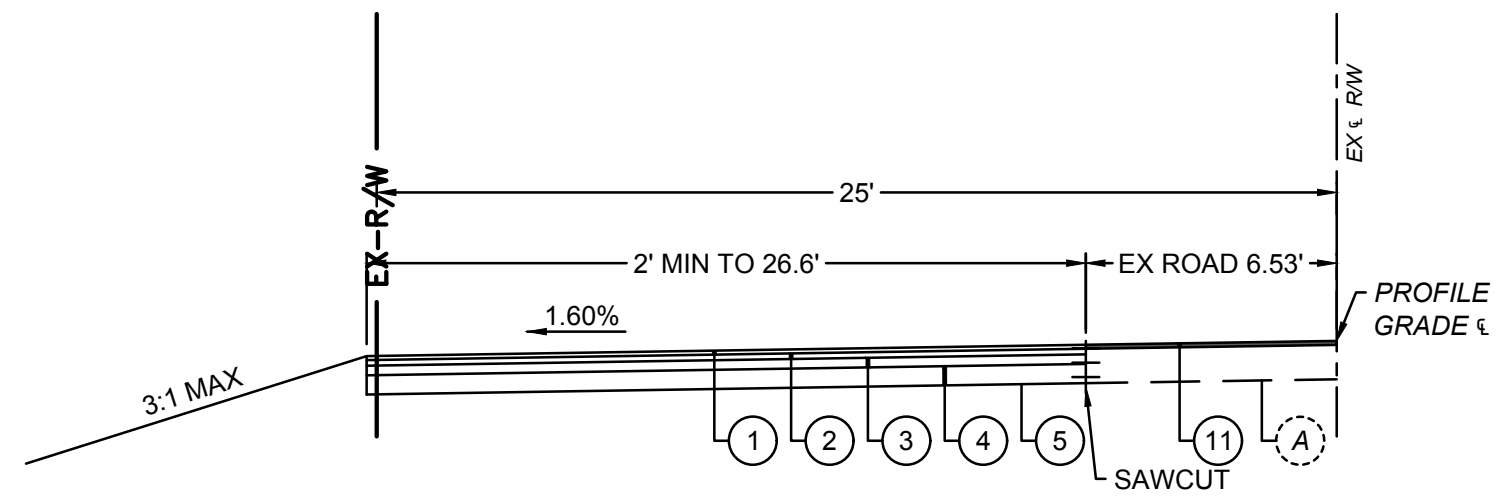
C TYPICAL SECTION - SHIER RINGS ROAD
NOT TO SCALE

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SHIER RINGS ROAD	STA: 130+78.77	STA: 131+21.87



D TYPICAL SECTION - SHIER RINGS ROAD
NOT TO SCALE

STATION DATA		
NAME	BEGIN STA	END STA
SHIER RINGS ROAD	STA: 131+21.87	STA: 133+64.02



E TYPICAL SECTION - SHIER RINGS ROAD
NOT TO SCALE

STATION DATA		
NAME	BEGIN STA	END STA
SHIER RINGS ROAD	STA: 133+64.02	STA: 135+61.68

SECTION KEY	
①	TEM 441, 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), MEDIUM TRAFFIC, PG64-22
②	TEM 441, 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), MEDIUM TRAFFIC, PG64-22
③	TEM 301, 6" BITUMINOUS AGGREGATE BASE
④	TEM 304, 6" AGGREGATE BASE
⑤	TEM 204, SUBGRADE COMPACTION
⑥	TEM 441, 2-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), MEDIUM TRAFFIC, PG64-22
⑦	TEM 605, 4" PIPE UNDERDRAIN (COLS. 720.12)
⑧	TEM 609, 6" CONCRETE COMBINATION CURB & GUTTER (INCLUDING #57 AGGREGATE BASE)
⑨	TEM 653, 3" TOPSOIL FURNISHED AND PLACED
⑩	TEM 659, SEEDING AND MULCHING, CLASS 1
⑪	MILL EX SURFACE COURSE AND OVERLAY WITH ITEM 441, 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), MEDIUM TRAFFIC, PG64-22
Ⓐ	EX SECTION PAVEMENT



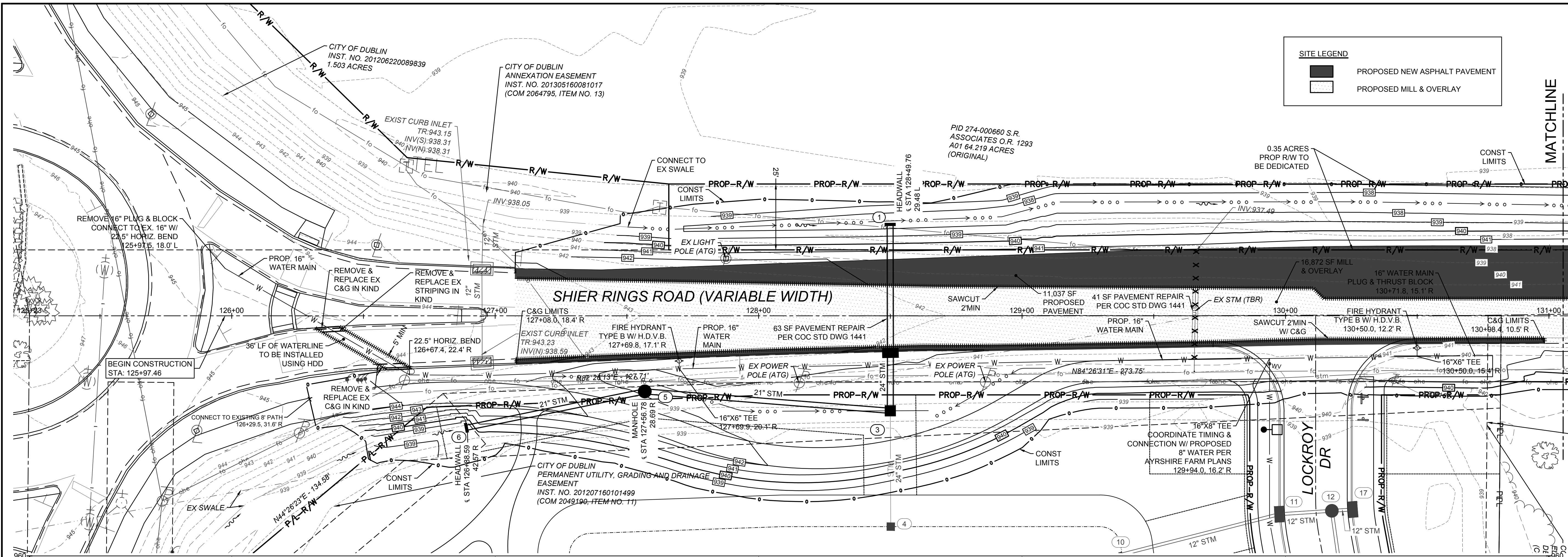
2550 Corporate Exchange Dr., Ste 300 | Columbus, Ohio 43221
TEL: 614.881.1226
www.structurepoint.com

PUBLIC ROADWAY WIDENING PLANS
FOR
SHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
TYPICAL SECTIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	GPB
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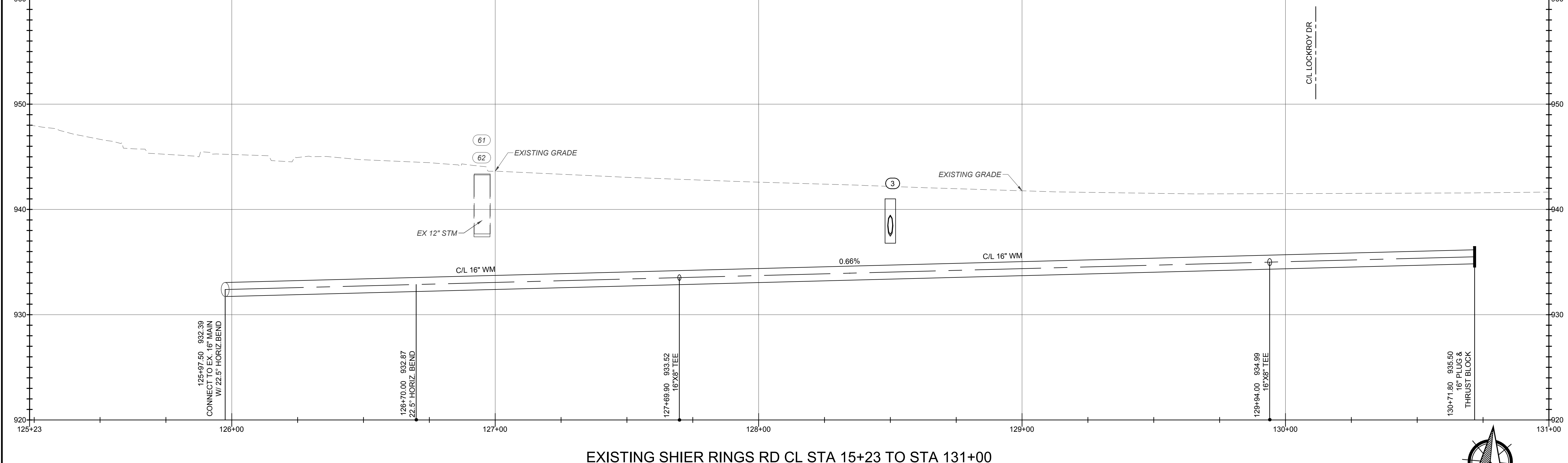
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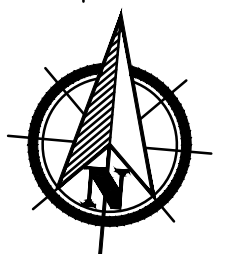
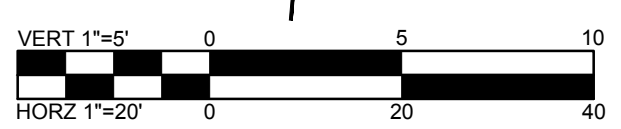
SITE LEGEND

- PROPOSED NEW ASPHALT PAVEMENT
- PROPOSED MILL & OVERLAY

MATCHLINE



EXISTING SCHIER RINGS RD CL STA 15+23 TO STA 131+00



AMERICAN STRUCTUREPOINT INC.
 2550 Corporate Exchange Ct., Ste. 500 | Columbus, Ohio 43221
 TEL: 614-916-1226
 WWW.STRUCTUREPOINT.COM

