

Three Creeks Wetland Restoration

Supplemental Specifications



BID DUE DATE: 8/26/2026

Bernita A. Reese
DIRECTOR

CITY OF COLUMBUS

ANDREW J. GINTHER, MAYOR

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Wetland Creation, Enhancement, and Restoration Specification

SECTION SS-1
WETLAND CREATION, ENHANCEMENT, AND RESTORATION

PART 1 GENERAL

1.01 SUMMARY

- A. This work consists of activities involved with restoring, creating, or enhancing wetland. The scope of work shall also include work related to ford crossings, drain tile removal/abandonment, dewatering, and planting.
- B. This specification shall be considered supplemental to the City of Columbus Construction and Material Specifications, latest edition.

1.02 REFERENCES

- A. This specification shall be considered supplemental to the City of Columbus Construction and Material Specifications, latest edition.

1.03 DEFINITIONS

1.04 SUBMITTALS

- A. Action Submittals:
- B. Informational Submittals:

1.05 QUALITY ASSURANCE

- A. The completed job shall present a workmanlike appearance and shall conform to the line, grades, and elevations shown on the drawings or as staked in the field.
- B. All operations shall be carried out in a safe and skillful manner. Safety and health regulations shall be observed and appropriate safety measures used.

1.06 SCHEDULING AND SEQUENCING

- A. Construction operations shall be carried out in such a manner and sequence that erosion and air and water pollution are minimized and held within legal limitations. See Item
- B. Subgrade Preparation: Complete applicable work specified in Item 204.
- C. Dewatering: Complete applicable work specified in Item 901.16.

PART 2 PRODUCTS

2.01 RIPRAP AND BOULDER MATERIAL – ITEM 703

- A. Refer to Contract Drawings for sizing and gradation requirements for ford materials.

2.02 TOPSOIL – ITEM 652**2.03 LOGS AND WOODY DEBRIS FEATURES**

- A. Refer to Item 201 and supplemental specifications provided below.
- B. Woody features shall be constructed from limbs, branches, or tree trunks sourced from on-site materials. Contractor shall fell and stockpile trees for re-use on this project.
- C. Contractor shall maintain rootballs as feasible.
- D. Trees shall not be mulched, limbed, or cut into smaller sections until use for construction.

2.04 SEED AND PLANT MATERIALS

- A. Refer to Contract Drawings for size and species specifications applicable to this site.

PART 3 EXECUTION

3.01 SOIL PREPARATION

- A. To the extent needed, all suitable materials removed from the specified excavation shall be used in the construction of the planned earth embankments. Any spoil material not used in an earth embankment shall be stockpiled at locations shown on the drawings or as otherwise approved by the Engineer.
- B. Contractor shall minimize tracking equipment over wetland depressional areas to reduce over compaction.

3.02 DRAIN TILE REMOVAL / ABANDONMENT

- A. Subsurface drains shall be modified, removed, or abandoned as shown on the Construction Drawings. All envelope filter material or other flow enhancing material shall be removed. The trench shall be backfilled in 12 inch layers and compacted with similar soil to obtain a density of not less than the adjacent natural soils.
- B. The ends of the abandoned and disconnected drains shall be blocked with manufactured caps or plugs or with concrete. Any additional subsurface drains located during construction shall be brought to the attention of the City. For any subsurface drainage alterations, the upstream drainage must be maintained at its current capacity.

3.03 MICRO-TOPOGRAPHIC GRADING FOR WETLAND DEPRESSIONS AND HUMMOCKS

- A. Pools shall be excavated to the depths, dimensions and slopes as shown on the Construction Drawings and as staked in the field. Excavated materials shall be placed in areas designated on the Construction Drawings.
- B. Depressional pools shall be graded within -0.5 feet to +0.25 feet of finished grade and present as an uneven surface caused by rutting.
- C. Hummocks shall be graded within +/- 0.25 inches of finished grade.
- D. Graded slopes shall be at a 5V:1H or flatter. Stabilize slopes using erosion control matting (Item 671).
- E. Where fill material is needed, Contractor shall place fill in 8 inch lifts and compacted with the minimum passes necessary to hold grade.

3.04 WATER CONTROL STRUCTURES

- A. Earthen berms used as water control structures shall be graded in accordance with Item 203.

3.05 STREAM CROSSING STRUCTURES

- A. This work shall apply to boulder vanes and fording areas as specified on the Construction Drawings.
- B. Exercise reasonable care to ensure that the finished surface of the protected channel conforms to the existing channel cross-sections shown on the Contract Drawings.
- C. Grade control boulders and filter material shall be placed over prepared subgrade to the grade and elevations shown on the Contract Drawings.
- D. Final grade elevation tolerances of 0.2 feet. Thickness of Grade Control shall be no less than thickness shown and not more than 3-inches greater than the thickness shown on the Contract Drawings.

3.06 SEEDING AND PLANTING

- A. Seeding shall be in accordance with Item 659.
- B. Planting and vegetation shall be in accordance with Item 661.

3.07 LOGS AND WOODY FEATURE INSTALLATION

- A. Construction methods that enhance fish and wildlife will be used where practical. Trees stumps, and brush removed from the construction area shall be piled for fish and wildlife habitat.

- B. Contractor shall anchor logs and debris into the ground by using boulders and/or burying trunks a minimum of 1/3 the total length as measured from base of trunk to tip of main trunk line.
- C. Locations shown on the Contract Drawings are suggestions. Contractor shall meet with the City or their representative to field adjust locations.

END OF SECTION

Engineer's Estimate of Quantities

Base Bid Area (western and central fields) Engineer's Estimate of Quantities

#	BID ITEM	DESCRIPTION	UNIT	QUANTITY
1	201	Clearing and Grubbing	LS	1
2	201	Tree Removal, under 12"	EA	129
3	201	Tree Removal, over 12" to 24"	EA	57
4	201	Tree Removal, over 24" to 36"	EA	13
5	201	Tree Removal, over 36" to 60"	EA	5
6	203	6" Strip Topsoil - Stockpile on Site	CY	550
7	203	Excavation	CY	5280
8	203	Embankment - No Haul Off	CY	5280
9	207	Stabilized Construction Entrance	CY	1
10	207	Inlet Protection	EA	1
11	207	Compost Filter Sock	LF	520
12	601	Rock Channel Protection, Type C	CY	2
13	623	Construction Layout and Stakes	LS	1
14	624	Mobilization/Demobilization	LS	1
15	655	Tree Protection Fencing	EA	13
16	659	Temporary Seeding	SY	5
17	659	Permanent Seeding & Mulching - Wetland Mix @ 15 LBS/AC	SY	124,116
18	659	Permanent Seeding & Mulching - Upland Mix @ 20 LBS/AC	SY	78409
19	659	Permanent Seeding & Mulching - Native Lawn Mix @ 10 LBS/AC	SY	4636
20	659	Permanent Seeding & Mulching - General Filler Mix @ 10 LBS/AC	SY	202313
21	659	Topsoil (Re-spread Stockpile)	CY	550
22	661	Tree Seedling, Bareroot Planting, Sugar Maple	EA	299
23	661	Tree Seedling, Bareroot Planting, Red Oak	EA	299
24	661	Tree Seedling, Bareroot Planting, Red Mulberry	EA	307
25	661	Tree Seedling, Bareroot Planting, Hackberry	EA	307
26	661	Tree Seedling, Bareroot Planting, Redbud	EA	299
27	661	Tree Seedling, Bareroot Planting, Honey Locust	EA	299
28	661	Tree Seedling, Bareroot Planting, Tulip Poplar	EA	299
29	661	Tree Seedling, Bareroot Planting, White Oak	EA	299
30	661	Tree Seedling, Bareroot Planting, Bur Oak	EA	307
31	661	Tree Seedling, Bareroot Planting, Chinquapin Oak	EA	307
32	661	Tree Seedling, Bareroot Planting, Black Cherry	EA	299
33	661	Tree Seedling, Bareroot Planting, Boxelder	EA	456
34	661	Tree Seedling, Bareroot Planting, Red Maple	EA	456
35	661	Tree Seedling, Bareroot Planting, Peachleaf Willow	EA	456
36	661	Tree Seedling, Bareroot Planting, River Birch	EA	569
37	661	Tree Seedling, Bareroot Planting, American Hornbeam	EA	456
38	661	Tree Seedling, Bareroot Planting, Common Hackberry	EA	456
39	661	Tree Seedling, Bareroot Planting, American Sycamore	EA	569
40	661	Tree Seedling, Bareroot Planting, Eastern Cottonwood	EA	456
41	661	Tree Seedling, Bareroot Planting, Swamp White Oak	EA	569
42	661	Tree Seedling, Bareroot Planting, Pin Oak	EA	569
43	661	Tree Seedling, Bareroot Planting, Black Willow	EA	341
44	661	Tree Seedling, Bareroot Planting, American Elm	EA	341
45	661	Shrub Seedling, Bareroot Planting, Black Chokeberry	EA	349
46	661	Shrub Seedling, Bareroot Planting, Serviceberry	EA	133
47	661	Shrub Seedling, Bareroot Planting, Elderberry	EA	74
48	661	Shrub Seedling, Bareroot Planting, Hazelnut	EA	140
49	661	Shrub Seedling, Bareroot Planting, American Witchazel	EA	159
50	661	Shrub Seedling, Bareroot Planting, Grey Dogwood	EA	140
51	661	Shrub Seedling, Bareroot Planting, Nannyberry	EA	349
52	661	Shrub Seedling, Bareroot Planting, Arrowhead	EA	140
53	661	Shrub Seedling, Bareroot Planting, Blackhaw	EA	159
54	661	Shrub Seedling, Bareroot Planting, Smooth Alder	EA	190
55	661	Shrub Seedling, Bareroot Planting, Red Chokeberry	EA	190
56	661	Shrub Seedling, Bareroot Planting, Buttonbush	EA	190

57	661	Shrub Seedling, Bareroot Planting, Red-Osier Dogwood	EA	190
58	661	Shrub Seedling, Bareroot Planting, Common Winterberry	EA	190
59	661	Shrub Seedling, Bareroot Planting, Ninebark	EA	190
60	661	Shrub Seedling, Bareroot Planting, Silky Willow	EA	190
61	661	Tree Seedling, Live Stake, Silky Dogwood	EA	588
62	661	Tree Seedling, Live Stake, Black Willow	EA	588
63	661	Shrub Seedling, Live Stake, Button Bush	EA	588
64	661	Shrub Seedling, Live Stake, Elderberry	EA	588
65	661	Tree Seedling, Live Posts (6" DSH x 6' Long), Sycamore	EA	75
66	661	Deciduous Tree, 2" Caliber Tree, Red Maple	EA	11
67	661	Deciduous Tree, 2" Caliber Tree, River Birch	EA	17
68	661	Deciduous Tree, 2" Caliber Tree, Pin Oak	EA	7
69	661	Deciduous Tree, 2" Caliber Tree, American Sycamore	EA	10
70	661	Deciduous Tree, 2" Caliber Tree, Swamp White Oak	EA	15
71	661	Deciduous Tree, 2" Caliber Tree, Black Willow	EA	7
72	661	Deciduous Tree, 2" Caliber Tree, Sugar Maple	EA	23
73	661	Deciduous Tree, 2" Caliber Tree, Common Hackberry	EA	5
74	661	Deciduous Tree, 2" Caliber Tree, Eastern Redbud	EA	7
75	661	Deciduous Tree, 2" Caliber Tree, Tulip Poplar	EA	28
76	661	Deciduous Tree, 2" Caliber Tree, White Oak	EA	15
77	661	Deciduous Tree, 2" Caliber Tree, Burr Oak	EA	12
78	661	Deciduous Tree, 2" Caliber Tree, Northern Red Oak	EA	16
79	661	Deciduous Shrub, 2 Gal Container, Smooth Alder	EA	21
80	661	Deciduous Shrub, 2 Gal Container, Red Chokeberry	EA	11
81	661	Deciduous Shrub, 2 Gal Container, Buttonbush	EA	17
82	661	Deciduous Shrub, 2 Gal Container, American Elderberry	EA	11
83	661	Deciduous Shrub, 2 Gal Container, Allegheny Serviceberry	EA	13
84	661	Deciduous Shrub, 2 Gal Container, Common Witch Hazel	EA	9
85	661	Deciduous Shrub, 2 Gal Container, Arrowwood Viburnum	EA	12
86	661	Deciduous Shrub, 2 Gal Container, Nannyberry	EA	10
87	661	Deciduous Shrub, 2 Gal Container, Blackhaw Viburnum	EA	16
88	666	Tree Root Pruning, over 36"	EA	3
89	712	Type E Temporary Erosion Control Matting	SY	8500
90	SPECIAL	Invasive Removal	LS	1
91	SPECIAL	Woody Habitat Features (Salvage trees, branches and rootwads)	EA	30
92	SPECIAL	Boulder Cross-vane	EA	1
93	SPECIAL	Low-water Crossing	CY	1
94	SPECIAL	Bentomat	SY	1625
95	SPECIAL	No Mow Flexible Post	EA	17
96	SPECIAL	SCPZ Sign	EA	19

NOTES: The quantities provided are engineer's estimates for general guidance only. It is the responsibility of the Contractor to verify all quantities and conditions shown in the bid documents and plans. The Contractor shall not rely solely on these estimates for bidding or construction purposes. No additional compensation will be considered for discrepancies in quantities that could have been reasonably verified by reviewing the bid documents.

Alternate Area (western and central fields) Engineer's Estimate of Quantities

#	BID ITEM	DESCRIPTION	UNIT	QUANTITY
1	201	Clearing and Grubbing	LS	1
2	202	Drain Tile Removal/Demolition	LS	1
3	203	6" Strip Topsoil - Stockpile on Site	CY	135
4	203	Excavation	CY	1064
5	203	Embankment - No Haul Off	CY	1064
6	207	Compost Filter Sock	LF	364
7	304	6" Aggregate Subbase	CY	27
8	623	Construction Layout and Stakes	LS	1
9	624	Mobilization/Demobilization	LS	1
10	655	Tree Protection Fencing	EA	3
11	659	Temporary Seeding	SY	3
12	659	Permanent Seeding & Mulching - Wetland Mix @ 15 LBS/AC	SY	29,312
13	659	Permanent Seeding & Mulching - Upland Mix @ 20 LBS/AC	SY	24877
14	659	Permanent Seeding & Mulching - Native Lawn Mix @ 10 LBS/AC	SY	1400
15	659	Permanent Seeding & Mulching - General Filler Mix @ 10 LBS/AC	SY	54401
16	659	Topsoil (Re-spread Stockpile)	CY	135
17	661	Tree Seedling, Bareroot Planting, Sugar Maple	EA	116
18	661	Tree Seedling, Bareroot Planting, Red Oak	EA	116
19	661	Tree Seedling, Bareroot Planting, Red Mulberry	EA	119
20	661	Tree Seedling, Bareroot Planting, Hackberry	EA	119
21	661	Tree Seedling, Bareroot Planting, Redbud	EA	116
22	661	Tree Seedling, Bareroot Planting, Honey Locust	EA	116
23	661	Tree Seedling, Bareroot Planting, Tulip Poplar	EA	116
24	661	Tree Seedling, Bareroot Planting, White Oak	EA	116
25	661	Tree Seedling, Bareroot Planting, Bur Oak	EA	119
26	661	Tree Seedling, Bareroot Planting, Chinquapin Oak	EA	119
27	661	Tree Seedling, Bareroot Planting, Black Cherry	EA	116
28	661	Tree Seedling, Bareroot Planting, Boxelder	EA	158
29	661	Tree Seedling, Bareroot Planting, Red Maple	EA	158
30	661	Tree Seedling, Bareroot Planting, Peachleaf Willow	EA	158
31	661	Tree Seedling, Bareroot Planting, River Birch	EA	198
32	661	Tree Seedling, Bareroot Planting, American Hornbeam	EA	158
33	661	Tree Seedling, Bareroot Planting, Common Hackberry	EA	158
34	661	Tree Seedling, Bareroot Planting, American Sycamore	EA	198
35	661	Tree Seedling, Bareroot Planting, Eastern Cottonwood	EA	158
36	661	Tree Seedling, Bareroot Planting, Swamp White Oak	EA	198
37	661	Tree Seedling, Bareroot Planting, Pin Oak	EA	198
38	661	Tree Seedling, Bareroot Planting, Black Willow	EA	119
39	661	Tree Seedling, Bareroot Planting, American Elm	EA	119
40	661	Shrub Seedling, Bareroot Planting, Black Chokeberry	EA	128
41	661	Shrub Seedling, Bareroot Planting, Serviceberry	EA	51
42	661	Shrub Seedling, Bareroot Planting, Elderberry	EA	120
43	661	Shrub Seedling, Bareroot Planting, Hazelnut	EA	54
44	661	Shrub Seedling, Bareroot Planting, American Witchazel	EA	62
45	661	Shrub Seedling, Bareroot Planting, Grey Dogwood	EA	54
46	661	Shrub Seedling, Bareroot Planting, Nannyberry	EA	128
47	661	Shrub Seedling, Bareroot Planting, Arrowhead	EA	54
48	661	Shrub Seedling, Bareroot Planting, Blackhaw	EA	62
49	661	Shrub Seedling, Bareroot Planting, Smooth Alder	EA	66
50	661	Shrub Seedling, Bareroot Planting, Red Chokeberry	EA	66
51	661	Shrub Seedling, Bareroot Planting, Buttonbush	EA	66
52	661	Shrub Seedling, Bareroot Planting, Red-Osier Dogwood	EA	66
53	661	Shrub Seedling, Bareroot Planting, Common Winterberry	EA	66
54	661	Shrub Seedling, Bareroot Planting, Ninebark	EA	66
55	661	Shrub Seedling, Bareroot Planting, Silky Willow	EA	66
56	661	Tree Seedling, Live Stake, Silky Dogwood	EA	150
57	661	Tree Seedling, Live Stake, Black Willow	EA	150
58	661	Shrub Seedling, Live Stake, Button Bush	EA	150

59	661	Shrub Seedling, Live Stake, Elderberry	EA	150
60	661	Tree Seedling, Live Posts (6" DSH x 6' Long), Sycamore	EA	25
61	661	Deciduous Tree, 2" Caliber Tree, Sugar Maple	EA	1
62	661	Deciduous Tree, 2" Caliber Tree, Common Hackberry	EA	8
63	661	Deciduous Tree, 2" Caliber Tree, Eastern Redbud	EA	10
64	661	Deciduous Tree, 2" Caliber Tree, White Oak	EA	7
65	661	Deciduous Tree, 2" Caliber Tree, Northern Red Oak	EA	1
66	703	2" Type B Limestone Surface Coarse for Item 410	CY	9
67	SPECIAL	Invasive Removal	LS	1
68	SPECIAL	Woody Habitat Features (Salvage trees, branches and rootwads)	EA	15
69	SPECIAL	Bench	EA	2

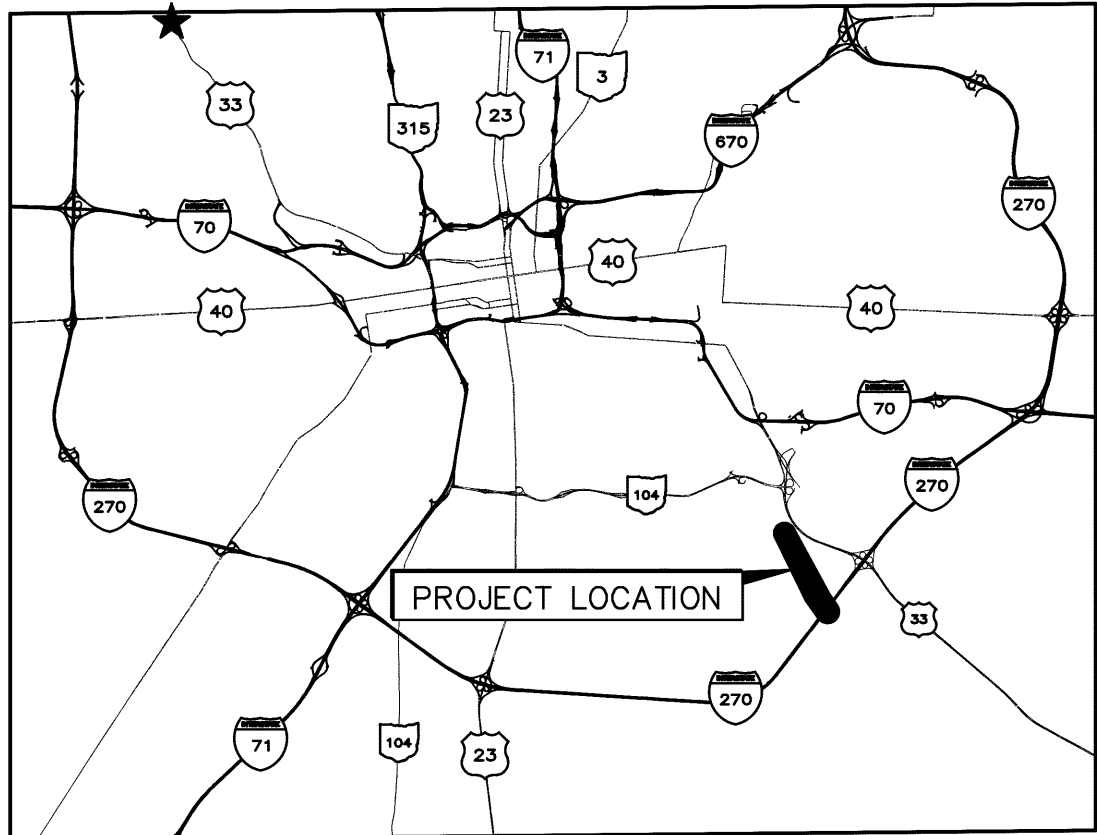
NOTES: The quantities provided are engineer's estimates for general guidance only. It is the responsibility of the Contractor to verify all quantities and conditions shown in the bid documents and plans. The Contractor shall not rely solely on these estimates for bidding or construction purposes. No additional compensation will be considered for discrepancies in quantities that could have been reasonably verified by reviewing the bid documents.

CC18773 Plans for Coordination Purposes Only

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE & DRAINAGE

ALUM CREEK TRUNK SOUTH (ACT-S)
SANITARY SEWER REHABILITATION – PHASE 1

CAPITAL IMPROVEMENTS PROJECT NO. 650725–100004



VICINITY MAP
SCALE: 1" = 15,000'

FLOODZONE DATA

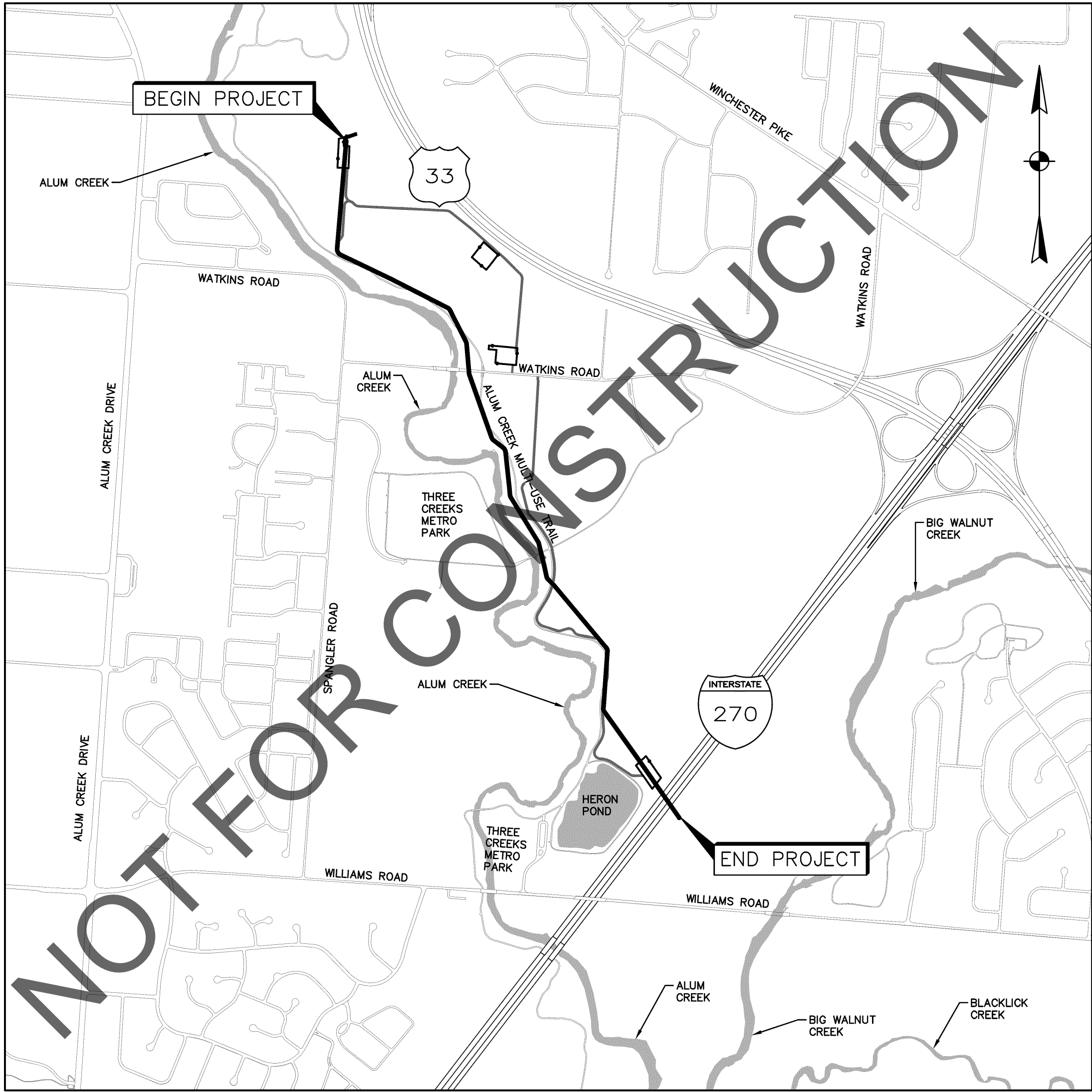
THIS PROJECT CONTAINS PORTIONS OF WORK LOCATED WITHIN ZONES "AE" AND "X" OF FEMA FLOOD INSURANCE RATE MAP NUMBERS 39049C0343K AND 39049C0341K. BASE FLOOD ELEVATIONS FOR THE MANHOLES AT THE PROJECT SITES ARE PROVIDED WITHIN THE MANHOLE WORK TABLE ON SHEET 4. MAPS REVISED JUNE 17, 2008.

WORK WITHIN THE 100-YR FLOODPLAIN

WORK WITHIN THE 100-YR FLOODPLAIN WILL RESULT IN 2,208 CY OF TEMPORARY NET FILL DURING THE CONSTRUCTION PERIOD. AFTER FINAL RESTORATION AT THE END OF THE PROJECT THERE WILL BE NO NET FILL. THE CUT AND FILL VOLUMES ARE SHOWN WITHIN THE TABLE BELOW, AND DETAILS OF HOW EACH OF THESE VOLUMES WERE CALCULATED CAN BE FOUND ON SHEETS 67–70.

A HEC-RAS STUDY WAS PERFORMED FOR BOTH INTERIM AND FINAL CONDITIONS. THE STUDY SHOWS THAT NO RISE WILL OCCUR AFTER FINAL RESTORATION, WHILE A MAXIMUM INCREASE IN THE 100-YR WATER SURFACE ELEVATION OF 0.1 FT WILL OCCUR DURING THE INTERIM CONDITIONS.

INTERIM CONSTRUCTION CONDITIONS		FINAL RESTORATION CONDITIONS		NET
CUT	FILL	CUT	FILL	
2,091 CY	4,299 CY	4,410 CY	2,202 CY	0 CY



LOCATION MAP
SCALE: 1" = 1,000'

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STANDARD DRAWINGS – FOUND AT WWW.COLUMBUS.GOV

DEPARTMENT OF PUBLIC SERVICE

1441	7/01/21	PAVEMENT & UTILITY CUT REPAIR STANDARDS
1500	9/15/15	MAINTENANCE OF TRAFFIC GENERAL NOTES
2161	4/30/18	TEMPORARY PAVEMENT
2179	7/01/21	BACKFILL WITHIN RIGHT-OF-WAY
2230	4/30/18	TEMPORARY CONSTRUCTION ENTRANCE

DIVISION OF SEWERAGE AND DRAINAGE

AA-S106	7/9/12	TYPICAL ASSEMBLY COMBINATIONS FOR PRECAST MANHOLES
AA-S107	7/9/12	MISCELLANEOUS ITEMS PRECAST MANHOLES
AA-S119	8/8/14	MANHOLE STEP
AA-S143	12/6/13	STANDARD DIMENSIONS FOR 26" BOLT-DOWN FRAME & COVER
AA-S149	10/15/14	TYPE I BEDDING FOR FLEXIBLE SEWER PIPES 6" TO 60" DIAMETER
AA-S150	7/9/12	TRENCH INSTALLATION WITH MAXIMUM WIDTH SPECIFIED
AA-S151	7/9/12	TYPE I BEDDING FOR RIGID SEWER PIPES 6" TO 108" DIAMETER
AA-S153	7/9/12	TYPE II BEDDING FOR RIGID SEWER PIPE 30" TO 108" DIAMETER
AA-S161	12/6/13	TYPICAL CLEANOUT
AA-S171	12/15/16	MANHOLE RECONSTRUCTION AND REHABILITATION
AA-S175	2/26/16	PROJECT IDENTIFICATION SIGN











EARTH DISTURBED AREA

TOTAL DISTURBED AREA: 8.86 AC
PRE-IMPERVIOUS AREA: 0.00 AC
POST-IMPERVIOUS AREA: 0.00 AC

OHIO EPA NOI PERMIT #

4GC08365*AG



EASEMENT REFERENCE				REVISIONS			<div>  REGISTERED ENGINEER DATE 11/14/2022</div>	APPROVALS: 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 PLANS.				PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		NJD  11/28/2022 SEWER SYSTEM ENGINEERING MANAGER, DIVISION OF SEWERAGE & DRAINAGE DATE		 11/30/2022 DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE		ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004							
	VOL.	PAGE						 11/17/2022 ADMINISTRATOR, DIVISION OF POWER DATE		 11/30/2022 CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION DATE									
								 11/28/2022 ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE		 11/30/2022 DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE									
								 11/23/2022 ADMINISTRATOR, DIVISION OF WATER DATE		 11/30/2022 DIRECTOR, DEPARTMENT OF RECREATION AND PARKS DATE									
												ISSUED STATUS: BID							
								SCALE:		SHEET: 1 OF 70									
												CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.					

X:\Projects\2013\1321\601200 COC Eng DOSD-ACT\5000 - Detailed Design\CADD\SHEETS\GENERAL NOTES AND ESTIMATE OF QUANTITIES.dwg 1/23/2024 9:29:44 PM Nathan Dickman, P.E. PLOTTED: 1/23/2024 9:57:53 PM

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MICHAEL CARR, TRANSMISSION
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COLUMBUS, OHIO 43215
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DAMAGE PREVENTION TEL--(937) 296-3929

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CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 EAST 17TH AVENUE
COLUMBUS, OHIO 43219
OFFICE: (614) 645-7393

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 MCKINLEY AVE.
BUILDING C
COLUMBUS, OHIO 43222
CONTRACTOR LINE: (614) 645-7756

MANHOLE WORK SUMMARY											
MANHOLE ID	PIPE SIZE	MH TYPE	NORTHING	EASTING	TC TO INV	REHAB (VF)	TOP OF CASTING ELEVATION	MANHOLE DIAMETER	RISER RESTORATION AND FRAME & COVER REPLACEMENT	FLEXIBLE CHIMNEY SEAL	100-YR ELEVATION
0145S0003	102"	RCP	689564.89	1853528.64	26.4'	17.9'	731.43	48"		X	729.00
0145S0002	102"	RCP	690147.09	1853140.87	27.6'	19.1'	733.43	48"		X	729.00
0101S0032	102"	RCP	691415.20	1852624.41	27.4'	18.9	733.50	48"		X	729.00
0101S0030	102"	RCP	691856.49	1852464.87	26.4'	17.9'	734.10	48"		X	729.00
0101S0029	102"	RCP	692433.50	1852158.54	23.5'	15.0'	731.56	48"		X	729.17
0101S0028	102"	RCP	692935.12	1851986.18	23.7'	15.2'	732.54	48"		X	729.51
0101S0027	102"	RCP	693620.90	1851738.11	25.3'	16.8'	734.74	48"		X	730.00
0101S0020	102"	RCP	694281.35	1851541.56	22.7'	14.2'	732.74	48"	X	X	731.37
0101S0019	102"	RCP	694612.08	1850925.3	22.8'	14.3'	732.85	48"		X	732.04
0101S0018	102"	RCP	694932.93	1850360.52	22.2'	13.7'	733.58	48"	X	X	732.66
0100S0010	102"	RCP	695410.42	1850396.91	21.8'	13.3'	733.56	48"	X	X	733.00
0100S0009	102"	RCP	696089.80	1850458.14	24.8'	NONE	737.02	48"		X	733.47

ESTIMATE OF QUANTITIES				
ITEM	CMS ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
1	201	CLEARING AND GRUBBING	1	LS
2	202	FENCE REMOVAL, STORAGE, AND REPLACEMENT	35	LF
3	204	SUBGRADE COMPACTION	160	SY
4	207	12-INCH DIAMETER COMPOST FILTER SOCK	18,129	LF
5	207	CONCRETE WASHOUT PITS	3	EA
6	207	STONE STABILIZATION (#2)	2,489	CY
7	207	GEOTEXTILE FABRIC (712.09, D)	23,000	SY
8	251	PARTIAL DEPTH PAVEMENT REPAIR (441, 1.25")	3,179	SY
9	304	AGGREGATE BASE	27	CY
10	409	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	144	LF
11	441	ASPHALT CONCRETE SURFACE COURSE, TYPE I	6	CY
12	441	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2	8	CY
13	607	FENCE, TYPE 6-FOOT ORANGE MESH	4,099	LF
14	607	FENCE, TYPE CLT, 6' TALL, MOVABLE AROUND 2 MANHOLES	400	LF
15	607	FENCE, TYPE CLT, 8' TALL, FOR LAYDOWN / WORK AREAS	2,948	LF
16	614	MAINTAINING TRAFFIC	1	LS
17	620	REMOVAL OF EXISTING BOLLARDS	4	EA
18	620	REPLACEMENT OF EXISTING BOLLARDS	4	EA
19	623	CONSTRUCTION LAYOUT STAKES	1	LS
20	624	MOBILIZATION	1	LS
21	642	PATH STRIPING, MATCH EXISTING	2,200	LF
22	651	TOPSOIL STOCKPILED	2,091	CY
23	652	PLACING STOCKPILED TOPSOIL	2,091	CY
24	653	STONE REMOVED	2,489	CY
25	655	TREE PROTECTION DURING CONSTRUCTION	1	LS
26	659	SEEDING AND MULCHING, PER MIX IN PLANS	45,981	SY
27	661	DECIDUOUS TREE, #15, PER LIST IN PLANS (FOR TREES REMOVED 6" AND GREATER)	50	EA
28	901	36-INCH STORM PIPE, WITH TYPE 1 BEDDING	68	LF
29	SS-3	BYPASS PUMPING / FLOW CONTROL	1	LS
30	SS-3	BYPASS PUMP ACCESS PITS	2	EA
31	SS-3	TEMPORARY DOGHOUSE MANHOLE FOR BYPASS PUMPING	1	EA
32	SS-3	TIMBER MATTING FOR WETLAND	436	SY
33	SS-4	SEWER CLEANING - 102" CONTINUOUS CLEANING	8,431	LF
34	SS-5	SEWER VIDEO RECORDING AND INSPECTION	16,862	LF
35	SS-7	CEMENTITIOUS GROUTING	500	CF
36	SS-10	MANHOLE, CHIMNEY SEAL	12	EA
37	SS-10	MANHOLE, FRAME & COVER REPLACEMENT	3	EA
38	SS-10	MANHOLE REHABILITATION	177	VLF
39	SS-10	MANHOLE RISER RESTORATION	3	EA
40	SS-14A	SHOTCRETE FULL CIRCUMFERENCE LINING - 102"	7,983	LF
41	SS-14A	SHOTCRETE PARTIAL CIRCUMFERENCE LINING - 102"	448	LF
42	SS-14A	CONCRETE REINFORCING MESH	115,000	SF
43	SS-27	PROJECT IDENTIFICATION SIGNS	3	EA

EASEMENT REFERENCE				REVISIONS			GENERAL NOTES AND ESTIMATE OF QUANTITIES	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY						
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			CITY OF COLUMBUS	OWNER		ISSUED STATUS: BID			
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										INSPECTOR		SCALE: NTS		SHEET: 4 OF 70	
										AGREEMENT		COMPLETED		CONTRACT DRAWING NO. CC–18773	RECORD PLAN NO.
										RPD	CKD	CLD	CON. DR.		
									INDEX DETAIL	RECORD FILE					

ABBREVIATIONS

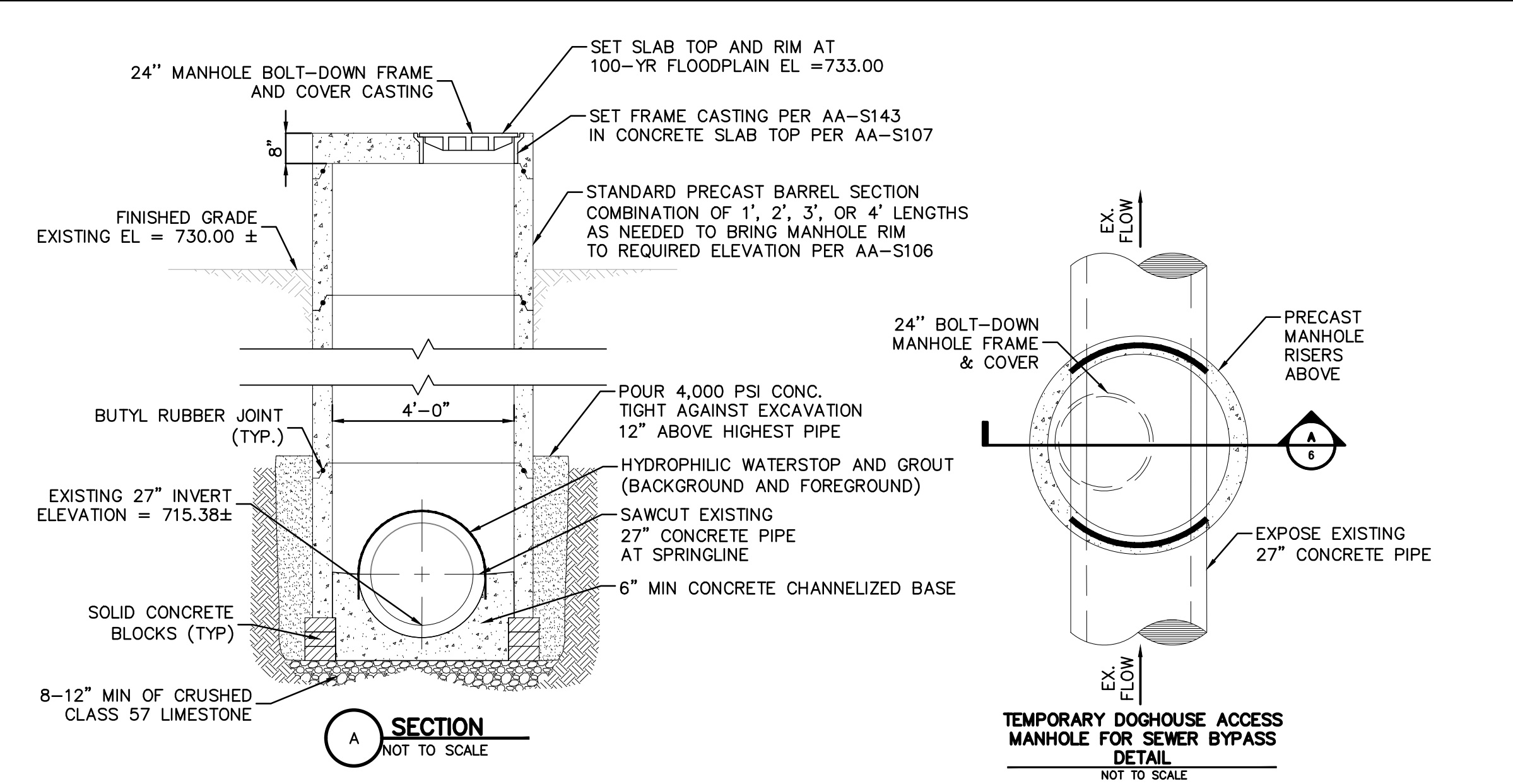
EXISTING

&	AND
@	AT
°	DEGREES
'	FEET, MINUTES
"	INCHES, SECONDS
#	NUMBER
/	PER, OF
%	PERCENT
±	PLUS OR MINUS
φ	PHASE
Ø, DIA	ROUND, DIAMETER
ℙ	PROPERTY LINE
ℬ	BASELINE
ℭ, CL	CENTERLINE
ℱ	SPRING LINE
Δ	ANGLE OF DEFLECTION (DEGREES), DEGREE OF CURVE
ABND	ABANDONED, ABANDON
ACT	ALUM CREEK TRUNK SEWER
APPROX	APPROXIMATE(LY)
ASPH	ASPHALT
BM	BENCH MARK
BH	BULK HEAD
BOT	BOTTOM
CB	CATCH BASIN
C/C	CENTER TO CENTER
CTV	CLOSED CIRCUIT TELEVISION
CDF	CONTROLLED DENSITY FILL
CF	CUBIC FEET
CIP	CAPITAL IMPROVEMENT PROJECT
CIPP	CURED IN PLACE PIPE
CMP	CORRUGATED METAL PIPE
CMSC	CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE CITY OF COLUMBUS, OHIO
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CRPD	COLUMBUS RECREATION AND PARKS DEPARTMENT
CS	COMBINED SEWER
CY	CUBIC YARD(S)
DEFL	DEFLECTION
DEG	DEGREE
DISCH	DISCHARGE
DND	DO NOT DISTURB
DOSD	DIVISION OF SEWERAGE & DRAINAGE
DOP	DIVISION OF POWER
DOW	DIVISION OF WATER
E	EAST, ELECTRIC
EA	EACH
EL, ELEV	ELEVATION (VERTICAL DISTANCE ABOVE MEAN SEA LEVEL)
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQUIP	EQUIPMENT
ESMT	EASEMENT
EXIST	EXISTING
EX R/W	EXISTING RIGHT OF WAY