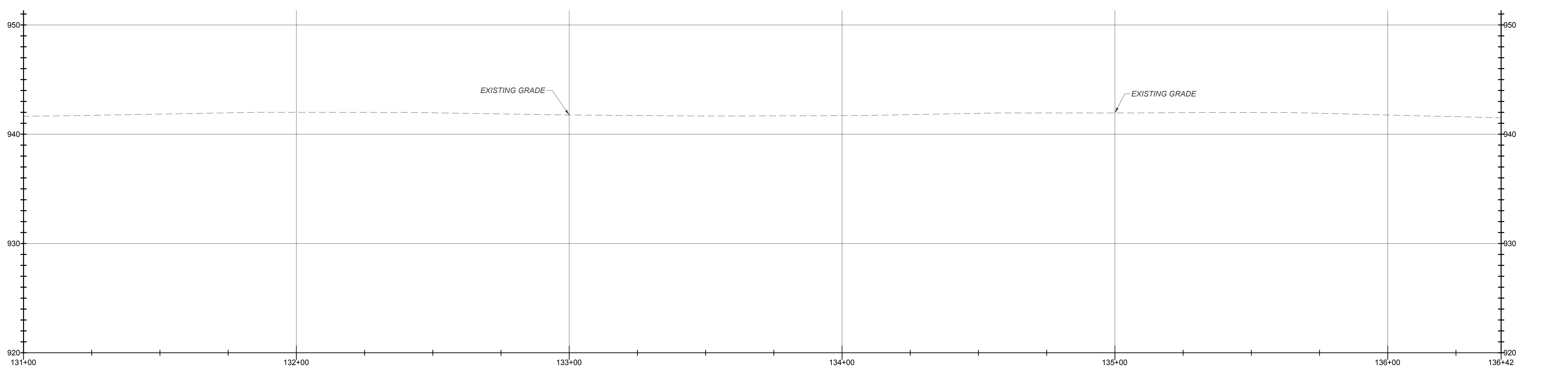
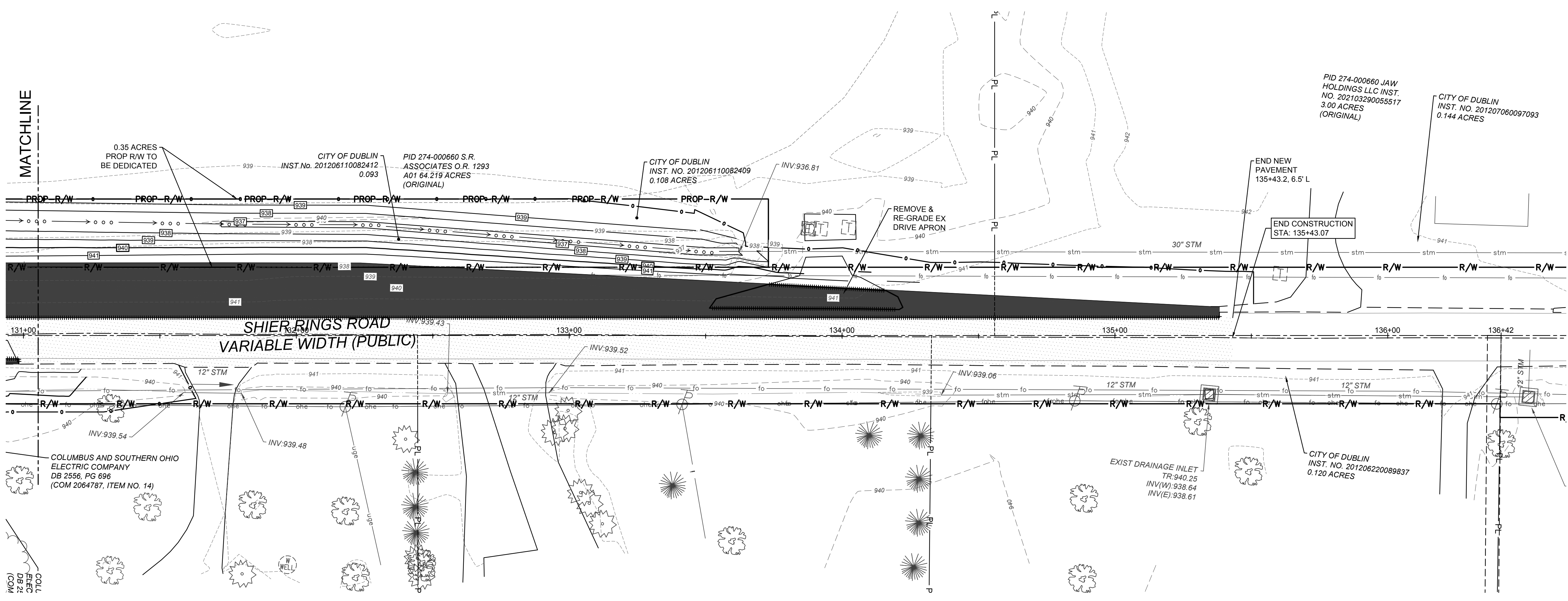
PUBLIC ROADWAY WIDENING PLANS
 FOR
SCHIER RINGS ROAD
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN AND PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

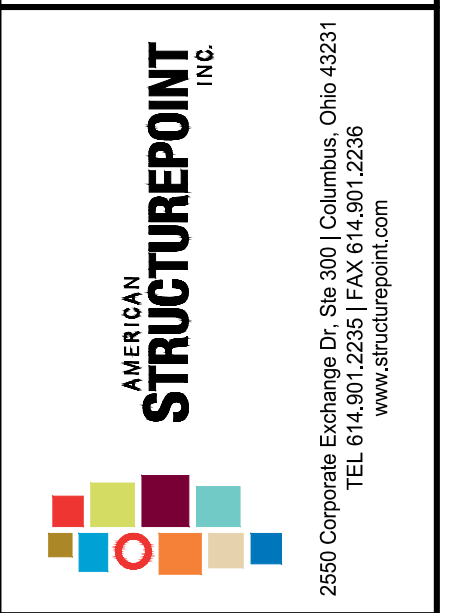
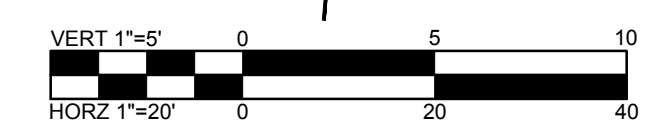
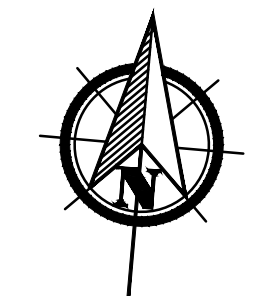
DATE:	11/1/2021
DRAWN BY:	GPB
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JOB NUMBER:	2019.01745

5/22

PLOT SCALE: 1:1 EDIT DATE: 10/31/21 5:44 PM EDITED BY: MROCHIE DRAWING FILE: C:\2019\010745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\PUBLIC\ROADWAY\2019\010745.CE.PWP.DWG



EXISTING SCHIER RINGS RD CL STA 131+00 TO STA 136+42



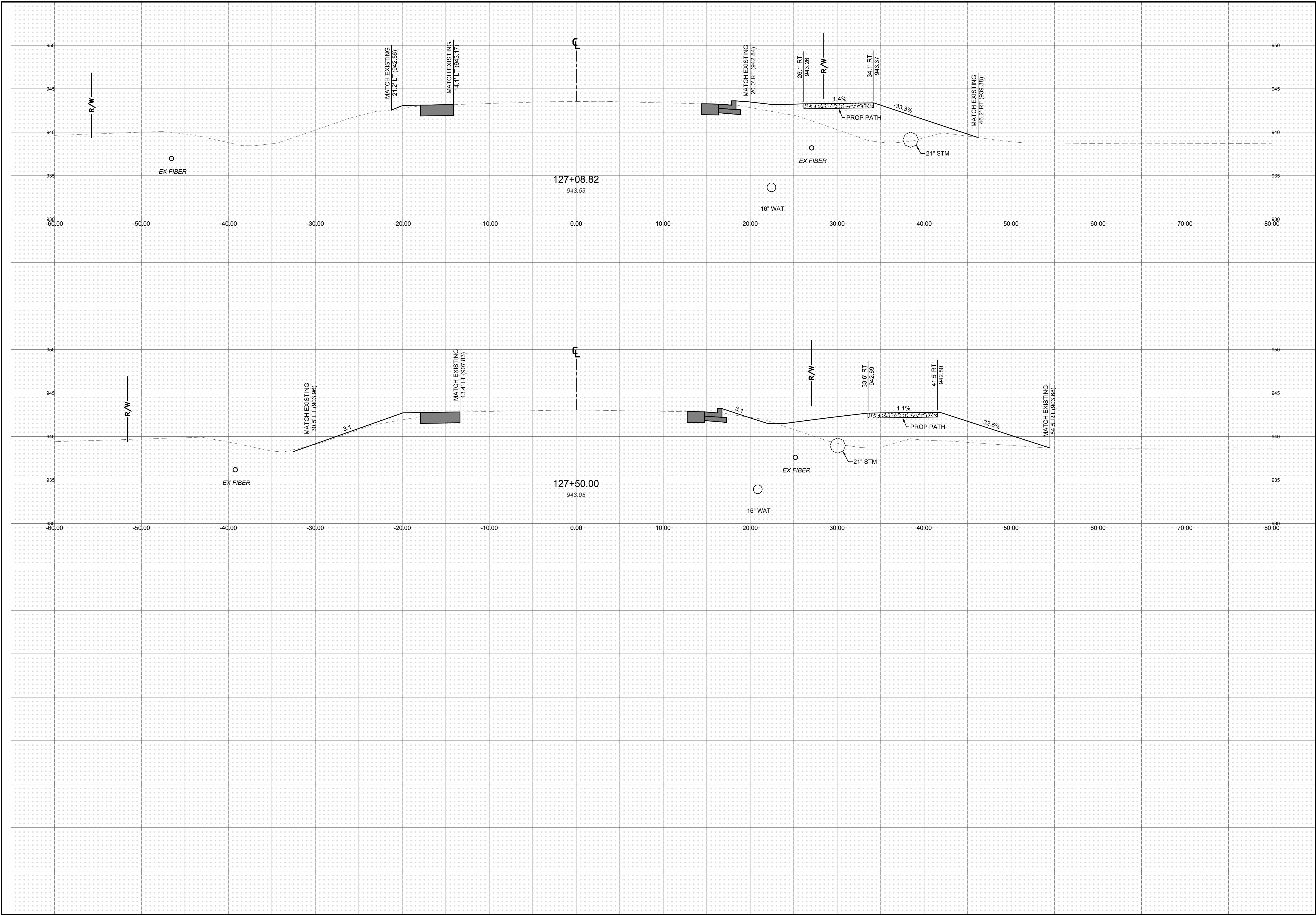
PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN AND PROFILE


REVISIONS	DATE	SHEET NO.	DESCRIPTION


DATE: 11/1/2021
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PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

SHIER RINGS CROSS SECTIONS

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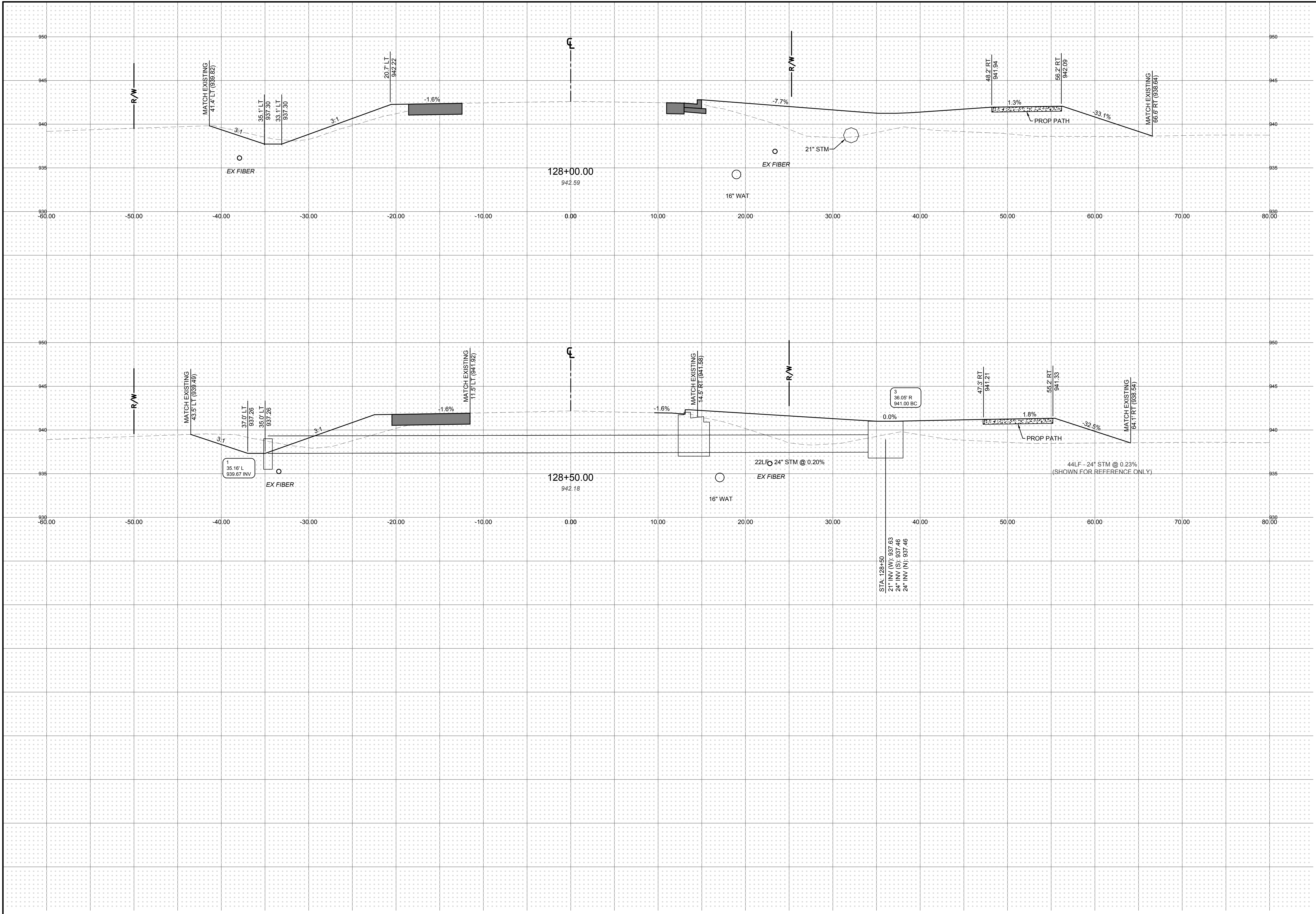
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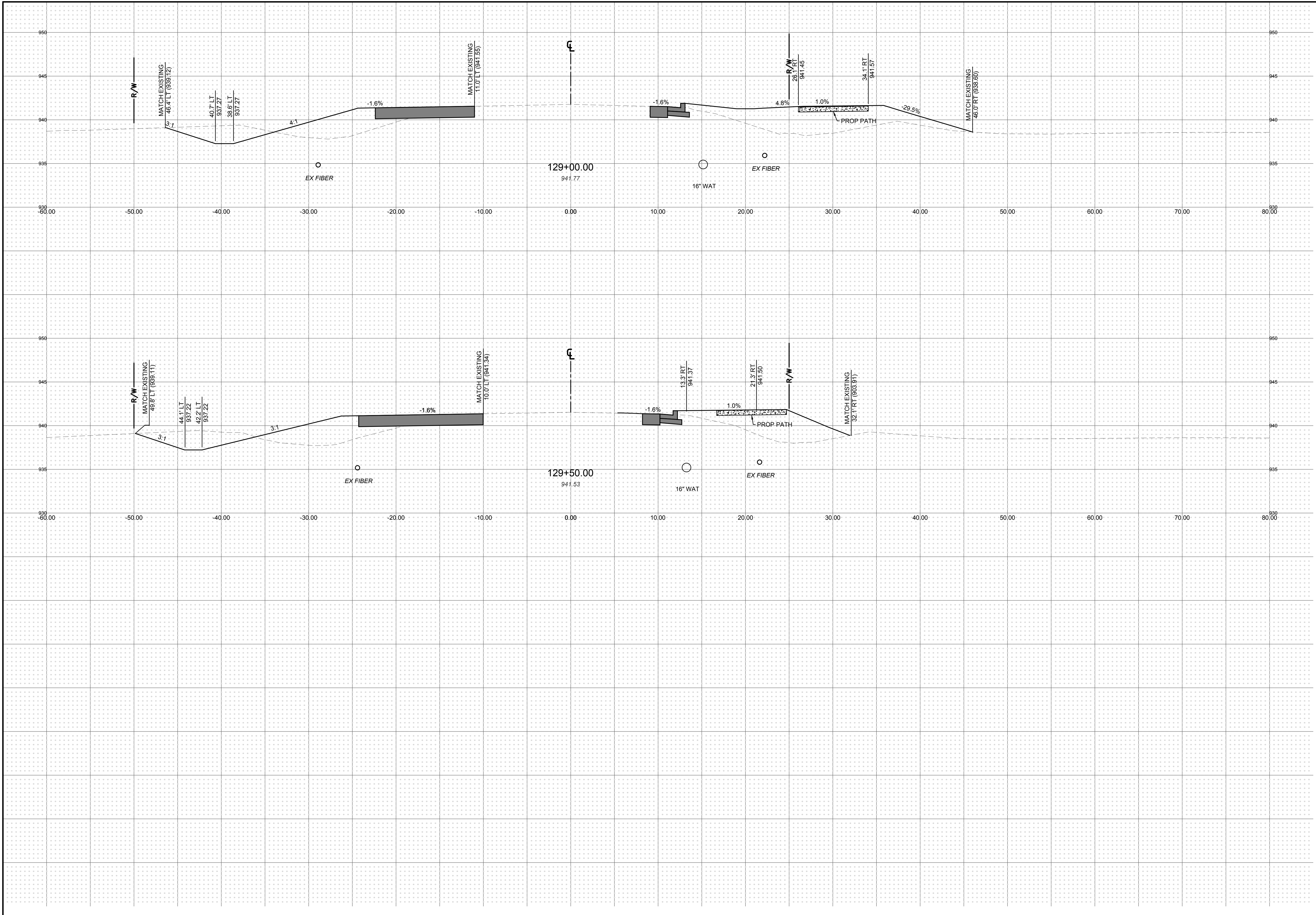
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 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

SHIER RINGS CROSS SECTIONS




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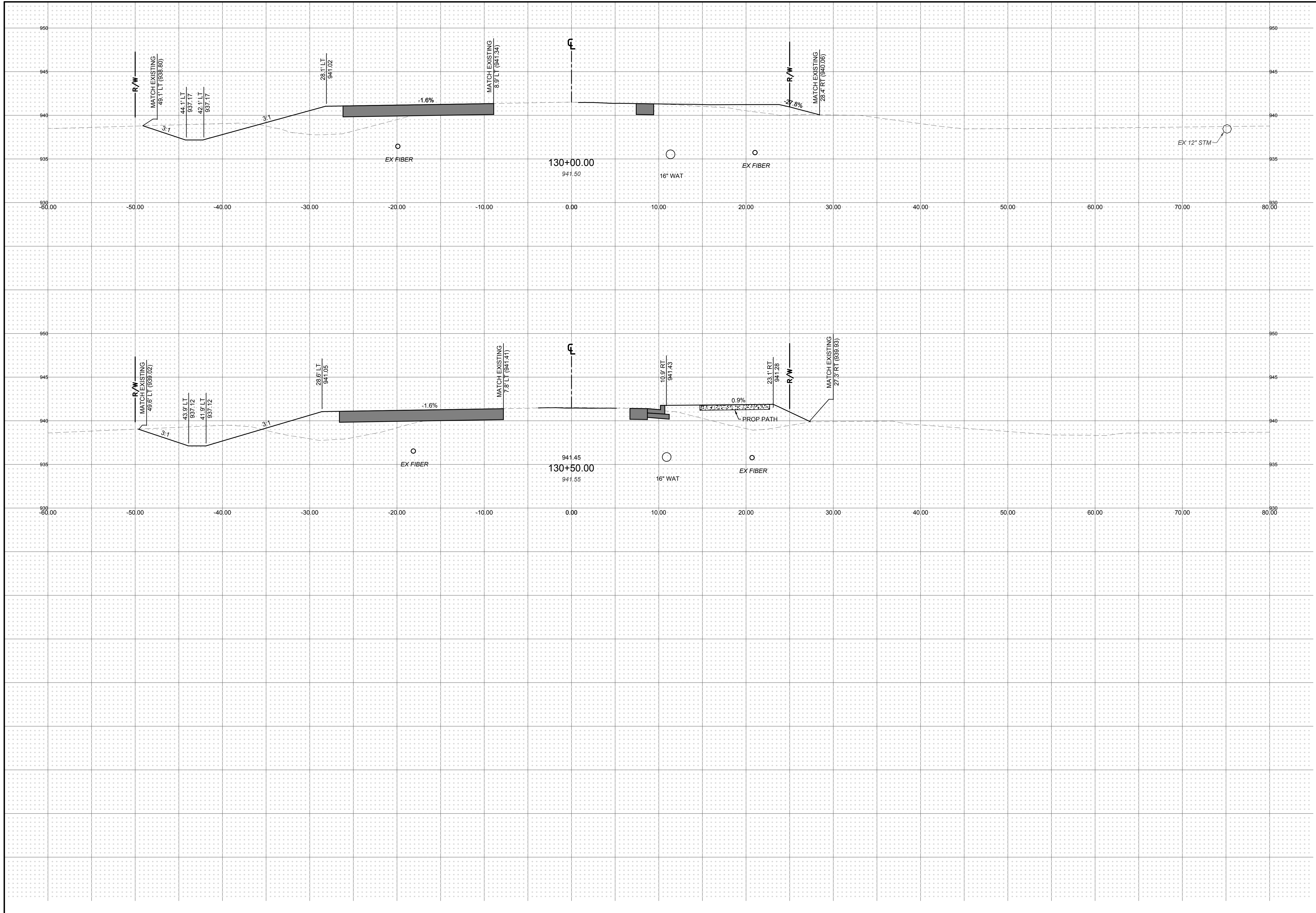
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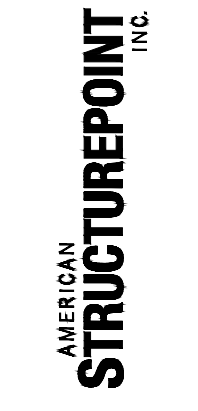
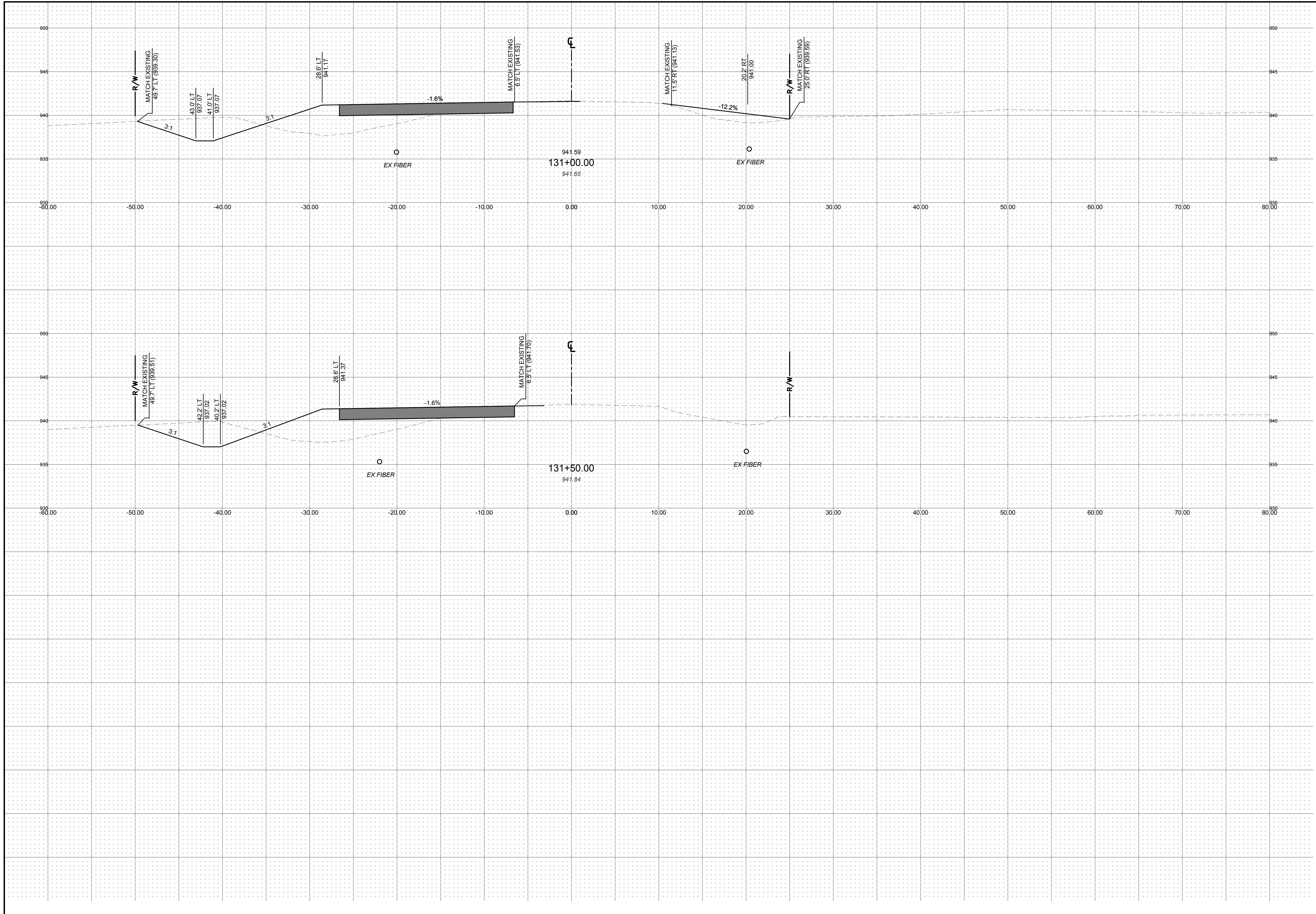
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SHIER RINGS CROSS SECTIONS