FCDF	FLOWABLE CONTROLLED DENSITY FILL
FCEO	FRANKLIN COUNTY ENGINEER'S OFFICE
FM	FORCE MAIN
FT	FEET, FOOT
GAL	GALLON(S)
GND	GROUND
GPM	GALLONS PER MINUTE
H2S	HYDROGEN SULFIDE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN	INCH
INFN	INFILTRATION
INV	INVERT
JT	JOINT
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
N	NORTH
OD	OUTSIDE DIAMETER
ODOT	OHIO DEPARTMENT OF TRANSPORTATION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PID	PROPERTY IDENTIFICATION
PH	PHASE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REBAR	REINFORCING BAR
REINF	REINFORCE(ING),(ED),(MENT)
RP#	RECORD PLAN NUMBER
RT	RIGHT
R/W	RIGHT OF WAY (PROPOSED)
S	SOUTH
ST	STREET
SAN	SANITARY
SHT	SHEET
SPEC	SPECIFICATIONS
SQ	SQUARE
STA	STATION
STM	STORM
SY	SQUARE YARD(S)
T/C	TOP OF CONCRETE OR CASTING
TBA	TO BE ABANDONED
TBD	TO BE DETERMINED
TBRH	TO BE REHABILITATED
TBR	TO BE REMOVED
TBRL	TO BE RELOCATED
TYP	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL
VF	VERTICAL FEET
W	WEST, WIDE, WIDTH, WATER
YD	YARD

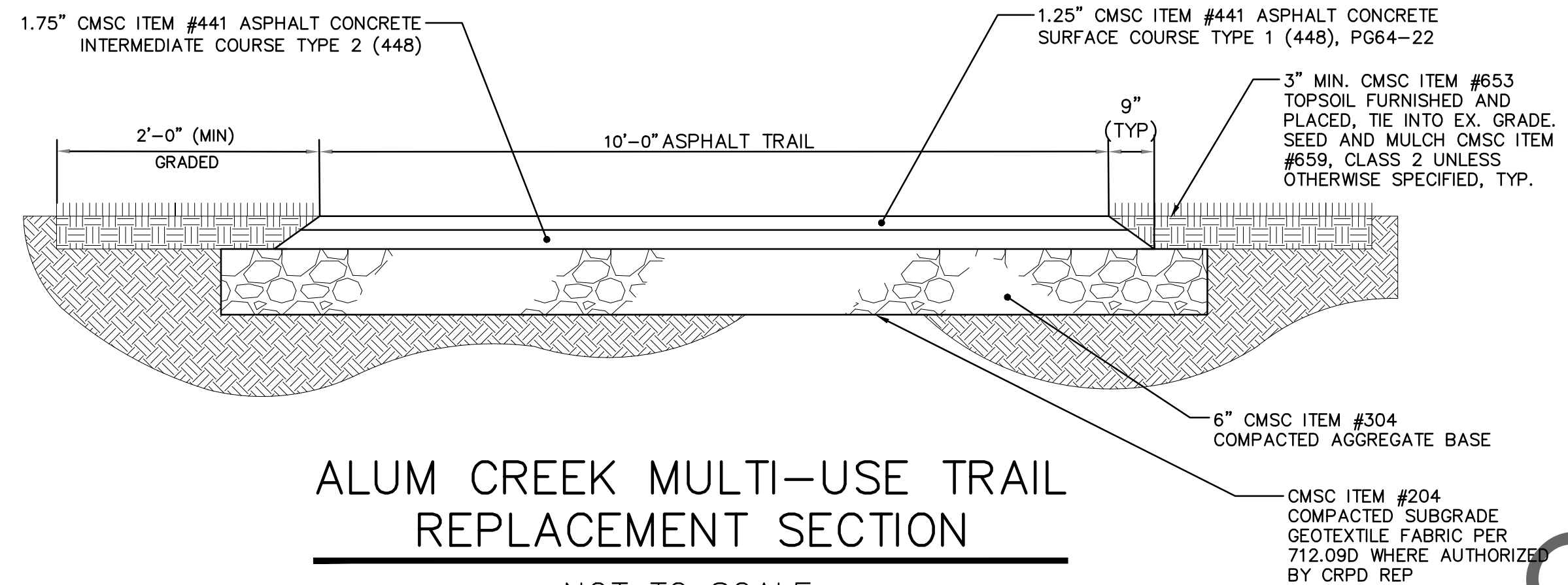
EASEMENT REFERENCE				REVISIONS			LEGEND, SYMBOLS, AND ABBREVIATIONS	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>					
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								INSPECTOR		AGREEMENT		COMPLETED		SCALE:		SHEET: 5 of 70	
								RPD	CKD	CLD	CON. DR.						
												INDEX DETAIL	RECORD FILE		CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.

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TEMPORARY DOGHOUSE MANHOLE DETAILS

NOT TO SCALE

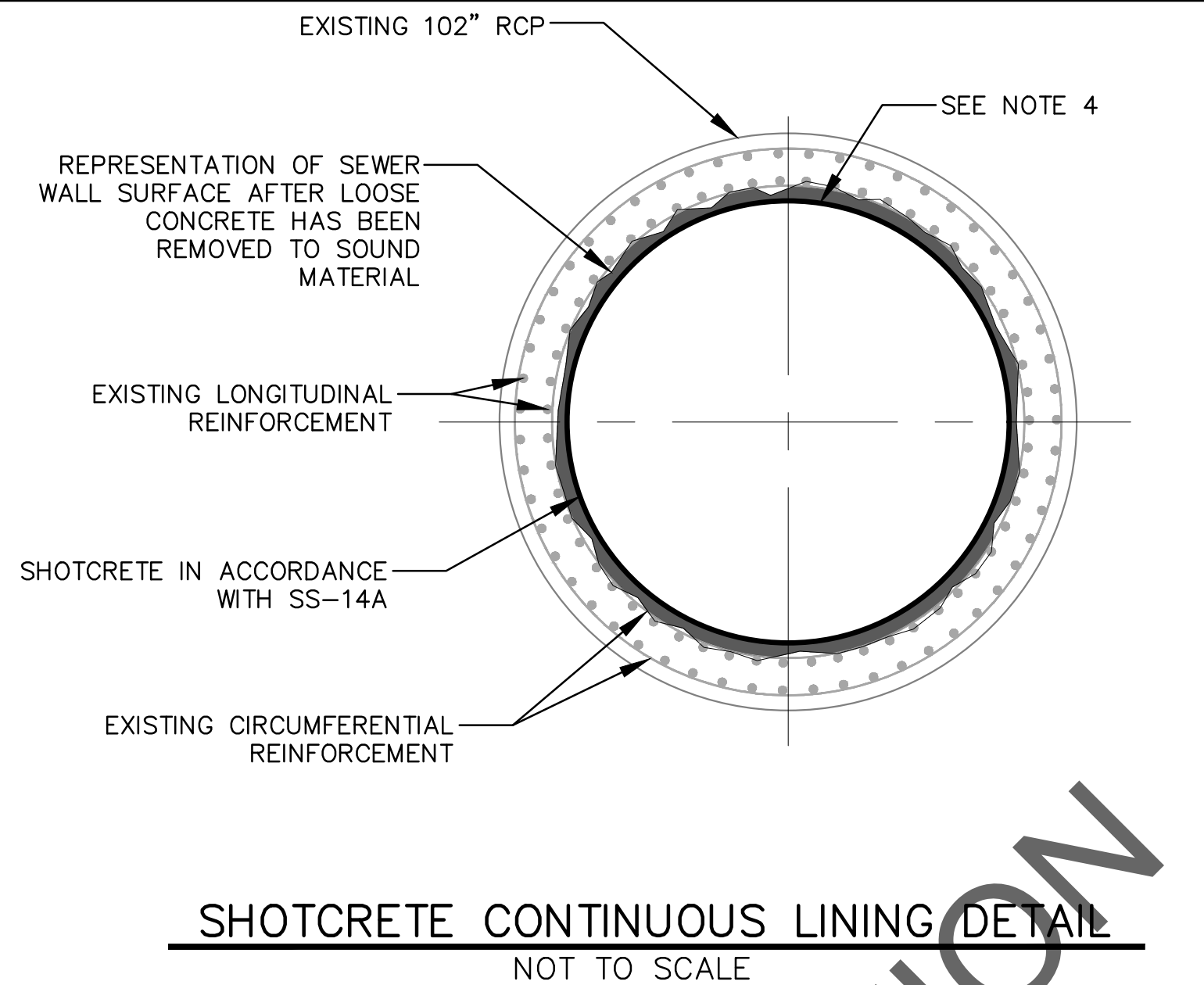


ALUM CREEK MULTI-USE TRAIL REPLACEMENT SECTION

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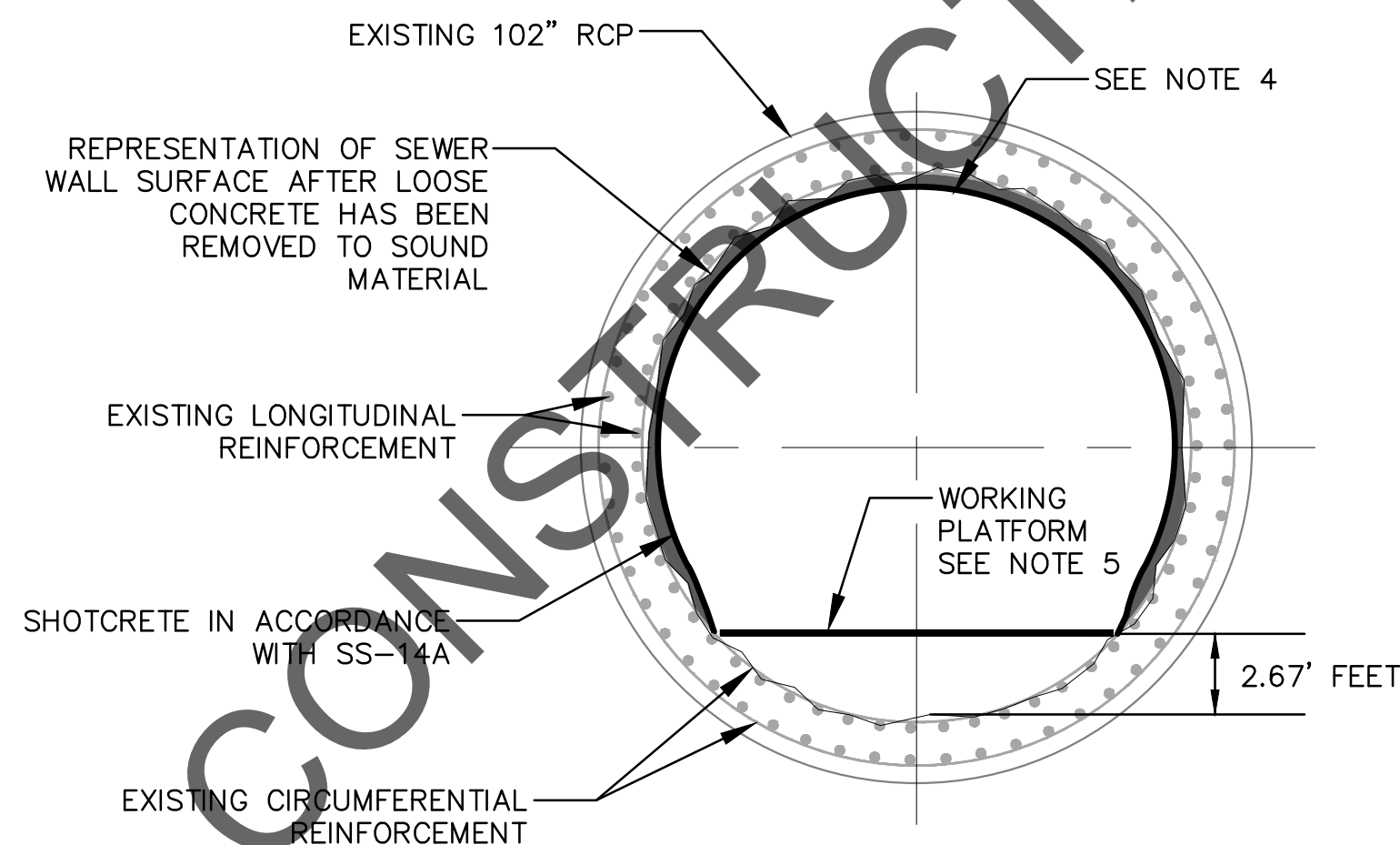
ASPHALT BIKE PATH RESTORATION AND REPAIR NOTES:

1. THE CONTRACTOR SHALL REPLACE SECTIONS OF THE TRAIL THAT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY, EXCEPT FOR THOSE SECTIONS ALREADY SLATED FOR MILL AND OVERLAY OR REPLACEMENT PER THE FINAL RESTORATION PLAN ON SHEET 65.
2. CONTRACTOR SHALL REFER TO SECTION 02513 FOR ADDITIONAL INFORMATION. FOR ANY DISCREPANCIES THE MORE STRINGENT REQUIREMENT SHALL GOVERN. ALL TRAIL AREAS TO BE SWEEPED FREE OF MUD, SNOW, OR DEBRIS, PRIOR TO RE-OPENING. ANY TRAIL BERMS OR DISTURBED AREAS WITHIN PARKLANDS SHALL BE RESTORED TO ORIGINAL CONDITIONS. ANY DAMAGED SECTIONS OF TRAIL SHALL BE SAWCUT, REMOVED, AND REPAVED PER ABOVE DETAIL THE FULL WIDTH OF THE TRAIL ALONG THE ENTIRE DAMAGED LENGTH. SAWCUT JOINTS SHALL BE HOT APPLIED JOINT SEALANT. NO PARTIAL ASPHALT PATCHES SHALL BE PERMITTED. FINAL TRAIL RESTORATION LIMITS SHALL BE FIELD VERIFIED BY THE INSPECTOR, PROJECT MANAGER, AND CRPD REP. PRIOR TO ANY REPAVING OR RECONSTRUCTION.
3. ALL TRAIL CENTERLINE STRIPING DAMAGED OR REMOVED SHALL BE REPLACED.
4. TEMPORARY TRAIL PATCHING: WHERE TRAIL HAS BEEN TEMPORARILY REMOVED FOR BYPASS BURIAL, MAINTAIN PATH PER SD 2310 CMSC ITEM 615.
5. WHERE NO SPECIFIC SLOPE IS GIVEN ON PLANS, TRAIL SHALL MAINTAIN POSITIVE DRAINAGE - MAX 2% CROSS SLOPE.
6. ALL JOINTS SHALL BE SEALED USING HOT APPLIED JOINT SEALANT PER CMSC ITEM #409.



SHOTCRETE CONTINUOUS LINING DETAIL

NOT TO SCALE

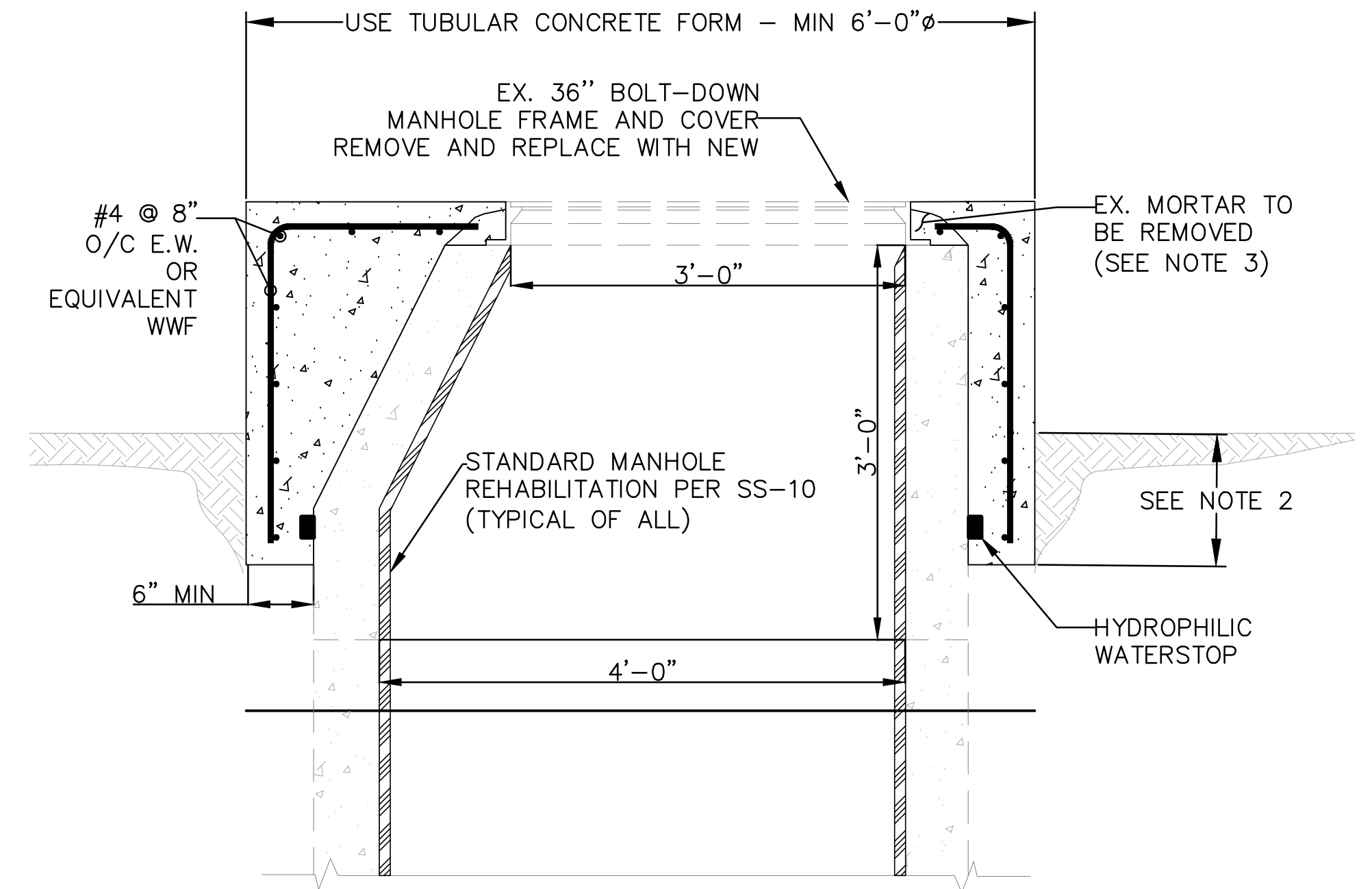


SHOTCRETE PARTIAL LINING DETAIL

NOT TO SCALE

SHOTCRETE LINING NOTES:

1. PRIOR TO SHOTCRETE INSTALLATION, PREPARE THE SURFACE OF THE SEWER WALL TO A CSP OF 7 AND APPLY REINFORCING STEEL PRIMER IN ACCORDANCE WITH SS-14A.
2. REFER TO SUPPLEMENTAL SPECIFICATION SS-14A FOR MATERIALS AND INSTALLATION OF SHOTCRETE.
3. REFER TO SUPPLEMENTAL SPECIFICATION SS-6 AND SS-7 FOR REQUIREMENTS OF SEALING ACTIVE LEAKS.
4. THE CONTRACTOR SHALL APPLY A MINIMUM 2-INCH LAYER OF SHOTCRETE AROUND THE INDICATED CIRCUMFERENCE OF THE PIPE, WITH THE FINAL FINISH DIAMETER OF THE PIPE TO BE NO LESS THAN 98 INCHES.
5. CONTRACTOR SHALL INSTALL WORKING PLATFORM TO PERFORM PARTIAL CIRCUMFERENTIAL SHOTCRETING. THE CONTRACTOR SHALL BEGIN SHOTCRETING AT NO MORE THAN 2.75 FEET ABOVE THE INVERT AND SHALL APPLY A MINIMUM OF 270 DEGREES OF SHOTCRETE FOR PARTIAL LINING.
6. COST TO CONSTRUCT AND MAINTAIN WORKING PLATFORM FOR PARTIAL LINING SHALL BE INCLUDED IN THE PRICE BID FOR SS-3, BYPASS PUMPING/FLOW CONTROL.



MANHOLE RISER RESTORATION DETAIL — FOR MANHOLES 0100S0010, 0101S0018, 0101S0020

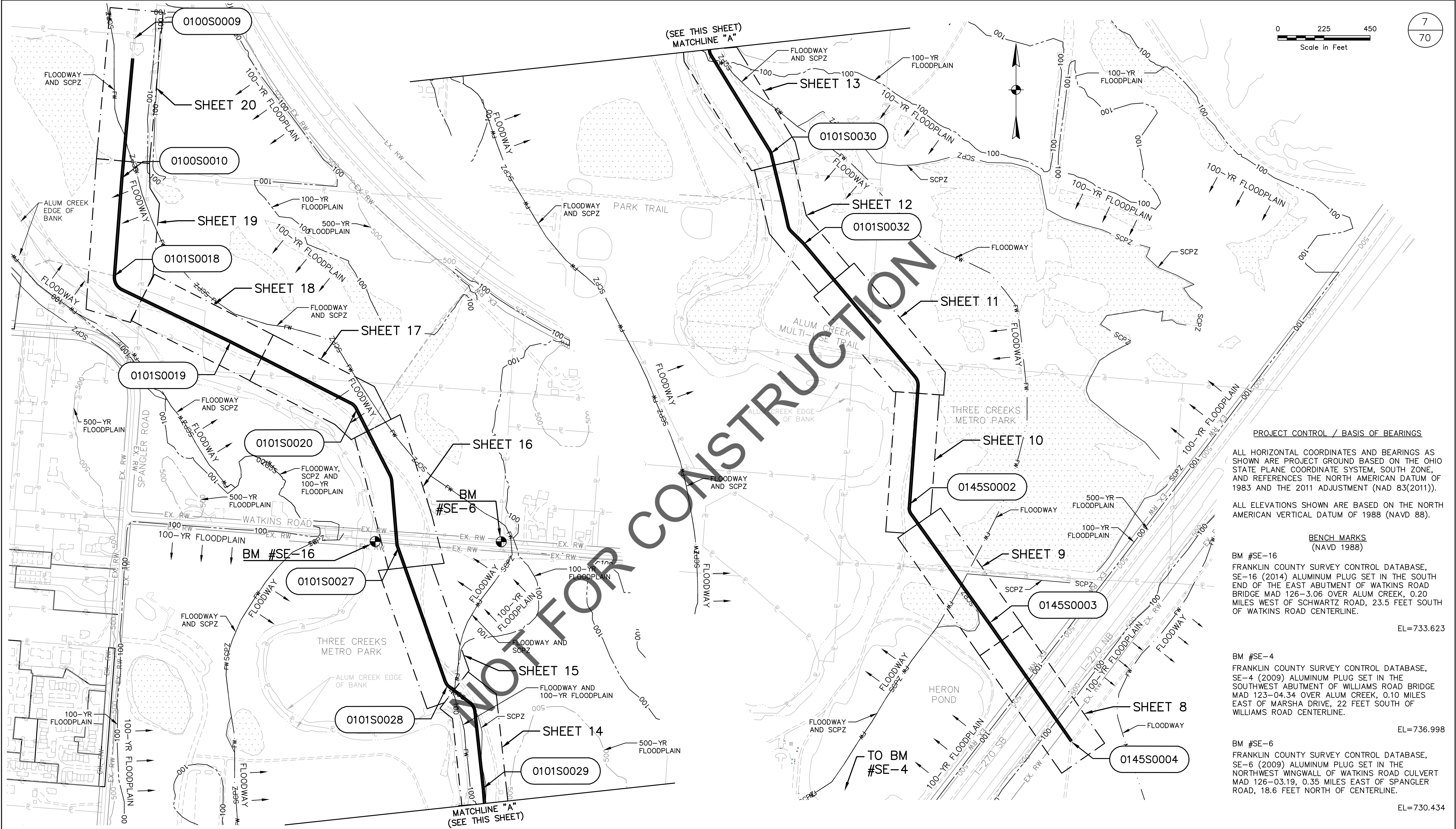
1" = 5'

MANHOLE RISER RESTORATION DETAIL NOTES:

1. CONTRACTOR SHALL PLACE A MINIMUM OF 6" OF ADDITIONAL WIDTH OF CAST-IN-PLACE CONCRETE FOR MANHOLE REHABILITATION.
2. THE CAST-IN-PLACE CONCRETE SHALL BE EXTENDED A MINIMUM OF 1 FOOT BELOW THE EXISTING GRADE OR A MINIMUM OF 6" BELOW THE FIRST RISER JOINT, WHICHEVER IS GREATER.
3. CONTRACTOR TO REMOVE ALL EXISTING MORTAR SURROUNDING EXISTING CASTING AND IN ADDITION REPLACE THE FRAME AND COVER PRIOR TO PLACEMENT OF NEW CONCRETE.

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						SCALE:		SHEET: 6 OF 70	
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								AGREEMENT		COMPLETED	
								RPD		CKD	
								CLD		CON. DR.	
								INDEX DETAIL		RECORD FILE	

SHOTCRETE DETAILS



PROJECT CONTROL / BASIS OF BEARINGS

ALL HORIZONTAL COORDINATES AND BEARINGS AS SHOWN ARE PROJECT GROUND BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND REFERENCES THE NORTH AMERICAN DATUM OF 1983 AND THE 2011 ADJUSTMENT (NAD 83(2011)).

ALL ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

BENCH MARKS (NAVD 1988)

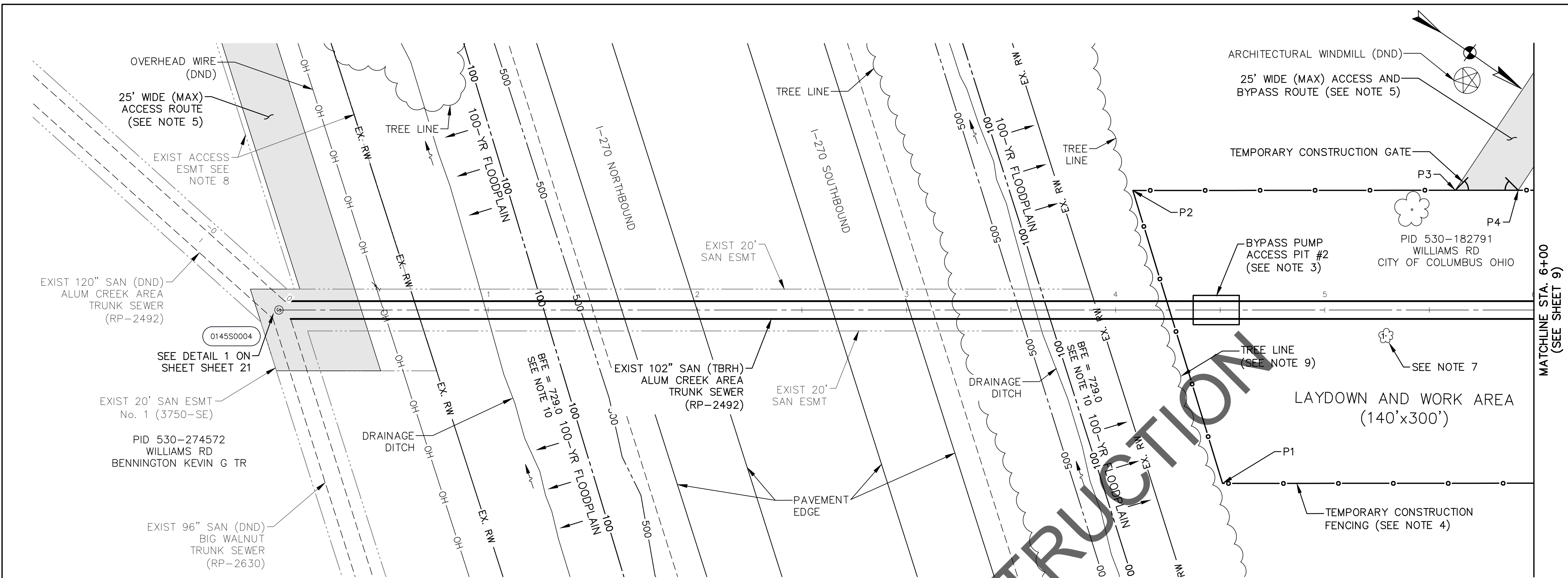
BM #SE-16
FRANKLIN COUNTY SURVEY CONTROL DATABASE, SE-16 (2014) ALUMINUM PLUG SET IN THE SOUTH END OF THE EAST ABUTMENT OF WATKINS ROAD BRIDGE MAD 126-3.06 OVER ALUM CREEK, 0.20 MILES WEST OF SCHWARTZ ROAD, 23.5 FEET SOUTH OF WATKINS ROAD CENTERLINE.
EL=733.623

BM #SE-4
FRANKLIN COUNTY SURVEY CONTROL DATABASE, SE-4 (2009) ALUMINUM PLUG SET IN THE SOUTHWEST ABUTMENT OF WILLIAMS ROAD BRIDGE MAD 123-04.34 OVER ALUM CREEK, 0.10 MILES EAST OF MARSHA DRIVE, 22 FEET SOUTH OF WILLIAMS ROAD CENTERLINE.
EL=736.998

BM #SE-6
FRANKLIN COUNTY SURVEY CONTROL DATABASE, SE-6 (2009) ALUMINUM PLUG SET IN THE NORTHWEST WINGWALL OF WATKINS ROAD CULVERT MAD 126-03.19, 0.35 MILES EAST OF SPANGLER ROAD, 18.6 FEET NORTH OF CENTERLINE.
EL=730.434

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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
								SCALE: 1" = 225'		SHEET: 7 OF 70	
								CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	
							CITY OF COLUMBUS		OWNER		
									CONTRACTOR		
									INSPECTOR		
									AGREEMENT	COMPLETED	
									RPD	CKD	
									CLD	CON. DR.	
									INDEX DETAIL	RECORD FILE	
SHOTCRETE REHABILITATION INDEX MAP											

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- NOTES:**
- CONTRACTOR SHALL PERFORM PARTIAL LINING PER SS-14 AND DETAIL ON SHEET 6.
 - CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14 AND DETAIL ON SHEET 6.
 - ACCESS PITS TO BE CONSTRUCTED AS PER DETAIL 1 ON SHEET 28 - BYPASS PIT DETAILS.
 - THE CONTRACTOR SHALL INSTALL TEMPORARY 8' TALL CHAIN LINK FENCING AROUND THE LAYDOWN AND WORK AREA DURING CONSTRUCTION.
 - FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
 - ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
 - NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 - THE TEMPORARY CONSTRUCTION EASEMENT (INSTRUMENT NO. 202010020150077) SHALL HAVE A TERM OF 24-MONTHS COMMENCING UPON THE CONTRACTOR'S ENTRY UPON THE PROPERTY FOR CONSTRUCTION PURPOSES, AND TERMINATING 24 MONTHS THEREAFTER. THE CONTRACTOR SHALL MAINTAIN INGRESS TO AND EGRESS FROM THE PROPERTY DURING THIS TERM.
 - CONTRACTOR TO INSTALL THE SOUTHEASTERN MOST SIDE OF THE TEMPORARY CONSTRUCTION FENCE AS CLOSE TO THE TREE LINE AS POSSIBLE WITHOUT DAMAGING OR NEGATIVELY IMPACTING ANY OF THE TREES IN THE NEARBY TREE LINE.
 - 100-YR FLOODPLAIN LINE AS SHOWN FOLLOWS EXISTING DELINEATED CONTOURS (BASE FLOOD ELEVATION = 729.0) AND COVERS AN AREA GREATER THAN THE 100-YR FLOODPLAIN AS DEPICTED WITHIN THE FEMA NATIONAL FLOOD INSURANCE PROGRAM MAP 39049C0343K, MAP REVISED 6/17/2008.

**LAYDOWN AND WORK AREA
REFERENCE POINT DATA:**

	NORTHING	EASTING
P1	689404.8596	1853740.8805
P2	689289.6469	1853650.5758
P3	689416.0171	1853562.3397
P4	689440.6765	1853545.1216

ACCESS ROUTE (SEE NOTE 5)



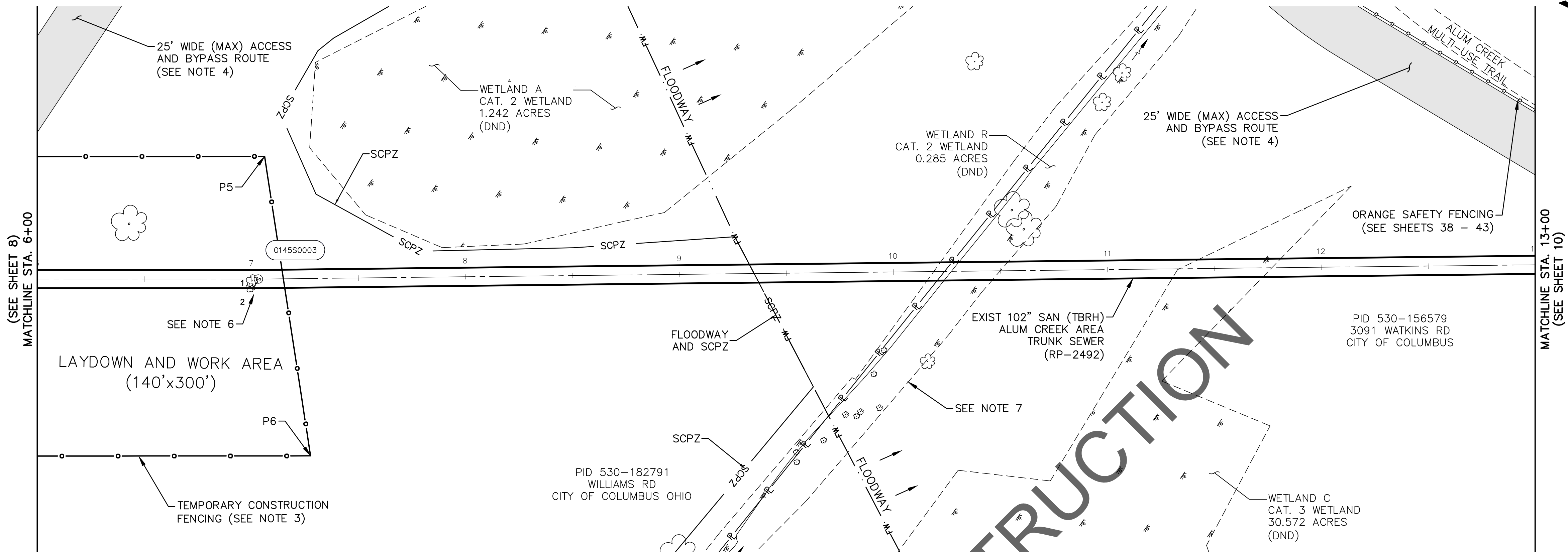
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SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 8 OF 70
CONTRACT DRAWING NO. CC-18773	RECORD PLAN NO.

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER		NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE			
3750-SE 2020100- 20150077	2698	686		W.J. ROHR ET AL K.G. BENNINGTON ET AL	

SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
0+00 TO 6+00

PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION - PHASE 1 CIP NO. 650725-100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY	
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		COMPLETED			
		RPD CKD CLD CON. DR.			
		RECORD DETAIL			

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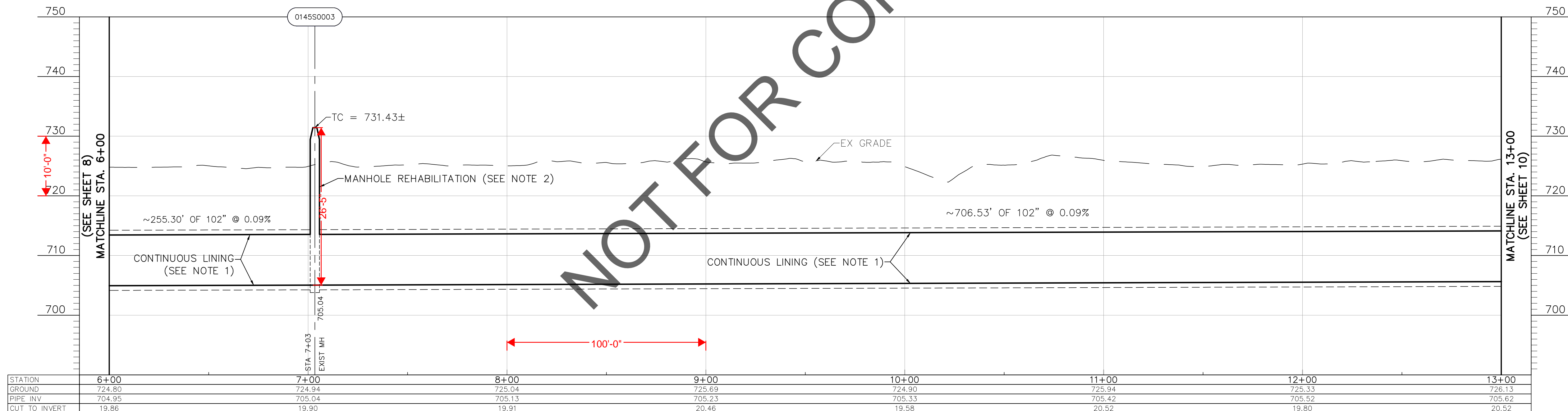


- NOTES:
- CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
 - CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
 - THE CONTRACTOR SHALL INSTALL TEMPORARY 8' TALL CHAIN LINK FENCING AROUND THE LAYDOWN AND WORK AREA DURING CONSTRUCTION.
 - FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
 - ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
 - NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 - TREES WITHIN THE WORK LIMITS OR ACCESS PATH LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.

ACCESS ROUTE (SEE NOTE 4)

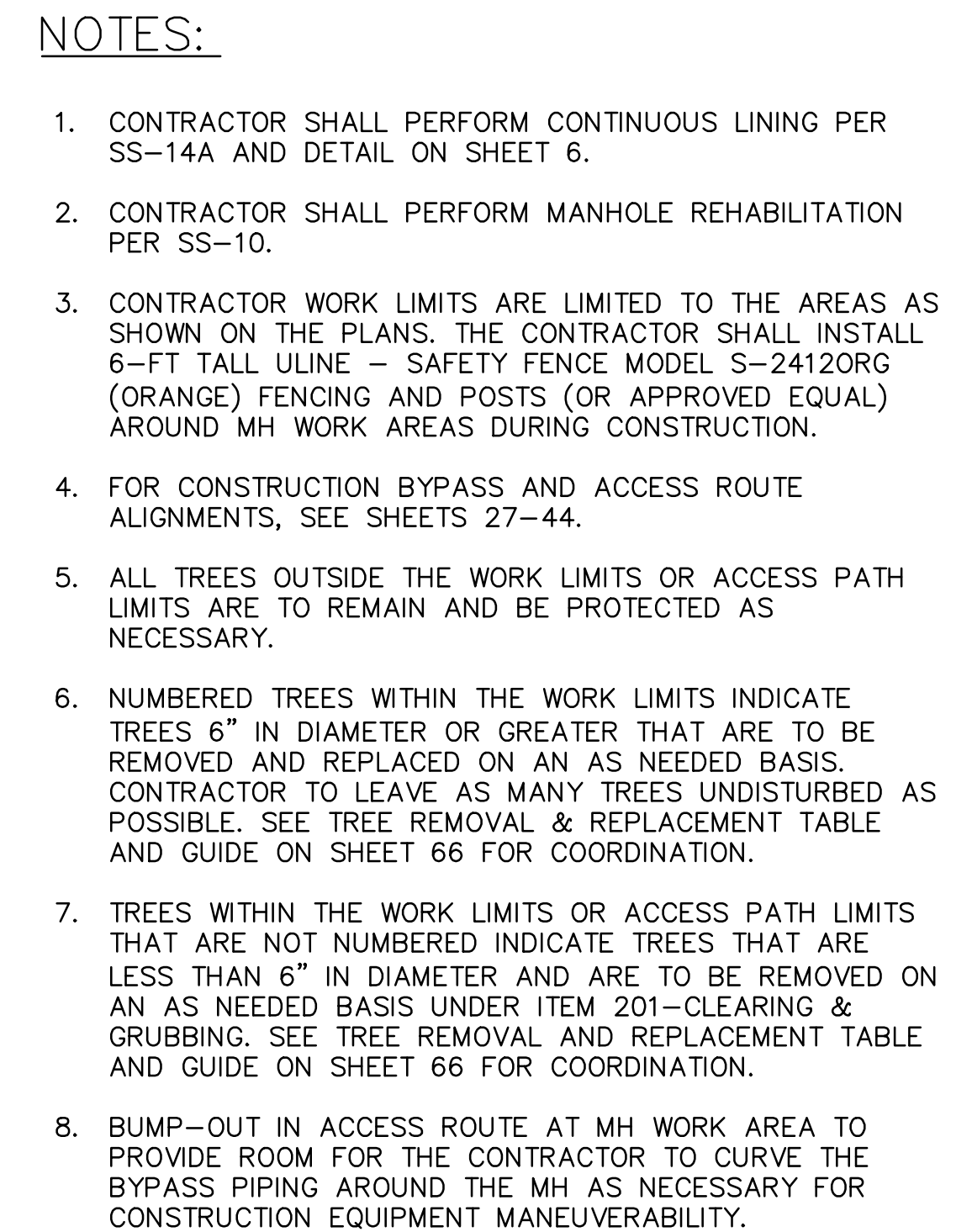
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P6 689631.6611	1853582.5107




0 30 60
SCALE IN FEET

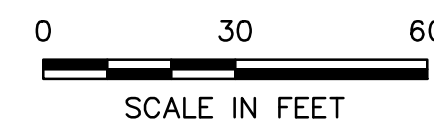
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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 9 of 70		
								CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	
							INDEX DETAIL	RECORD FILE			



MH WORK AREA
REFERENCE POINT DATA:

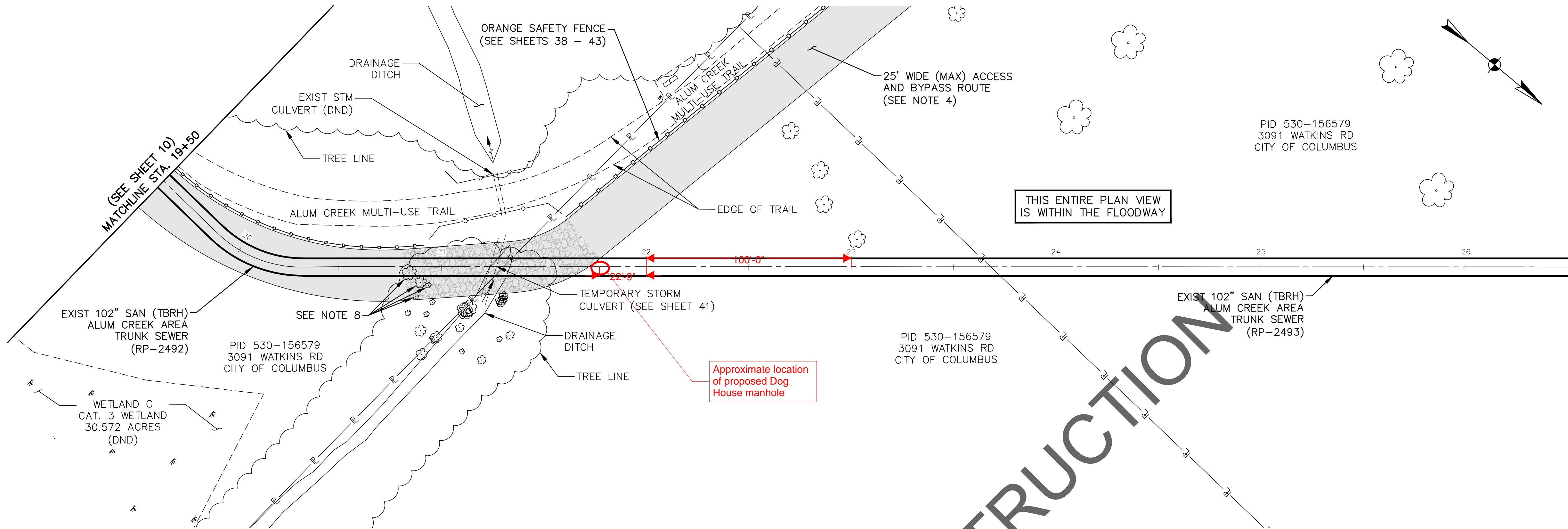
	NORTHING	EASTING
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P8	690122.2158	1853128.1215
P9	690172.2133	1853128.6197
P10	690171.7151	1853178.6173

 ACCESS ROUTE (SEE NOTE 4)



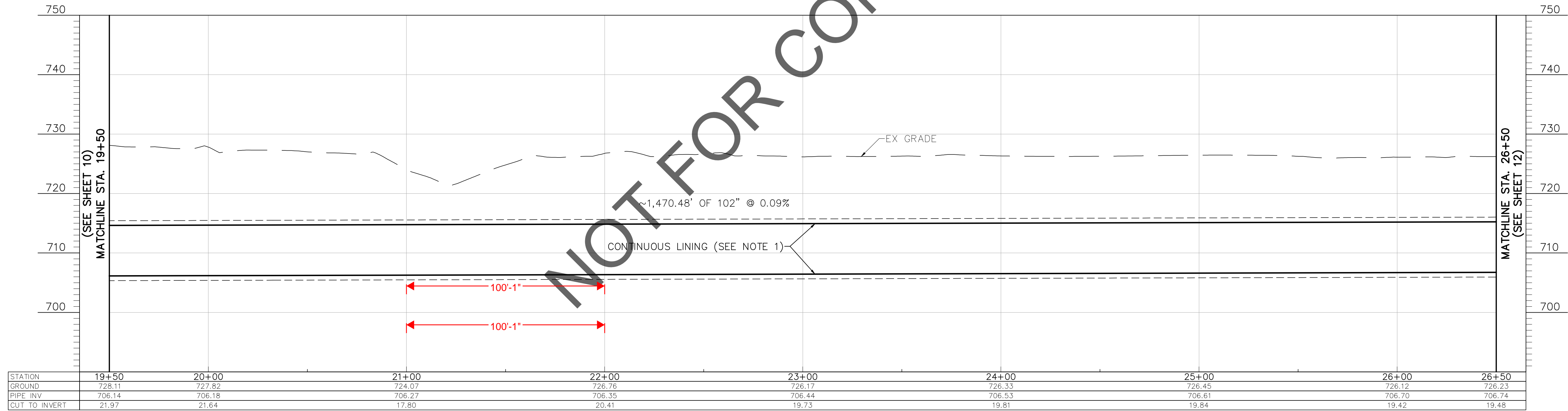
EASEMENT REFERENCE				REVISIONS			SHOTCRETE REHABILITATION PLAN & PROFILE STATION 13+00 TO 19+50	PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID			
	VOL.	PAGE						CONTRACTOR							
								INSPECTOR				SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 10 of 70	
								AGREEMENT		COMPLETED					
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		INDEX DETAIL	RECORD FILE												

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- NOTES:**
1. CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
 2. CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
 3. CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL SNOW FENCING AROUND MH WORK AREAS DURING CONSTRUCTION.
 4. FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
 5. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
 6. NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 7. TREES WITHIN THE WORK LIMITS OR ACCESS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 8. TREES TO BE REMOVED AS NECESSARY AND REPLACED FOR ACCESS ROUTE/BYPASS ROUTE, SEE SHEET 41.

ACCESS ROUTE (SEE NOTE 4)



0 30 60
SCALE IN FEET

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
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							RECORD PLAN NO.				

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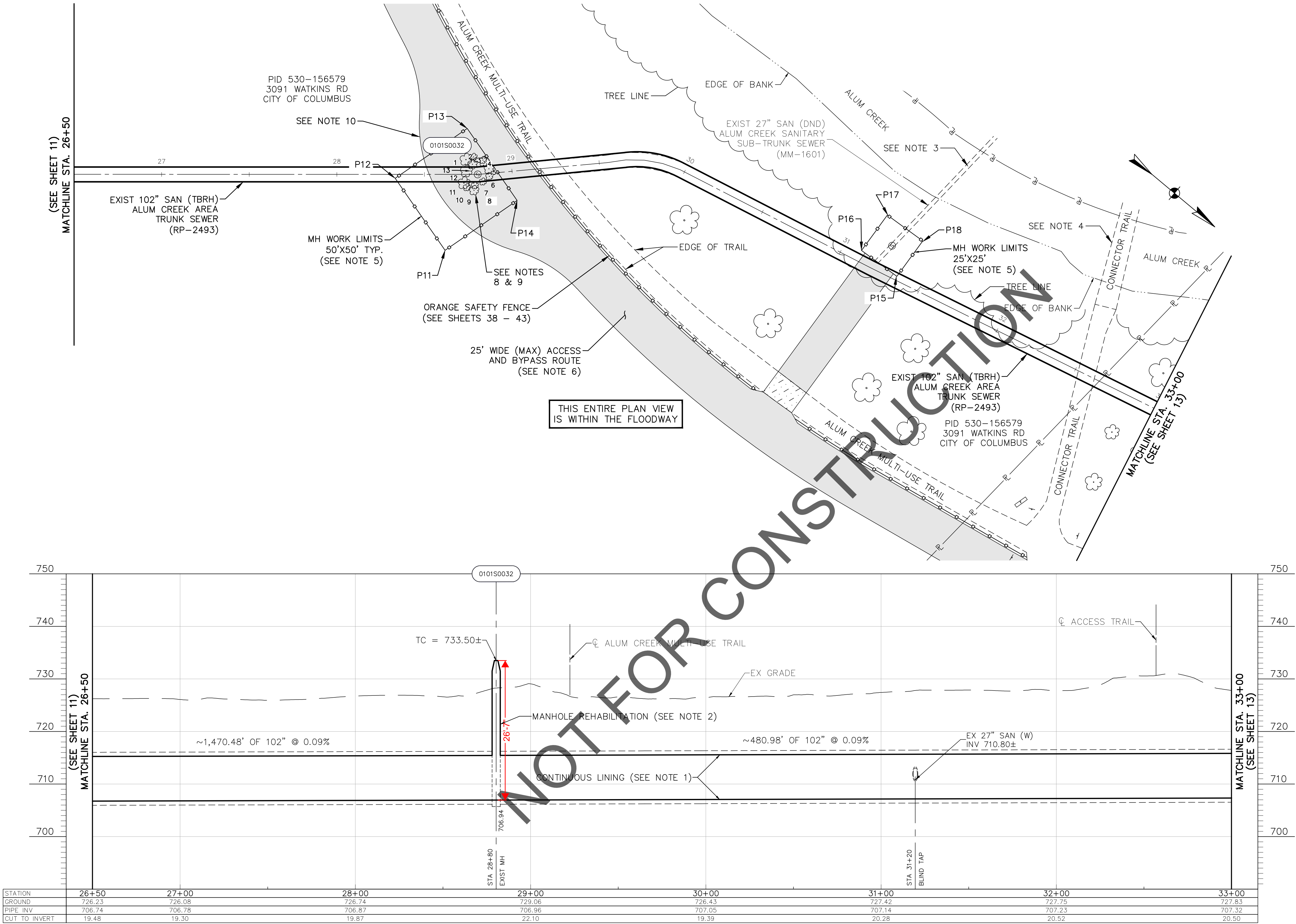
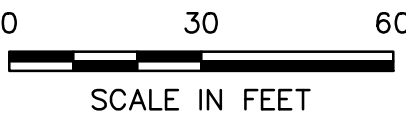
NOTES:

- CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
- CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
- FOR SUBTRUNK BYPASSING OPERATIONS, SEE SHEET 47.
- EXISTING LIGHT VEHICLE/PEDESTRIAN BRIDGE - PROJECT USE IS PROHIBITED.
- CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-2412ORG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.
- FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
- ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
- NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
- TREES WITHIN THE WORK LIMITS OR ACCESS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
- BUMP-OUT IN ACCESS ROUTE AT MH WORK AREA TO PROVIDE ROOM FOR THE CONTRACTOR TO CURVE THE BYPASS PIPING AROUND THE MH AS NECESSARY FOR CONSTRUCTION EQUIPMENT MANEUVERABILITY.

MH WORK AREA
REFERENCE POINT DATA:

	NORTHING	EASTING
P11	691428.7009	1852669.6065
P12	691380.4900	1852656.3509
P13	691393.7456	1852608.1400
P14	691441.9565	1852621.3956
P15	691635.8088	1852515.7839
P16	691610.8400	1852517.0330
P17	691609.5910	1852492.0642
P18	691634.5597	1852490.8151

- ACCESS ROUTE (SEE NOTE 6)
- ASPHALT TRAIL REPLACEMENT
PER DETAIL SHEET 4



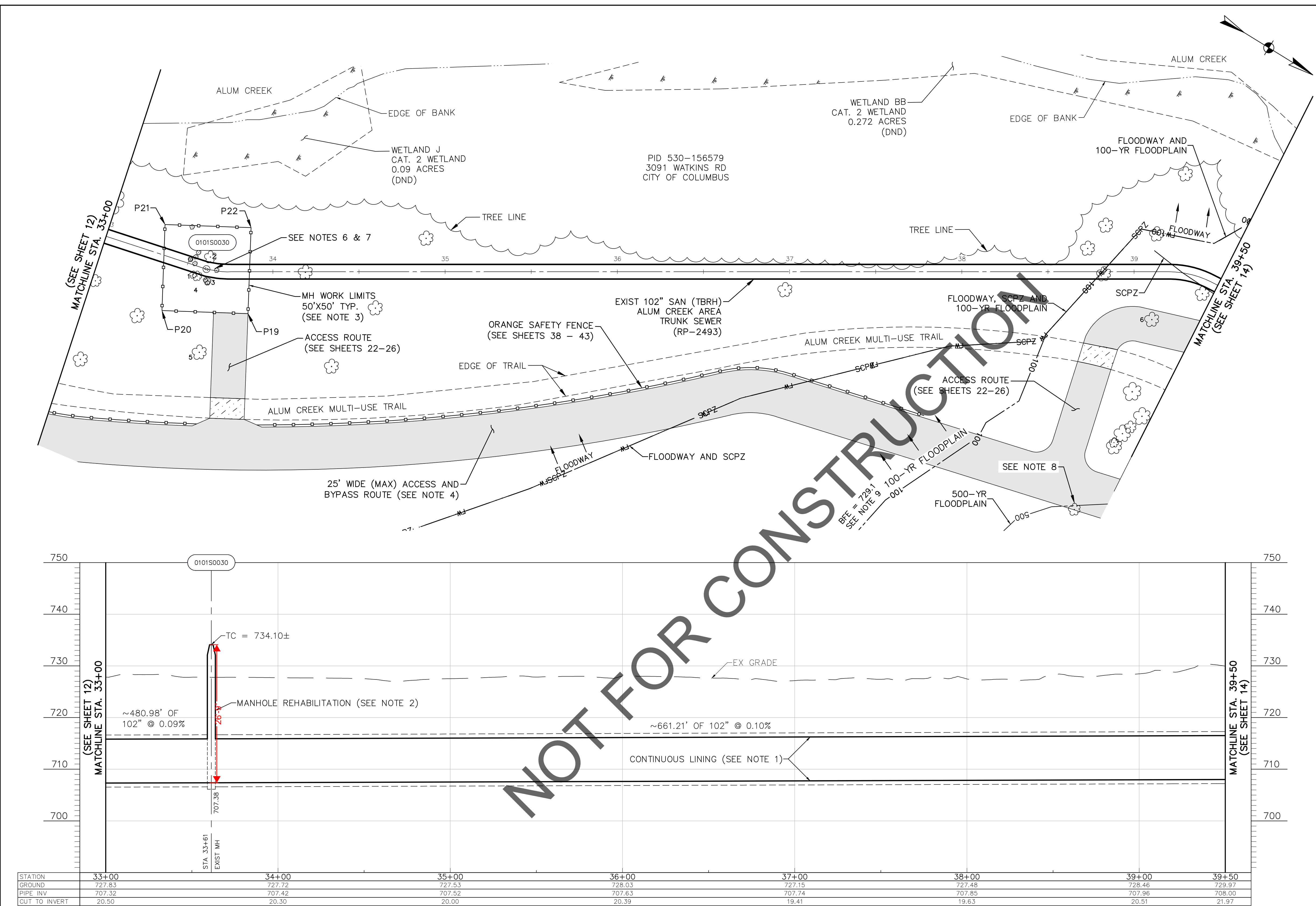
STATION	26+50	27+00	28+00	29+00	30+00	31+00	32+00	33+00
GROUND	726.23	726.08	726.74	729.06	726.43	727.42	727.75	727.83
PIPE INV	706.74	706.78	706.87	706.96	707.05	707.14	707.23	707.32
CUT TO INVERT	19.48	19.30	19.87	22.10	19.39	20.28	20.52	20.50

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						HORIZONTAL: 1" = 30'		VERTICAL: 1" = 10'	
						CONTRACTOR		SHEET: 12 OF 70			
						INSPECTOR		RECORD PLAN NO.			
				CONTRACT DRAWING NO. CC–18773		RECORD FILE					

SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
26+50 TO 33+00

SHEET: 12 OF 70

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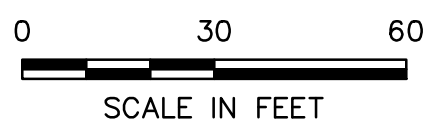


- NOTES:
1. CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
 2. CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
 3. CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-2412ORG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.
 4. FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
 5. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
 6. NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 7. TREES WITHIN THE WORK LIMITS OR ACCESS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 8. TREE TO BE REMOVED AS NECESSARY AND REPLACED FOR ACCESS ROUTE/BYPASS ROUTE, SEE SHEET 37.
 9. 100-YR FLOODPLAIN LINE AS SHOWN FOLLOWS EXISTING DELINEATED CONTOURS (BASE FLOOD ELEVATION = 729.1) AND COVERS AN AREA GREATER THAN THE 100-YR FLOODPLAIN AS DEPICTED WITHIN THE FEMA NATIONAL FLOOD INSURANCE PROGRAM MAP 39049C0343K, MAP REVISED 6/17/2008.

MH WORK AREA REFERENCE POINT DATA:		
	NORTHING	EASTING
P19	691890.5725	1852474.2711
P20	691847.0889	1852498.9525
P21	691822.4074	1852455.4689
P22	691865.8910	1852430.7874

ACCESS ROUTE (SEE NOTE 4)

ASPHALT TRAIL REPLACEMENT
PER DETAIL SHEET 4



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
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	VOL.	PAGE						SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 13 OF 70		
								CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	
								RPD	CKD	CLD	CON. DR.

SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
33+00 TO 39+50

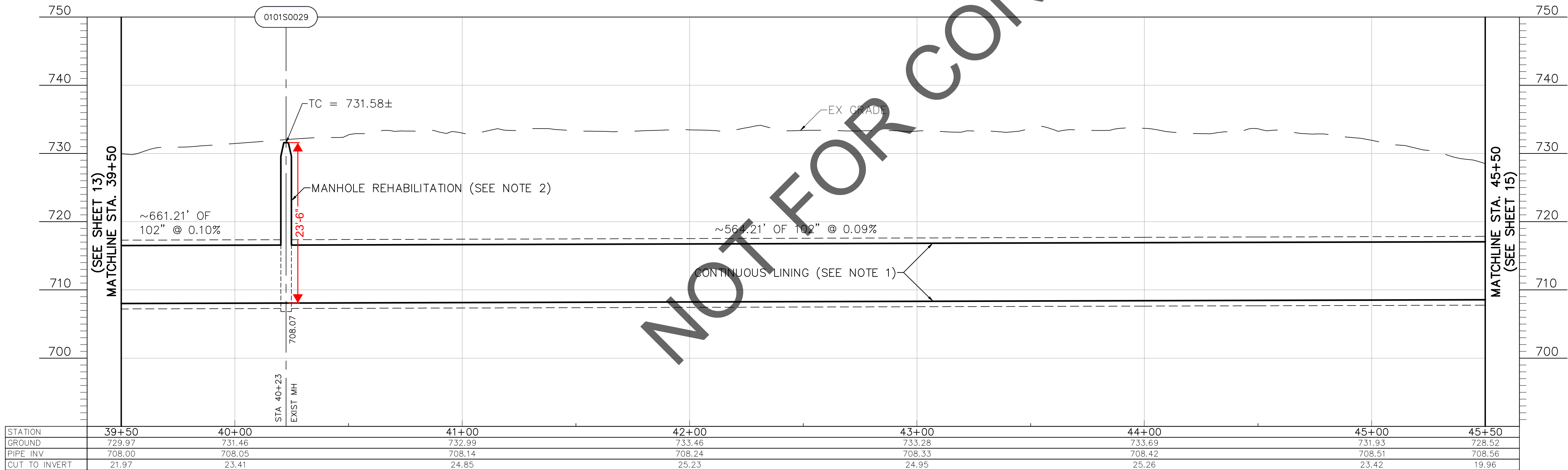
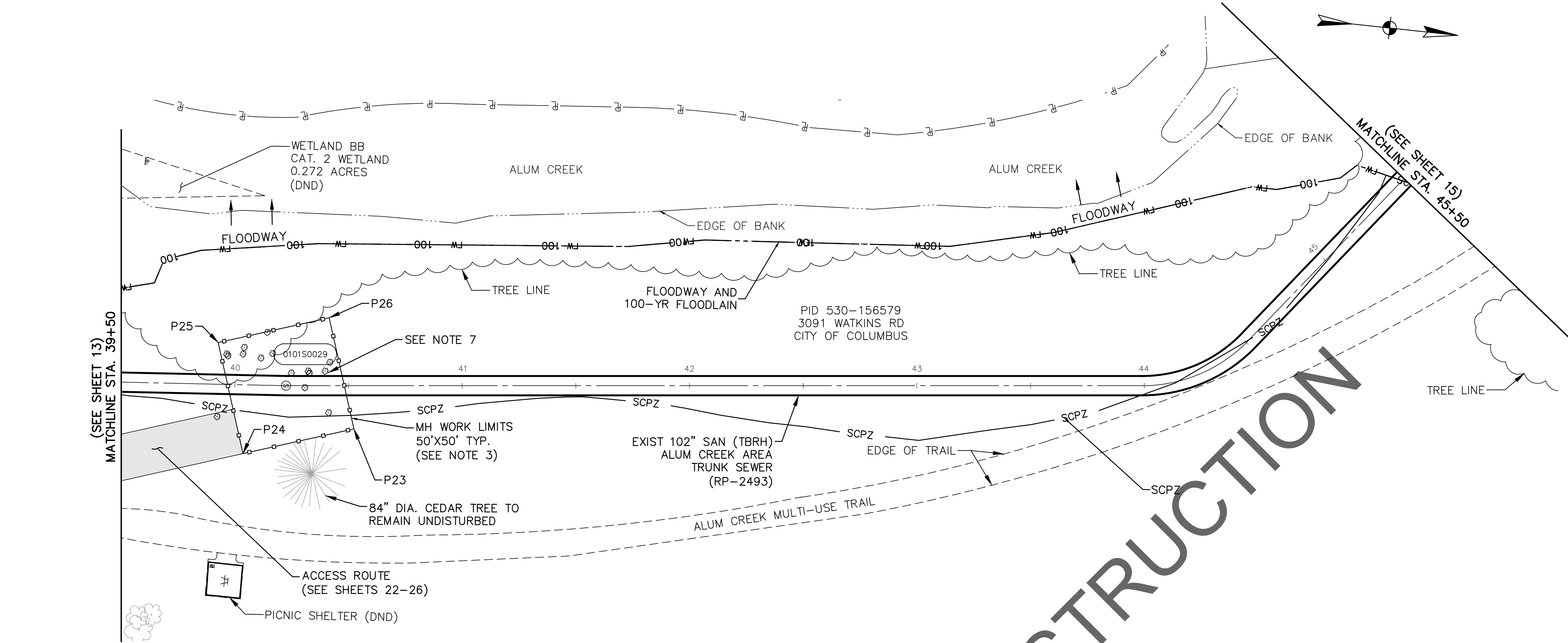
NOTES:

1. CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
2. CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
3. CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.
4. FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
5. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
6. NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
7. TREES WITHIN THE WORK LIMITS OR ACCESS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.

MH WORK AREA
REFERENCE POINT DATA:

	NORTHING	EASTING
P23	692465.2039	1852174.1881
P24	692417.8519	1852190.2439
P25	692401.7961	1852142.8919
P26	692449.1481	1852126.8361

ACCESS ROUTE (SEE NOTE 4)



0 30 60
SCALE IN FEET


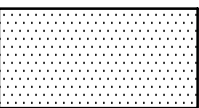
EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
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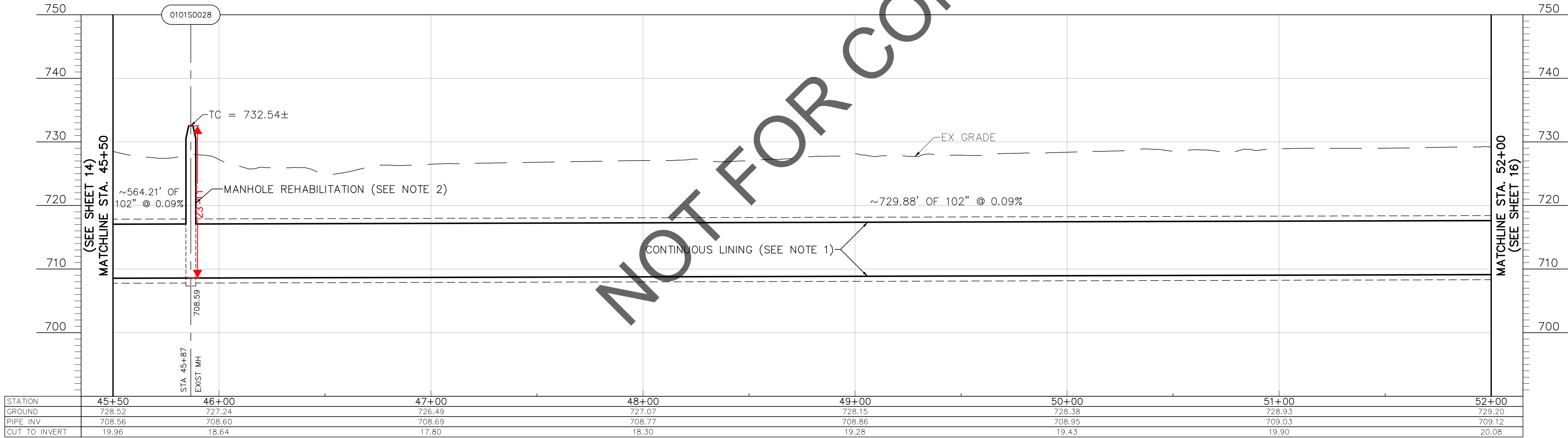
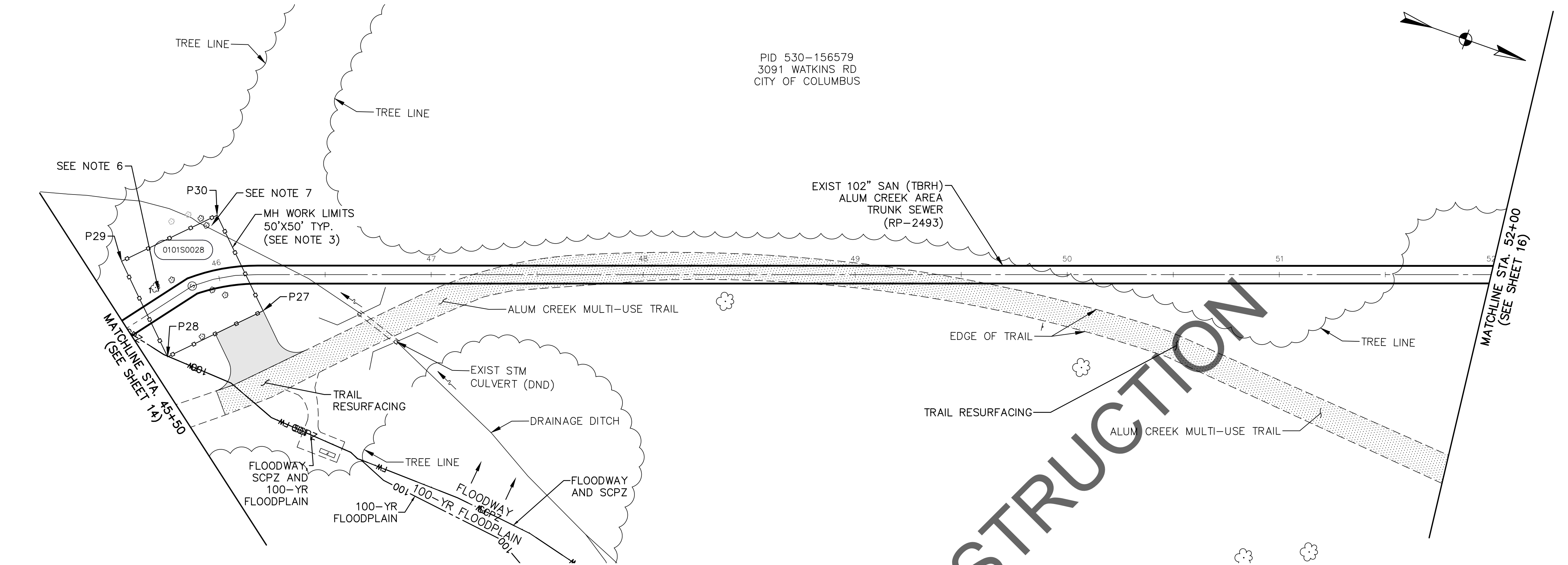
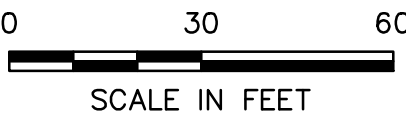
NOTES:

- CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
- CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
- CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-2412ORG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.
- FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
- ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
- NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
- TREES WITHIN THE WORK LIMITS OR ACCESS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.

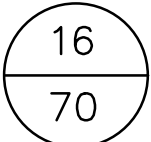
MH WORK AREA
REFERENCE POINT DATA:

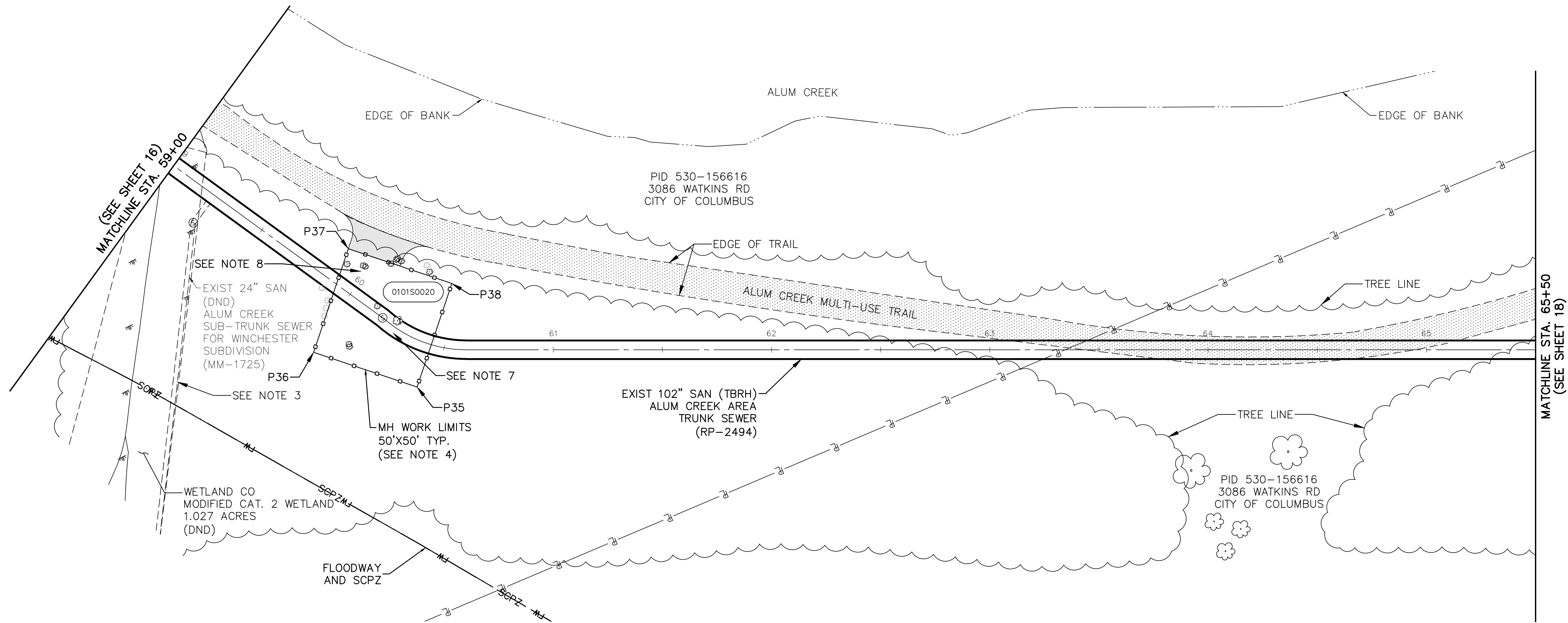
	NORTHING	EASTING
P27	692970.4751	1851986.0701
P28	692935.2299	1852021.5352
P29	692899.7648	1851986.2900
P30	692935.0100	1851950.8249

	ACCESS ROUTE (SEE NOTE 4)
	MULTI-USE PATH MILL AND OVERLAY (T=1-1/4")

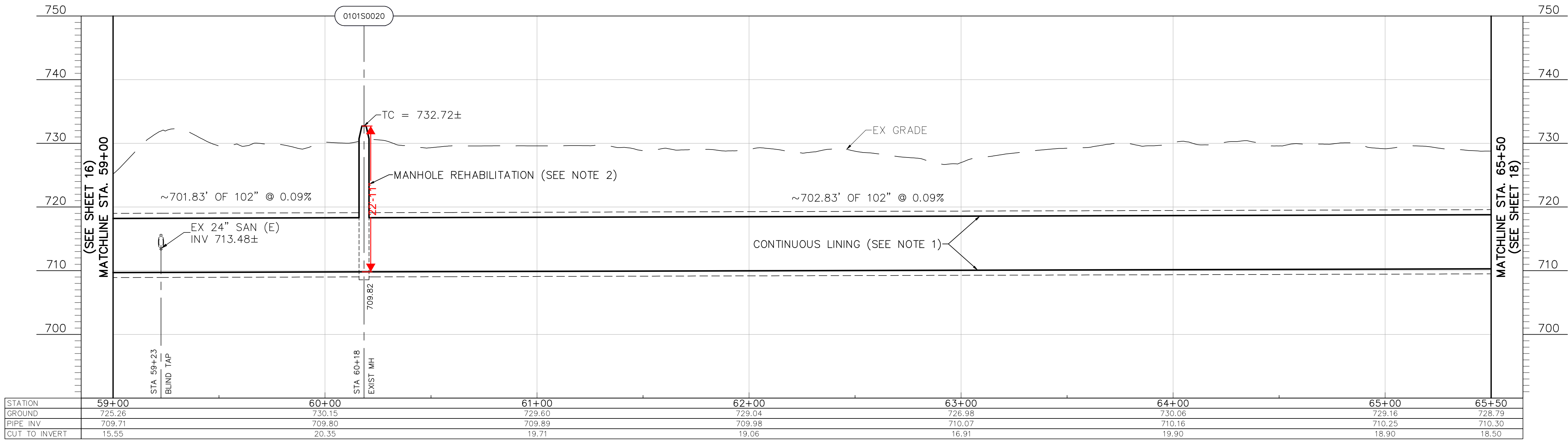


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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
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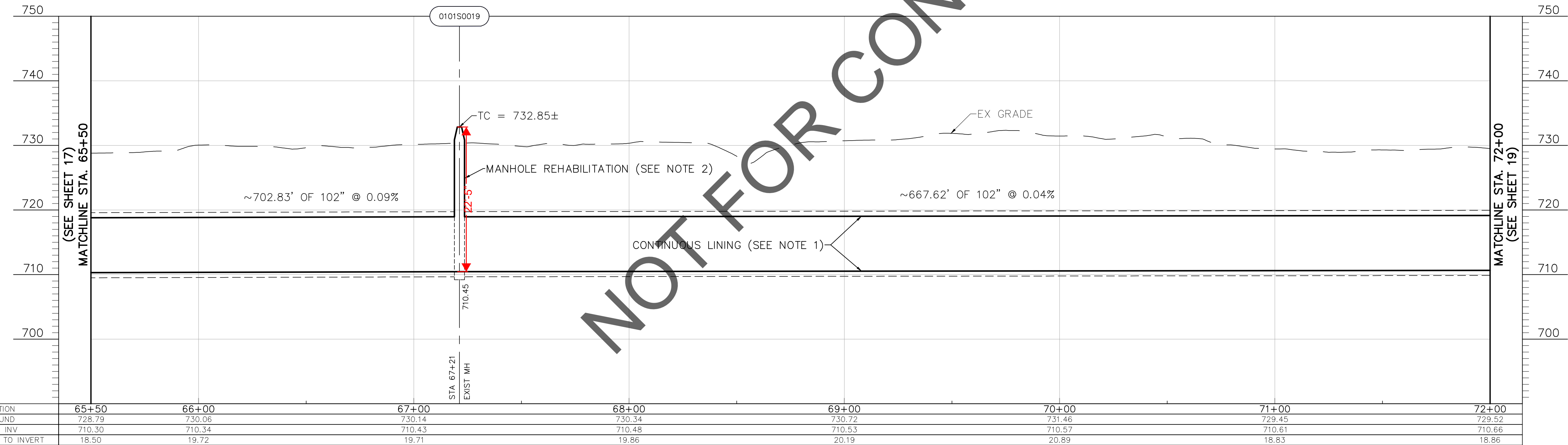
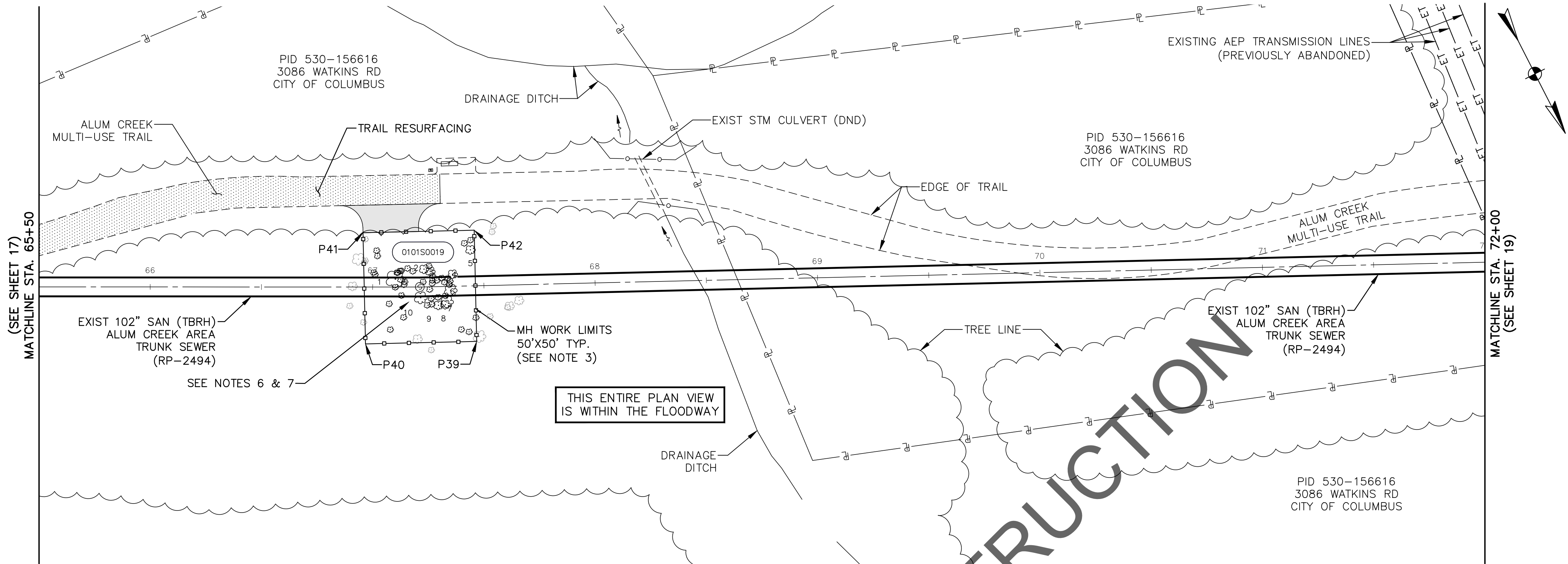


- NOTES:
1. CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.
 2. CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.
 3. FOR SUBTRUNK BYPASSING OPERATIONS, SEE SHEET 46.
 4. CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.
 5. FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.
 6. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
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EASEMENT REFERENCE				REVISIONS			PROJECT TITLE:										CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION			
TY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE														
	VOL.	PAGE																		
							CITY OF COLUMBUS					OWNER					SCALE:	SHEET:		
												CONTRACTOR								
												INSPECTOR								
												AGREEMENT		COMPLETED						
												RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.			
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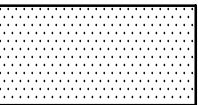


NOTES:

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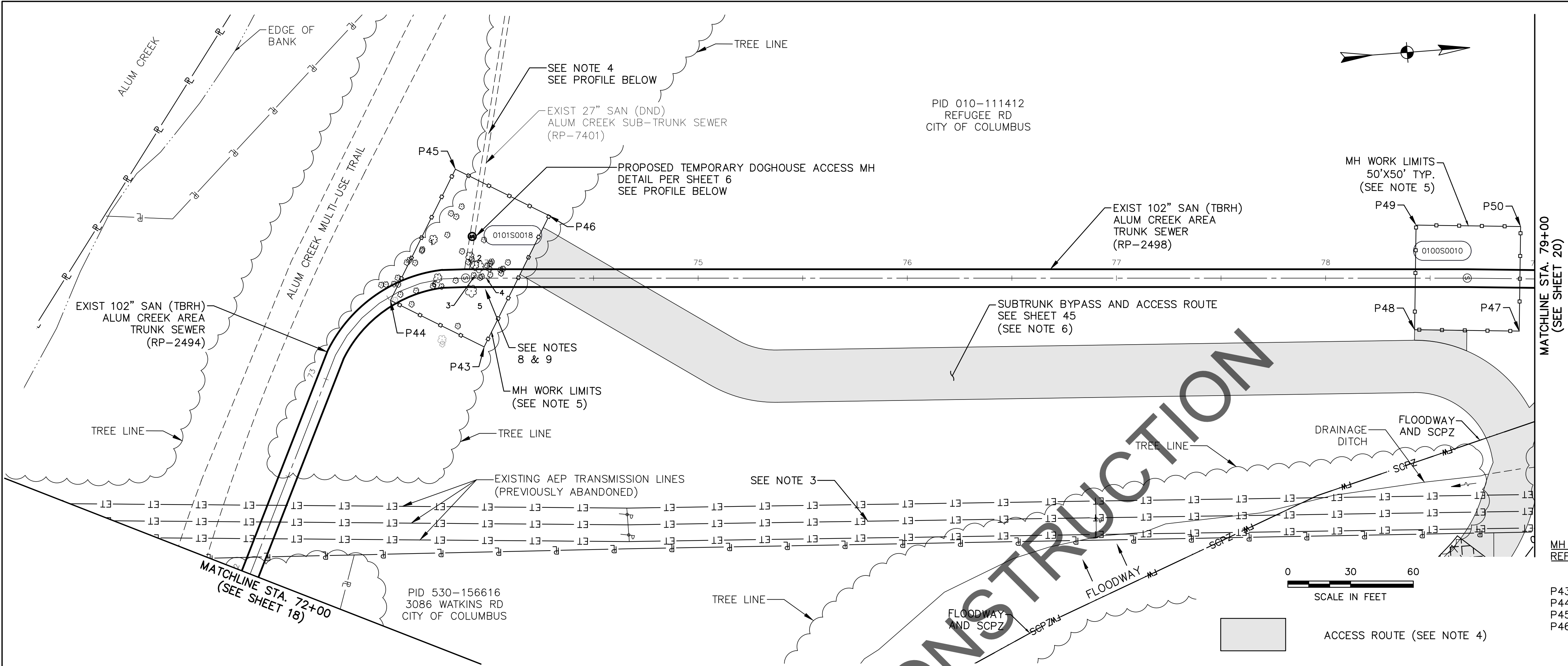
MH WORK AREA
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NORTHING	EASTING
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P40 694623.7539	1850958.6725
P41 694578.7075	1850936.9740
P42 694600.4060	1850891.9276

-  ACCESS ROUTE (SEE NOTE 4)
-  MULTI-USE PATH MILL AND OVERLAY (T=1-1/4")

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 18 OF 70	
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SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
65+50 TO 72+00



NOTES:

1.