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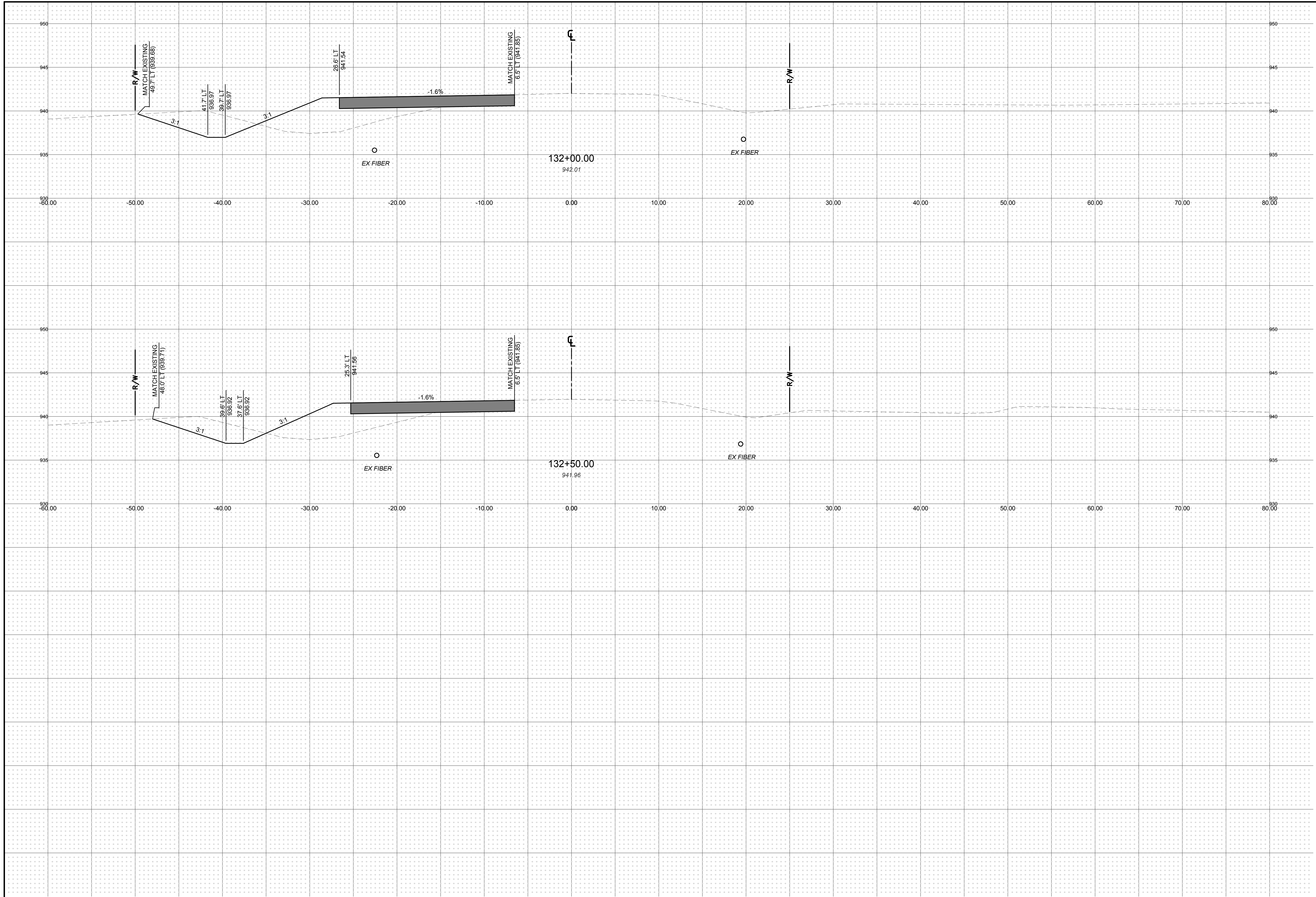
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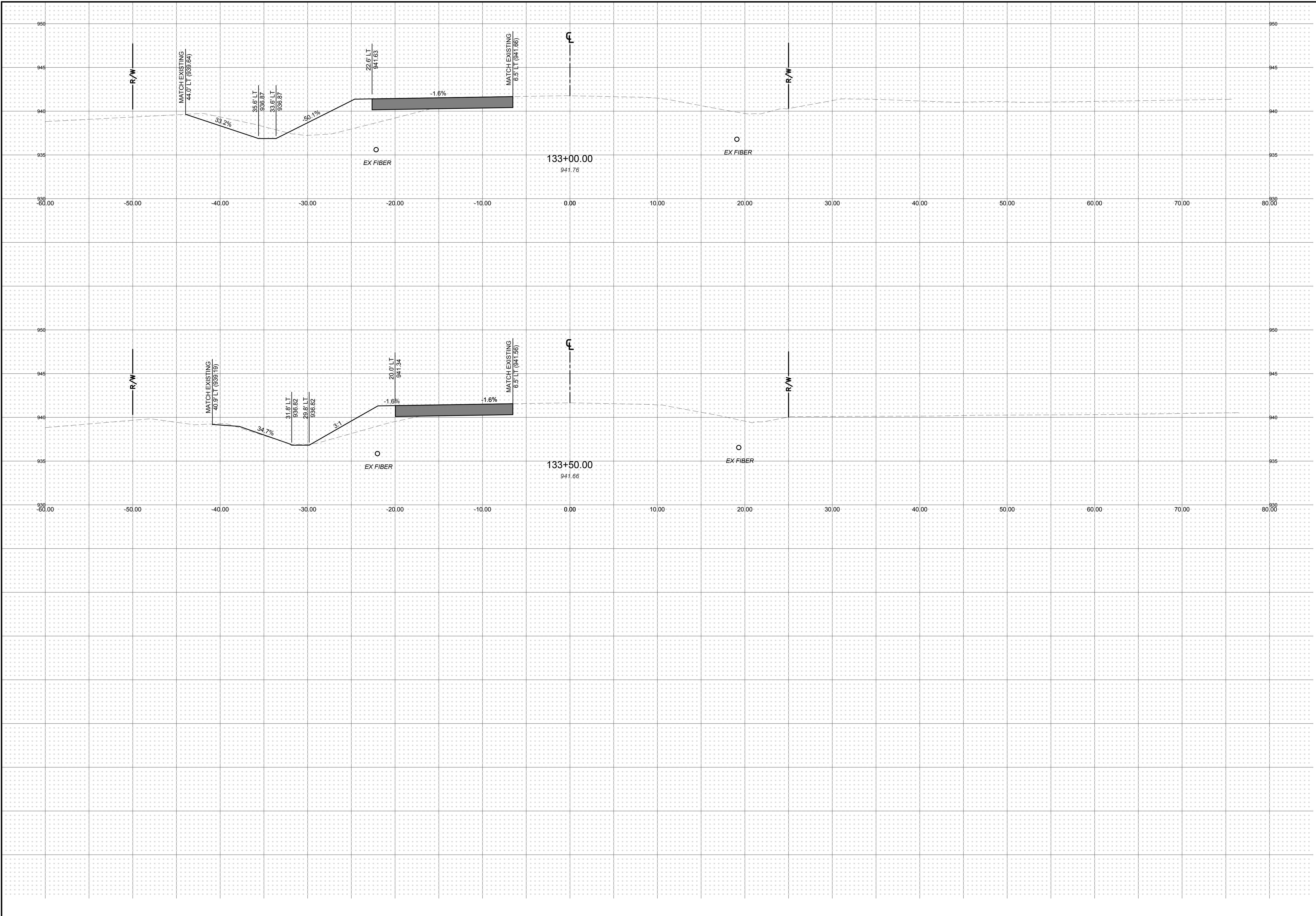
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SHIER RINGS CROSS SECTIONS



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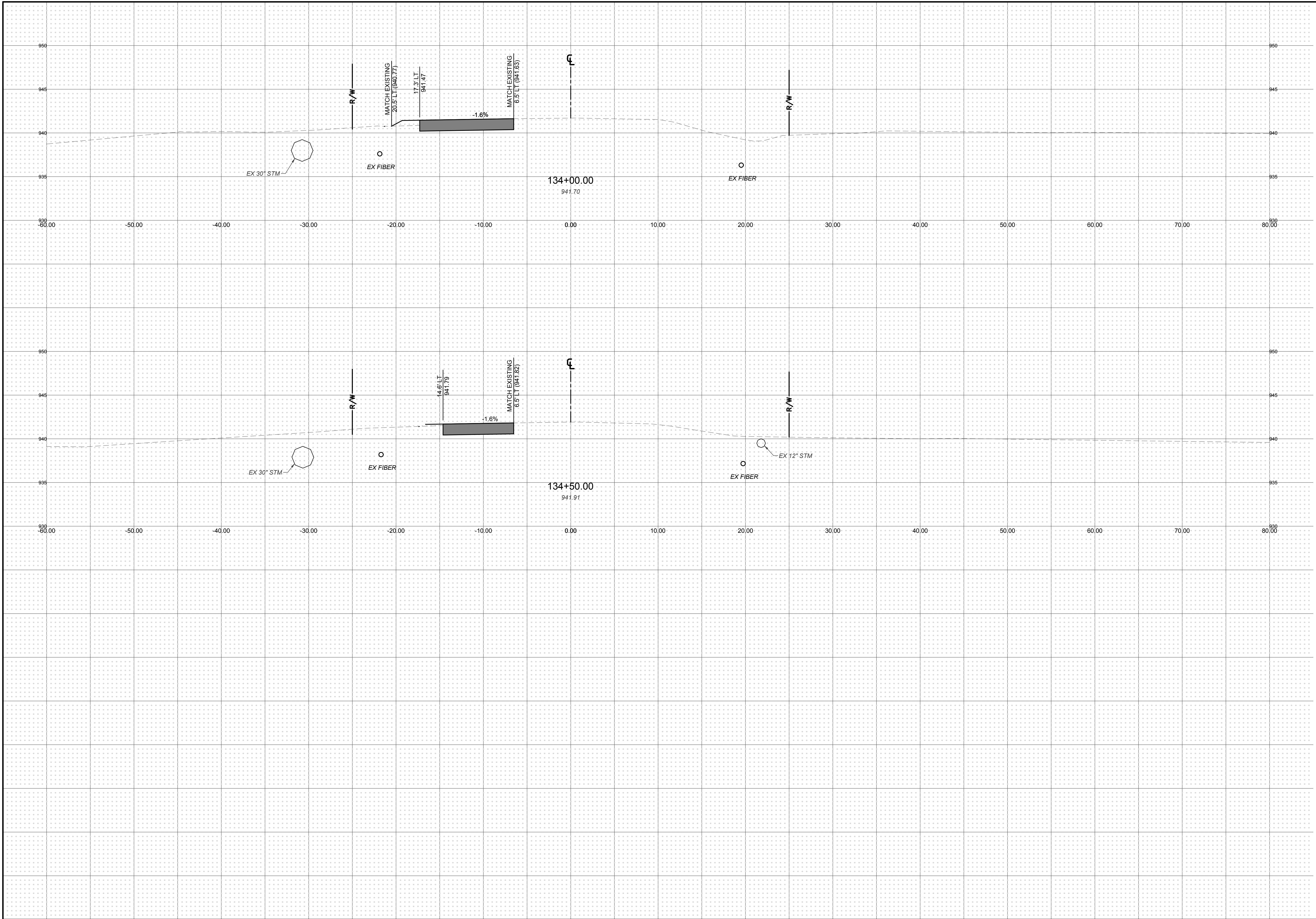
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
SHIER RINGS CROSS SECTIONS