CONTRACTOR SHALL PERFORM CONTINUOUS LINING PER SS-14A AND DETAIL ON SHEET 6.

2.

CONTRACTOR SHALL PERFORM MANHOLE REHABILITATION PER SS-10.

3.

LOCATION OF TRANSMISSION LINES ARE APPROXIMATE AND HAVE NOT BEEN SURVEYED.

4.

FOR BYPASSING OPERATIONS, SEE SHEET 27.

5.

CONTRACTOR WORK LIMITS ARE LIMITED TO THE AREAS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-2412ORG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) AROUND MH WORK AREAS DURING CONSTRUCTION.

6.

FOR CONSTRUCTION BYPASS AND ACCESS ROUTE ALIGNMENTS, SEE SHEETS 27-44.

7.

ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.

8.

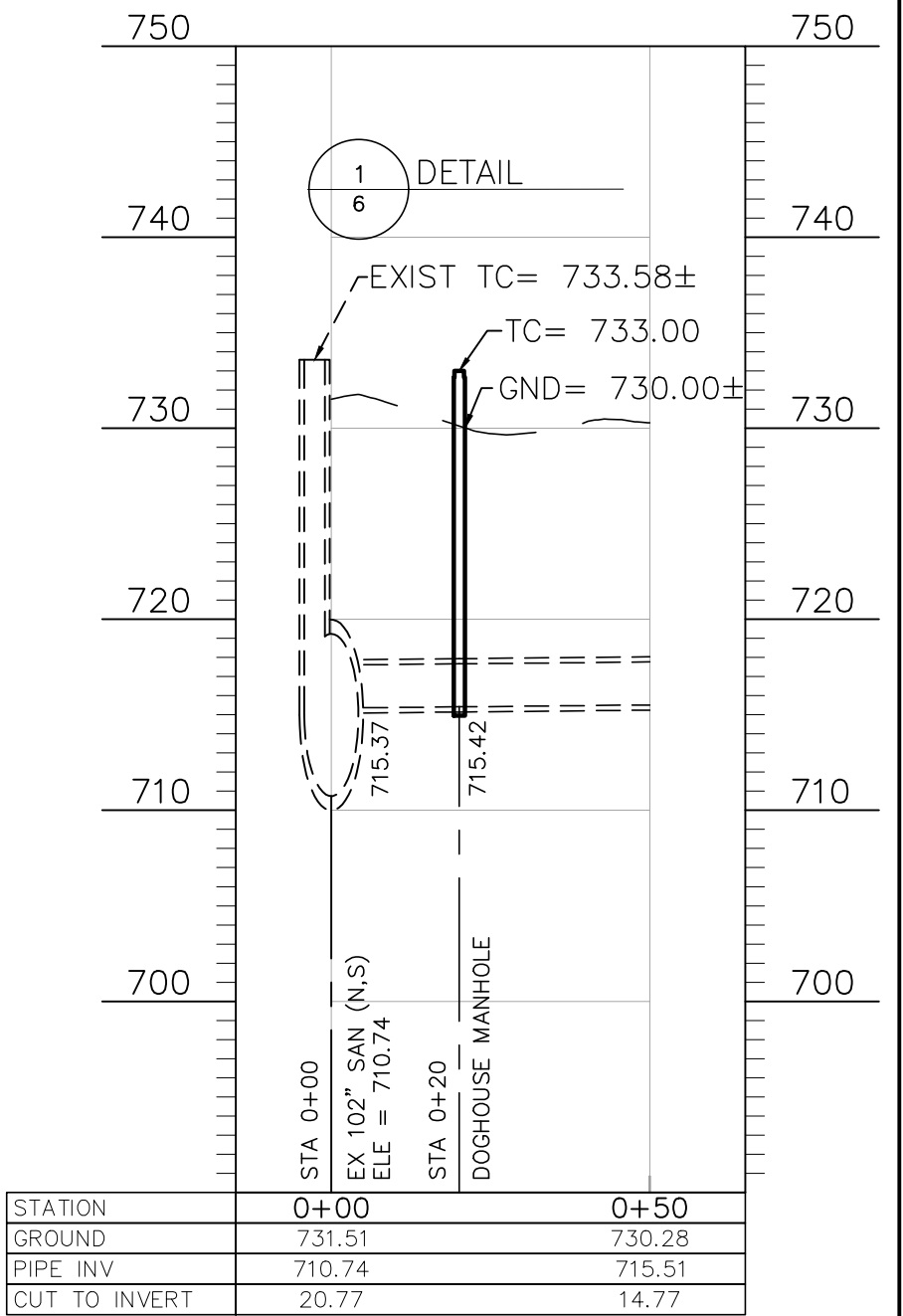
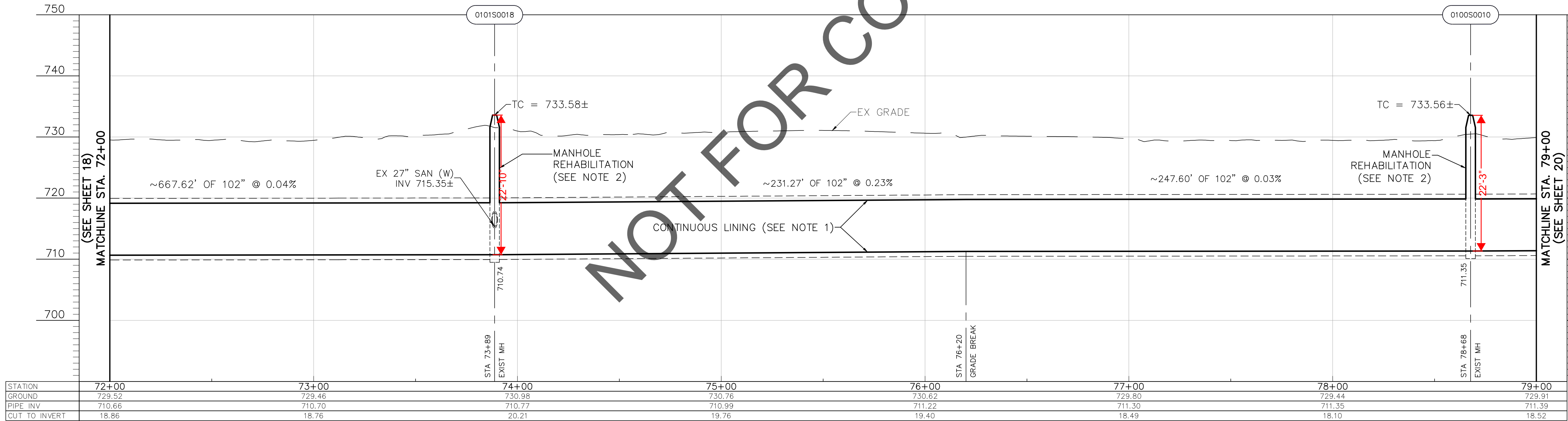
NUMBERED TREES WITHIN THE WORK LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.

9.

TREES WITHIN THE WORK LIMITS OR ACCESS PATH LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.

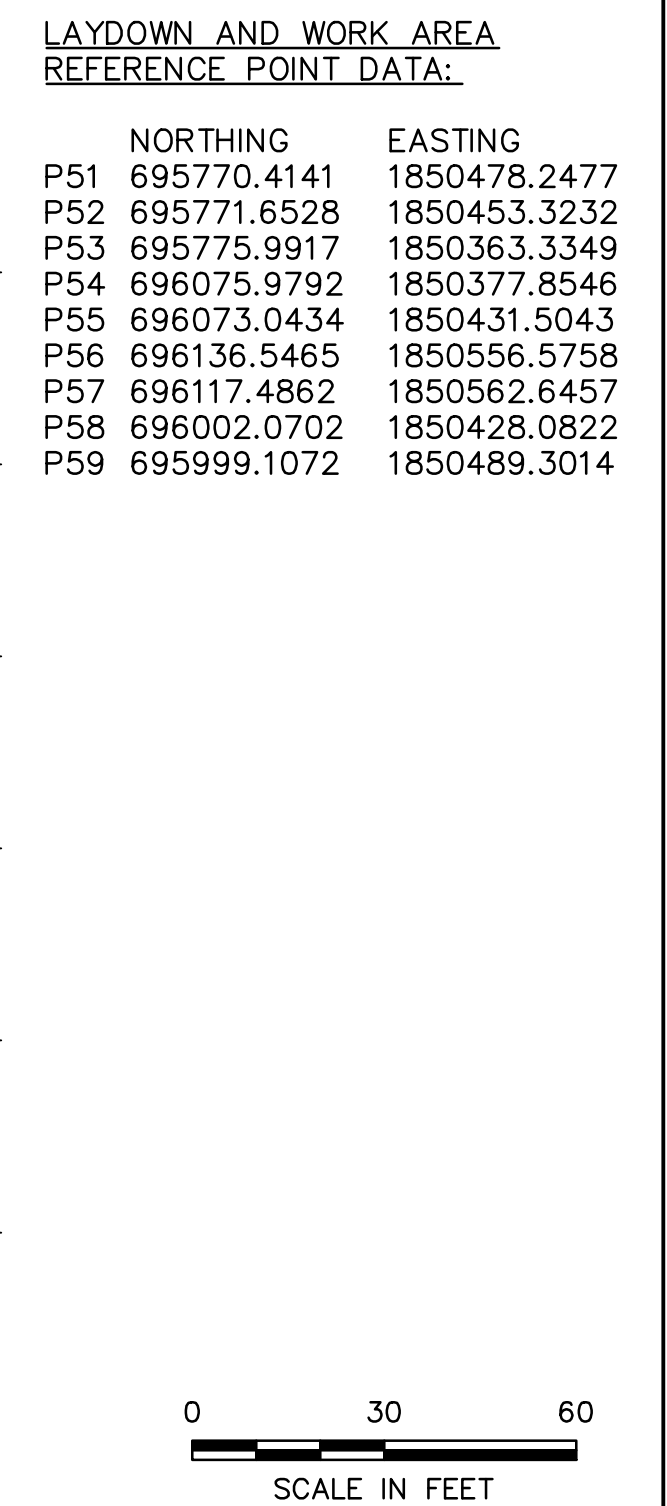
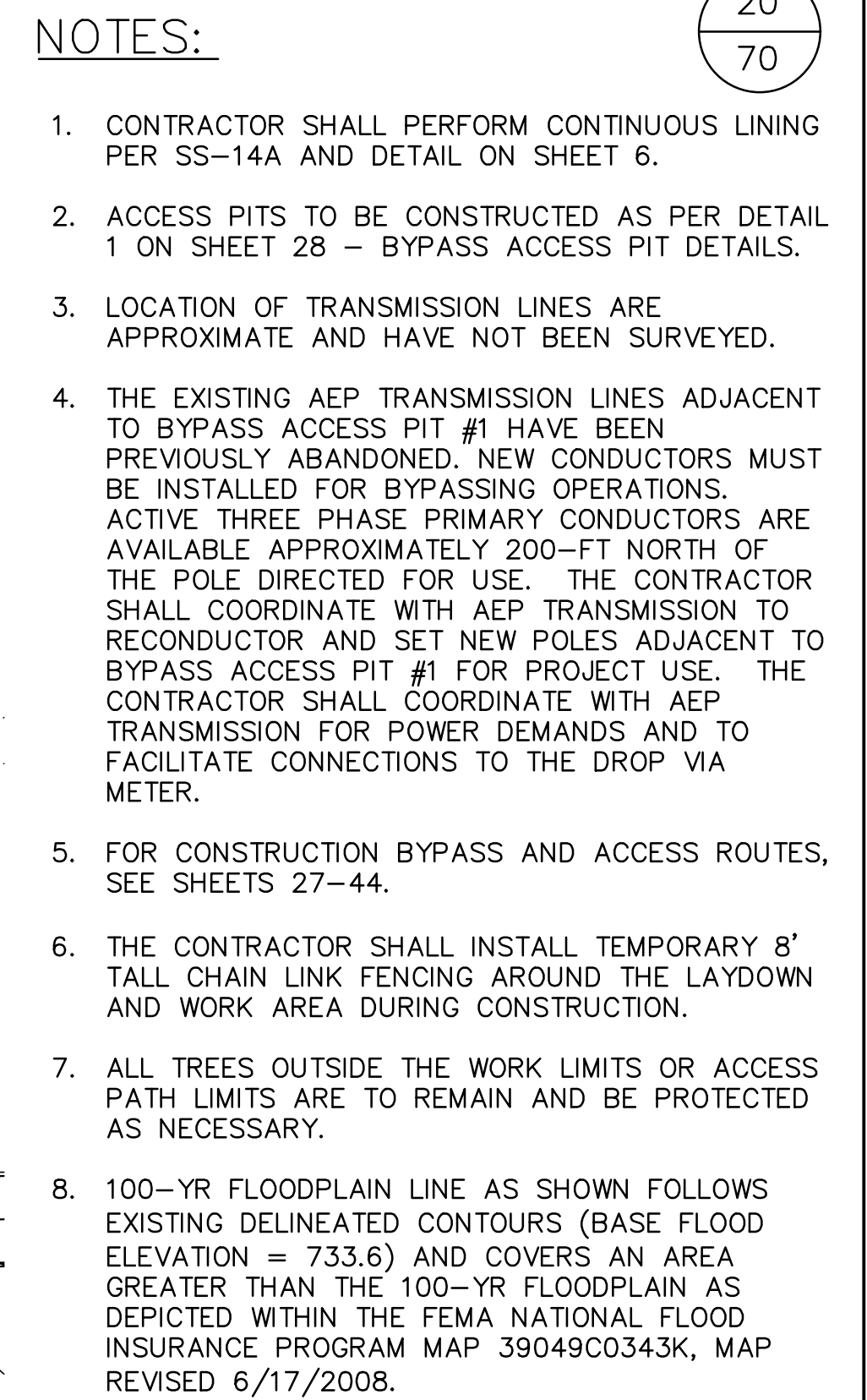
MH WORK AREA
REFERENCE POINT DATA:

	NORTHING	EASTING	NORTHING	EASTING
P43	694939.2569	1850393.9710	P47	695433.2501
P44	694896.2742	1850368.4272	P48	695383.4520
P45	694932.0354	1850308.2514	P49	695387.9401
P46	694975.0182	1850333.7951	P50	695437.7383



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>				
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID				
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							CITY OF COLUMBUS		OWNER		CONTRACT DRAWING NO. CC–18773	RECORD PLAN NO.
							CONTRACTOR					
							INSPECTOR					
									AGREEMENT	COMPLETED		
									RPD	CKD	CLD	CON. DR.
									INDEX DETAIL		RECORD FILE	

SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
72+00 TO 79+00

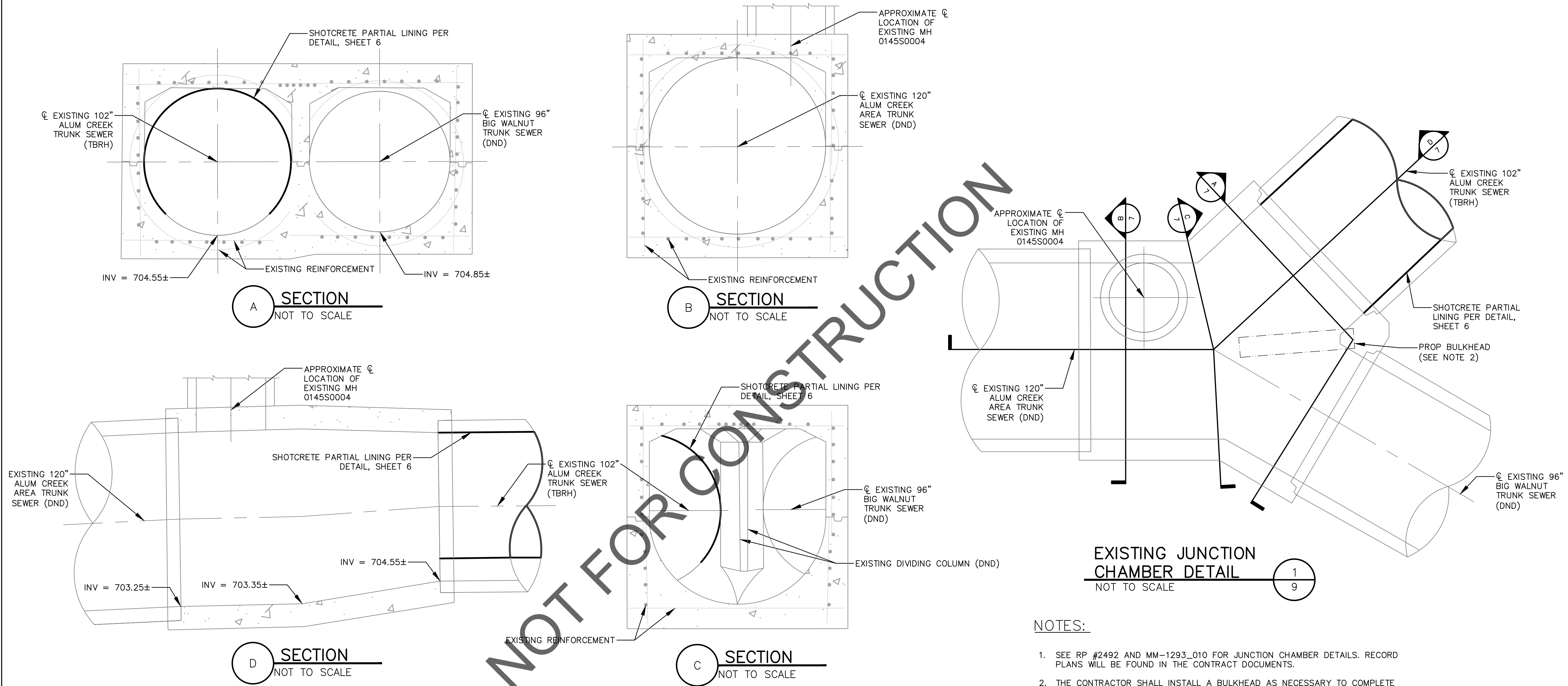


EASEMENT REFERENCE				REVISIONS		
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	VOL.	PAGE				

SHOTCRETE REHABILITATION
PLAN & PROFILE STATION
79+00 TO 86+50

PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY			
ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004							
CITY OF COLUMBUS				OWNER			
				CONTRACTOR			
				INSPECTOR			
				AGREEMENT		COMPLETED	
				RPD	CKD	CLD	CON. DR.
				INDEX DETAIL		RECORD FILE	
				ISSUED STATUS: BID			
SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'				SHEET: 20 OF 70			
CONTRACT DRAWING NO. CC-18773				RECORD PLAN NO.			

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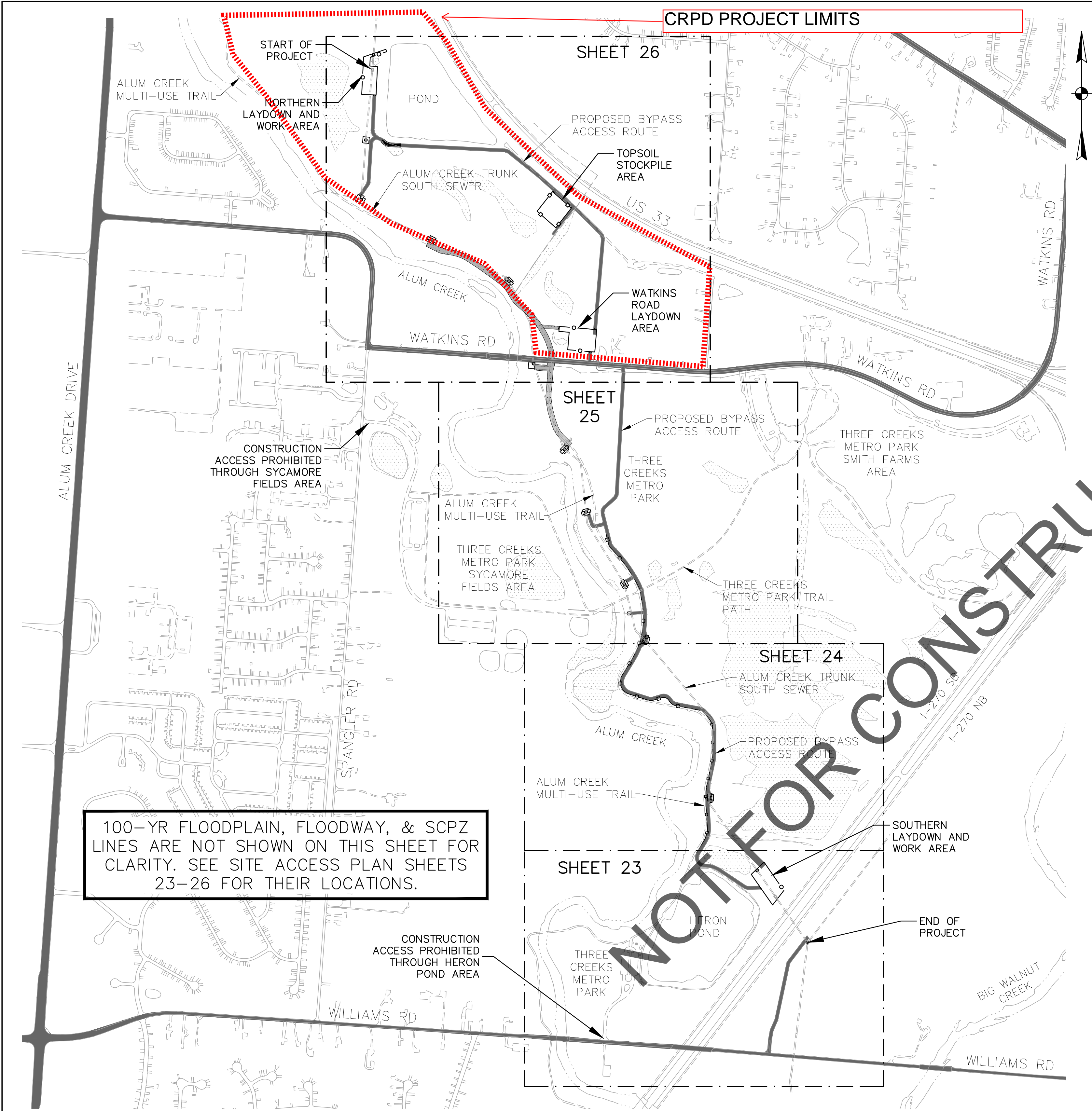


- NOTES:
- 1. SEE RP #2492 AND MM-1293_010 FOR JUNCTION CHAMBER DETAILS. RECORD PLANS WILL BE FOUND IN THE CONTRACT DOCUMENTS.
 - 2. THE CONTRACTOR SHALL INSTALL A BULKHEAD AS NECESSARY TO COMPLETE SHOTCRETE PARTIAL LINING

EASEMENT REFERENCE				REVISIONS			EXISTING JUNTION CHAMBER DETAILS	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>				
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							AGREEMENT		COMPLETED				
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							INDEX DETAIL		RECORD FILE				

EXISTING JUNTION
CHAMBER DETAILS

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OVERALL SITE ACCESS NOTES:

1. ACCESS TO EACH MANHOLE ALONG THE ACT-S SEWER IS PERMITTED VIA EITHER THE LIGHT DUTY OR HEAVY DUTY CONSTRUCTION ROUTES DENOTED BELOW. THE CONTRACTOR MAY NOT ENCROACH INTO THE PARK BEYOND THE DENOTED ACCESS/BYPASS ROUTES, LAYDOWN AREAS, AND STOCKPILE AREA WITHOUT WRITTEN APPROVAL FROM CRPD AND THE OWNER. ADDITIONAL REQUIREMENTS ARE LISTED BELOW.
2. CONTRACTOR MAY CLEAR WORK AREAS NOT LARGER THAN 50' BY 50' OF UNDERBRUSH LESS THAN 6-INCHES IN CALIPER DIAMETER AT CHEST HEIGHT FOR WORKING SPACE AT EACH MANHOLE UNLESS OTHERWISE NOTED. COST FOR REMOVAL OF UNDERBRUSH SHALL BE INCLUDED IN THE PRICE BID UNDER ITEM 201, CLEARING AND GRUBBING.
3. ANY TREE CLEARING BY THE CONTRACTOR NOT DESIGNATED ON THE PLANS SHALL BE PERFORMED PER GENERAL NOTE 15 - TREE PRESERVATION, AND SHALL BE PERFORMED AT NO EXTRA COST TO THE OWNER. SEE SHEET 66 FOR THE TREE REMOVAL AND REPLACEMENT TABLE.
4. CONTRACTOR SHALL INCLUDE THE COST REQUIRED TO SURVEY AND STAKE THE EXISTING EASEMENTS, ROW, PRIVATE PROPERTY LINES, LAYDOWN AREAS, AND EACH MH WORK AREA UNDER THE PRICE BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES.
5. CONTRACTOR SHALL INCLUDE THE COST REQUIRED TO DELINEATE THE ENTIRE LENGTH OF THE 25' WIDE ACCESS ROUTE UNDER THE PRICE BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES. CONTRACTOR SHALL ALSO ADD STAKES WITH RIBBON AT EVERY BEND, POINTS OF CURVATURE, AND POINTS OF TANGENCY OF THE ACCESS ROUTE AND AT 100' INTERVALS ON THE OPPOSITE SIDE OF THE COMPOST FILTER SOCK.
6. CONTRACTOR SHALL INSTALL 8' TALL CONSTRUCTION FENCE, TYPE CLT, CHAIN LINK AROUND STAGING AREAS, AND MOVABLE 6' TALL CONSTRUCTION FENCE, TYPE CLT, CHAIN LINK FENCE AROUND WORKING/OPEN MANHOLES. 6' ORANGE MESH SNOW FENCING SHALL BE INSTALLED WHERE THE ACCESS PATH IS ADJACENT TO THE BIKE PATH, AS SHOWN ON THE PLANS.
7. REFER TO SHEETS 8-20 FOR SHOTCRETING PLANS AND PROFILES.
8. REFER TO SHEETS 27-47 FOR BYPASSING PLANS AND PROFILES AND ACCESS ROUTE ALIGNMENT.
9. CONTRACTOR SHALL COORDINATE WITH COLUMBUS RECREATION AND PARKS (TINA MOHN, 614-645-3395) TO COORDINATE WORK ACTIVITIES AND WORK HOURS DURING ANY PUBLIC EVENTS.
10. CONSTRUCTION ACCESS PROHIBITED THROUGH SYCAMORE FIELDS PARK. USE OF THE BRIDGE CONNECTING THE PARK TO THE MULTI-USE TRAIL IS ALSO PROHIBITED.
11. STAGING OR STORAGE IS PROHIBITED WITHIN PARK PROPERTY OUTSIDE OF THE DESIGNATED LAYDOWN AREAS.

LIGHT DUTY TRAFFIC TRAIL CONSTRUCTION ROUTE - FOR ACCESS TO MANHOLES 0101S0019, 0101S0020, 0101S0027, & 0101S0028 ONLY.
CONSTRUCTION EQUIPMENT IS PROHIBITED FROM UTILIZING THE TRAIL OTHER THAN WHERE ALLOWED AS INDICATED BY THE LEGEND.
THE CONTRACTOR MAY ACCESS THESE MANHOLES AND WORK AREAS USING THE EXISTING ALUM-CREEK MULTI-USE TRAIL WHILE ADHERING TO THE FOLLOWING REQUIREMENTS:

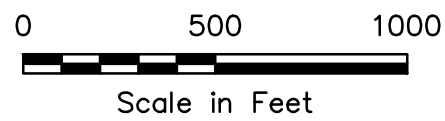
- A) CONSTRUCTION VEHICLES PERMITTED ON THE TRAIL ARE LIMITED TO A MAXIMUM OF 1/2-TON RATED TRUCKS (US GVWR CLASS 2A). LOADING MAY NOT EXCEED VEHICLE'S RATED CAPACITY.
- B) CONTRACTOR SHALL COORDINATE ALL USE OF THE TRAIL WITH THE CITY OF COLUMBUS, DEPARTMENT OF RECREATION AND PARKS (TINA MOHN, 614-645-3395) AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK ALONG THE TRAIL OR PARK FACILITIES, INCLUDING REPAIR OR RESTORATION WORK.
- C) DURING CONSTRUCTION AND ACTIVE USE OF THE TRAIL, THE CONTRACTOR SHALL KEEP THE TRAIL OPEN AND MAINTAINED IN GOOD WORKING CONDITION AT ALL TIMES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY TEMPORARY TRAIL REPAIRS NECESSARY DURING CONSTRUCTION. ANY TRAIL DAMAGE SHALL BE REPAIRED WITHIN 12 HOURS OF DAMAGE. THE LIMITS OF REPAIR DURING CONSTRUCTION SHALL BE DETERMINED AT THE SOLE DISCRETION OF THE OWNER. THE CONTRACTOR SHALL KEEP THE TRAIL CLEAN OF ANY MUD OR DIRT FROM ANY WORK ACTIVITIES AT ALL TIMES. CLEANING/SWEEPING SHALL OCCUR AT THE END OF EACH WORK DAY AND THE COST TO KEEP THE TRAIL CLEAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- D) FOLLOWING COMPLETION OF REHABILITATION OPERATIONS REQUIRING USE OF THE TRAIL, THE CONTRACTOR SHALL REMOVE AND REPLACE THE DAMAGED PORTIONS OF THE TRAIL, INCLUDING TEMPORARY REPAIRS, PER THE DETAIL ON SHEET 4. THE LIMITS OF REPLACEMENT SHALL BE DETERMINED AT THE SOLE DISCRETION OF THE OWNER AND SHALL BE PAID FROM THE TRAIL RESTORATION ALLOWANCE.
- E) TRAIL SIGNAGE SHALL BE ERECTED 30 DAYS PRIOR TO CONSTRUCTION ACTIVITY AND SHALL REMAIN IN PLACE DURING THE ENTIRETY OF CONSTRUCTION.
- F) LIGHT DUTY CONSTRUCTION VEHICLE ACCESS ON TRAILS SHALL UTILIZE EXTREME CAUTION AND SHALL YIELD TO ALL TRAIL USERS AT ALL TIMES. NO PARKING IS PERMITTED ON TRAILS.
- G) FLAGGERS ARE REQUIRED TO BE USED ON THE TRAIL WHEN MOVING EQUIPMENT ALONG THE TRAIL AND AT ALL TRAIL CROSSINGS OF EQUIPMENT.

HEAVY DUTY CONSTRUCTION ROUTE
THE HEAVY DUTY CONSTRUCTION ROUTE SHALL FOLLOW THE PROPOSED BYPASS ACCESS ROUTE, AS SHOWN IN SHEETS 27-44. THE CONTRACTOR MUST ADHERE TO THE FOLLOWING REQUIREMENTS:

- A) THE ACCESS / BYPASS ROUTE IS A 25-FOOT WIDE ROUTE THAT WILL HAVE A 10' WIDE STONE STABILIZED PATH FOR DRIVING AS SHOWN ON SHEET 51. ADDITIONAL DETAILS ARE PROVIDED ON THE SITE ACCESS MAP SHEETS, THE PRIMARY BYPASS ROUTE PLAN SHEETS, AND THE SWP3 PLAN SHEETS.
- B) THE ACCESS ROUTE FOLLOWS EXISTING WHEEL TRACKS AND DRIVABLE TRAILS AS MUCH AS POSSIBLE. TRACKING OF SEDIMENT AND MUD ON TRAILS, PARKING LOTS, AND ROADWAYS IS PROHIBITED. ANY NECESSARY CLEANING/SWEEPING SHALL OCCUR AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES PER ITEM 207 AND SD 2230 WHERE THE PROPOSED ACCESS ROUTE MEETS EXISTING PAVEMENT.
- C) WETLANDS HAVE BEEN DELINEATED THROUGHOUT THE PROJECT AREA AND THE BYPASS ACCESS ROUTE ROUTE AS SHOWN IN THESE PLANS AVOIDS THE WETLANDS AS BEST AS POSSIBLE. WHERE IT IS NECESSARY TO CROSS WETLANDS, IMPACTS SHALL BE MITIGATED AS SHOWN ON THE PLANS.