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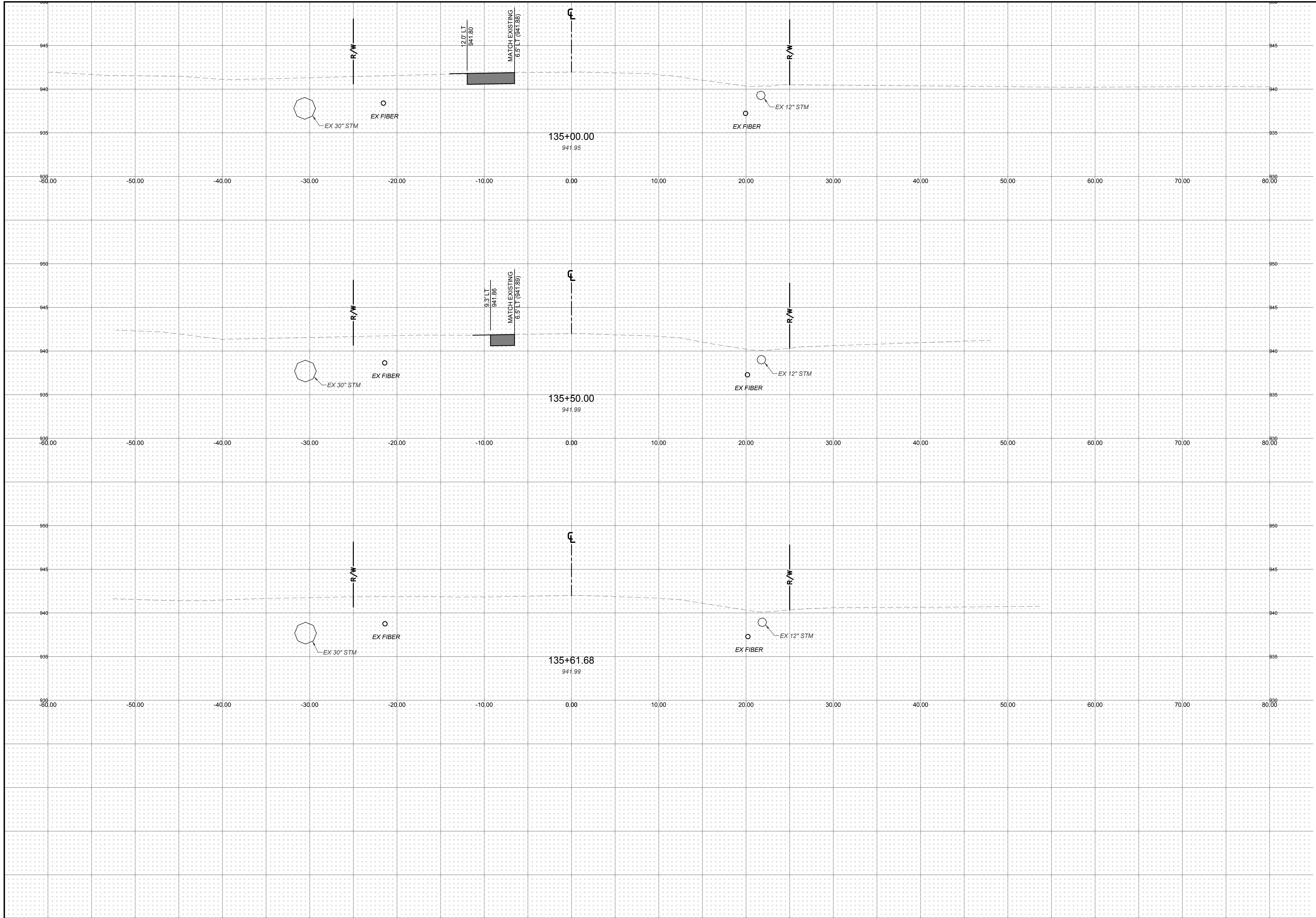
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 FOR
SCHIER RINGS ROAD
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
SHIER RINGS CROSS SECTIONS



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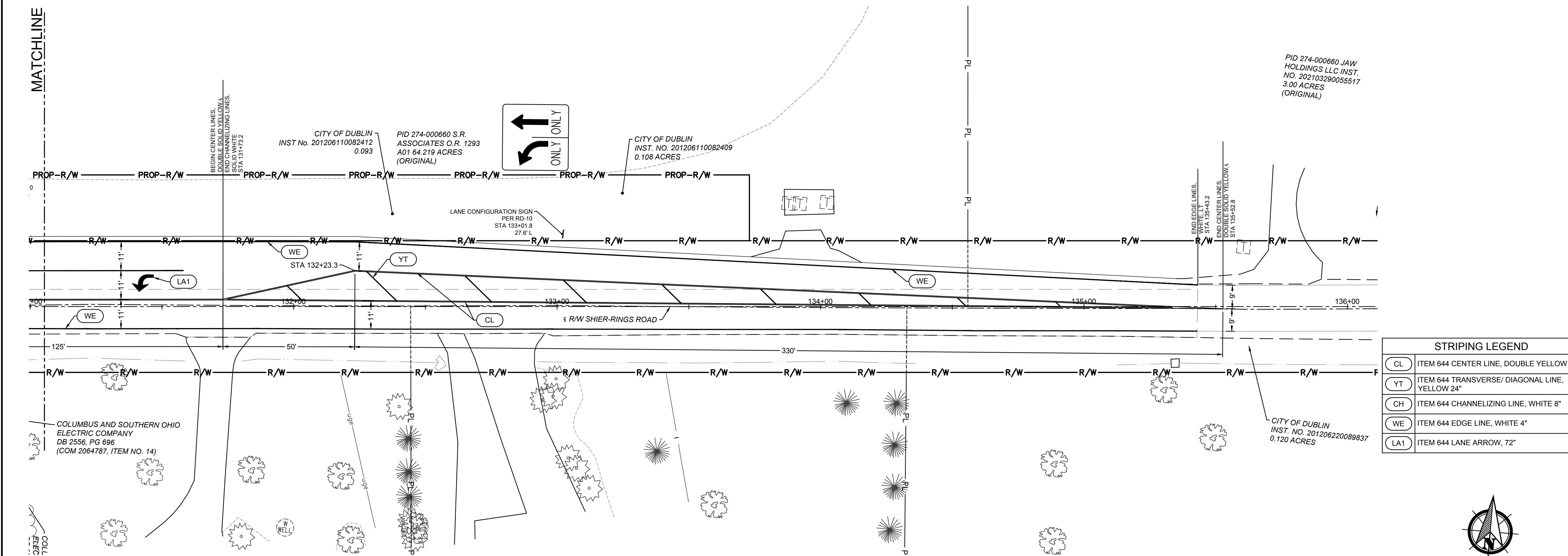
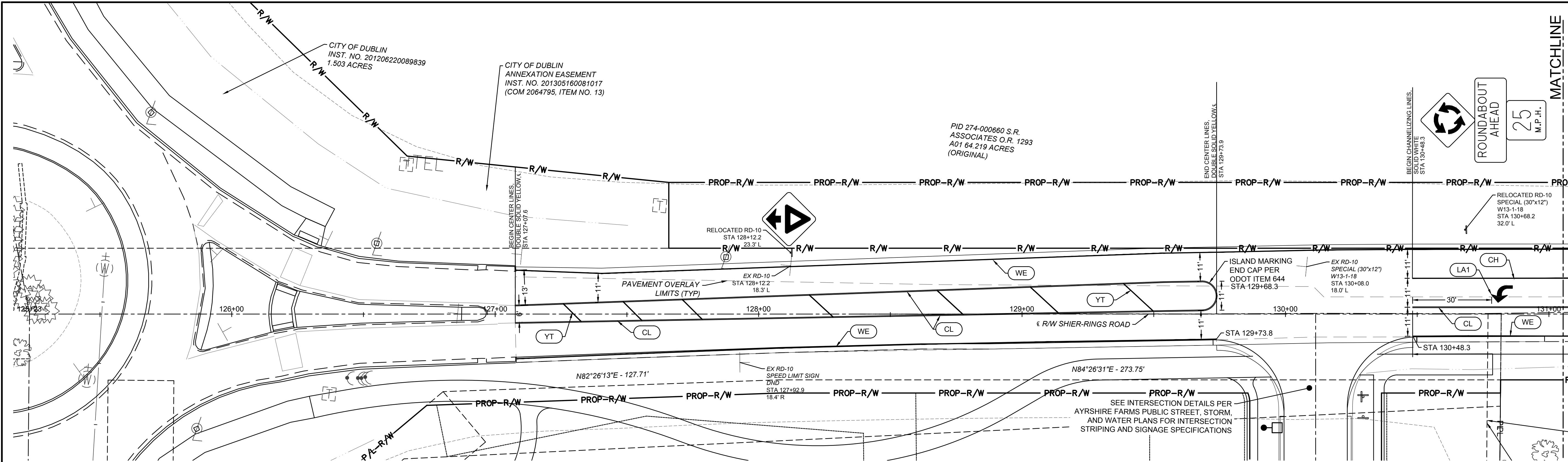
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
SHIER RINGS CROSS SECTIONS

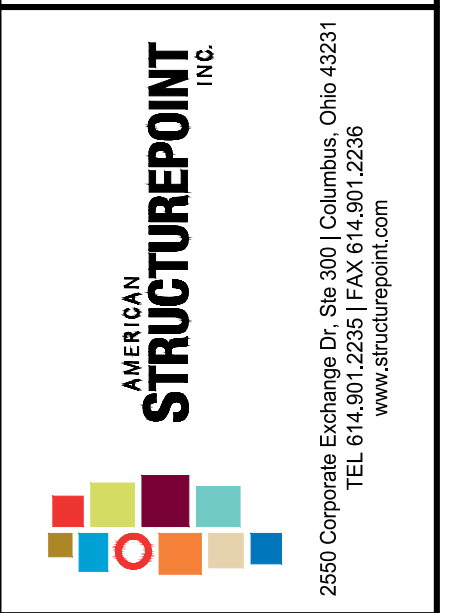
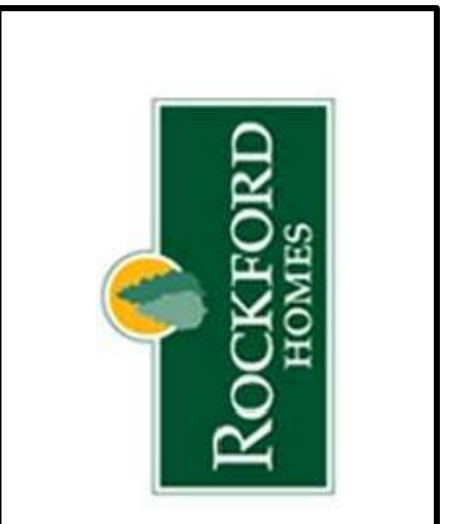
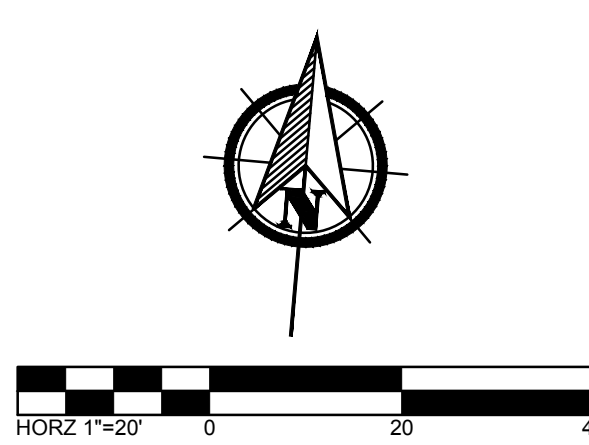

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STRIPING LEGEND	
CL	ITEM 644 CENTER LINE, DOUBLE YELLOW 4"
YT	ITEM 644 TRANSVERSE/ DIAGONAL LINE, YELLOW 24"
CH	ITEM 644 CHANNELIZING LINE, WHITE 8"
WE	ITEM 644 EDGE LINE, WHITE 4"
LA1	ITEM 644 LANE ARROW, 72"

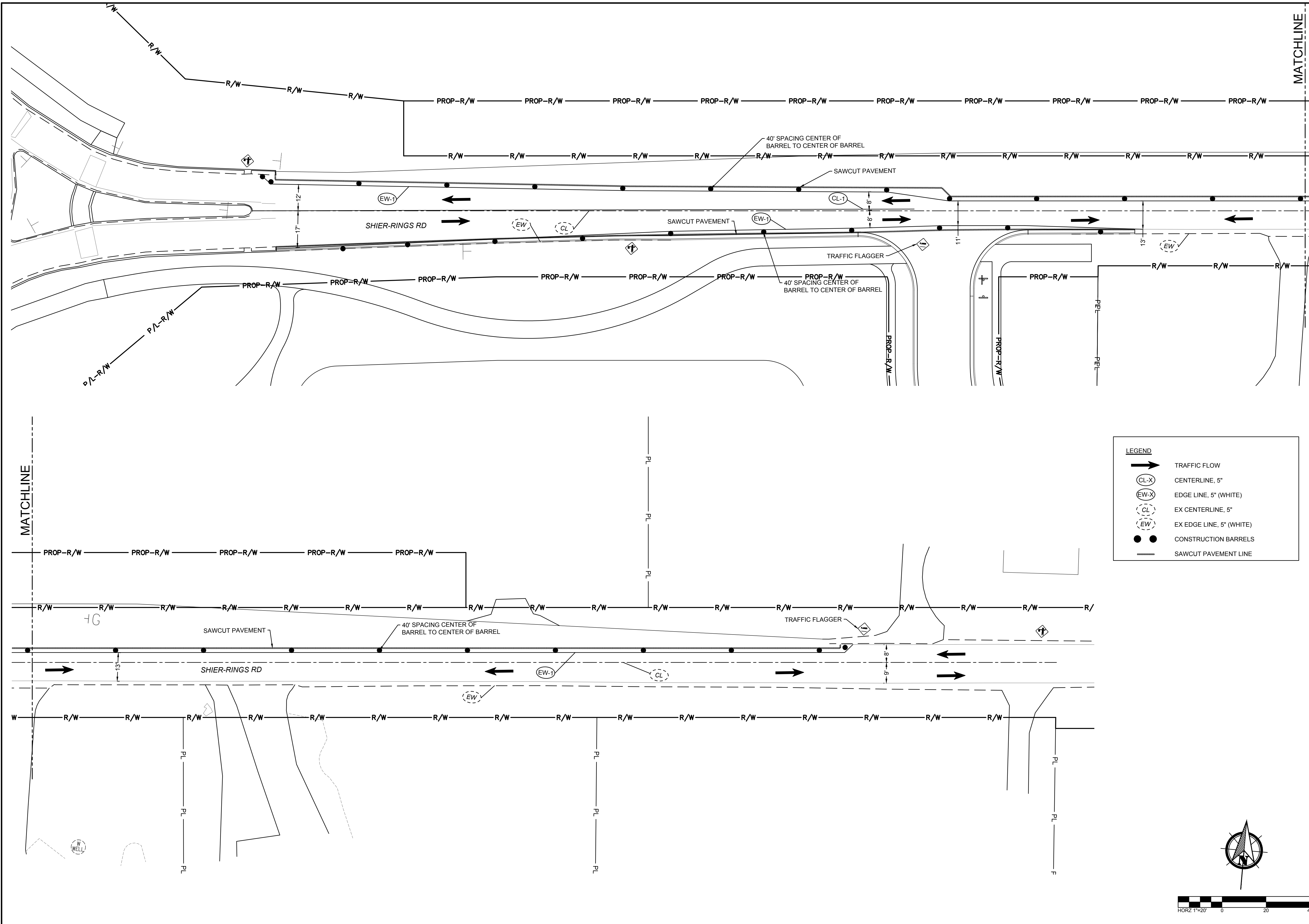


PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
SIGNING AND STRIPING PLAN

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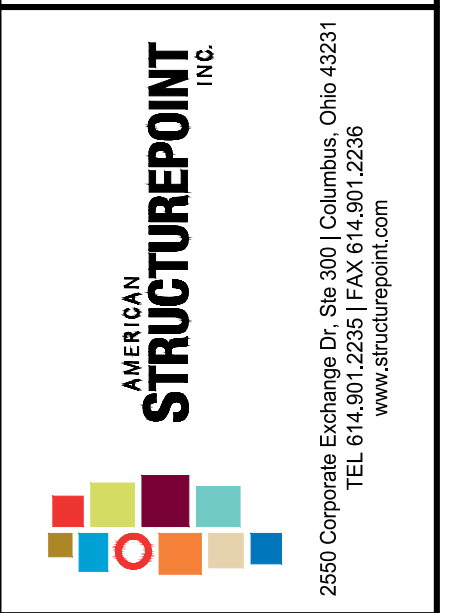
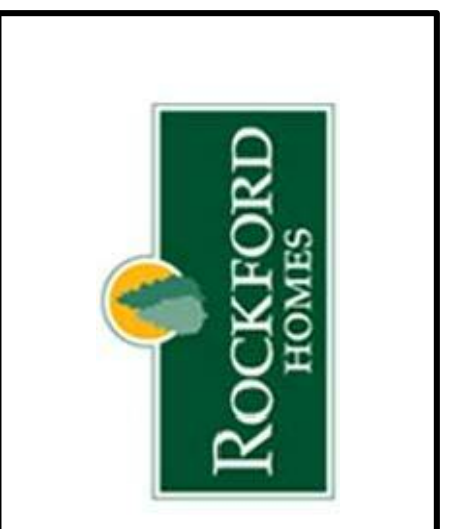
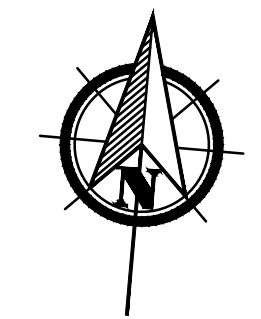
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LEGEND

- TRAFFIC FLOW
- CENTERLINE, 5"
- EDGE LINE, 5" (WHITE)
- EX CENTERLINE, 5"
- EX EDGE LINE, 5" (WHITE)
- CONSTRUCTION BARRELS
- SAWCUT PAVEMENT LINE



PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
**MAINTENANCE OF
TRAFFIC PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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CONSTRUCTION INITIATION

THE CONTRACTOR WILL ADVISE THE CITY 14 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE "CLIENT" OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION PROJECT. THE PROJECT ENGINEER WILL PROVIDE CLARIFICATION FOR ANY QUESTIONS ABOUT THE NOTIFICATION REQUIREMENT.

SHIER-RINGS ROAD DETOUR

TEMPORARY TRAFFIC SHALL BE DIVERTED UTILIZING COC STD DWG 1510.

COVERING OF SIGNS

THE CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH MAINTENANCE OF TRAFFIC SIGNS. COVERING OF SIGNS SHALL BE IN ACCORDANCE WITH 614.03. COSTS FOR COVERING SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR

USE OF LAW ENFORCEMENT OFFICES (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS FOR FLAGGERS TO BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- A. FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED. IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.
- B. DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE BLOCKAGE OF TRAFFIC IS REQUIRED.
- C. DURING A TRAFFIC MAST ARM AND POLE INSTALLATION.

LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES. THE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING LAW ENFORCEMENT AGENCY(S): CITY OF DUBLIN, FRANKLIN COUNTY SHERIFF'S OFFICE, OR OHIO STATE HIGHWAY PATROL.

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICE WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR - 60 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR.

ITEM 614 - MAINTAINING TRAFFIC

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH THE CONTRACT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, WILL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF DUBLIN AT LEAST 14 DAYS IN ADVANCE OF ANY PLANNED LANE CLOSURES OR OTHER DISRUPTION OF TRAFFIC.

THE CONTRACTOR SHALL SUBMIT A CLOSURE SCHEDULE AND DETOUR PLAN TO THE CITY OF DUBLIN FOR APPROVAL PRIOR TO INITIATING ANY CLOSURE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED ON THE PLANS.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE, WHEN NO LONGER NEEDED, PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AS REQUIRED. ONLY CLASS II SIGNS WILL BE APPROVED FOR USE ON THIS PROJECT.

THE SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. THE SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY.

WHEN NOT BEING USED FOR CLOSURES, THE SIGN SHALL BE REMOVED FROM THE PROJECT AND STORED.

PLACEMENT, OPERATION, MAINTENANCE, AND ALL ACTIVATION OF THE SIGN BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION, YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS.

THE ENGINEER SHALL BE PROVIDED ACCESS TO THE SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATING INSTRUCTIONS ENABLING CITY OF DUBLIN PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ONBOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION WITH UP TO SIX (6) MESSAGE PHASES SHALL BE SUPPORTED, BUT NORMALLY, NOT MORE THAN THREE (3) MESSAGE PHASES SHOULD BE EMPLOYED. A BLANK PHASE SHALL BE INSERTED AT THE END OF EACH MESSAGE. THE SPEED OF EACH PHASE SHALL BE ADJUSTED TO THE SPEED WHICH WILL PERMIT THE COMPLETE MESSAGE TO BE READ AT LEAST TWICE BY A MOTORIST TRAVELING THE SPEED LIMIT.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED, OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY PER DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614.03 (C). THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 2 HOURS INCLUDING WEEKENDS.

THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 104.04. AN ESTIMATED QUANTITY OF 6 SIGN-MONTH HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS ITEM. PAYMENT FOR THE ABOVE DISCUSSED ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER SIGN -MONTH FOR EACH ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 615 - TEMPORARY PAVEMENT, AS PER PLAN

THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING PAVEMENT BUILDUP:

- ITEM 448 - 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM TRAFFIC, PG64-22
- ITEM 448 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, MEDIUM TRAFFIC, PG64-22
- ITEM 301 - 3" BITUMINOUS AGGREGATE BASE
- ITEM 304 - 6" AGGREGATE BASE

ALTERNATIVE METHODS

THE CONTRACTOR MAY SUBMIT ALTERNATIVE METHODS FOR THE MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS FROM THE CHANGE. NO ALTERNATIVE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN RECEIVED FROM THE CITY OF DUBLIN IN WRITING.

SEQUENCE OF CONSTRUCTION

1. RELOCATE ALL UTILITIES AND PLACE ALL NEEDED MAINTENANCE OF TRAFFIC SIGNS, MARKINGS, AND DRUMS.
2. INSTALL NEW UNDERGROUND UTILITIES.
3. MILL EXISTING PAVEMENT WITHIN CONSTRUCTION LIMITS.
4. CONSTRUCT NEW LANES AND CURB & GUTTER.
5. PLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS.
6. COMPLETE ALL REMAINING CONSTRUCTION WORK.



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**MAINTENANCE OF TRAFFIC
NOTES**

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GENERAL NOTES

- A DETAILED TEMPORARY AND PERMANENT EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL BEFORE CONSTRUCTION IF ONE IS NOT INCLUDED IN THE PLANS. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. THE CONTRACTOR SHALL BE CONSIDERED THE DEVELOPER OF THE STORMWATER DISCHARGE.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE WATER LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT.
- ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT FILTERS, SILT FILTER FENCE, ROCK CHECK DAMS, AND TEMPORARY GROUND COVER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 45 DAYS OR MORE SHALL BE SEEDED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
- ALL DENUDED AREAS, INCLUDING STOCKPILED TOPSOIL AND EXCAVATED MATERIAL, ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.
- FINAL GRADING WILL BE CONSISTENT WITH PRECONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
- REMOVE ONLY THE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION. PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
- BACKFILL TRENCHES IMMEDIATELY AFTER USE. SEED AND MULCH TRENCH AREA WITHIN 1 WEEK AFTER AREA OR SECTION HAS BEEN OPENED.
- SETTLING FACILITIES, SEDIMENT FILTERS, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STORM SEWER INLET PROTECTION - ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE PROJECT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS INDICATED IN THE PLANS AND AS DIRECTED BY THE CITY ENGINEER.
- WORKING IN OR CROSSING STREAMS - STREAMS INCLUDING BED AND BANKS SHALL BE RESTABILIZED IMMEDIATELY AFTER IN-CHANNEL WORK IS COMPLETED, INTERRUPTED, OR STOPPED. TO THE EXTENT PRACTICABLE, CONSTRUCTION VEHICLES SHALL BE KEPT OUT OF STREAMS. WHERE IN-CHANNEL WORK IS NECESSARY, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. WHERE A STREAM MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CULVERT SHALL BE PROVIDED.
- CONSTRUCTION ACCESS ROUTES - MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS ELIMINATED. SEE STABILIZED CONSTRUCTION ENTRANCE DETAIL, THIS SHEET.
- SLOUGHING AND DUMPING - NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LANDSLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED, OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE PROBLEMS.
- MAINTENANCE AND INSPECTION - ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL DEVICES REQUIRED BY THE CITY ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE CITY ENGINEER, ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER A RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24-HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORMWATER DISCHARGES ASSOCIATED WITH THE PROJECT; EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED. ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ENGINEER WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFYING ANY INCIDENTS OF NONCOMPLIANCE.
- OUTFLOWS FROM DEWATERING OPERATIONS - ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH DISCHARGE.
- ADDITIONAL CONTROLS - THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO ANY STORMWATER FLOW.
- TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AVAILABILITY AND UPDATES - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND ADJUSTMENTS TO THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN.