LEGEND:

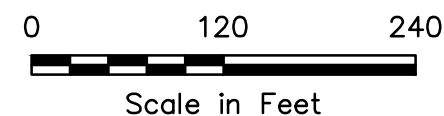
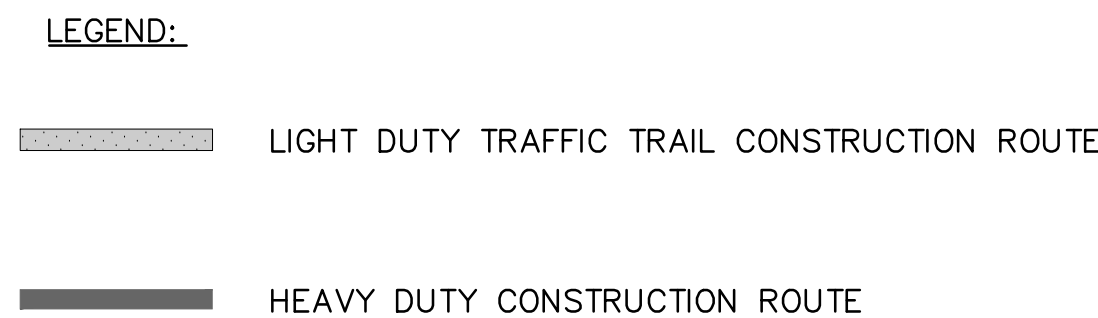
- LIGHT DUTY TRAFFIC TRAIL CONSTRUCTION ROUTE
- HEAVY DUTY CONSTRUCTION ROUTE



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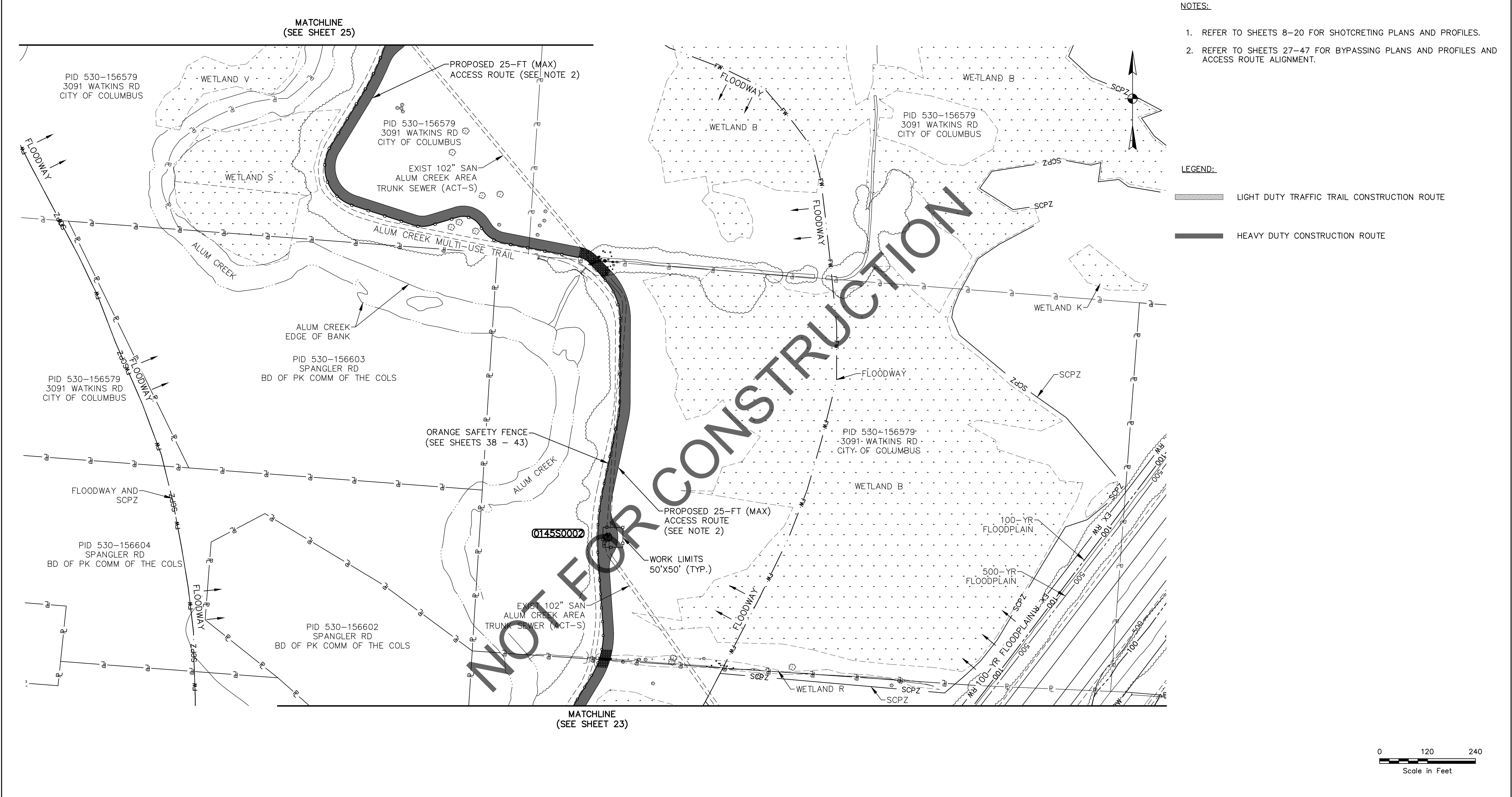
SITE ACCESS PLAN -
OVERALL MAP

PROJECT TITLE:						CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY						
ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004						ISSUED STATUS: BID						
CITY OF COLUMBUS			OWNER									SCALE: 1" = 500'
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			INSPECTOR			CONTRACT DRAWING NO. CC-18773			RECORD PLAN NO.			
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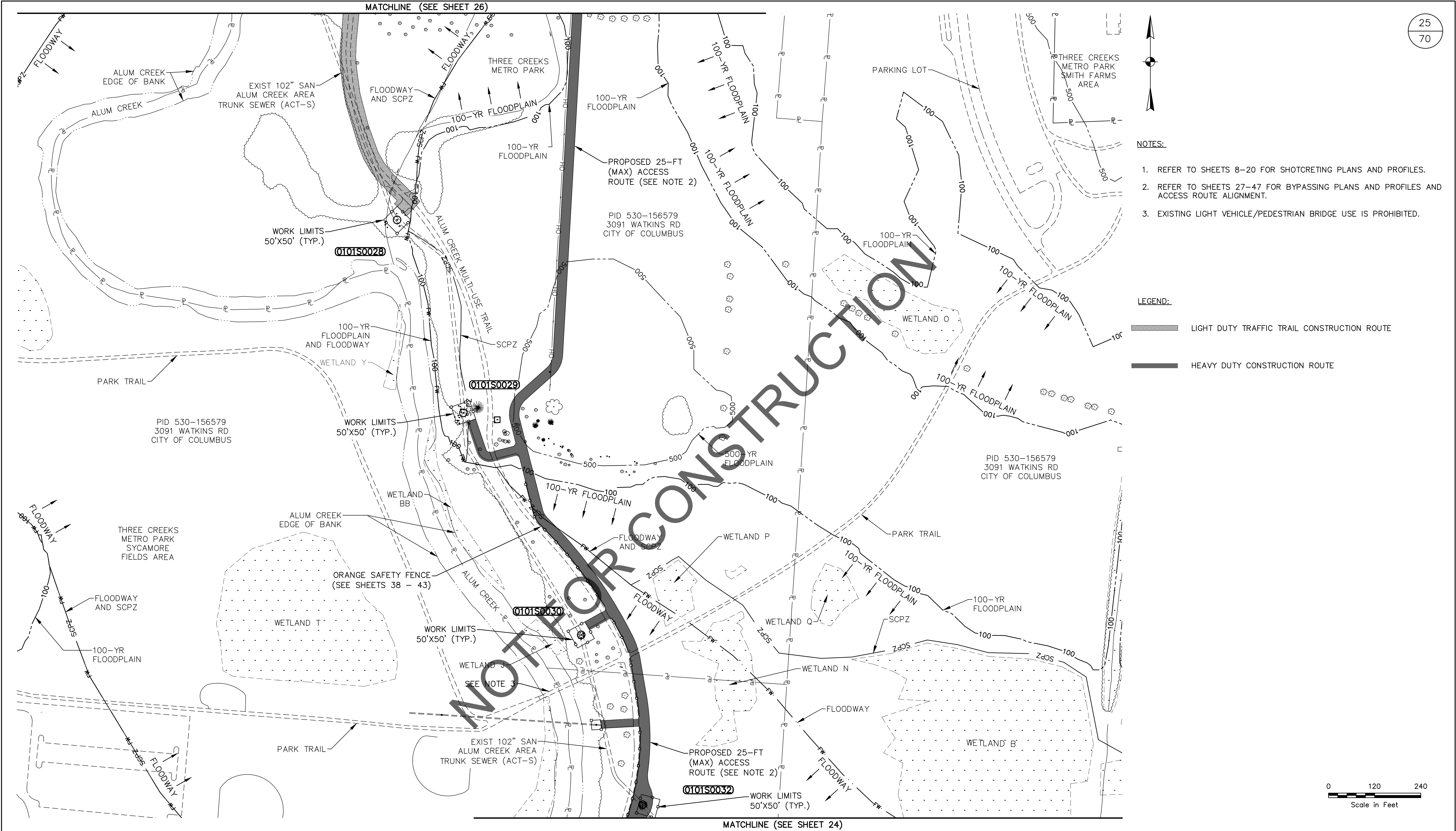
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									INDEX DETAIL		RECORD FILE		CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	

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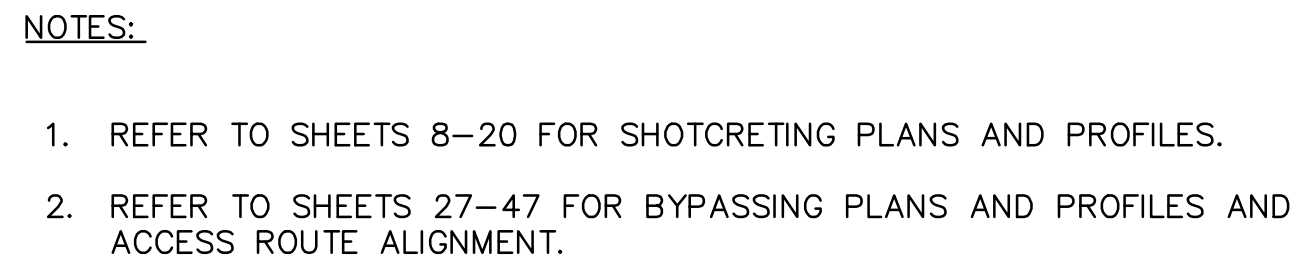


EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
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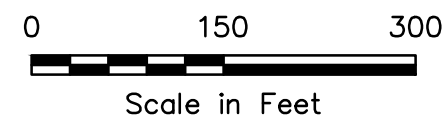
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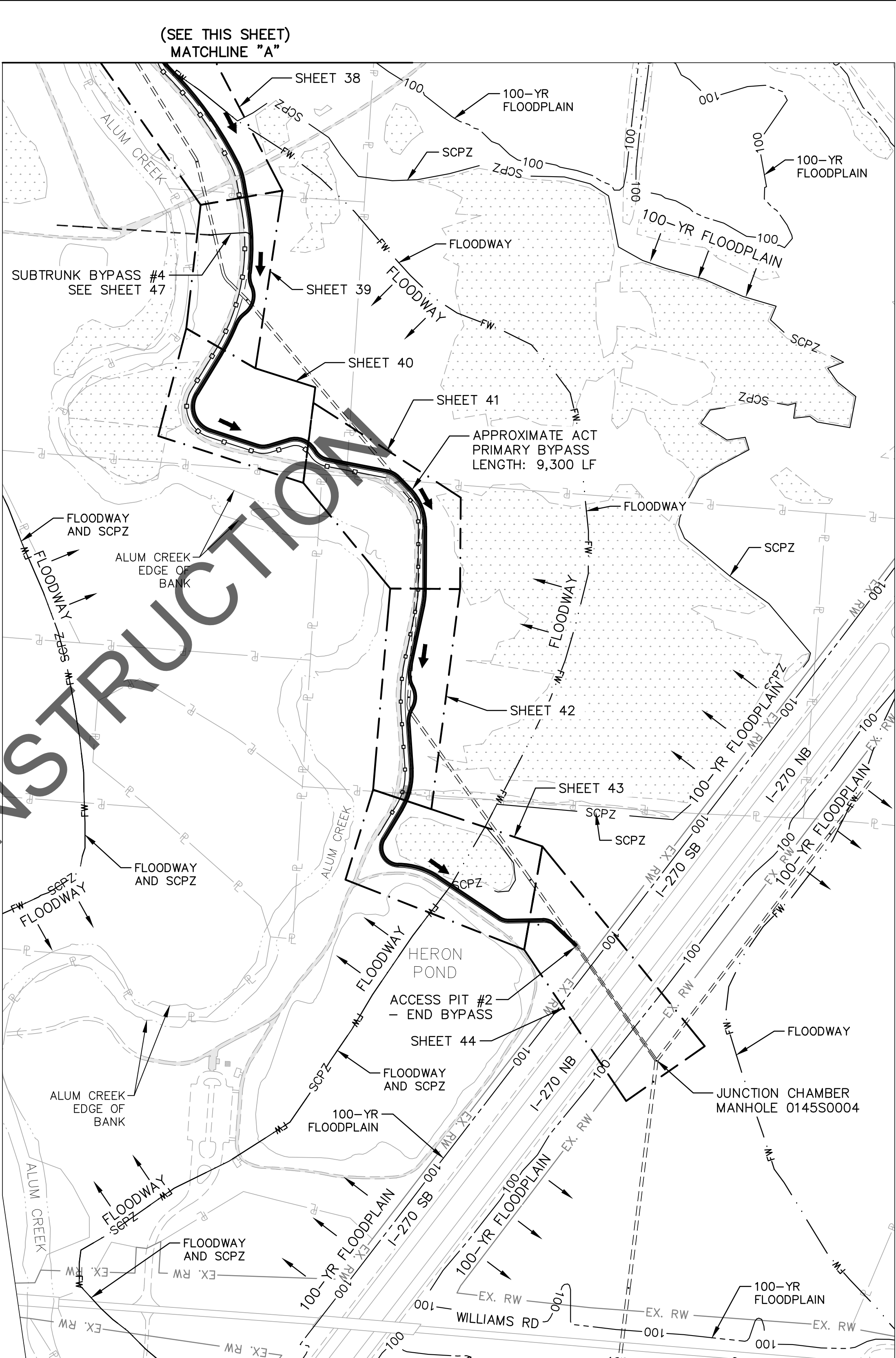
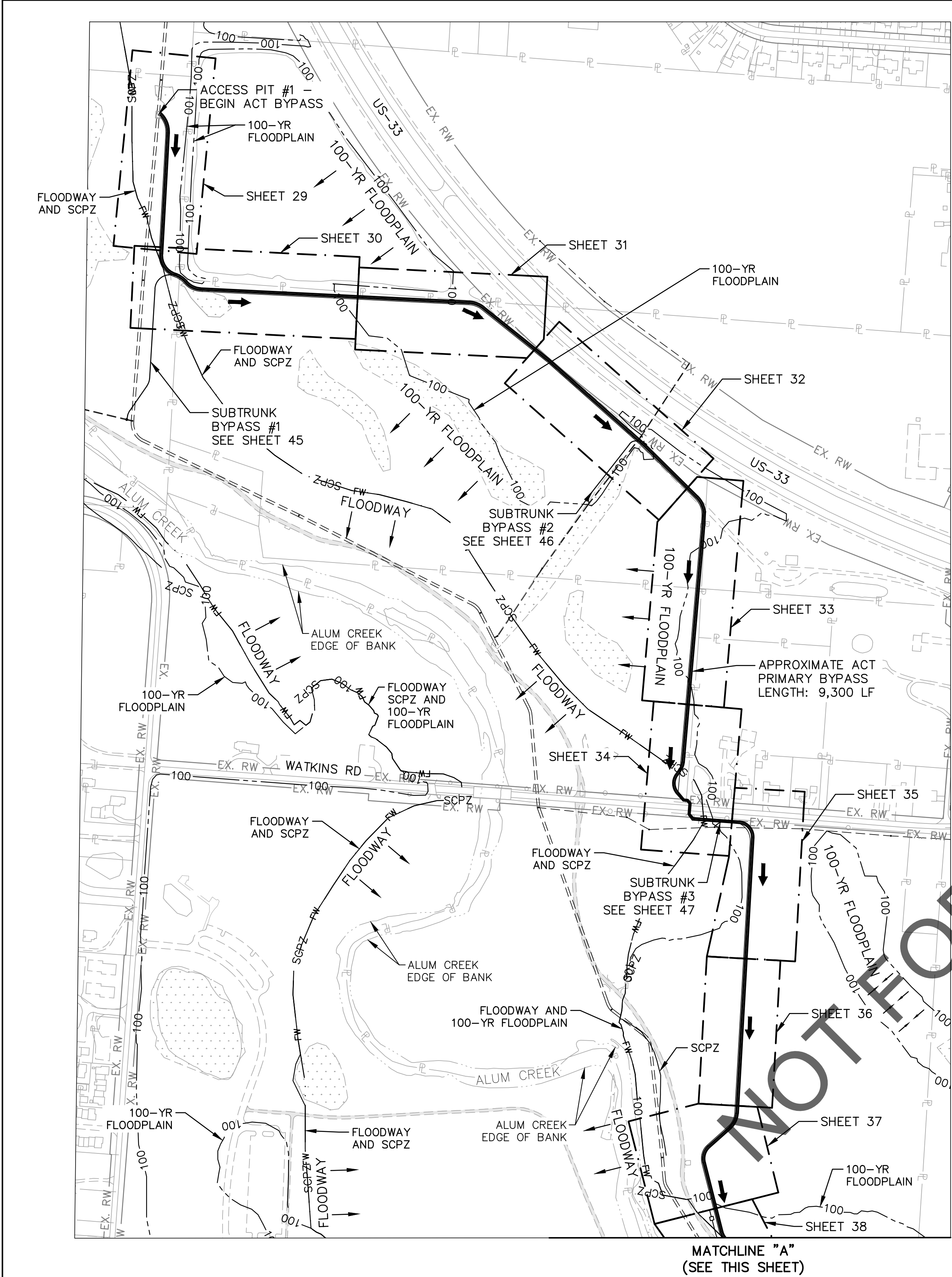
LEGEND:

 LIGHT DUTY TRAFFIC TRAIL CONSTRUCTION ROUTE

 HEAVY DUTY CONSTRUCTION ROUTE

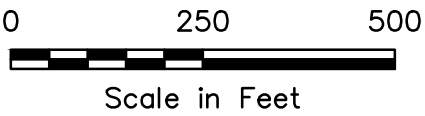


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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE											ALUM CREEK TRUNK SOUTH (ACT-S)		OWNER		ISSUED STATUS: BID			
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							RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.											
							INDEX DETAIL		RECORD FILE															



NOTES:

1. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE DETERMINATION AND SELECTION OF REQUIRED BYPASS MATERIALS AND EQUIPMENT. THESE BYPASS MATERIALS AND EQUIPMENT MAY INCLUDE, BUT ARE NOT LIMITED TO PRIMARY PUMPS, SECONDARY AND BACKUP PUMPS, BOOSTER PUMPS, DISCHARGE HOSES AND PIPES (SIZE AND MATERIAL), PLUGS, BENDS AND FITTINGS, TETHERS AND PIPE SUPPORTS, PRESSURE GAUGES AND SENSORS, AND ELECTRONIC MONITORING AND EMERGENCY RADIO SYSTEMS.
2. THE CONTRACTOR SHALL DESIGN THE SANITARY BYPASS SYSTEM TO MINIMIZE DISRUPTIONS TO THE EXISTING ALUM CREEK MULTI-USE TRAIL. CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING AND STAKING THE PROPOSED BYPASS ROUTE AND ACCESS PATH PRIOR TO ANY CONSTRUCTION ACTIVITIES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR MODIFY THE PROPOSED BYPASS ROUTE AND ACCESS PATH LOCATIONS UNLESS PERMISSION IS GRANTED BY THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF THE BYPASS SYSTEM THROUGHOUT CONSTRUCTION. POWER HAS BEEN SUPPLIED TO POLE DIRECTLY ADJACENT TO ACCESS PIT #1. THE CONTRACTOR SHALL ACCESS THE POWER PER THE LOCATION AND NOTES AS INDICATED ON SHEET 20.
4. THE CONTRACTOR SHALL BURY THE SANITARY BYPASS PIPING AT ANY PROPOSED TRAIL CROSSINGS. TRAIL ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TRAIL TO BE REPAIRED PER DETAIL ON SHEET 4.
5. CONTRACTOR SHALL PROTECT MANHOLES FROM FLOODWATERS DURING WET-WEATHER EVENTS. 100-YR FLOOD ELEVATIONS ARE PROVIDED ON SHEET 4 FOR EACH MANHOLE WORK AREA.
6. SEE DETAILED PLAN AND PROFILES ON SHEETS 29-47 FOR ADDITIONAL BYPASS PLAN REQUIREMENTS.

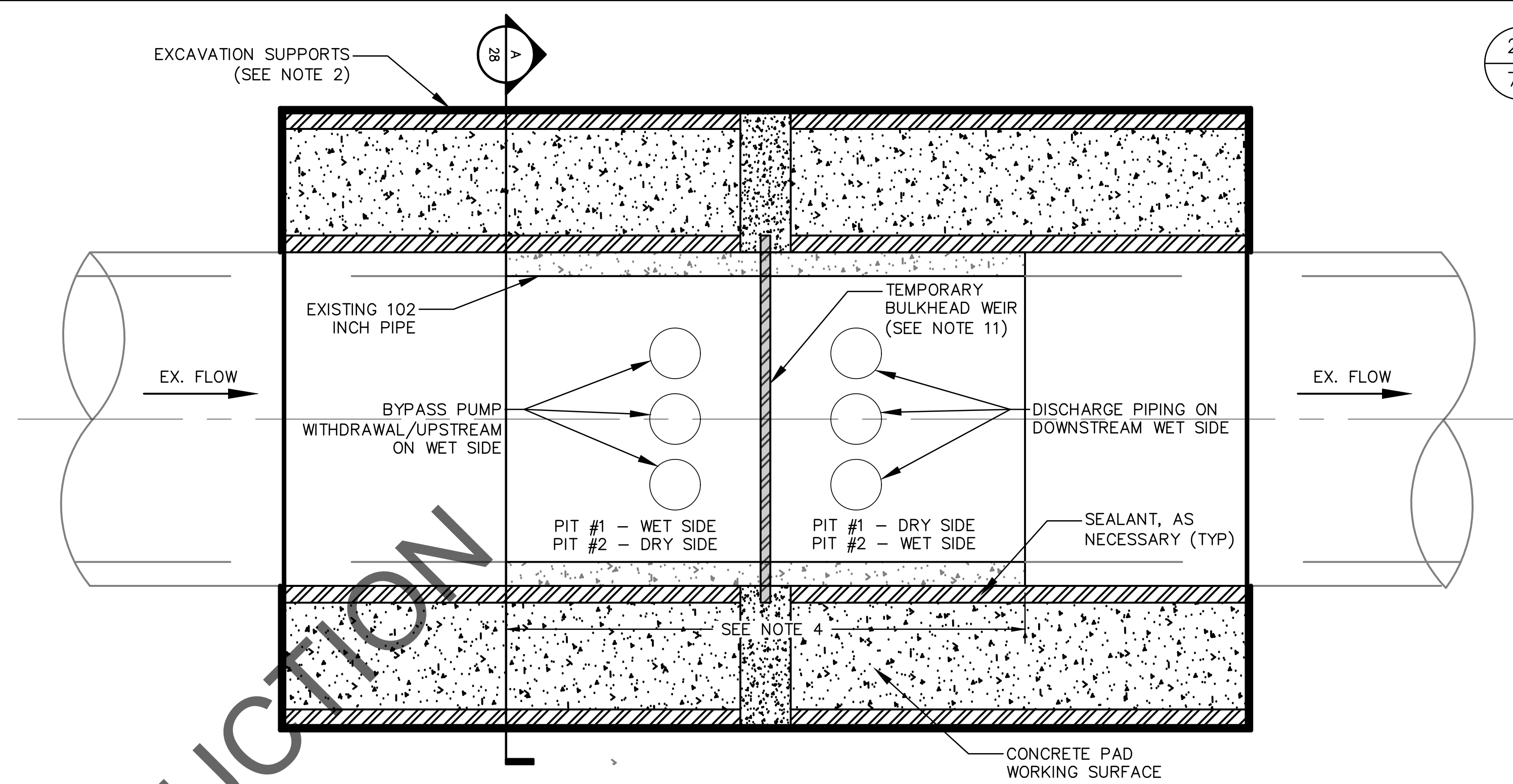
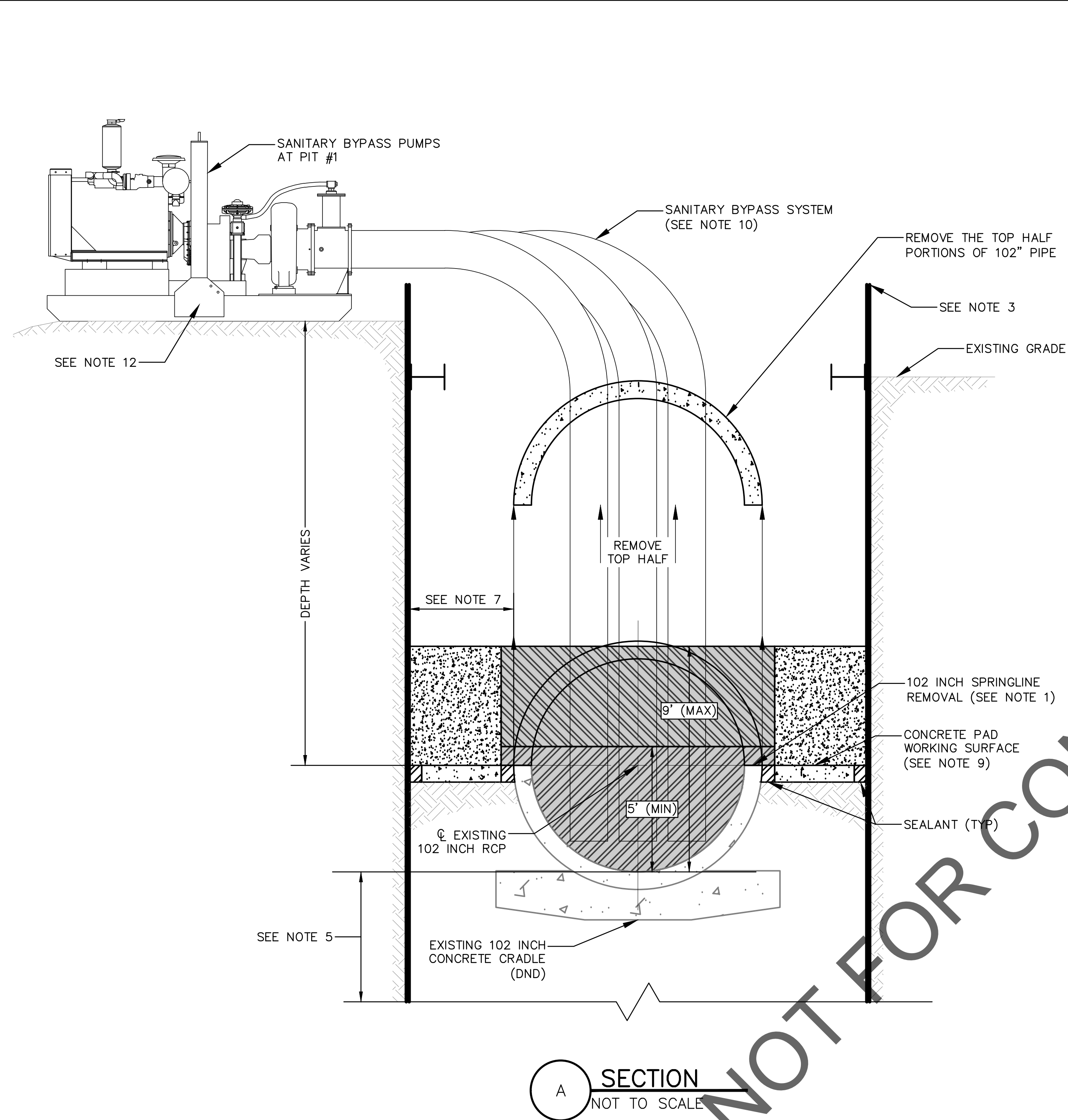


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BYPASS PLAN – OVERALL MAP

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CITY OF COLUMBUS			OWNER		ISSUED STATUS: BID				
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		AGREEMENT	COMPLETED						
		RPD	CKD	CLD	CON. DR.		CONTRACT DRAWING NO. CC–18773		
		INDEX DETAIL		RECORD FILE		RECORD PLAN NO.			

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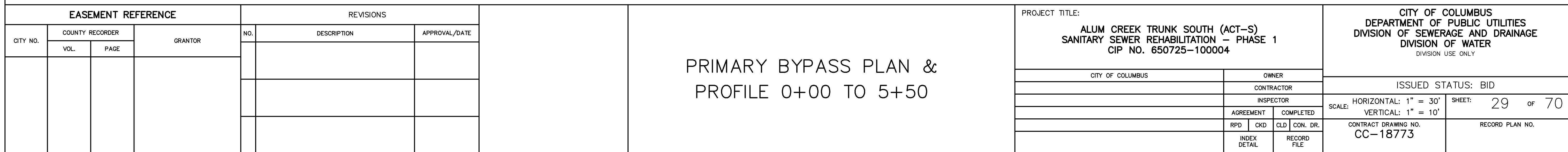
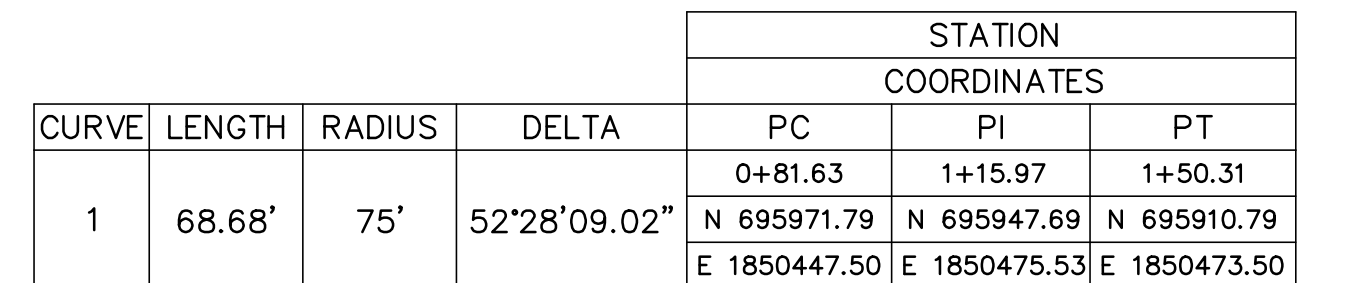
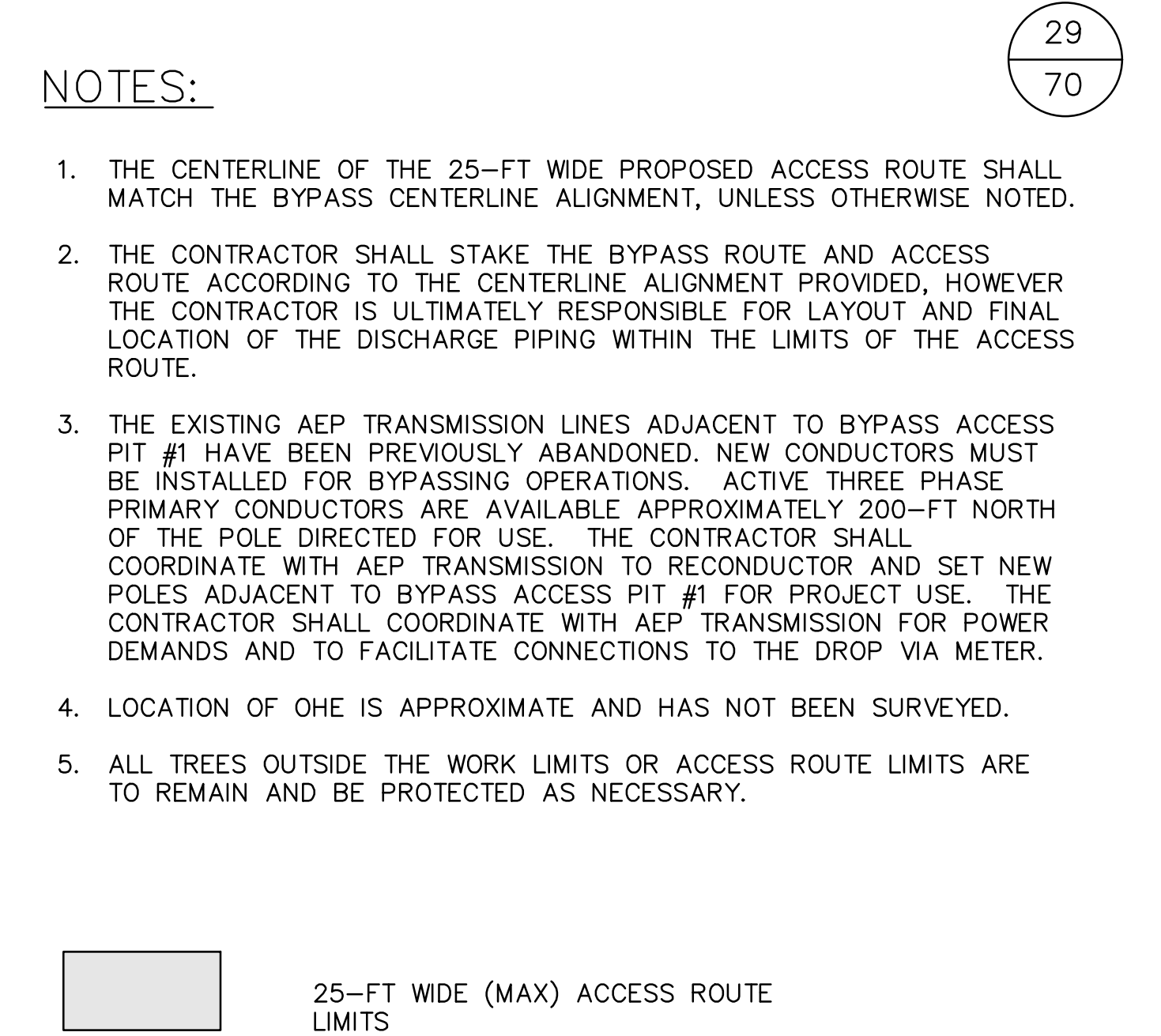


BYPASS PUMP ACCESS PITS NOTES:

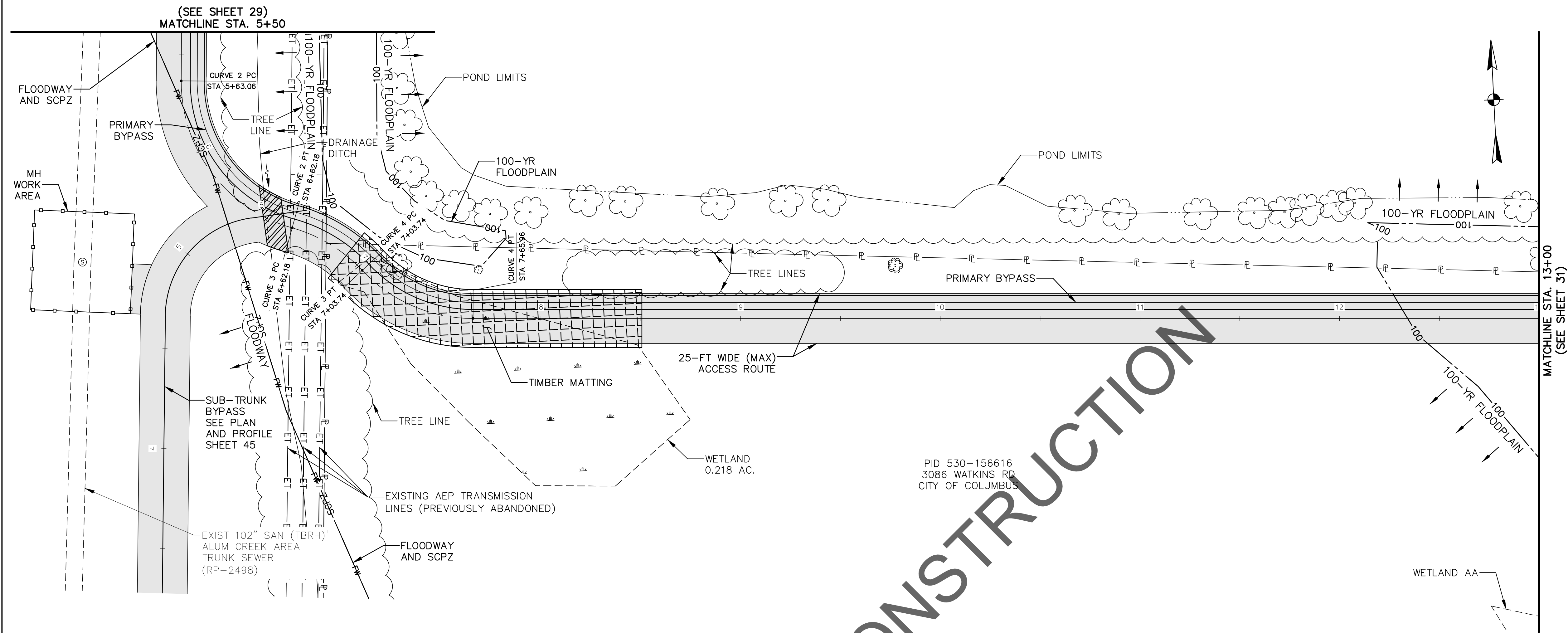
1. SAWCUT NEATLY TO REMOVE HOST PIPE TO SPRINGLINE OR ABOVE IN ACCESS PITS TO PROVIDE ACCESS FOR INSTALLATION OF BYPASS PUMPING COMPONENTS. DIMENSIONS OF OPENING TO BE DETERMINED BY CONTRACTOR.
2. SUPPORT OF EXCAVATION (SOE) TO BE DESIGNED BY THE CONTRACTOR. SOE SHALL BE WATER TIGHT TO PREVENT INFILTRATION AND EXFILTRATION. SOE MATERIALS MAY BE FULLY OR PARTIALLY REMOVED AFTER COMPLETION OF WORK AT THE CONTRACTOR'S DISCRETION. SOE PARTIALLY REMOVED SHALL BE TRIMMED TO 3 FEET BELOW FINISH GRADE, UNLESS OTHERWISE PERMITTED BY THE OWNER.
3. EXTEND WATERTIGHT SOE SYSTEM TO OR ABOVE THE 100-YEAR FLOODPLAIN ELEVATION OF 733.60 AT PIT #1 AND 728.70 AT PIT #2 TO CONTAIN SEWER FLOWS WITHIN ACCESS PIT AND TO PREVENT SURFACE AND FLOOD WATERS FROM ENTERING ACCESS PIT. SUBMIT SOE PLAN IN ACCORDANCE WITH APPLICABLE CITY OF COLUMBUS CMS REQUIREMENTS. SOE SYSTEM MAY NEED TO BE USED TO PROTECT PUMPS FROM 100-YR FLOOD ELEVATION AS REQUIRED. BENCHING OR EXCAVATION MAY BE REQUIRED TO REDUCE THE SUCTION LIFT REQUIRED BY THE PUMPING SYSTEM.
4. LIMITS AND EXTENTS OF EXISTING SEWER REMOVAL VARY PER LOCATION. DIMENSIONS AS REQUIRED BY CONTRACTOR'S MEANS AND METHODS.
5. SOE SYSTEM EMBEDMENT DEPTH SHALL BE AS REQUIRED PER CONTRACTOR'S DESIGN.
6. PROVIDE SUMP PITS TO MAINTAIN GROUNDWATER WITHIN EXCAVATIONS A MINIMUM OF 3 FEET BELOW PIPE INVERT. SUMPS SHALL BE PROVIDED FROM THE START OF EXCAVATION UNTIL AFTER THE CONCRETE PAD & SEALANT ARE IN PLACE AND EXCAVATION IS WATERTIGHT. THE CONTRACTOR SHALL ASSUME THE GROUNDWATER TABLE TO BE AT THE GROUND SURFACE.
7. PROVIDE CONCRETE PAD TO SEAL OFF EXPOSED EARTH SURFACE WITHIN TRENCH AREA. THICKNESS AND REINFORCEMENT AS NECESSARY TO SUPPORT THE WORK.
8. ADJUST SOE DEPTH, AS NECESSARY, WHERE CROSSING THE EXISTING PIPE TO PREVENT PIPE DAMAGE AND TO MAINTAIN EXCAVATION SUPPORT.
9. BEDDING AND BACKFILL SHALL CONFORM TO CITY OF COLUMBUS CMS ITEM 901 - PIPE SEWERS COMPLETE IN PLACE.
10. CONTRACTOR TO SUBMIT SANITARY BYPASS PLAN TO THE OWNER PRIOR TO INSTALLATION OF ACCESS BYPASS PUMP PITS.
11. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BULKHEAD WEIR AND SUPPORTS, TO ALLOW FOR SEWAGE FLOWS EXCEEDING THE BYPASS PUMPING CAPACITY TO OVERFLOW THE WEIR AND FLOW THRU THE PIPE BEING REHABILITATED. THE MINIMUM HEIGHT OF THE TEMPORARY BULKHEAD WEIR (FROM PIPE INVERT) SHALL BE 5 FEET AND A MAXIMUM HEIGHT OF 9 FEET, TO BE SELECTED BY THE CONTRACTOR BASED ON BYPASS PUMP SELECTION AND SUCTION HEAD.
12. EXISTING 100-YEAR FLOOD ELEVATION IS 733.60 AT BYPASS PIT #1 SITE. THE EXISTING 102" SEWER WILL EXPERIENCE SURCHARGES THAT REACH ELEVATION 733.84 WITHIN BYPASS PIT #1. CONTRACTOR IS RESPONSIBLE FOR ELEVATING AND/OR PROTECTING THE BYPASS PUMPING SYSTEM FROM BOTH THE 100-YEAR FLOODWATERS AND SEWER SURCHARGING.
13. CONTRACTOR SHALL SUBMIT A PIPING RECONSTRUCTION PLAN FOR REVIEW AND APPROVAL. CONTRACTOR MAY USE EXISTING TOP HALF PORTIONS OF THE 102" PIPE IF APPROVED BY THE CMT. SAID PIPE MUST BE STRUCTURALLY INTACT FOR SUCH USE. FOR ACCESS PIT #2, THE RE-USED PIPE MUST ALSO BE SHOTCRETE LINED TO MATCH THE REST OF THE REHABILITATED PIPE. ALTERNATIVELY, THE CONTRACTOR MAY USE NEW 102" RCP CUT IN HALF TO RECONSTRUCT THE 102" PIPING AT THE ACCESS PIT LOCATIONS. SUBMITTAL SHALL INCLUDE CONNECTION DETAILS WITH DOWELING, WATERTIGHT SEALS, JOINT ENCASEMENT TO 1 FOOT ABOVE THE EXTERIOR OF THE CROWN OF THE PIPE, AND BACKFILL TO THE SURFACE AT A MINIMUM.