PROHIBITED CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENTAL OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
- PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM DRAINS.
- DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, AND/OR ANY OTHER HARMFUL WASTE, INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOWLINE OF A STREAM.
- DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, OR SURFACE WATERS.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY (PUBLIC OR PRIVATE) NOT PREVIOUSLY SPECIFIED BY THE CITY ENGINEER FOR SAID PURPOSES.

STABILIZED CONSTRUCTION ENTRANCE

- STONE SIZE - USE 2 INCH STONE.
- LENGTH - AS REQUIRED (MINIMUM OF 50 FEET).
- THICKNESS - NOT LESS THAN 6 INCHES.
- WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER FABRIC - WILL BE PLACED OVER THE ENTIRE SUBGRADE PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ON TO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS NEEDED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN ON-SITE CONTAINMENT AREA.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.
- THE STABILIZED CONSTRUCTION ENTRANCE DESCRIBED IS A MINIMUM STANDARD FOR INGRESS AND EGRESS FROM THE CONSTRUCTION SITE ONTO PUBLIC RIGHT-OF-WAY. THE CONTRACTOR MAY VARY THE CONSTRUCTION AS NEEDED FOR SPECIFIC SITE CONDITIONS PROVIDED THAT ITS FUNCTION SATISFIES THE INTENT DESCRIBED HEREIN AS DETERMINED BY THE CITY ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

FILTER FABRIC FENCE

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP SLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

THIS WORK SHALL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT FOR ITEM 207 - "FILTER FABRIC FENCE".

INLET SEDIMENT FILTER

INSTALLATION AND MAINTENANCE OF INLET SEDIMENT FILTERS SHALL BE IN ACCORDANCE WITH THAT SPECIFIED FOR FILTER FABRIC FENCE.

NO 2 STONE CHECK DAM

FURNISH MATERIAL CONFORMING TO ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C OR D, WITHOUT FILTER. PLACE THE ROCK OUTSIDE THE TRAFFIC CLEAR ZONE IN THE DITCH. THIS WORK SHALL BE PAID AT THE UNIT PRICE BID PER LINEAR FOOT FOR "NO. 2 STONE CHECK DAM".

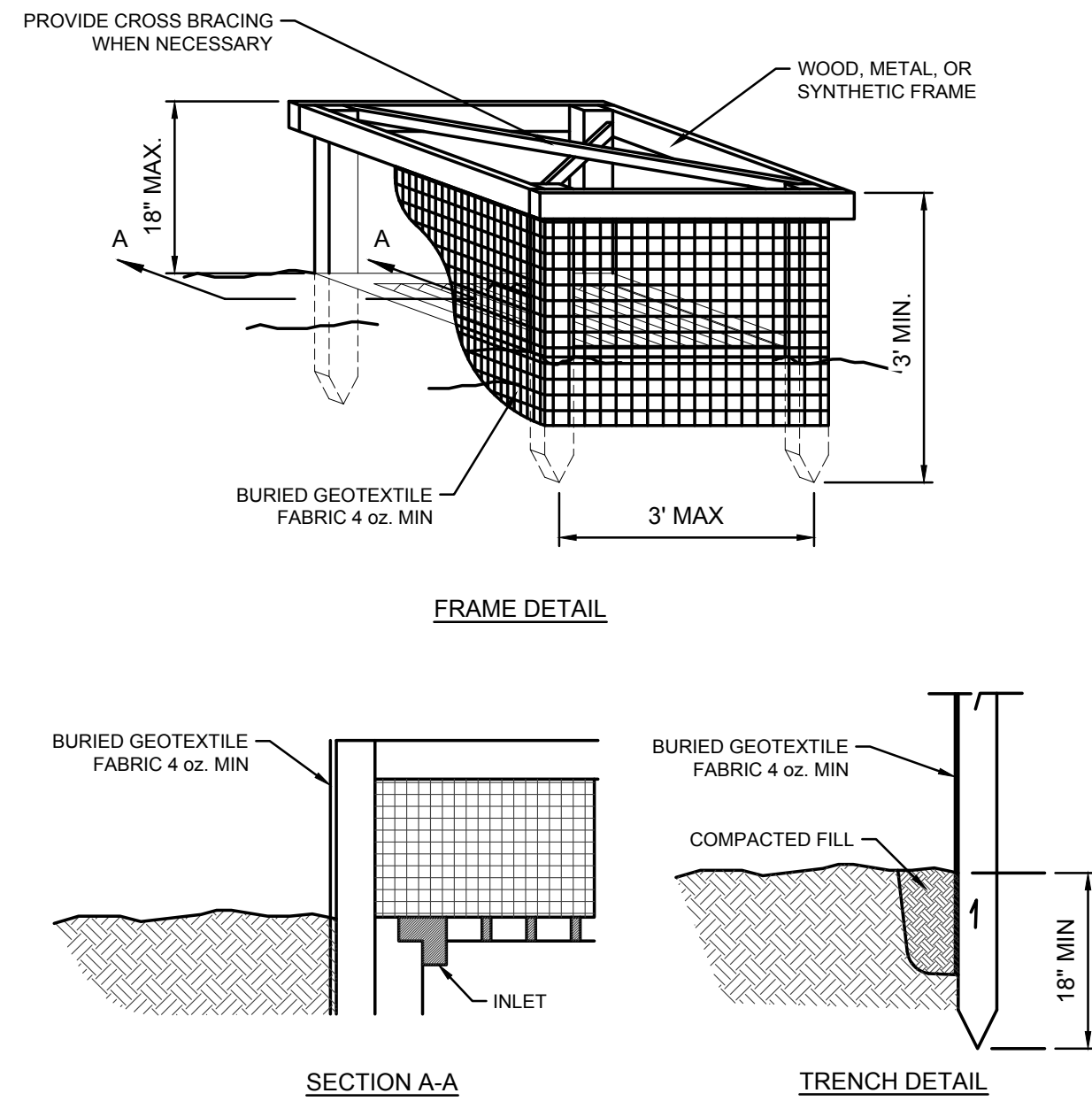


PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL NOTES

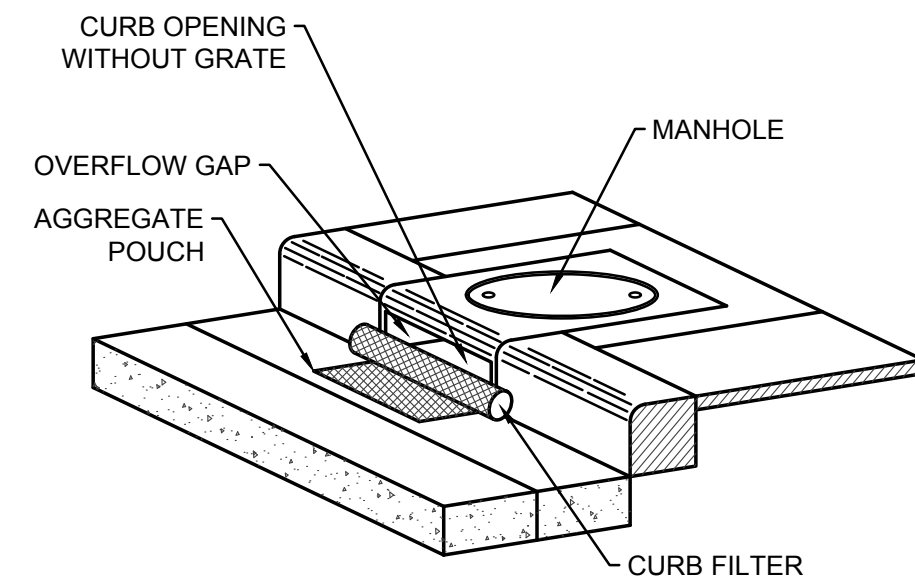
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745



NOTE:
PROVIDE FOR INLETS **NOT** LOCATED IN PAVEMENT

A SILT FENCE INLET PROTECTION
NOT TO SCALE



INSTALLATION:

1. STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
2. LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER.
3. INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST, THEN LOWER BACK INTO PLACE.
4. PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

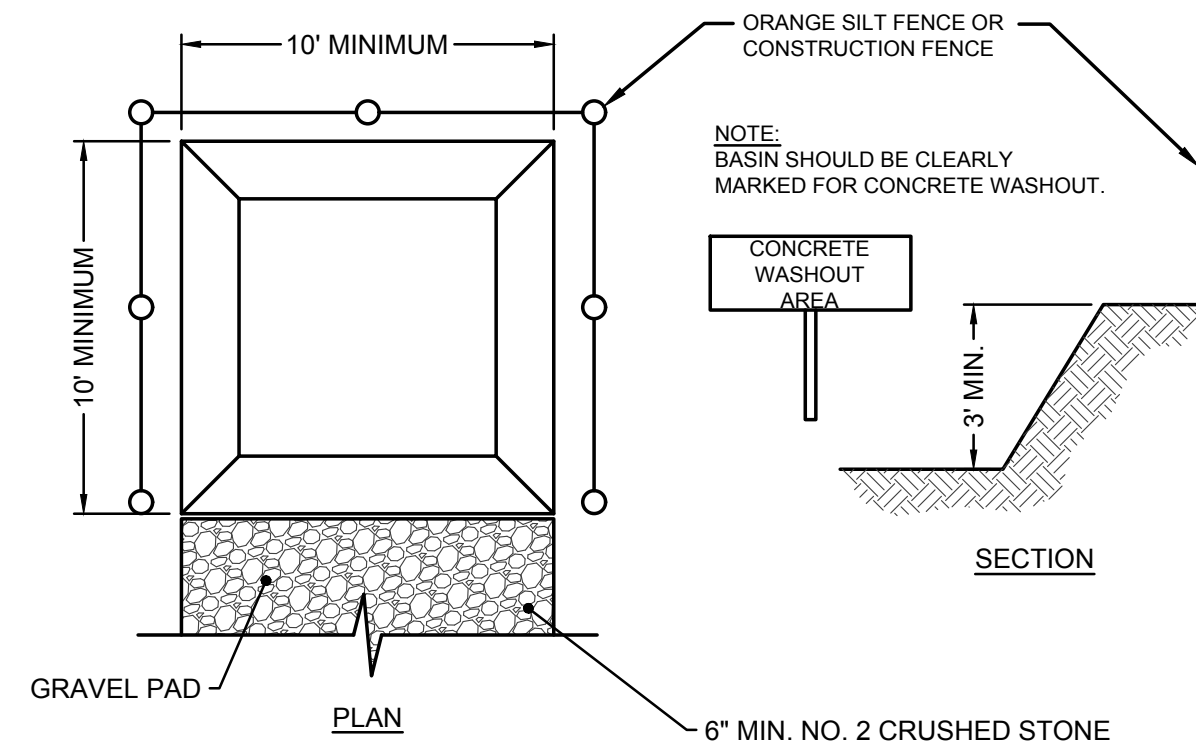
MAINTENANCE:

1. WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

D BEAVER DAM INLET PROTECTION
NOT TO SCALE

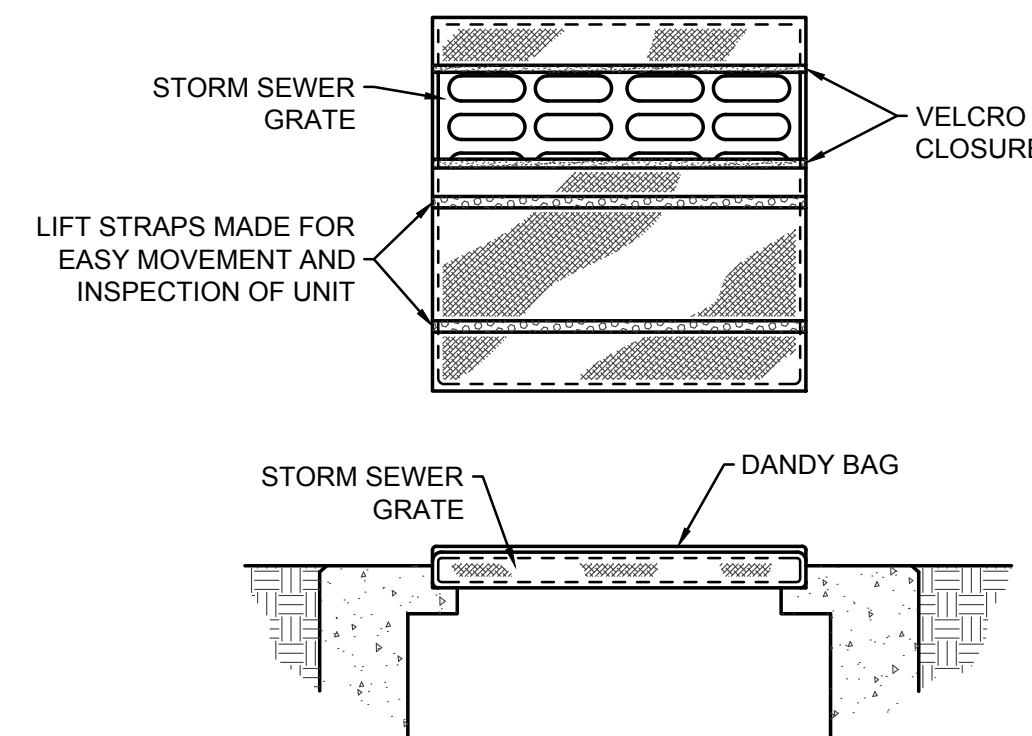
DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS

GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491



- NOTE:**
1. ACTUAL LAYOUT DETERMINED IN THE FIELD, BY CONTRACTOR.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

B CONCRETE WASHOUT AREA
NOT TO SCALE



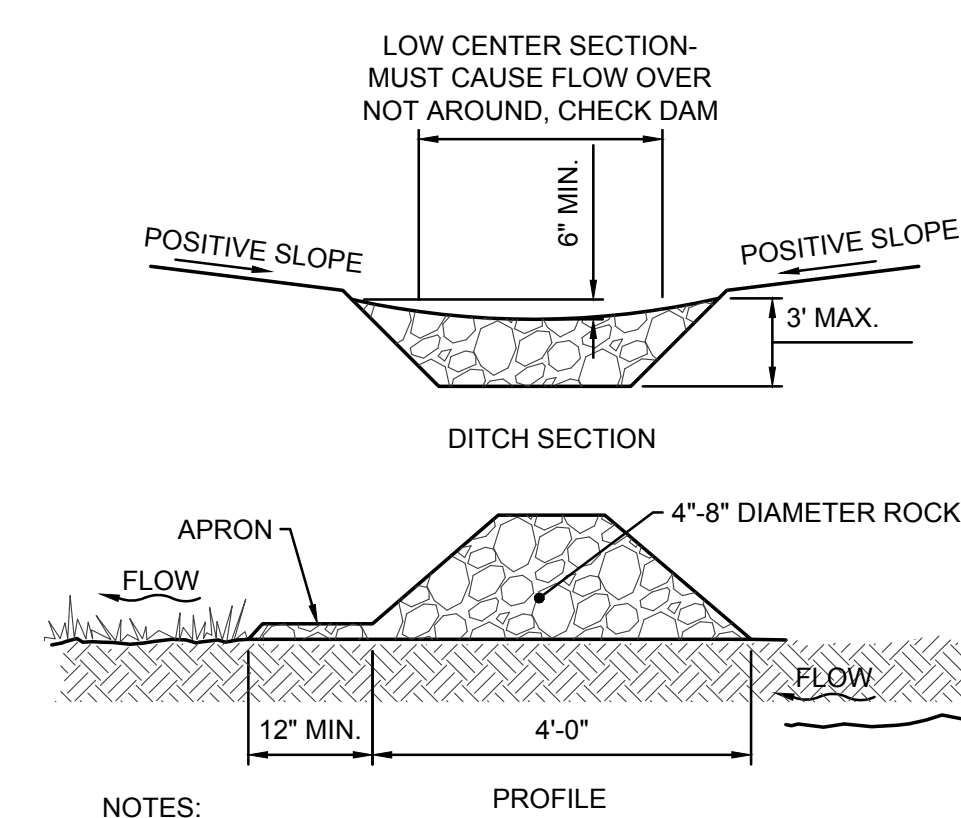
INSTALLATION:

1. STAND GRATE ON END. PLACE DANDY BAG OVER GRATE.
2. FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY.
3. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH THE GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

MAINTENANCE:

AFTER EACH STORM EVENT AND SILT HAS DRIED, REMOVE ACCUMULATED DEBRIS FROM THE SURFACE OF DANDY BAG WITH BROOM.

E DANDY BAG INLET PROTECTION
NOT TO SCALE



NOTES:

1. CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
2. SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
3. SIDE SLOPES SHALL BE A MINIMUM OF 2:1

C ROCK CHECK DAM
NOT TO SCALE



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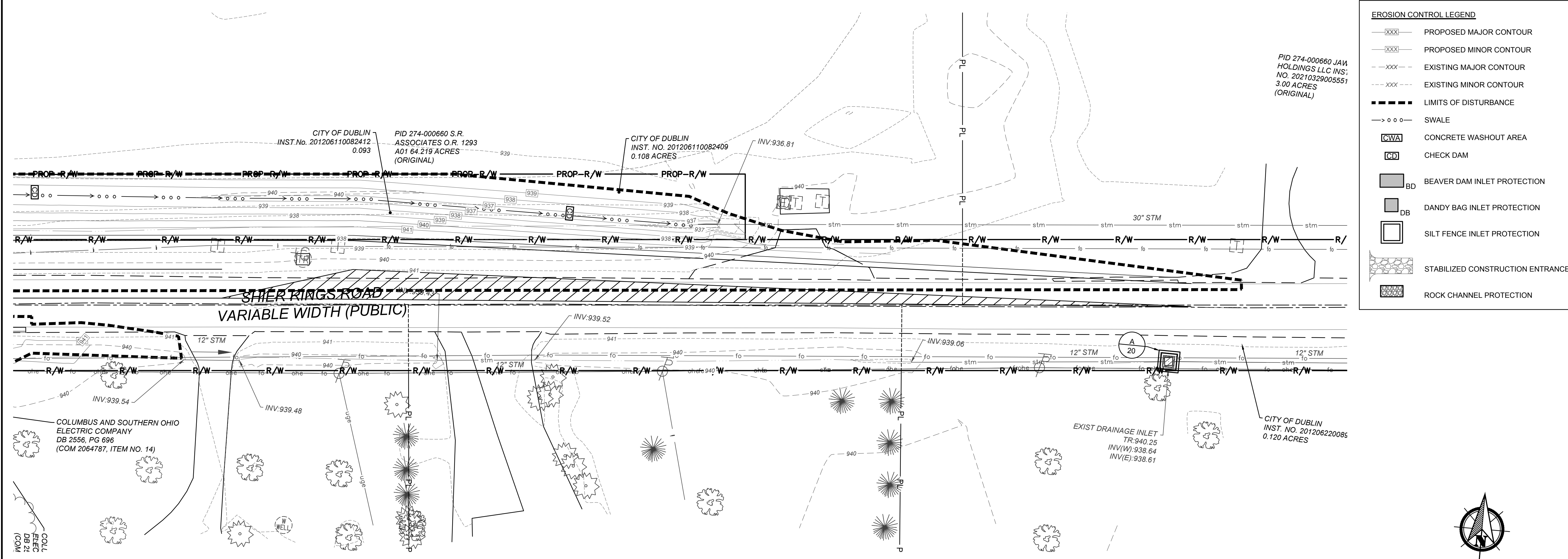
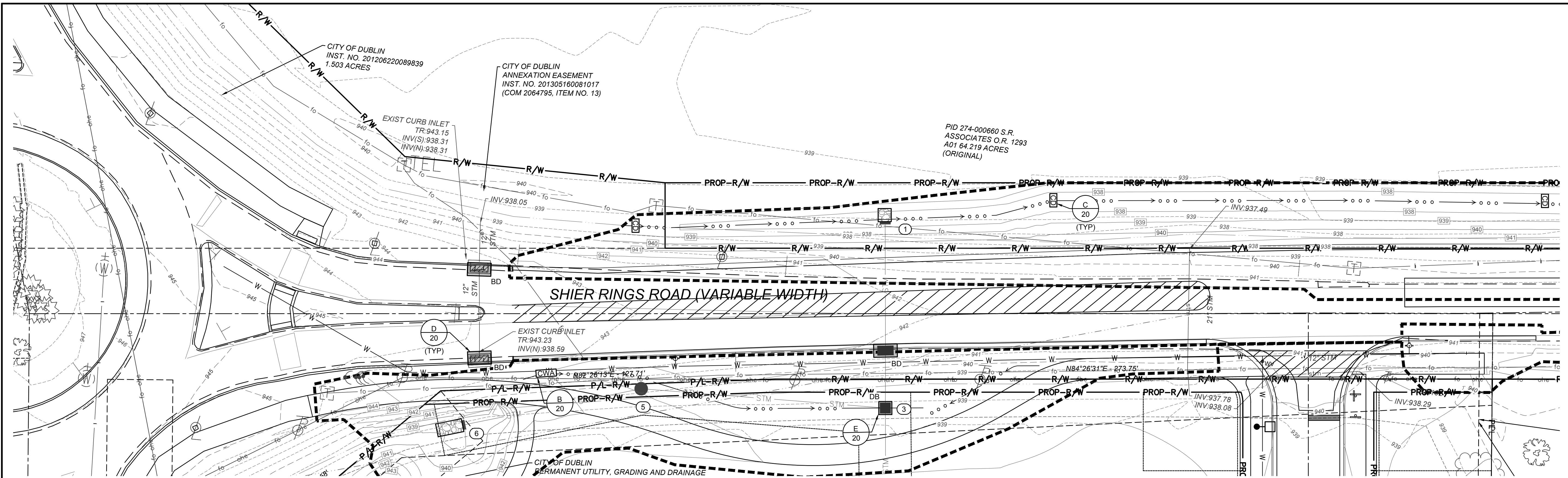
PUBLIC ROADWAY WIDENING PLANS
FOR
SCHIER RINGS ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL DETAILS

REVISIONS	DATE	DESCRIPTION

DATE:	11/1/2021
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PLOT SCALE: 1:1 EDIT DATE: 10/8/21 - 6:32 PM EDITED BY: MROCHIE DRAWING FILE: C:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\PUBLIC ROADWAY\2019.01745.CE.ESSC.DWG

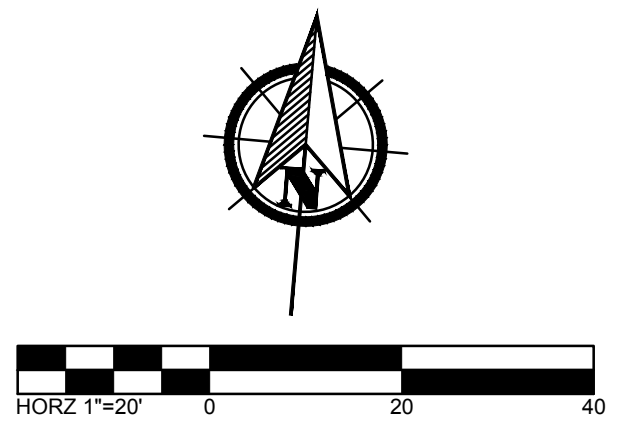


EROSION CONTROL LEGEND

- XXX— PROPOSED MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- EXISTING MAJOR CONTOUR
- XXX--- EXISTING MINOR CONTOUR
- XXX--- LIMITS OF DISTURBANCE
- o o o— SWALE
- [CWA] CONCRETE WASHOUT AREA
- [CD] CHECK DAM
- [BD] BEAVER DAM INLET PROTECTION
- [DB] DANDY BAG INLET PROTECTION
- [SIF] SILT FENCE INLET PROTECTION
- [SCE] STABILIZED CONSTRUCTION ENTRANCE
- [RCP] ROCK CHANNEL PROTECTION

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	11/1/2021
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CHECKED BY:	JRP
JOB NUMBER:	2019.01745



PLOT SCALE: 1"=100' DATE: 10/31/21 6:32 PM EDITED BY: MROCHIE DRAWING FILE: C:\2019\01745.DR. DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\PUBLIC ROADWAY\2019\01745.CE ESC.DWG

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