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER	
	VOL.	PAGE						CONTRACTOR			
								INSPECTOR			
							AGREEMENT		COMPLETED		
							RPD	CKD	CLD	CON. DR.	
							INDEX DETAIL		RECORD FILE		
							ISSUED STATUS: BID				
							SCALE:		SHEET: 28 of 70		
							CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.		

BYPASS ACCESS PIT
DETAILS



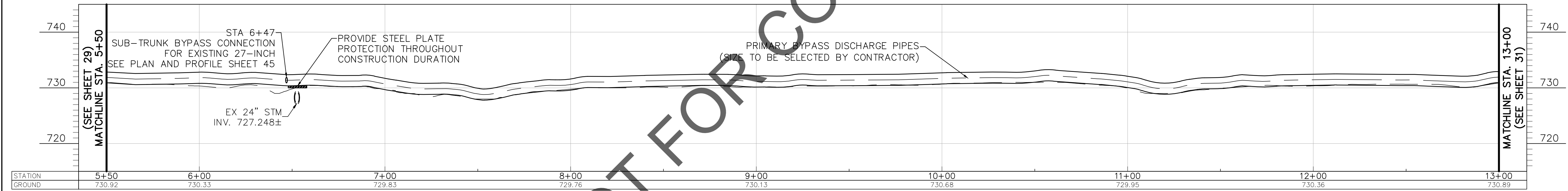
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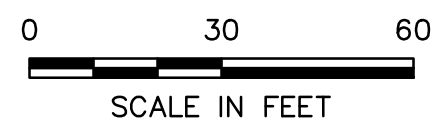
NOTES:

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. LOCATION OF OHE IS APPROXIMATE AND HAS NOT BEEN SURVEYED.
4. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.

- 25-FT WIDE (MAX) ACCESS ROUTE LIMITS
- STEEL PLATE PROTECTION
- WETLAND CROSSING TIMBER MATTING



CURVE	LENGTH	RADIUS	DELTA	STATION COORDINATES		
				PC	PI	PT
2	99.12'	76'	74°43'46.00"	5+63.06	6+12.62	6+62.18
				N 695498.67	N 695440.72	N 695422.39
				E 1850450.81	E 1850447.63	E 1850502.68
3	41.55'	76'	31°19'50.64"	6+62.18	6+82.96	7+03.74
				N 695422.39	N 695415.65	N 695399.38
				E 1850502.68	E 1850522.90	E 1850536.67
4	62.23'	76'	46°54'39.69"	7+03.74	7+34.85	7+65.96
				N 695399.38	N 695374.21	N 695372.58
				E 1850536.67	E 1850557.98	E 1850590.92

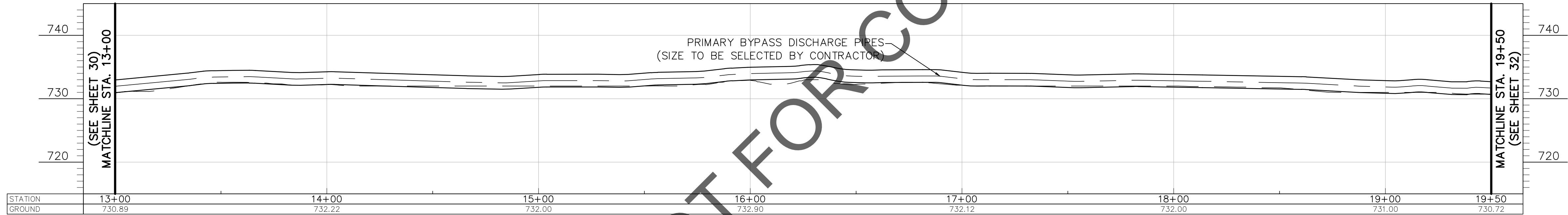
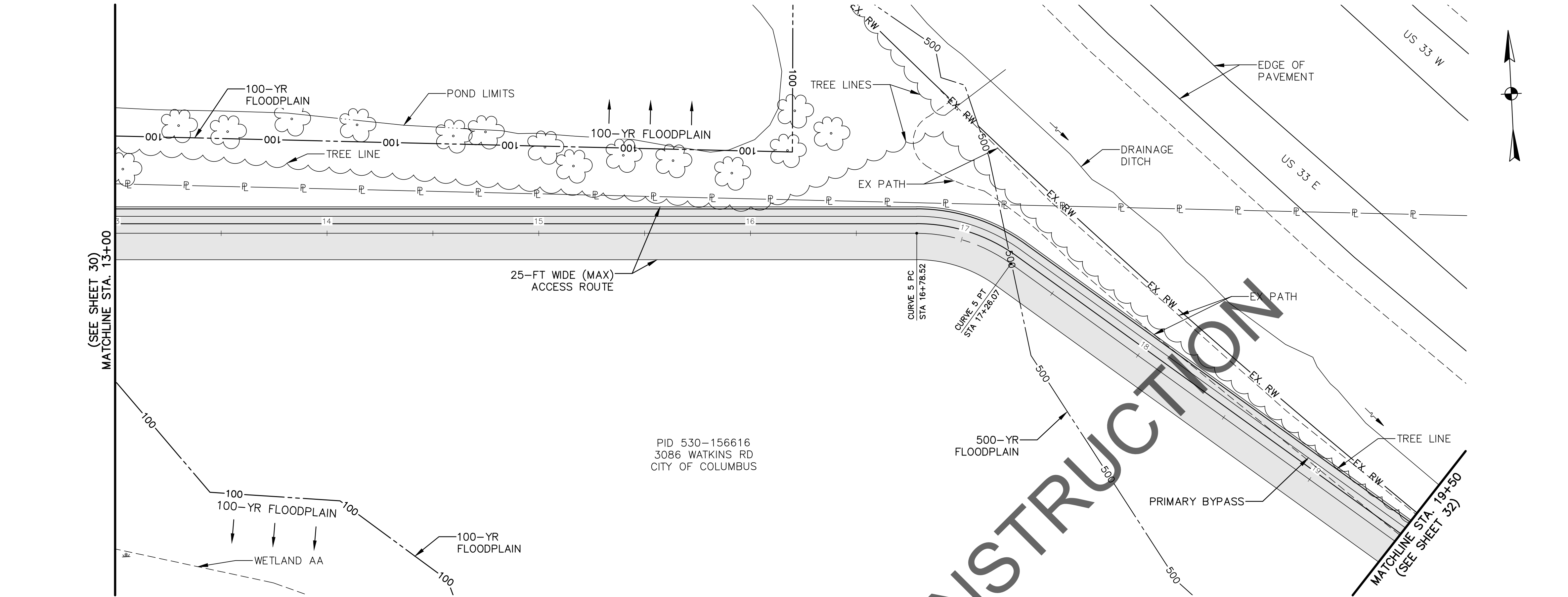


EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 5+50 TO 13+00	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			ISSUED STATUS: BID			
	VOL.	PAGE							SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 30 OF 70		
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									INDEX DETAIL		RECORD FILE	

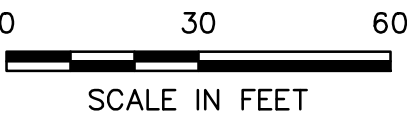
NOTES:

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3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.

25-FT WIDE (MAX) ACCESS ROUTE LIMITS

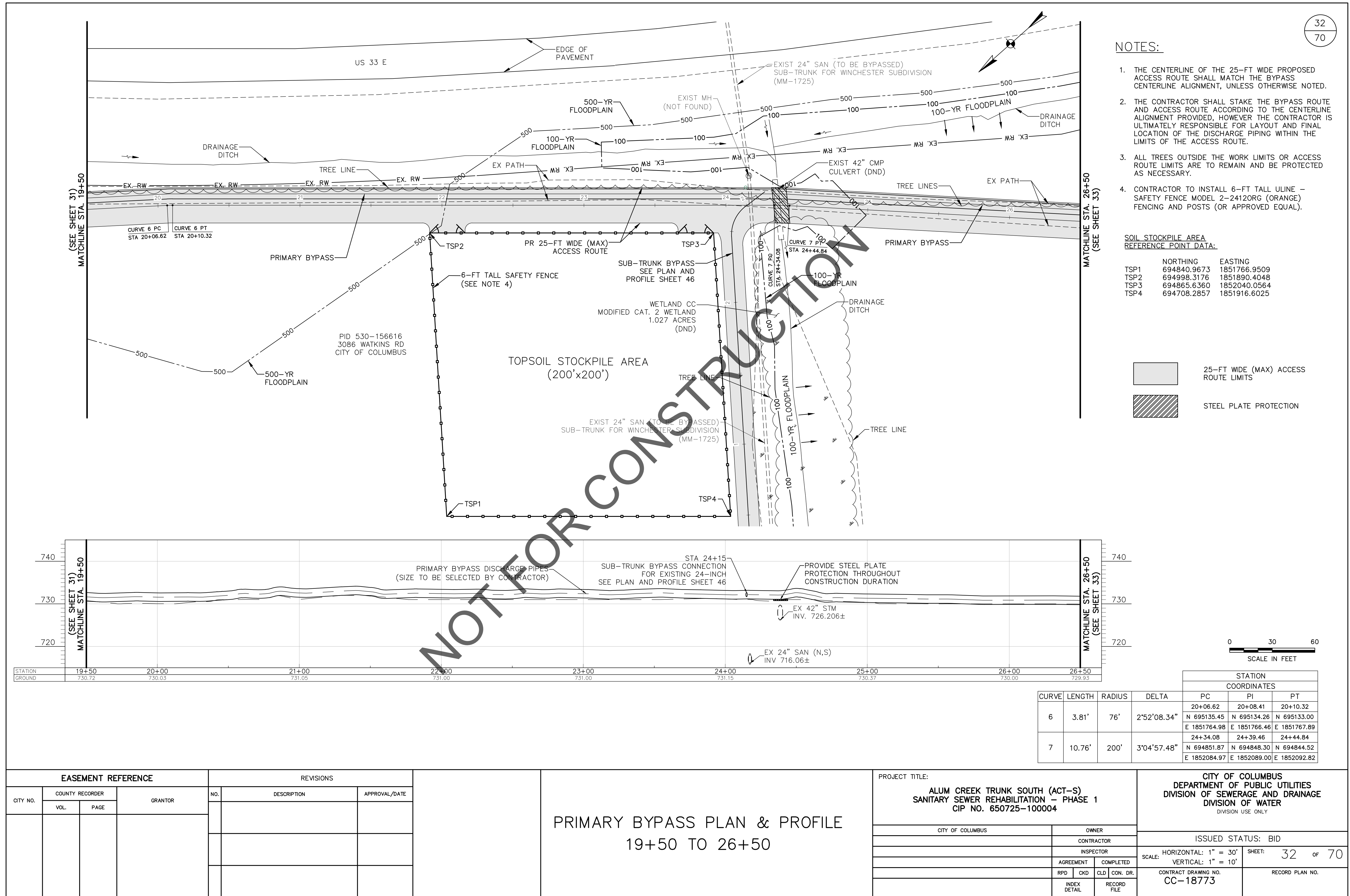


				STATION COORDINATES		
CURVE	LENGTH	RADIUS	DELTA	PC	PI	PT
				16+78.52	17+02.30	17+26.07
5	47.55'	76'	35°51'00.17"	N 695327.35	N 695326.13	N 695310.76
				E 1851502.35	E 1851526.90	E 1851546.09

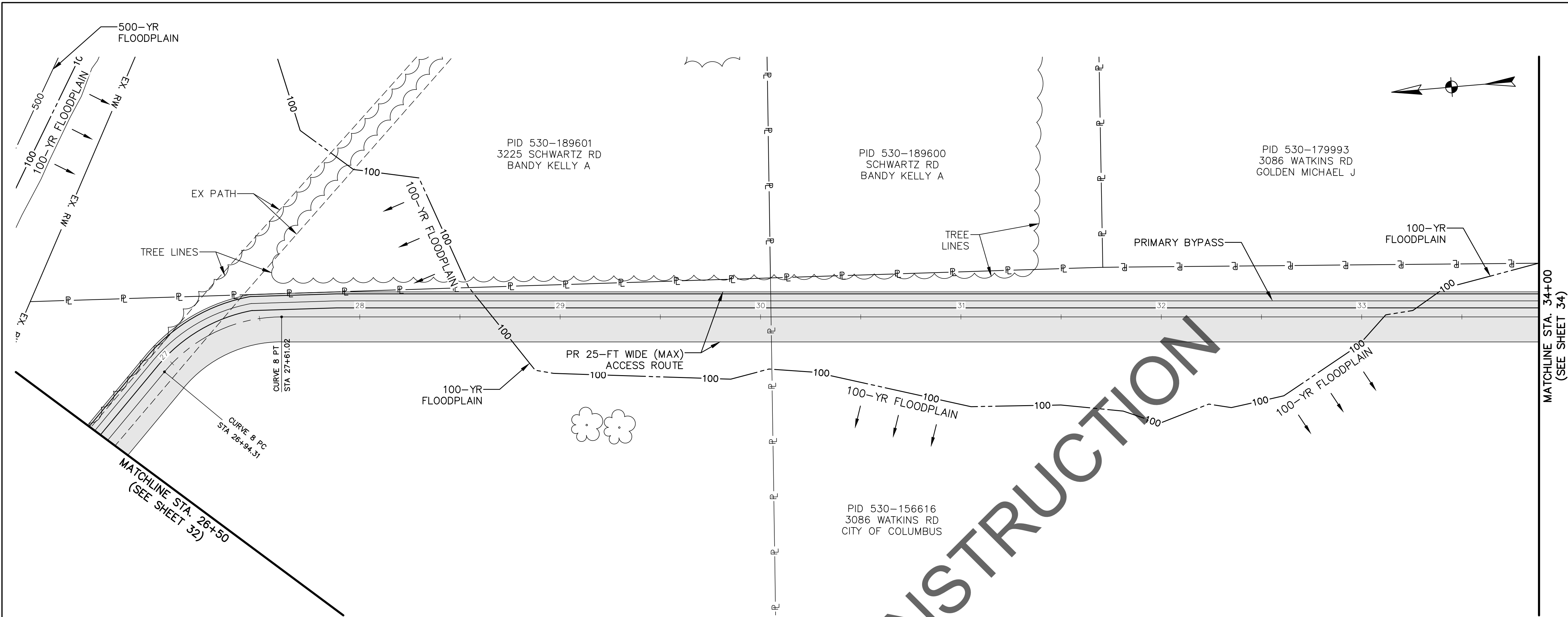


EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 31 OF 70		
								CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	
							CITY OF COLUMBUS		OWNER		
									CONTRACTOR		
									INSPECTOR		
									AGREEMENT	COMPLETED	
							RPD	CKD	CLD	CON. DR.	
									INDEX DETAIL	RECORD FILE	

PRIMARY BYPASS PLAN & PROFILE
13+00 TO 19+50



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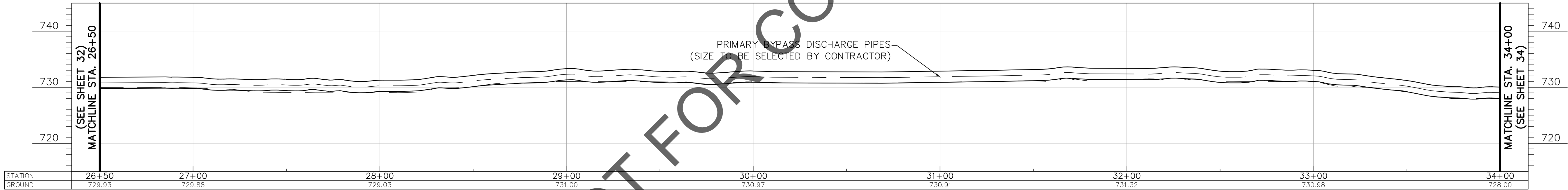
NOTES:

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3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.

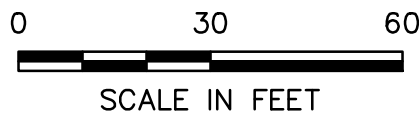


25-FT WIDE (MAX) ACCESS ROUTE LIMITS

33
70

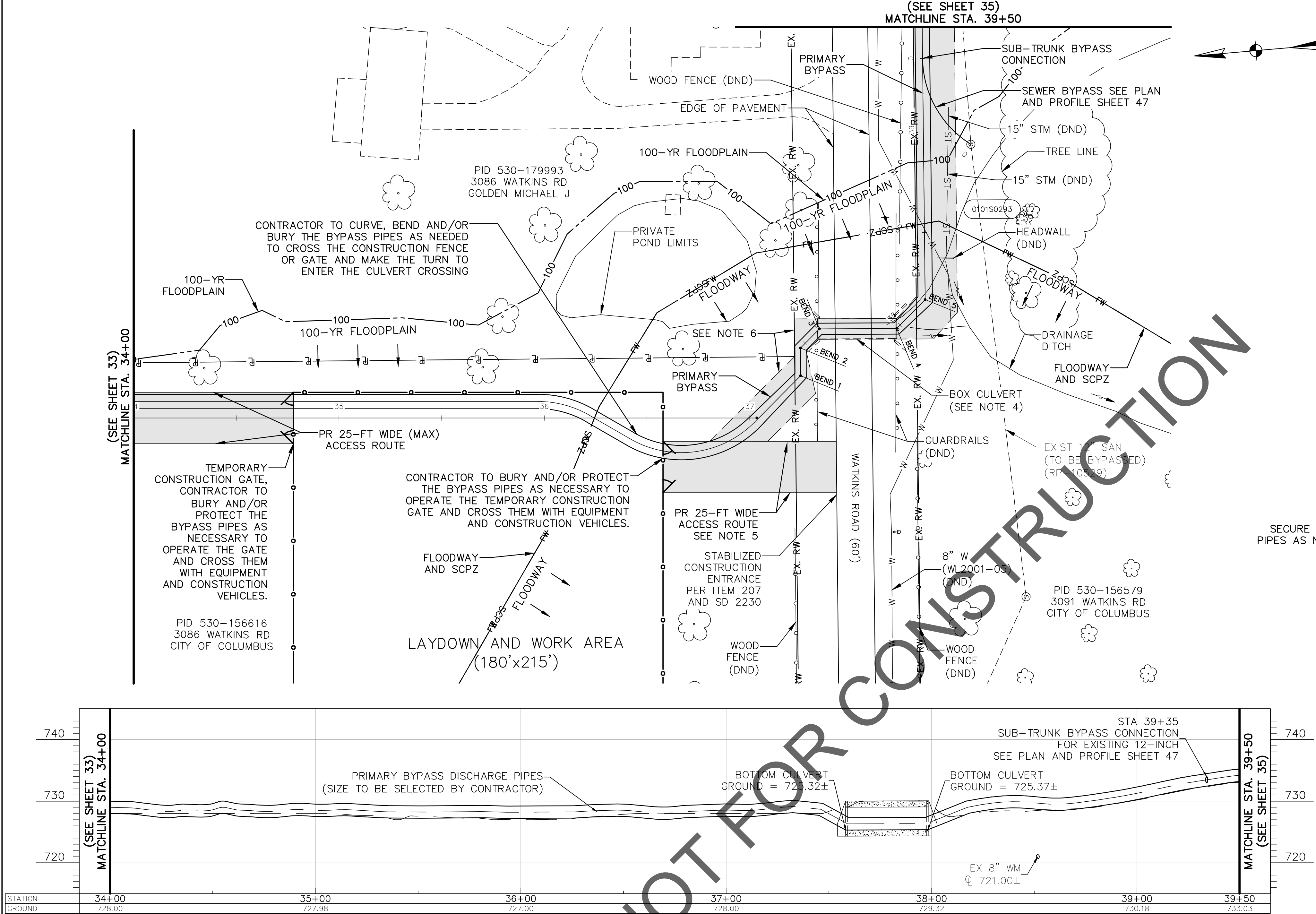


				STATION COORDINATES		
CURVE	LENGTH	RADIUS	DELTA	PC	PI	PT
8	66.70'	76'	50°17'07.10"	26+94.31	27+27.66	27+61.02
				N 694669.22	N 694644.15	N 694608.61
				E 1852270.33	E 1852295.71	E 1852292.64



EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 26+50 TO 34+00	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID			
	VOL.	PAGE						CONTRACTOR				SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'			
								INSPECTOR				SHEET: 33 OF 70			
								AGREEMENT		COMPLETED					
							RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.		
							INDEX DETAIL		RECORD FILE						

PRIMARY BYPASS PLAN & PROFILE
26+50 TO 34+00

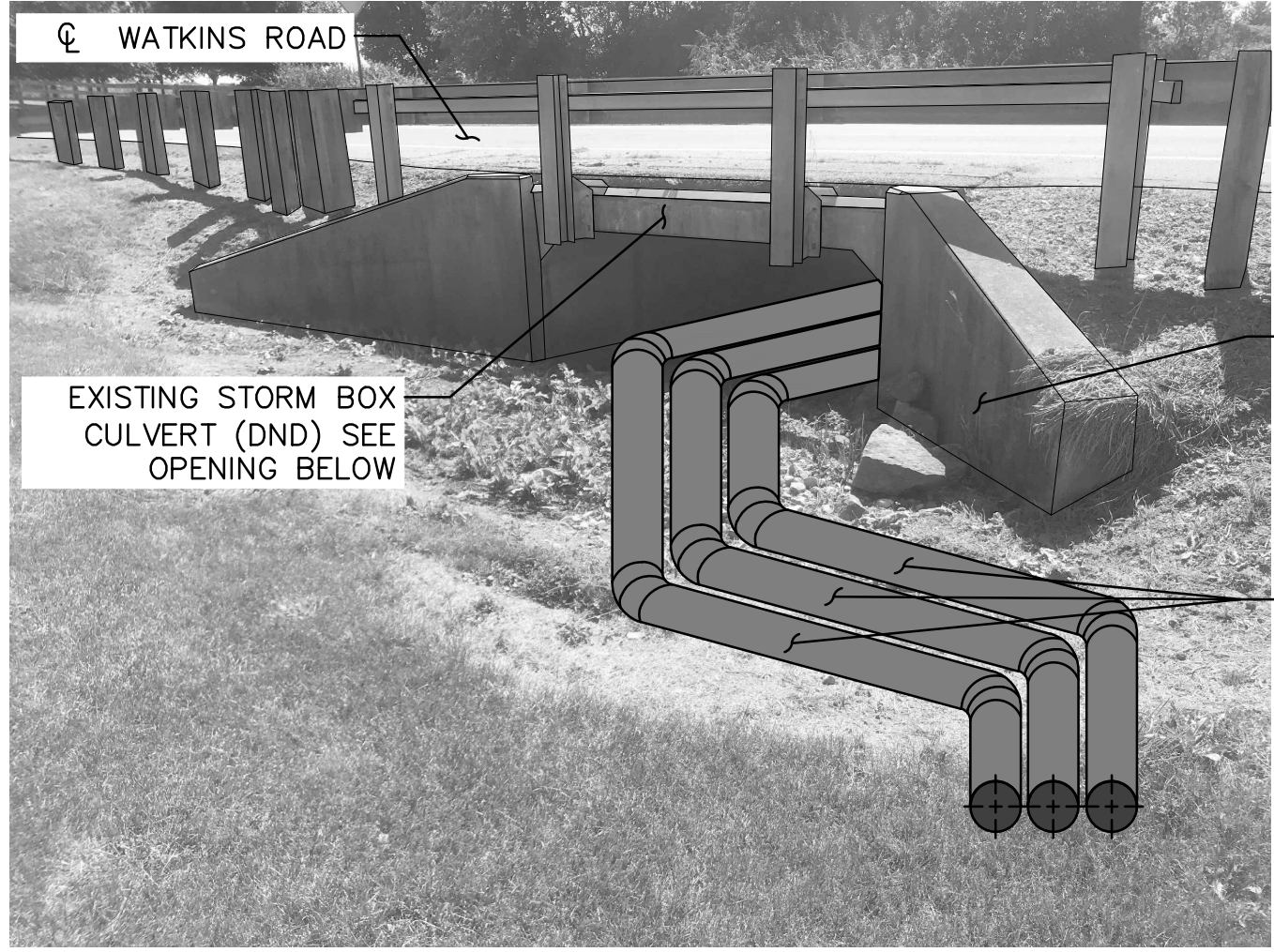
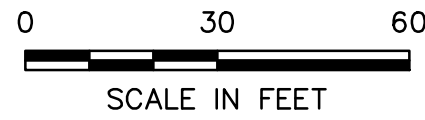


NOTES:

1. THE CENTERLINE OF THE 25'-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
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3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. CONTRACTOR SHALL USE THE EXISTING STORM CULVERT CROSSING ON WATKINS ROAD FOR THE BYPASS DISCHARGE PIPING. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE DISCHARGE PIPES THROUGHOUT THE DURATION OF THE PROJECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ANCHOR THE DISCHARGE PIPING TO THE EXISTING CULVERT WALLS AND TOP SLAB. CONTRACTOR SHOULD INCLUDE ALL COSTS NECESSARY TO PERFORM THE WORK UNDER ITEM SS-3 - BYPASS PUMPING / FLOW CONTROL.
5. CONTRACTOR SHALL USE THE EXISTING FIELD ENTRANCE BETWEEN THE GUARDRAIL AND FENCE FOR ACCESS TO THE PROPOSED 25'-FT WIDE PATH NORTH OF WATKINS ROAD.
6. BYPASS PIPE WORK LIMITS AT AND NEAR THE CROSSING OF WATKINS RD (WIDTH VARIES). CONTRACTOR SHALL KEEP BYPASS PIPES WITHIN THESE WORK LIMITS. CONTRACTOR SHALL NOT HAVE ANY PIPING OR EQUIPMENT ON PRIVATE PROPERTY AT ANY TIME. PIPING MAY NEED TO BE STACKED IN ORDER TO REMAIN WITHIN THE WATKINS RD RIGHT-OF-WAY.

■ BYPASS PIPE WORK LIMITS AT AND NEAR THE CROSSING OF WATKINS RD

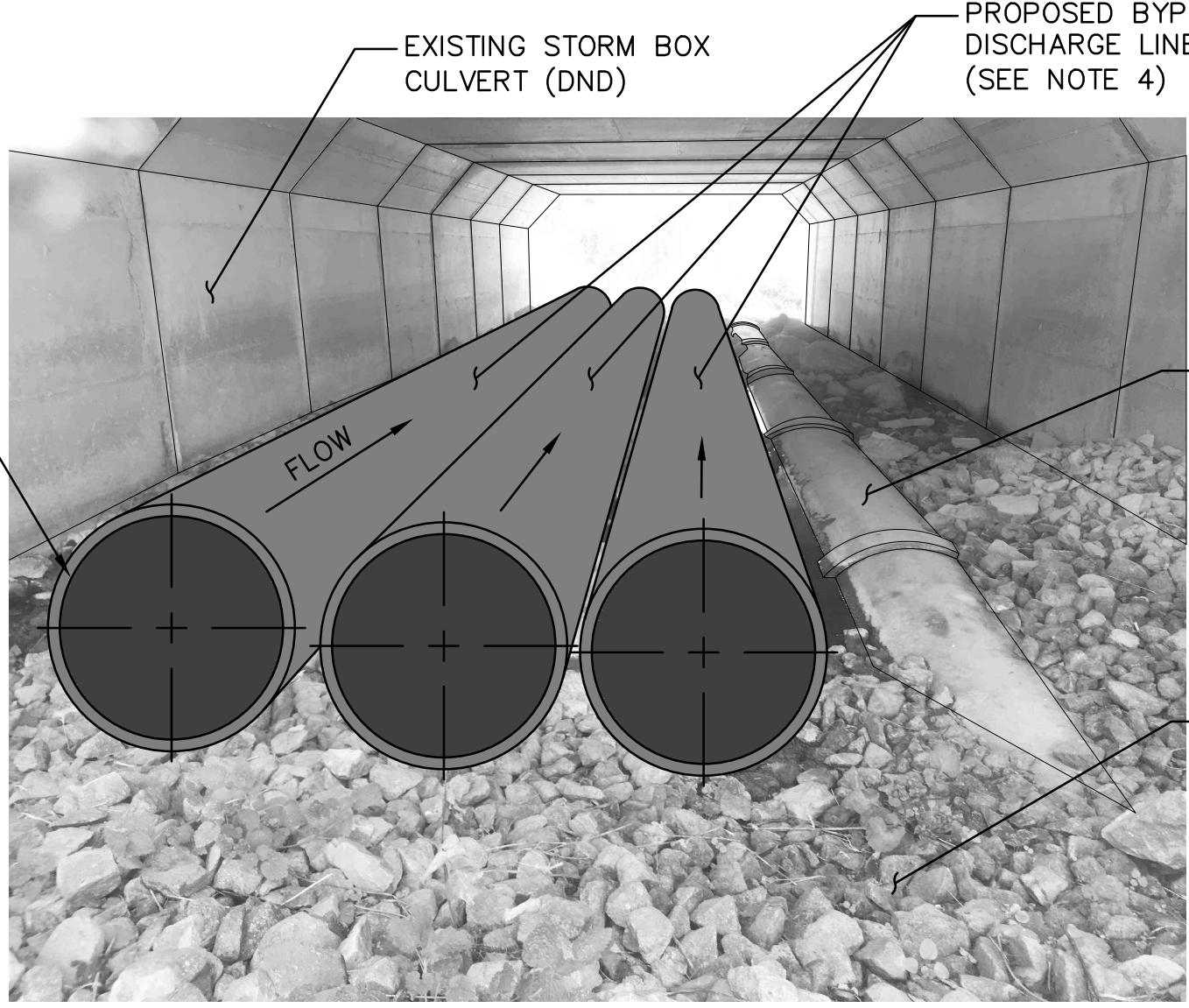
■ 25'-FT WIDE (MAX) ACCESS ROUTE LIMITS



EXISTING STORM BOX CULVERT (DND) SEE OPENING BELOW

EXISTING WINGWALL (DND)

PROPOSED BYPASS DISCHARGE LINES (SEE NOTE 4)

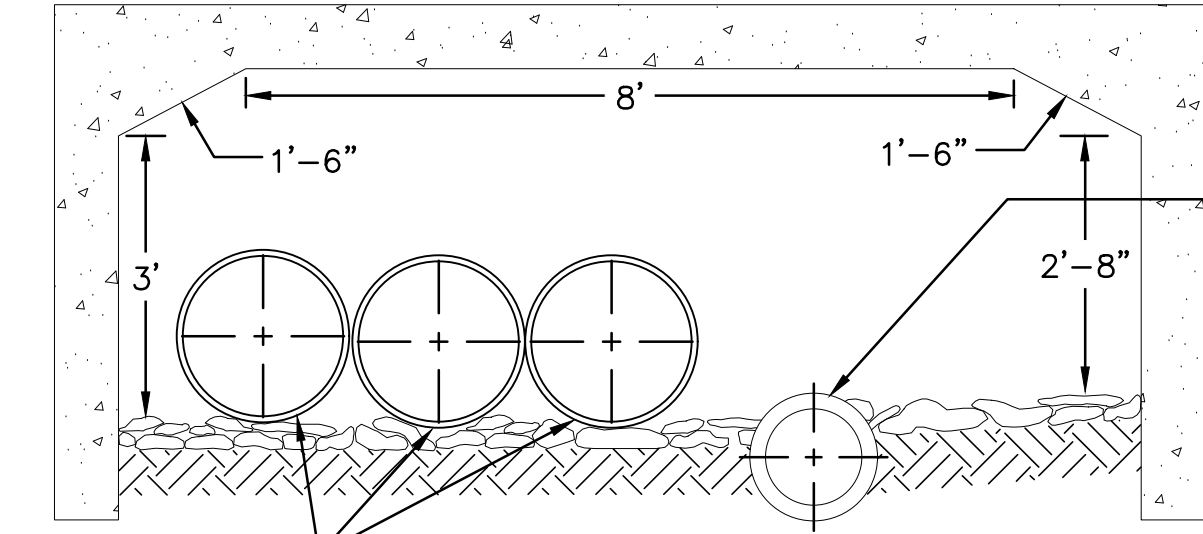


EXISTING STORM BOX CULVERT (DND)

PROPOSED BYPASS DISCHARGE LINES (SEE NOTE 4)

EXISTING RCP STORM PIPE (DND)

EXISTING RIP RAP (REMOVE AND REPLACE AS NECESSARY)



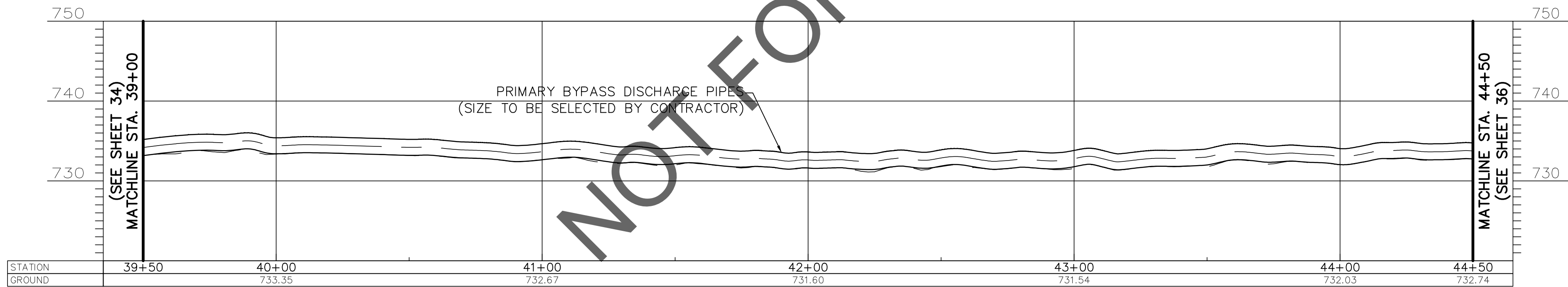
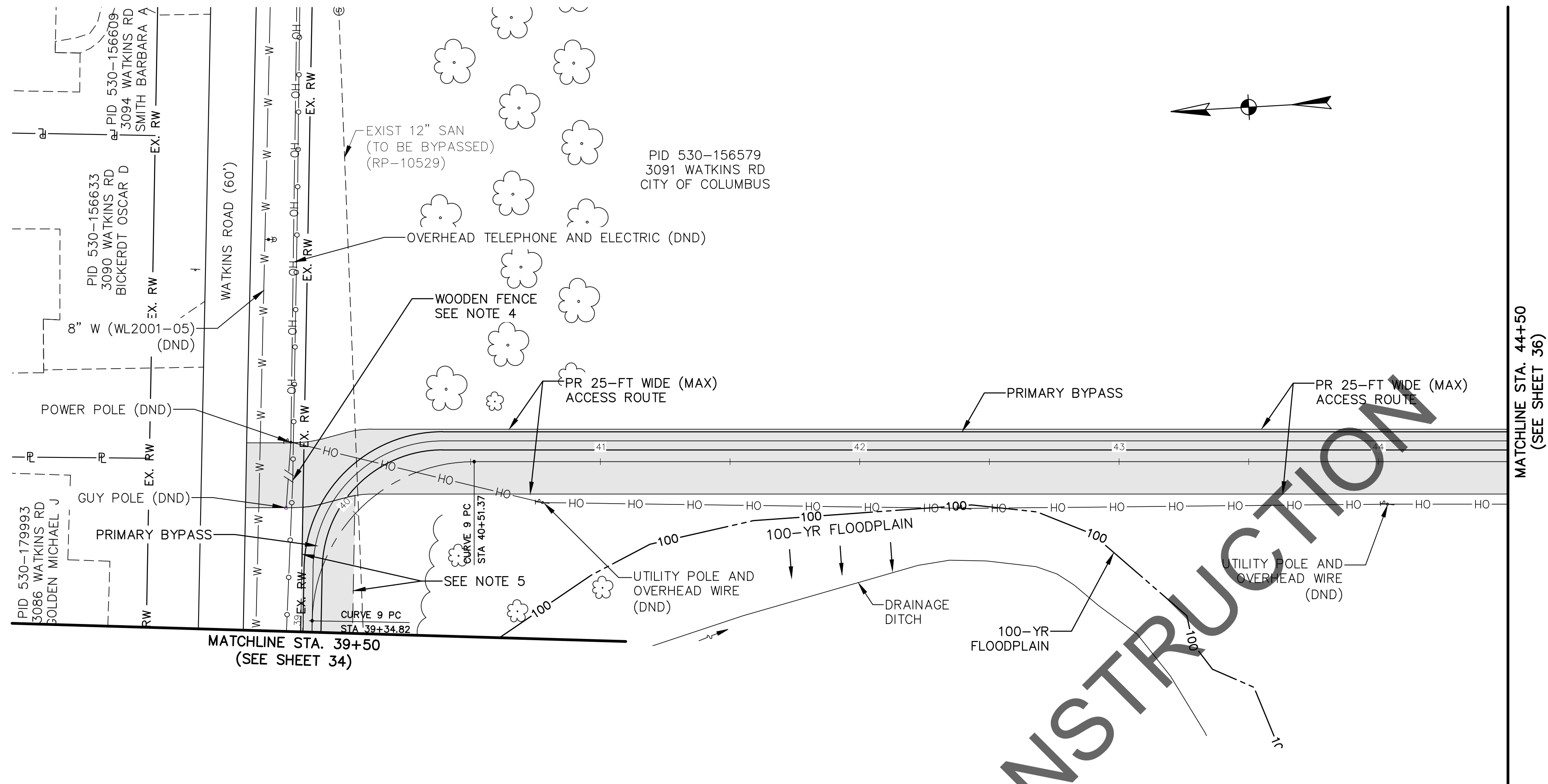
EXISTING 18" RCP STORM PIPE (DND)

PROPOSED BYPASS PIPES					COORDINATES	
BEND	NOMINAL	DIRECTION	DEFLECTION	STATION	NORTHING	EASTING
1	45"	LEFT	45°00'00.00"	37+33.39	693646.63	1852230.38
2	45"	RIGHT	45°00'00.00"	37+46.87	693645.53	1852243.82
3	45"	RIGHT	45°00'00.33"	37+59.98	693635.54	1852252.30
4	45"	LEFT	44°59'20.93"	37+97.55	693598.09	1852249.25
5	45"	LEFT	45°22'31.10"	38+17.35	693583.00	1852262.06

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER		NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE			



PRIMARY BYPASS PLAN & PROFILE
34+00 TO 39+00

PROJECT TITLE:		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY	
ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION - PHASE 1 CIP NO. 650725-100004		ISSUED STATUS: BID	
CITY OF COLUMBUS		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	
		COMPLETED	
		RCD	
		CKD	
		CLD	
		CON. DR.	
		INDEX	
		DETAIL	
		RECORD	
		FILE	
		CONTRACT DRAWING NO. CC-18773	
		RECORD PLAN NO.	
		SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	
		SHEET: 34 of 70	

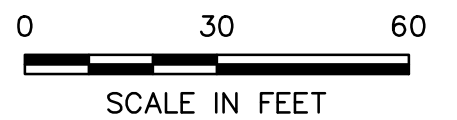


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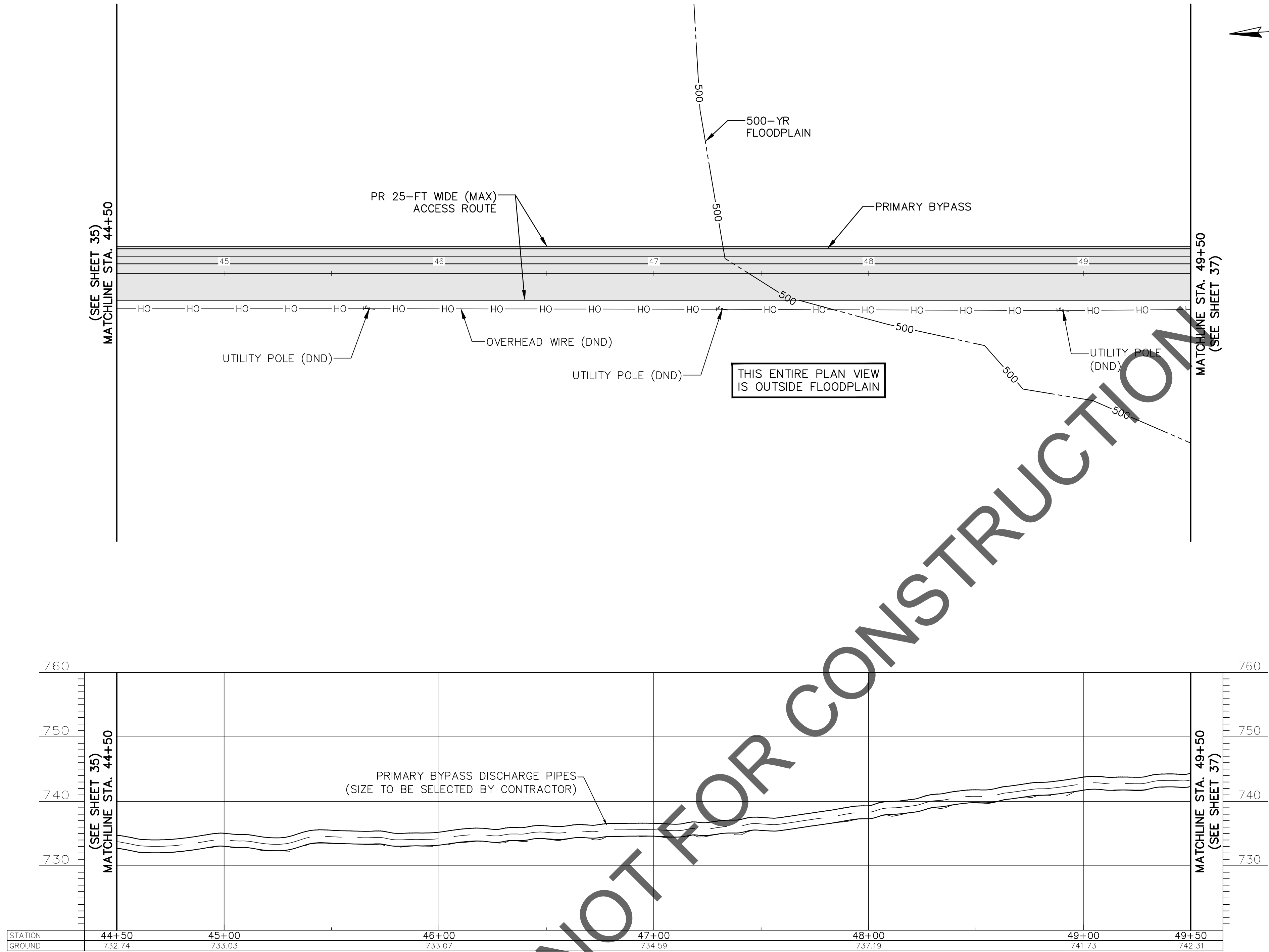
1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. THE CONTRACTOR SHALL REMOVE UP TO A MAXIMUM OF THIRTY-FIVE (35) LINEAR FEET OF EXISTING WOOD FENCE FOR THE PROPOSED ACCESS ROUTE. THE CONTRACTOR SHALL RESTORE THE FENCE TO EXISTING CONDITIONS FOLLOWING BYPASS OPERATIONS AND PRIOR TO SUBSTANTIAL COMPLETION.
5. BYPASS PIPE WORK LIMITS AT AND NEAR THE CROSSING OF WATKINS RD. CONTRACTOR SHALL KEEP BYPASS PIPES WITHIN THESE WORK LIMITS. CONTRACTOR SHALL NOT HAVE ANY PIPING OR EQUIPMENT ON PRIVATE PROPERTY AT ANY TIME.

-  25-FT WIDE (MAX) ACCESS ROUTE LIMITS
-  BYPASS PIPE WORK LIMITS AT AND NEAR THE CROSSING OF WATKINS RD

CURVE	LENGTH	RADIUS	DELTA	STATION COORDINATES		
				PC	PI	PT
9	97.03'	62.5'	88°57'05.23"	39+54.34	40+02.85	40+51.37
				N 693572.75	N 693568.16	N 693506.89
				E 1852398.67	E 1852459.86	E 1852456.39



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
								SCALE: HORIZONTAL: 1" = 30'		SHEET: 35 of 70	
								VERTICAL: 1" = 10'			
							CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.		
							INDEX DETAIL		RECORD FILE		



NOTES:

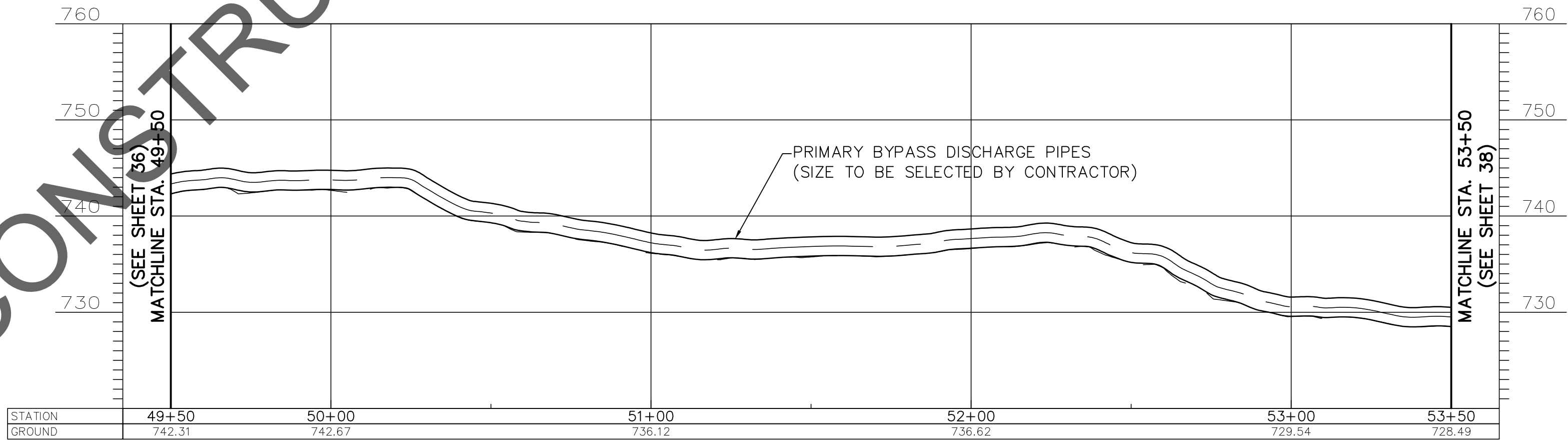
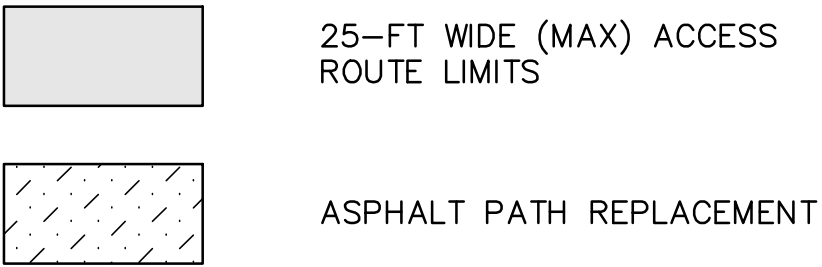
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25-FT WIDE (MAX) ACCESS ROUTE LIMITS

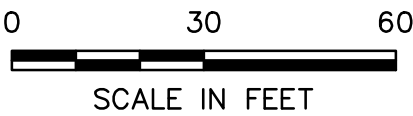
EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 44+50 TO 49+50	PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY							
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID							
	VOL.	PAGE								CONTRACTOR		INSPECTOR		SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 36 OF 70			
										AGREEMENT		COMPLETED							
										RPD		CKD		CLD		CON. DR.			
												CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.					
										INDEX DETAIL		RECORD FILE							

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3. NUMBERED TREES WITHIN THE ACCESS ROUTE/BYPASS ROUTE LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
4. TREES WITHIN THE ACCESS ROUTE/BYPASS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
5. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.



CURVE	LENGTH	RADIUS	DELTA	STATION		
				COORDINATES		
				PC	PI	PT
10	49.09'	62.5'	45°00'00.00"	49+75.70	50+00.24	50+24.78
				N 692584.04	N 692558.19	N 692540.95
				E 1852404.11	E 1852402.65	E 1852383.34
				51+21.19	51+55.28	51+89.36
11	60.80'	62.5'	62°29'42.98"	N 692476.75	N 692451.49	N 692414.74
				E 1852311.42	E 1852283.13	E 1852292.47



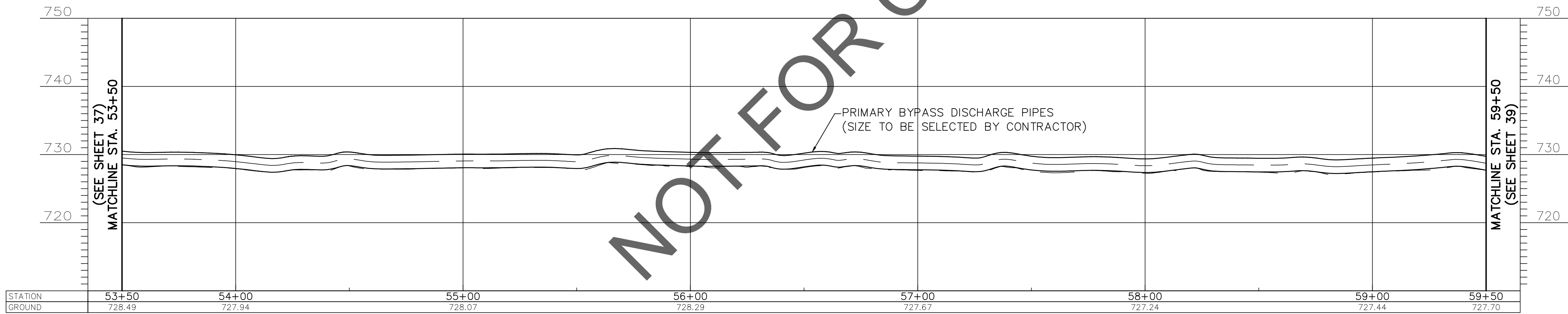
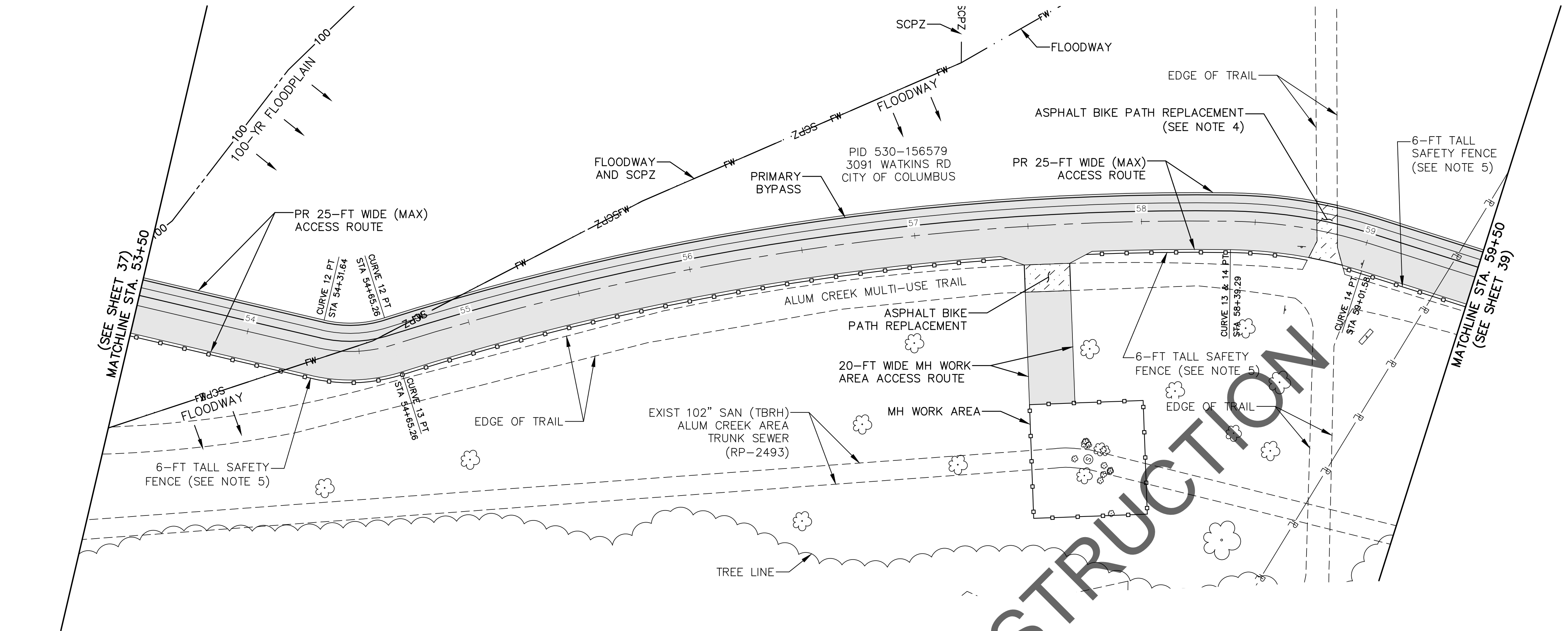
EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

PRIMARY BYPASS PLAN & PROFILE

49+50 TO 53+50

PROJECT TITLE:										CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY																				
ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004										ISSUED STATUS: BID																				
CITY OF COLUMBUS					OWNER																									
					CONTRACTOR					SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'																				
					INSPECTOR																									
					AGREEMENT			COMPLETED			CONTRACT DRAWING NO. CC-18773																			
					RPD	CKD	CID	CON. DR.													RECORD PLAN NO.									
					INDEX DETAIL			RECORD FILE																						

X:\Projects\2013\1321\601200 COC Eng DOSD-ACT\5000 - Detailed Design\CADD\SHEETS\MAIN BYPASS ROUTE PLAN AND PROFILE 2.dwg 8/2/2022 12:51:39 PM Aaron Mitchell, PE PLOTTED: 11/14/2022 1:50:58 PM

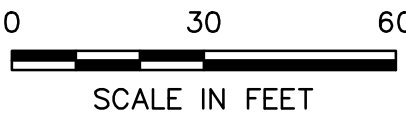


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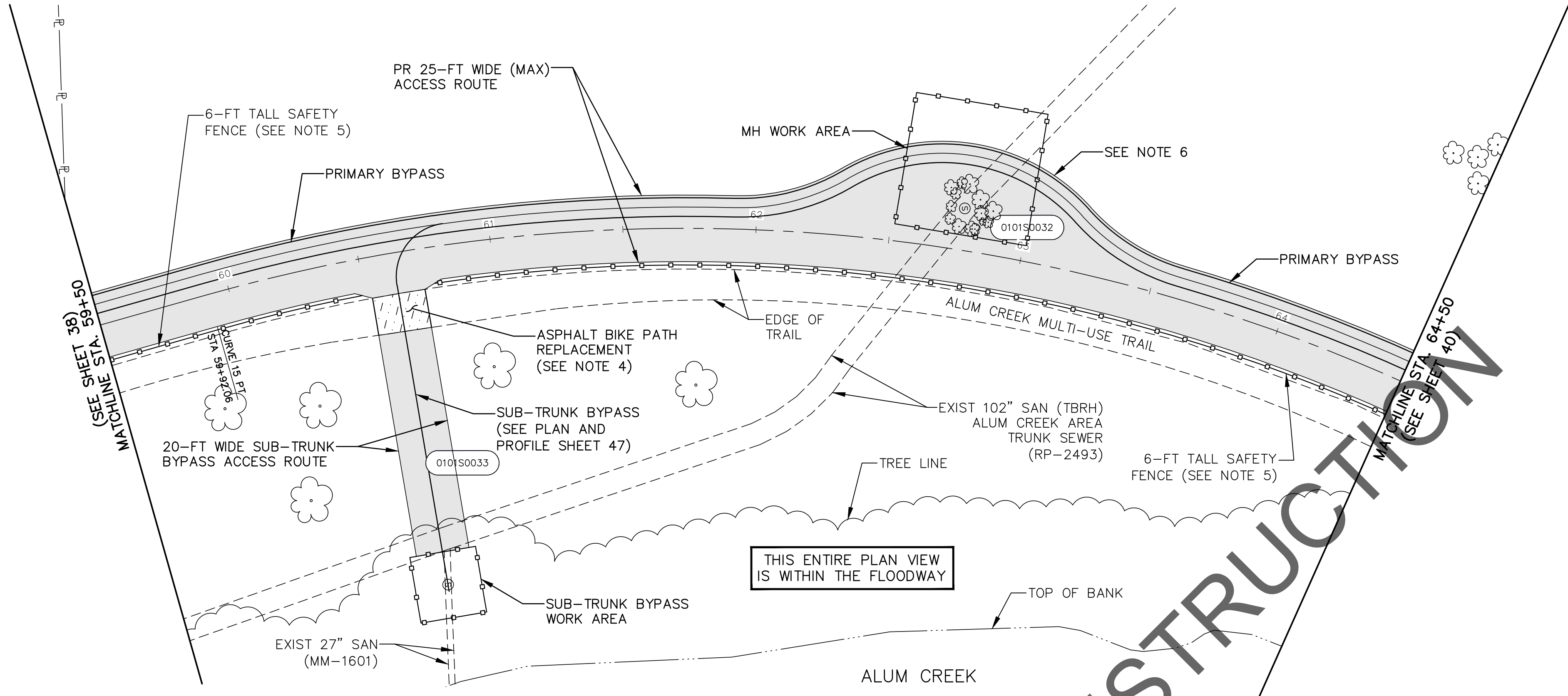
1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. ANY BYPASS PIPES CROSSING THE EXISTING TRAIL SHALL BE BURIED BENEATH THE EXISTING TRAIL THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE THE TRAIL PER THE DETAIL ON SHEET 4 WITHIN THE TRENCH LIMITS. NOTE THAT THE TRAIL WILL BE REQUIRED TO BE REPLACED AT TWO (2) SEPARATE TIMES; UPON BURIAL OF THE BYPASS PIPES AND UPON REMOVAL OF THE BYPASS PIPES.
5. CONTRACTOR TO INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) BETWEEN THE EXISTING ALUM CREEK AND THREE CREEKS METRO PARK TRAILS AND THE PROPOSED ACCESS ROUTE FROM STA 53+50 TO 86+11.

	25-FT WIDE (MAX) ACCESS ROUTE LIMITS
	ASPHALT PATH REPLACEMENT

CURVE	LENGTH	RADIUS	DELTA	STATION COORDINATES		
				PC	PI	PT
12	33.56'	62.5'	30°45'28.33"	54+31.64	54+48.41	54+65.26
				N 692179.93	N 692163.27	N 692151.07
				E 1852352.16	E 1852356.39	E 1852368.60
13	374.17'	1166.75'	18°22'16.24"	54+65.26	56+52.28	58+39.29
				N 692151.07	N 692017.74	N 691849.14
				E 1852368.60	E 1852502.04	E 1852586.65
14	62.22'	212.5'	16°46'38.03"	58+39.29	58+70.47	59+01.58
				N 691849.14	N 691821.08	N 691790.21
				E 1852586.65	E 1852600.74	E 1852606.11

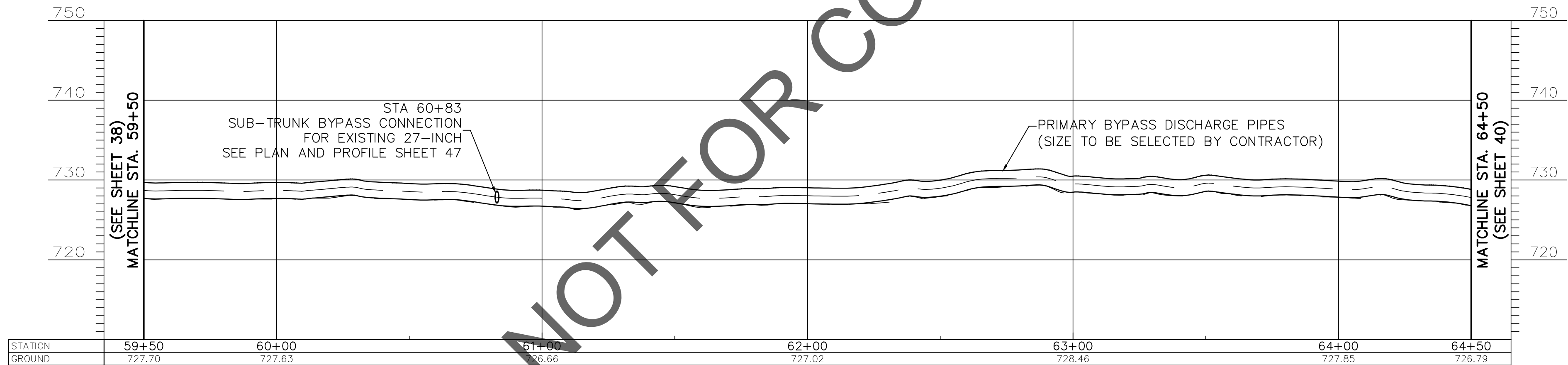
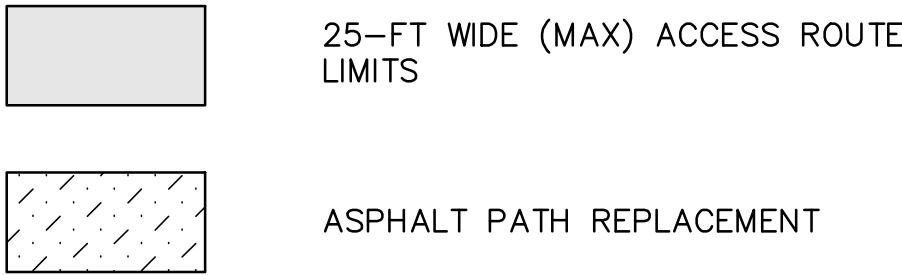


EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
								SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 38 OF 70	
							CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.		



NOTES:

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. ANY BYPASS PIPES CROSSING THE EXISTING TRAIL SHALL BE BURIED BENEATH THE EXISTING TRAIL THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE THE TRAIL PER THE DETAIL ON SHEET 4 WITHIN THE TRENCH LIMITS. NOTE THAT THE TRAIL WILL BE REQUIRED TO BE REPLACED AT TWO (2) SEPARATE TIMES; UPON BURIAL OF THE BYPASS PIPES AND UPON REMOVAL OF THE BYPASS PIPES.
5. CONTRACTOR TO INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) BETWEEN THE EXISTING ALUM CREEK AND THREE CREEKS METRO PARK TRAILS AND THE PROPOSED ACCESS ROUTE FROM STA 53+00 TO 86+11.
6. BUMP-OUT IN ACCESS ROUTE AT MH WORK AREA TO PROVIDE ROOM FOR THE CONTRACTOR TO CURVE THE BYPASS PIPING AROUND THE MH AS NECESSARY FOR CONSTRUCTION EQUIPMENT MANEUVERABILITY.



				STATION COORDINATES		
CURVE	LENGTH	RADIUS	DELTA	PC	PI	PT
15	473.88'	657.5'	41°17'42.47"	59+92.06 N 691701.06 E 1852621.63	62+29.00 N 691456.97 E 1852664.11	64+65.95 N 691245.54 E 1852534.95

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS	OWNER		ISSUED STATUS: BID
	VOL.	PAGE									
									CONTRACTOR		SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'
									INSPECTOR		
		AGREEMENT		COMPLETED						CONTRACT DRAWING NO. CC–18773	
		RPD	CKD	CLD	CON. DR.				RECORD PLAN NO.		
		INDEX DETAIL		RECORD FILE							

PRIMARY BYPASS PLAN & PROFILE
59+50 TO 64+50

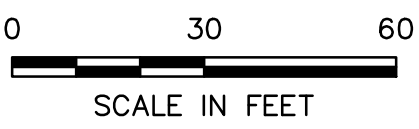
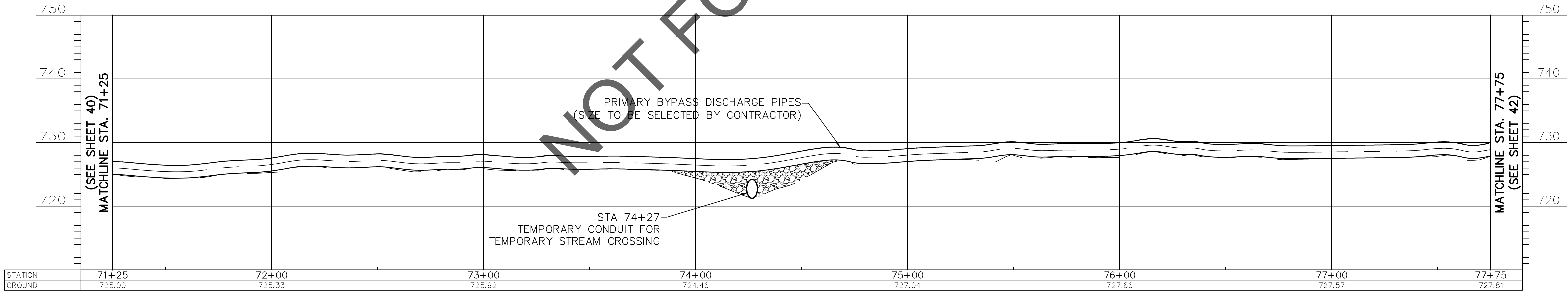
EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 64+50 TO 71+25	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY					
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE								
	VOL.	PAGE												
										CITY OF COLUMBUS		OWNER		
												CONTRACTOR		
												INSPECTOR		
												AGREEMENT		COMPLETED
										RPD	CKD	CLD	CON. DR.	
										INDEX DETAIL		RECORD FILE		
											SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 40 of 70	
											CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	

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- NOTES:
1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
 2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
 3. NUMBERED TREES WITHIN THE ACCESS ROUTE/BYPASS ROUTE LIMITS INDICATE TREES 6" IN DIAMETER OR GREATER THAT ARE TO BE REMOVED AND REPLACED ON AN AS NEEDED BASIS. CONTRACTOR TO LEAVE AS MANY TREES UNDISTURBED AS POSSIBLE. SEE TREE REMOVAL & REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 4. TREES WITHIN THE ACCESS ROUTE/BYPASS ROUTE LIMITS THAT ARE NOT NUMBERED INDICATE TREES THAT ARE LESS THAN 6" IN DIAMETER AND ARE TO BE REMOVED ON AN AS NEEDED BASIS UNDER ITEM 201-CLEARING & GRUBBING. SEE TREE REMOVAL AND REPLACEMENT TABLE AND GUIDE ON SHEET 66 FOR COORDINATION.
 5. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
 6. CONTRACTOR TO INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-2412ORG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) BETWEEN THE EXISTING ALUM CREEK AND THREE CREEKS METRO PARK TRAILS AND THE PROPOSED ACCESS ROUTE FROM STA 53+00 TO 86+11.

25-FT WIDE (MAX) ACCESS ROUTE LIMITS

CURVE	LENGTH	RADIUS	DELTA	STATION		
				COORDINATES		
				PC	PI	PT
19	49.09'	62.5'	45°00'00.00"	71+31.27	71+55.81	71+80.35
				N 690924.59	N 690903.13	N 690898.19
				E 1852838.74	E 1852853.22	E 1852878.63
				73+75.23	73+94.30	74+13.36
20	38.12'	62.5'	34°56'56.86"	N 690861.01	N 690857.25	N 690843.11
				E 1853069.93	E 1853089.25	E 1853102.93
				74+65.75	75+28.56	75+91.37
				N 690805.46	N 690757.93	N 690691.79
21	125.62'	62.5'	44°17'27.91"	E 1853139.36	E 1853185.34	E 1853185.06



EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 71+25 TO 77+75	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY					
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE								
	VOL.	PAGE												
											ISSUED STATUS: BID			
											SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 41 OF 70	
									CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.			

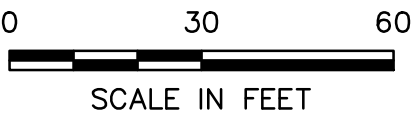
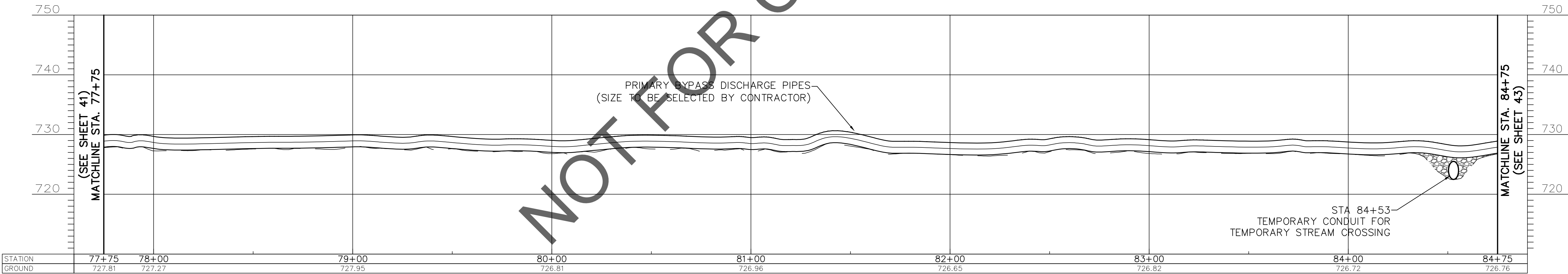
PRIMARY BYPASS PLAN & PROFILE
71+25 TO 77+75

NOTES:

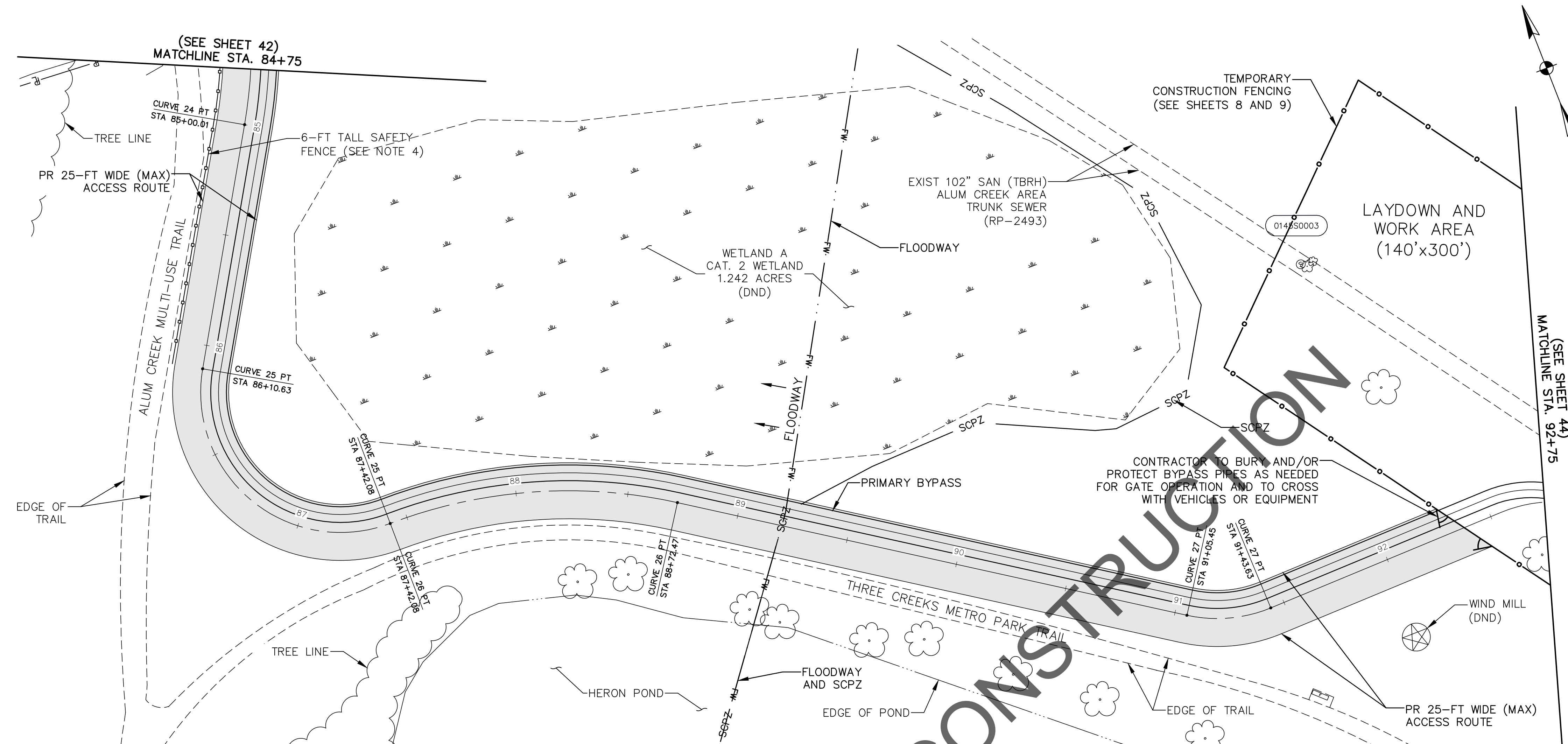
1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. CONTRACTOR TO INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) BETWEEN THE EXISTING ALUM CREEK AND THREE CREEKS METRO PARK TRAILS AND THE PROPOSED ACCESS ROUTE FROM STA 53+00 TO 86+11.
5. BUMP-OUT IN ACCESS ROUTE AT MH WORK AREA TO PROVIDE ROOM FOR THE CONTRACTOR TO CURVE THE BYPASS PIPING AROUND THE MH AS NECESSARY FOR CONSTRUCTION EQUIPMENT MANEUVERABILITY.

25-FT WIDE (MAX) ACCESS ROUTE LIMITS

CURVE	LENGTH	RADIUS	DELTA	STATION COORDINATES		
				PC	PI	PT
22	43.58'	212.5'	11°44'56.87"	77+97.38	78+19.17	78+40.95
				N 690485.78	N 690463.92	N 690442.53
				E 1853184.20	E 1853184.11	E 1853179.57
23	168.92'	607.5'	15°55'54.90"	80+22.49	81+06.95	81+91.42
				N 690264.95	N 690181.79	N 690096.98
				E 1853141.86	E 1853124.20	E 1853130.05
24	130.06'	212.5'	35°04'00.26"	83+69+95	84+34.98	85+00.01
				N 689918.87	N 689851.89	N 689794.42
				E 1853142.33	E 1853146.95	E 1853112.24



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY					
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID					
	VOL.	PAGE						SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 42 OF 70				
								CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.			
								INDEX DETAIL		RECORD FILE			
PRIMARY BYPASS PLAN & PROFILE 77+75 TO 84+75													

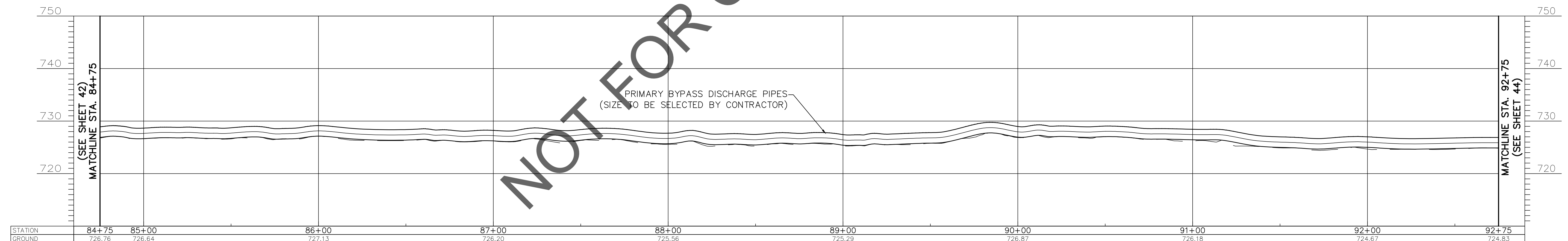


NOTES:

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS ROUTE SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS ROUTE ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS ROUTE.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS ROUTE LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. CONTRACTOR TO INSTALL 6-FT TALL ULINE - SAFETY FENCE MODEL S-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL) BETWEEN THE EXISTING THREE CREEKS METRO PARK TRAIL AND THE PROPOSED ACCESS ROUTE FROM STA 53+00 TO 86+11.

25-FT WIDE (MAX) ACCESS
ROUTE LIMITS

				STATION		
				COORDINATES		
CURVE	LENGTH	RADIUS	DELTA	PC	PI	PT
24	130.06'	212.5'	35°04'00.26"	83+69+95	84+34.98	85+00.01
				N 689918.87	N 689851.89	N 689794.42
				E 1853142.33	E 1853146.95	E 1853112.24
				86+10.63	86+76.36	87+42.08
25	131.45'	62.5'	120°30'17.10"	N 689692.32	N 689607.10	N 689604.92
				E 1853049.86	E 1852998.54	E 1853107.89
				87+42.08	88+07.28	88+72.47
				N 689604.92	N 689604.19	N 689566.83
26	130.39'	224.8'	33°13'53.63"	E 1853107.89	E 1853174.97	E 1853230.69
				91+05.45	91+24.54	91+43.63
				N 689437.05	N 689426.07	N 689426.63
				E 1853424.18	E 1853440.54	E 1853460.24
27	38.18'	62.5'	35°00'00.00"			

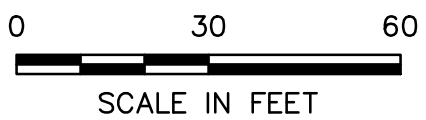
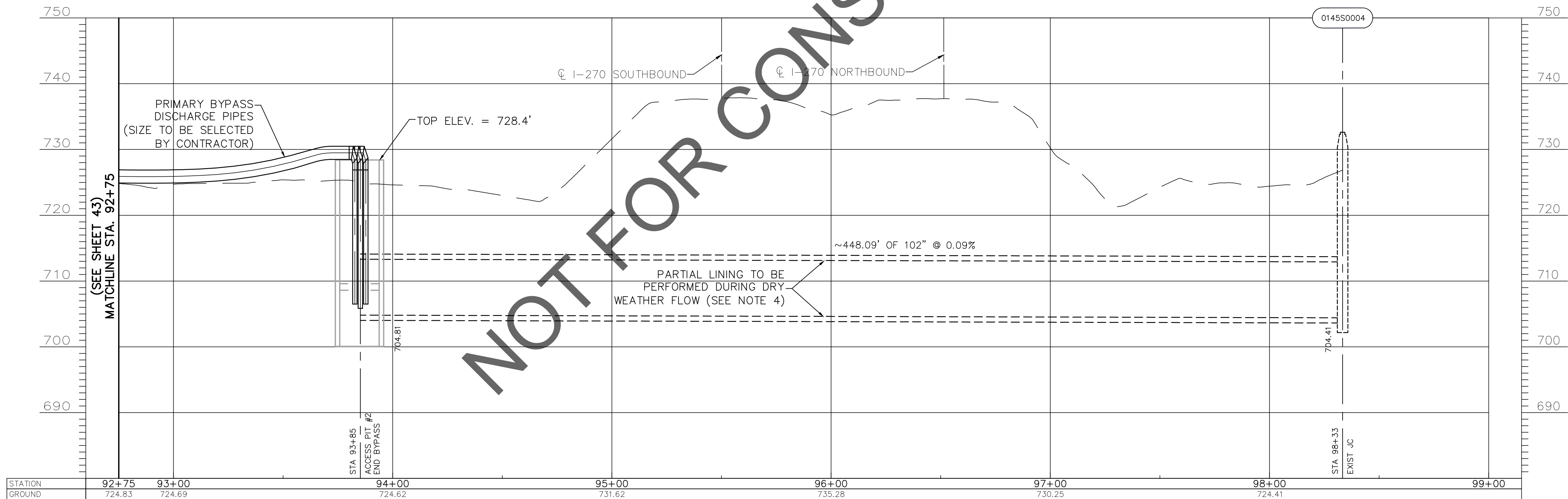
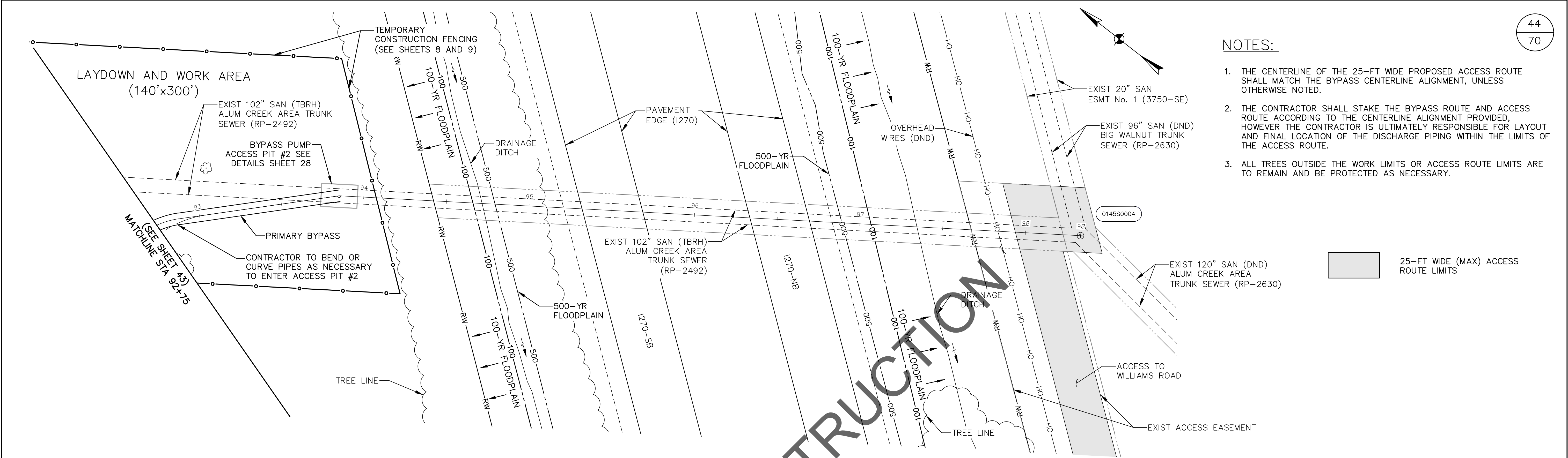


0 30 60

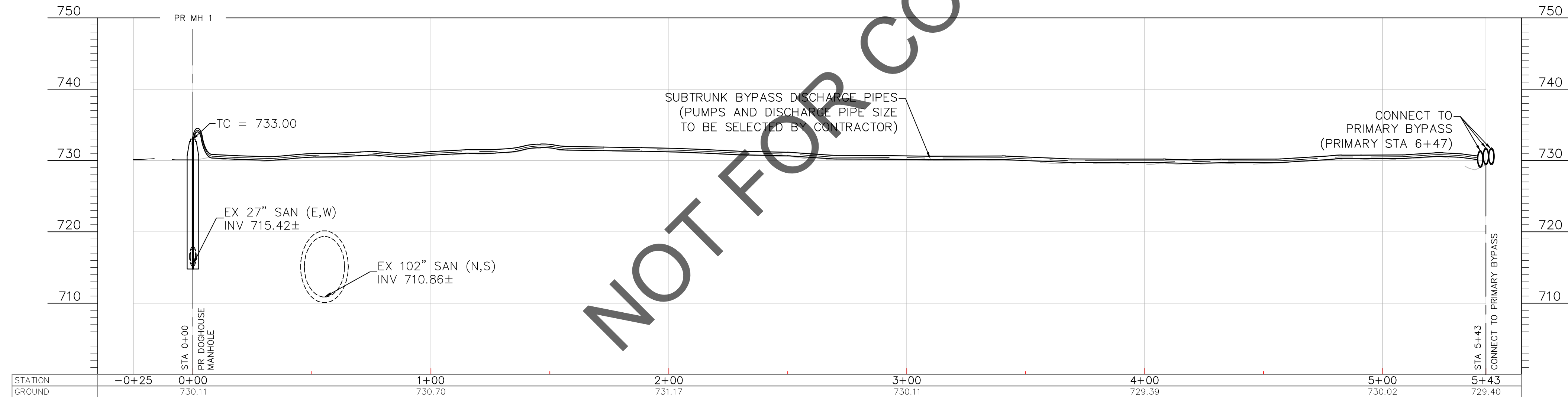
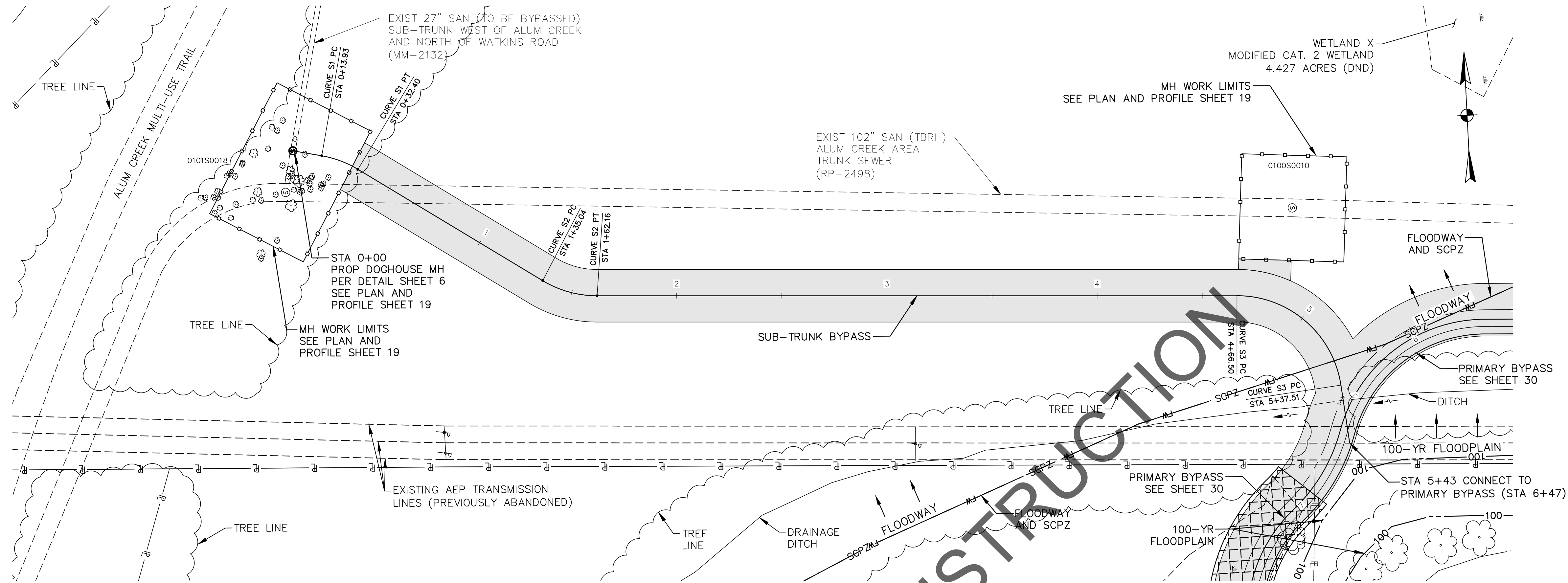
SCALE IN FEET

EASEMENT REFERENCE				REVISIONS			PRIMARY BYPASS PLAN & PROFILE 84+75 TO 92+75	PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID			
	VOL.	PAGE						CONTRACTOR							
								INSPECTOR		SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'					
								AGREEMENT		COMPLETED		SHEET: 43 of 70			
								RPD		CKD					
								INDEX DETAIL		RECORD FILE		CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	

X:\Projects\2013\1321\601200 COC Eng DOSD-ACT\5000 - Detailed Design\CADD\SHEETS\HERON POND ACCESS PLAN.dwg 11/14/2022 1:40:05 PM Aaron Mitchell, PE PLOTTED: 11/14/2022 2:09:49 PM



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY				
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID				
	VOL.	PAGE						SCALE:	SHEET: 44 OF 70			
3750–SE 2020100– 20150077	2698	686	W.J. ROHR ET AL K.G. BENNINGTON ET AL				CITY OF COLUMBUS		OWNER		CONTRACT DRAWING NO. CC–18773	RECORD PLAN NO.
	–	–							CONTRACTOR			
									INSPECTOR			
									AGREEMENT	COMPLETED		
							RPD		CKD	CLD	CON. DR.	
									INDEX DETAIL	RECORD FILE		
PRIMARY BYPASS PLAN & PROFILE 92+75 TO END												



NOTES:

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS PATH SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS PATH ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS PATH.
3. LOCATION OF OHE IS APPROXIMATE AND HAS NOT BEEN SURVEYED.
4. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.

25-FT WIDE ACCESS PATH
STABILIZE AS NECESSARY



WETLAND CROSSING
TIMBER
MATTING

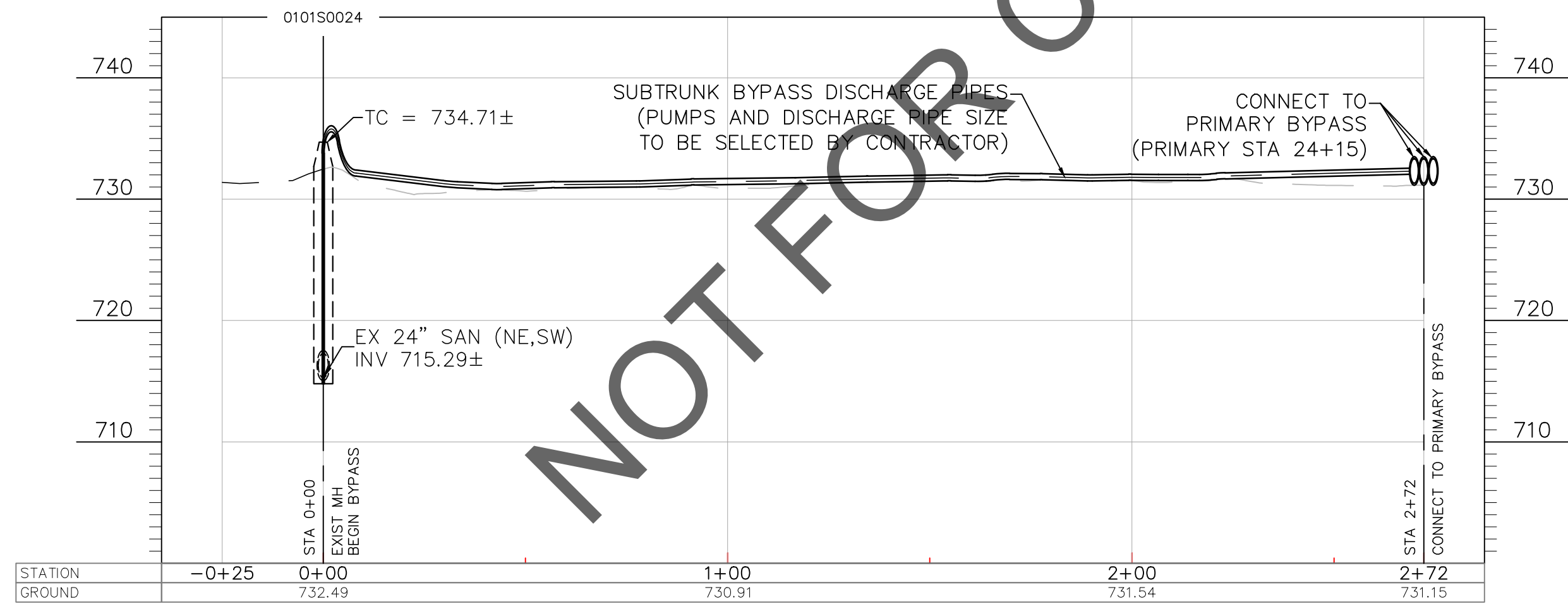
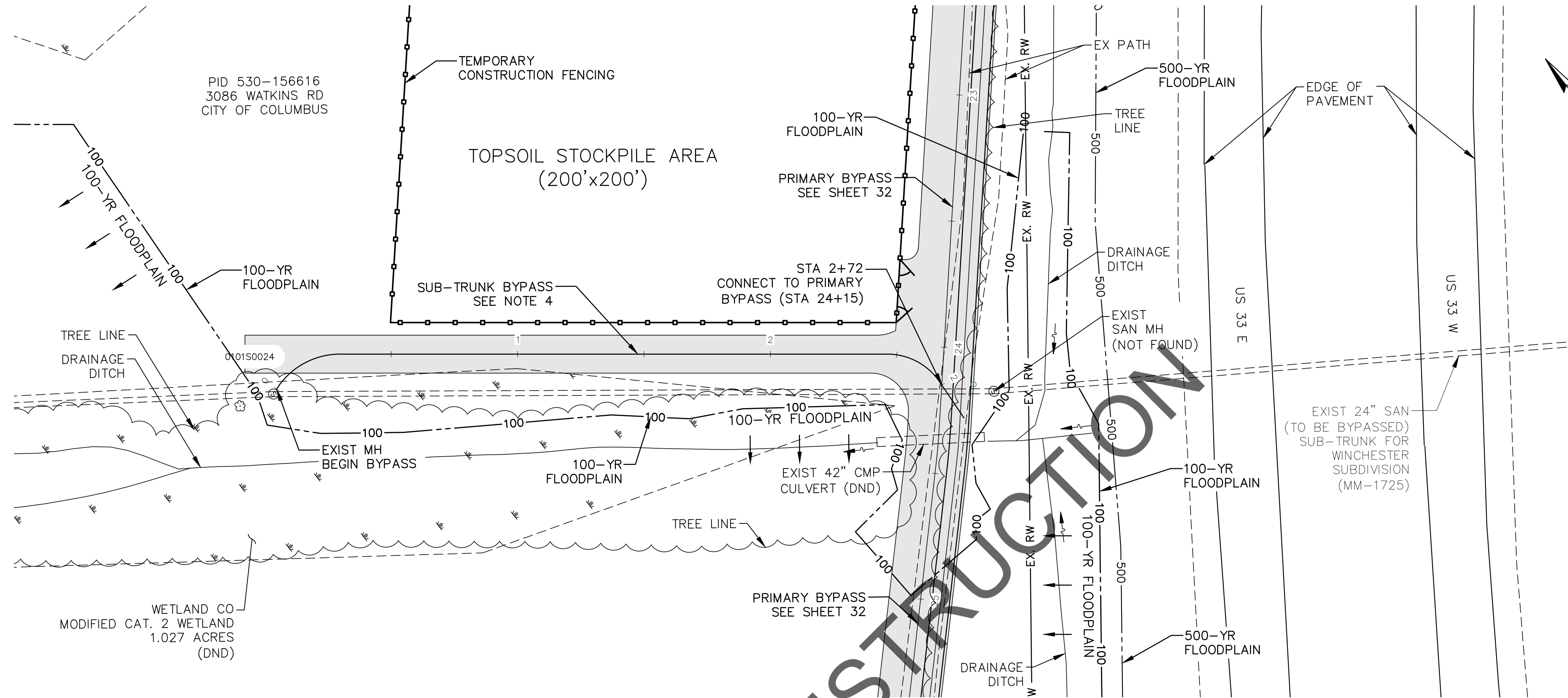
				STATION		
				COORDINATES		
CURVE	LENGTH	RADIUS	DELTA	PC	PI	PT
				0+13.93	0+23.17	0+32.40
S1	18.48'	50'	21°10'33.20"	N 694951.13	N 694960.22	N 694967.92
				E 1850344.19	E 1850346.35	E 1850351.65
S2	27.11'	50'	31°04'25.74"	1+35.04	1+48.60	1+62.16
				N 695052.45	N 695063.90	N 695077.77
				E 1850409.86	E 1850417.74	E 1850418.59
S3	71.01'	50'	81°22'14.52"	4+66.50	5+02.00	5+37.51
				N 695381.55	N 695424.46	N 695428.32
				E 1850437.05	E 1850439.66	E 1850482.47

0 30 60

SCALE IN FEET

EASEMENT REFERENCE				REVISIONS			SUBTRUNK BYPASS #1 PLAN AND PROFILE	PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004				ISSUED STATUS: BID			
	VOL.	PAGE						CITY OF COLUMBUS		OWNER					
								CONTRACTOR				SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'		SHEET: 45 OF 70	
								INSPECTOR				CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	
								AGREEMENT		COMPLETED					
								RPD	CKD	CLD	CON. DR.	INDEX DETAIL	RECORD FILE		

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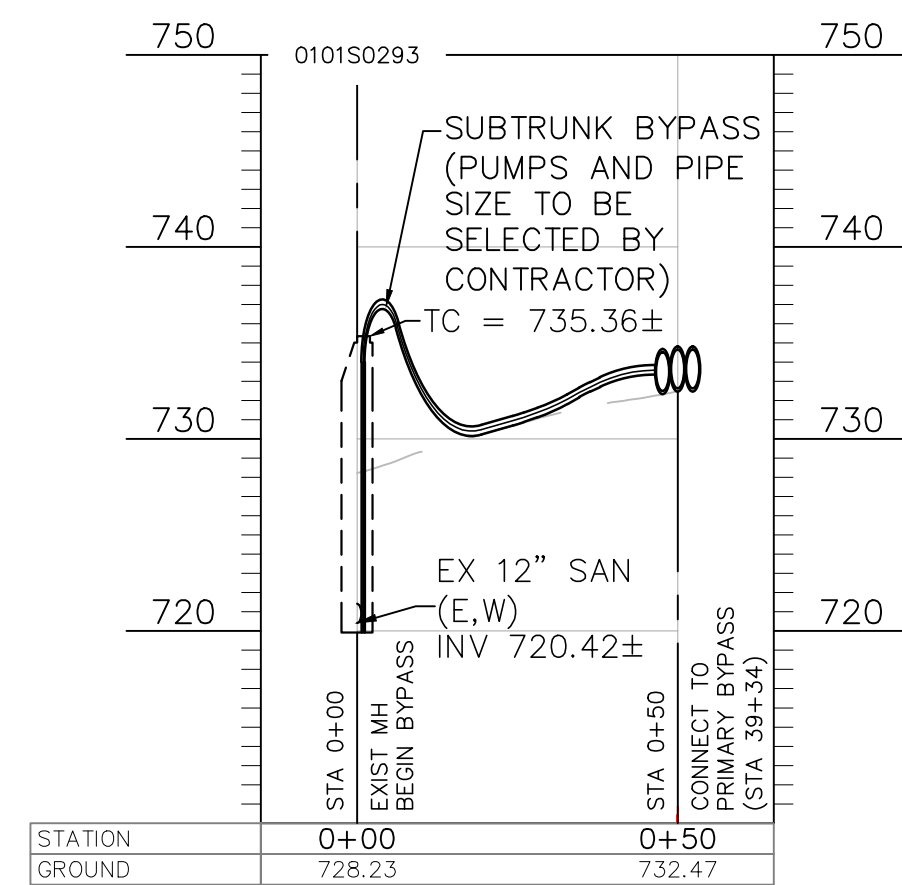
NOTES:

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS PATH SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS PATH ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS PATH.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. SUB-TRUNK BYPASS AS SHOWN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE ALIGNMENT LOCATION AND CONNECTION TO THE PRIMARY BYPASS DISCHARGE PIPES.

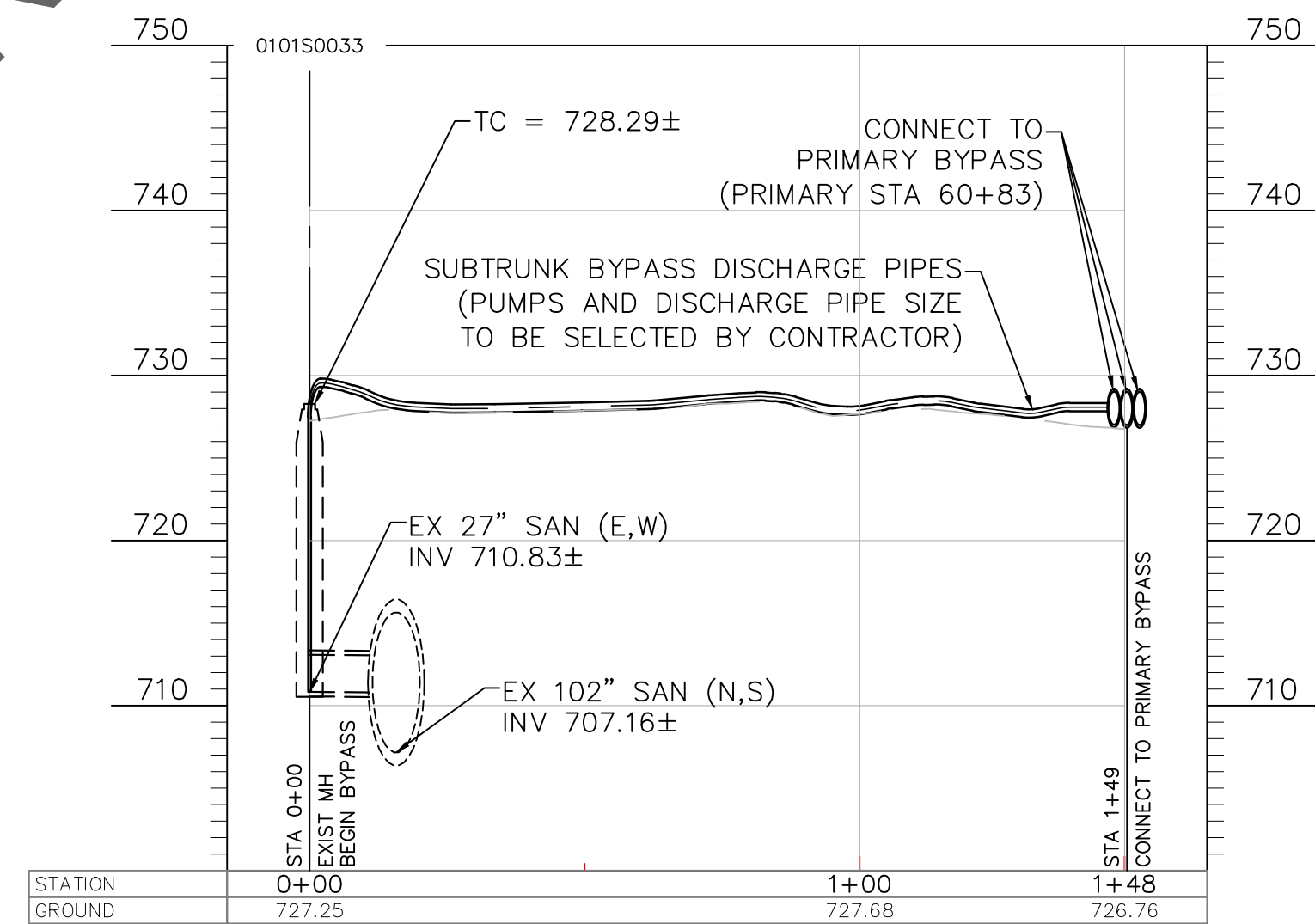
25-FT WIDE ACCESS PATH
STABILIZE AS NECESSARY

0 30 60
SCALE IN FEET

EASEMENT REFERENCE				REVISIONS			SUBTRUNK BYPASS #2 PLAN AND PROFILE	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			ISSUED STATUS: BID			
	VOL.	PAGE							SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'	SHEET: 46 of 70		
									CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	



SUBTRUNK BYPASS #3 –
WATKINS ROAD SANITARY SEWER

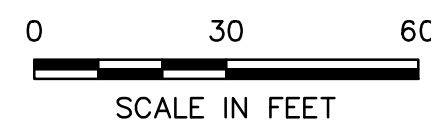


SUBTRUNK BYPASS #4
WATKINS ROAD – ALUM CREEK
DRIVE AREA SANITARY SEWER

1. THE CENTERLINE OF THE 25-FT WIDE PROPOSED ACCESS PATH SHALL MATCH THE BYPASS CENTERLINE ALIGNMENT, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL STAKE THE BYPASS ROUTE AND ACCESS PATH ACCORDING TO THE CENTERLINE ALIGNMENT PROVIDED, HOWEVER THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR LAYOUT AND FINAL LOCATION OF THE DISCHARGE PIPING WITHIN THE LIMITS OF THE ACCESS PATH.
3. ALL TREES OUTSIDE THE WORK LIMITS OR ACCESS PATH LIMITS ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
4. SUB-TRUNK BYPASS AS SHOWN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE ALIGNMENT LOCATION AND CONNECTION TO THE PRIMARY BYPASS DISCHARGE PIPES.

25-FT WIDE ACCESS PATH
STABILIZE AS NECESSARY

ASPHALT PATH REPLACEMENT



EASEMENT REFERENCE				REVISIONS			SUBTRUNK BYPASSES #3 AND #4 PLANS AND PROFILES	PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>						
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004				ISSUED STATUS: BID						
	VOL.	PAGE																
								CITY OF COLUMBUS		OWNER								
												CONTRACTOR						
											INSPECTOR							
									AGREEMENT		COMPLETED							
									RPD	CKD	CLD	CON. DR.						
									INDEX DETAIL		RECORD FILE		SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'					
											CONTRACT DRAWING NO. CC-18773				SHEET: 47 OF 70			
															RECORD PLAN NO.			

EROSION AND SEDIMENT CONTROL NARRATIVE

ALL EROSION & SEDIMENT CONTROL PRACTICES ARE SUBJECT TO
FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF
COLUMBUS AND/OR THE OHIO EPA.

PLAN DESIGNER

DLZ OHIO
6121 HUNTLEY ROAD
COLUMBUS, OH 43229
PHONE: 614.888.0040
FAX: 614.848.6712

OWNER/DEVELOPER

CITY OF COLUMBUS
DIVISION OF SEWERAGE & DRAINAGE
NICK DOMENICK, P.E.
1250 FAIRWOOD AVENUE
COLUMBUS, OH 43206
PHONE: 614.645.4693

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE INSTALLATION OF SHOTCRETE LINING WITHIN AN EXISTING 102" DIAMETER REINFORCED CONCRETE PIPE. IN ADDITION, THE PROJECT CONSISTS OF MANHOLE REHABILITATION AND A LARGE SCALE BYPASSING SYSTEM. LAYDOWN AND WORK AREAS WILL BE REQUIRED FOR CONSTRUCTION AND WILL DISTURB APPROXIMATELY 8.822 ACRES AS A RESULT OF CONSTRUCTION ACTIVITIES.

EXISTING SITE CONDITIONS

THE EXISTING SITE AREA FOLLOWS THE EXISTING ALUM CREEK TRUNK SEWER WITHIN THE FOLLOWING PARCEL ID'S:

- 530-274572-00: 50.75-ACRES MADE UP OF PRIMARILY OF PERVIOUS AREAS INCLUDING FARMLAND AND VEGETATED AREAS
- 530-182791-00: 48.03-ACRES MADE UP OF PRIMARILY PERVIOUS AREAS INCLUDING PARKLAND AND GRASSLANDS
- 530-156579-00: 363.30-ACRES MADE UP OF PRIMARILY PERVIOUS AREAS INCLUDING PARKLAND AND GRASSLANDS (ADJACENT TO ALUM CREEK)
- 530-156616-00: 59.63-ACRES MADE UP OF PRIMARILY PERVIOUS AREAS INCLUDING PARKLAND AND GRASSLANDS
- 010-111412-00: 53.92-ACRES MADE UP PRIMARILY OF PERVIOUS AREAS INCLUDING PARKLAND AND GRASSLANDS (ADJACENT TO ALUM CREEK)

SITE DISTURBANCE

THE TOTAL PROJECT EARTH DISTURBANCE AREA IS 8.822 ACRES AND WILL CONSIST PRIMARILY OF STABILIZING THE WORK AREAS DURING CONSTRUCTION. THE WORK AREAS WILL BE RESTORED TO EXISTING CONDITIONS. THERE IS NO CHANGE IN IMPERVIOUS AREA.

RECEIVING STREAM

SURFACE FLOW AND DRAINAGE PATTERNS TO ALUM CREEK

ADJACENT AREAS

THE PROJECT IS BOUNDED BY WILLIAMS ROAD TO THE SOUTH, I-270 TO THE EAST, US-33 TO THE NORTH, AND ALUM CREEK DRIVE TO THE WEST. IN GENERAL THE EXISTING ALUM CREEK TRUNK SEWER FOLLOWS THE ALIGNMENT OF ALUM CREEK THROUGH THIS AREA BOUNDARY.

BASE ZONING FOR THE PROJECT AREA AND SURROUNDING AREAS IS CLASSIFIED AS "R1" AND "RRR" (RESIDENTIAL). LAND USE FOR THE PROJECT AREA AND SURROUNDING AREAS IS CURRENTLY BEING PROVIDED BY THE CITY OF COLUMBUS AS PARKLAND AND GREENWAYS.

SOILS

ACCORDING TO THE USDA SOIL SURVEY, THE PREDOMINANT SOILS ON SITE CONSISTS OF:

Ee: EEL SILT LOAM, 0-2% SLOPES, OCCASIONAL FLOODING
Gn: GENESEE SILT LOAM, 0-2% SLOPES, OCCASIONAL FLOODING
So: SLOAN SILT LOAM, COLUMBUS LOWLAND, 0-2% SLOPES,
FREQUENT FLOODING

EROSION AND SEDIMENT CONTROL MEASURES

EROSION AND SEDIMENT WILL BE CONTROLLED BY THE USE OF SILT FENCE AND/OR COMPOST FILTER SOCK, DEWATERING TRAPS AND FILTER BAGS (TO BE DETERMINED BY THE CONTRACTOR), TEMPORARY SEEDING AND MULCHING, AND PERMANENT SEEDING AND MULCHING.

PER THE OHIO EPA'S GENERAL PERMIT OHC000005 SEC. PART
III.G.2.d.ii, SEDIMENT BASINS ARE REQUIRED TO MANAGE RUNOFF
FROM THE FOLLOWING CONDITIONS

- CONCENTRATED OR COLLECTED STORM WATER RUNOFF
- RUNOFF FROM DRAINAGE AREAS, WHICH EXCEED THE DESIGN CAPACITY OF SILT FENCE OR OTHER SEDIMENT BARRIERS
- RUNOFF FROM DRAINAGE AREAS THAT EXCEED THE DESIGN CAPACITY OF INLET PROTECTION
- AND WHEN THE DRAINAGE AREA TO A STORM SEWER INLET PROTECTION IS GREATER THAN 1.0 ACRE

AS SHOWN IN THE TABLES ON THIS SHEET, EACH DRAINAGE AREA OF THE INDIVIDUAL SITES (LAYDOWN AND WORK AREAS AND MANHOLE WORK AREAS) ARE LESS THAN 1 ACRE, AND AN ADEQUATE CONTROL IS PROVIDED FOR EACH AREA PER THE REQUIREMENTS OF THE RAINWATER AND LAND DEVELOPMENT MANUAL. AS A RESULT SEDIMENT SETTLING PONDS/BASINS ARE NOT REQUIRED.

MAINTENANCE

MAINTENANCE OF THE EROSION & SEDIMENT CONTROL ITEMS SHALL BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED/REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION SEQUENCE

THIS CONSTRUCTION SEQUENCE IS PROVIDED TO DESCRIBE THE RELATIONSHIP BETWEEN THE IMPLEMENTATION AND MAINTENANCE OF CONTROLS, INCLUDING PERMANENT AND TEMPORARY STABILIZATION AND THE VARIOUS STAGES OR PHASES OF EARTH DISTURBANCE AND CONSTRUCTION.

- 1) AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION AT ANY OF THE INDIVIDUAL SITES, SUBMIT TO THE OWNER THE TYPES AND LOCATIONS OF EROSION AND SEDIMENT CONTROL DEVICES AND WHEN THEY WILL BE INSTALLED. IN ADDITION, PROVIDE THE NAME OF THE CONTRACTOR'S INSTALLER AND INSPECTOR WHO WILL BE ONSITE AT ALL TIMES TO ADDRESS ENVIRONMENTAL COMPLIANCE ISSUES.
- 2) THE CONTRACTOR SHALL PLACE THE REQUIRED STABILIZED CONSTRUCTION ENTRANCES, SEDIMENT FENCE AND/OR COMPOST FILTER SOCKS, AND ALL OTHER EROSION CONTROL MEASURES NOTED HEREIN PRIOR TO ANY CONSTRUCTION ACTIVITY AT THE INDIVIDUAL SITES IN ACCORDANCE WITH THE PLAN DETAILS.
- 3) THE CONTRACTOR SHALL PERFORM ANY CLEARING/GRUBBING AND TREE REMOVAL/PROTECTION REQUIRED AT EACH INDIVIDUAL SITE.
- 4) THE CONTRACTOR SHALL STABILIZE EACH WORK AREA WITH STONE FOLLOWING THE INSTALLATION OF EROSION CONTROL MEASURES AND CLEARING/GRUBBING AND TREE REMOVAL.
- 5) THE CONTRACTOR SHALL PERFORM SITE EARTHWORK OPERATIONS INCLUDING MANHOLE REHABILITATION AT APPLICABLE SITES AND INSTALLATION OF THE BYPASS ACCESS PITS.
- 6) FOLLOWING CONSTRUCTION ACTIVITIES AND AFTER BACKFILLING, THE CONTRACTOR SHALL REMOVE THE STABILIZED STONE FROM THE SITES AND INSTALL PERMANENT SEEDING AND MULCHING AS NECESSARY TO REESTABLISH ALL DENuded AREAS. MAINTAIN AREAS UNTIL VEGETATIVE COVER IS ESTABLISHED.
- 7) UPON PERMANENT STABILIZATION (>90%) REMOVE THE TEMPORARY SEDIMENT CONTROL STRUCTURES. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PROPERLY RESTORED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST THREE (3) DAYS PRIOR TO REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

SCHEDULE

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

SITE CONTACT

NICK DOMENICK
1250 FAIRWOOD AVENUE
COLUMBUS, OH 43206
PH: 614.645.4693
EMAIL: NJDOMENICK@COLUMBUS.GOV

STORMWATER POLLUTION PREVENTION CONTROLS

REFER TO THE INDIVIDUAL SWPPP SITE DETAILS SEDIMENT AND EROSION CONTROL SHEETS FOR EACH SITE, WHERE THE DRAINAGE SUB-BASIN ACREAGES AND PROPOSED SEDIMENT AND EROSION CONTROLS ARE SHOWN. THE ESTIMATED LIMITS OF DISTURBANCE FOR THE SITES HAVE BEEN PROVIDED ON THE INDIVIDUAL SHEETS.

NORTHERN LAYDOWN AND WORK AREA SITE (TOTAL ACREAGE = 0.794 ACRES)				
AREA INCLUDES BYPASS ACCESS PIT #1 - (SHEET 53; TOTAL ACREAGE = 0.794 ACRES)				
SUB-BASIN	ACREAGE	SLOPE LENGTH	SLOPE GRADE	S&E CONTROLS
1	0.314	223'	0.10% (< 2%)	12" COMPOST FILTER SOCK
2	0.241	186'	0.32% (< 2%)	12" COMPOST FILTER SOCK
3	0.187	225'	0.08% (< 2%)	12" COMPOST FILTER SOCK
4	0.052	24'	4.34% (2-10%)	12" COMPOST FILTER SOCK

INDIVIDUAL MANHOLE WORK AREA SITES				
MANHOLE	ACREAGE	SLOPE LENGTH	SLOPE GRADE	S&E CONTROLS
0100S0010	0.057	70'	0.84% (< 2%)	12" COMPOST FILTER SOCK
0101S0018	0.080	86'	0.40% (< 2%)	12" COMPOST FILTER SOCK
0101S0019	0.057	70'	0.74% (< 2%)	12" COMPOST FILTER SOCK
0101S0020	0.057	70'	1.14% (< 2%)	12" COMPOST FILTER SOCK
0101S0027	0.057	70'	4.50% (2-10%)	12" COMPOST FILTER SOCK
0101S0028	0.057	70'	4.29% (2-10%)	12" COMPOST FILTER SOCK
0101S0029	0.057	70'	2.29% (2-10%)	12" COMPOST FILTER SOCK
0101S0030	0.057	70'	0.59% (< 2%)	12" COMPOST FILTER SOCK
0101S0032	0.057	70'	2.67% (2-10%)	12" COMPOST FILTER SOCK
0145S0002	0.057	70'	0.75% (< 2%)	12" COMPOST FILTER SOCK

TEMPORARY BYPASS ACCESS ROUTE SEDIMENT AND EROSION CONTROLS								
PATH STATIONING					FLOW DATA AND CONTROLS			
BEGIN	OFFSET	END	OFFSET	LAY LENGTH	ACREAGE	SLOPE LENGTH	SLOPE GRADE (MAX)	S&EC CONTROLS
2+92	14.5' LT	6+50	14.5' LT	341'	0.116	15'	8.55% (2-10%)	12" COMPOST FILTER SOCK
2+92	14.5' RT	6+21	14.5' RT	339'	0.122	15'	5.49% (2-10%)	12" COMPOST FILTER SOCK
6+50	14.5' RT	18+50	14.5' RT	1,197'	0.744	27'	12.81% (10-20%)	12" COMPOST FILTER SOCK
18+50	14.5' LT	26+41	14.5' LT	793'	0.264	15'	10.57% (10-20%)	12" COMPOST FILTER SOCK
18+50	14.5' RT	26+41	14.5' RT	790'	0.263	15'	5.81% (2-10%)	12" COMPOST FILTER SOCK
26+41	14.5' RT	35+16	14.5' RT	862'	0.541	27'	7.49% (2-10%)	12" COMPOST FILTER SOCK
WATKINS RD	14.5' RT	52+52	14.5' RT	1298'	0.561	27'	25% (> 10%)	12" COMPOST FILTER SOCK
41+12	14.5' LT	47+38	14.5' LT	626'	0.179	15'	8.55% (2-10%)	12" COMPOST FILTER SOCK
52+81	14.5' RT	57+92	14.5' RT	511'	0.27	27'	0.50% (< 2%)	12" COMPOST FILTER SOCK
57+00	14.5' LT	70+34	14.5' LT	1370'	0.62	27'	8.29% (2-10%)	12" COMPOST FILTER SOCK
64+66	14.5' RT	67+71	14.5' RT	331'	0.091	15'	2.56% (2-10%)	12" COMPOST FILTER SOCK
69+94	14.5 RT	73.75	14.5' RT	374'	0.220	27'	4.71% (2-10%)	12" COMPOST FILTER SOCK
74+66	14.5' LT	84+21	12.5' LT	1017'	0.285	15'	7.36% (2-10%)	12" COMPOST FILTER SOCK
74+66	14.5' RT	84+21	14.5' RT	942'	0.265	15'	0.14% (< 2%)	12" COMPOST FILTER SOCK
84+76	14.5' LT	92+25	14.5' LT	720'	0.210	15'	21.11% (> 10%)	12" COMPOST FILTER SOCK
84+76	14.5' RT	92+44	14.5' RT	798'	0.224	15'	9.22% (2-10%)	12" COMPOST FILTER SOCK

* – SIZING DEVELOPED OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION. (CHAPTER 6, OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL UPDATED 11/06/2014)

EASEMENT REFERENCE				REVISIONS			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>								
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE											
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										RPD		CKD		CLD		CON. DR.	
				INDEX DETAIL		RECORD FILE											

CONTRACTOR RESPONSIBILITY
DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENT CONTROL. THE DETAILS SHOWN ON THE PLANS ARE SHALL BE CONSIDERED A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS USED TO COMPLY WITH EROSION CONTROL METHODS. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE OHIO EPA'S "RAINWATER AND LAND DEVELOPMENT MANUAL". 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, INSPECTION, AND IN SOME CASES, RECONSTRUCTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

GENERAL NOTES

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

THE CONTRACTOR SHALL IMPLEMENT SWPP MEASURES DURING CONSTRUCTION TO COMPLY WITH STANDARDS AND SPECIFICATIONS OUTLINED IN THE LATEST EDITION OF THE FOLLOWING:

- SWPPP – DEVELOPED FOR THIS PROJECT
OEPA – PERMIT# OHCO00005 "AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" (EXPIRES APRIL 22, 2023)
ODNR – "RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARD FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION" THIRD EDITION 2006
ODOT – CMSC ITEM 207
COC DPU DOSD – "STORMWATER DRAINAGE MANUAL" AUGUST 2012

ALL SWPP MEASURES SHALL BE INSTALLED PRIOR TO, OR IN CONJUNCTION WITH, THE START OF EXCAVATION AND ARE TO REMAIN IN EFFECT UNTIL AREAS ARE STABILIZED. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE OWNER AS REQUIRED.

REMOVE ONLY THE ITEMS SHOWN TO BE REMOVED ON THE PLANS. PROTECT THE REMAINING VEGETATION TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SWPP DEVICES DURING GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE DEVICES SHALL BE IN PLACE AT THE END OF WORKING HOURS OR DURING ANY INCLEMENT WEATHER.

ALL EXCAVATION SHALL BE COMPLETED IN SUCH A MANNER AS TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.

UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING, OR SIMILAR GEOTEXTILE.

EROSION AND SEDIMENTATION SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR WATERCOURSES IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS; THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING PRACTICES ON THE SITE. PROTECTED AREAS FOR CONSTRUCTION MATERIAL AND EQUIPMENT STORAGE SHALL BE PROVIDED ON THE SITE TO MINIMIZE EXPOSURE OF MATERIALS AND EQUIPMENT TO STORM WATER.

TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED OF PER ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. ALL SOILS CONTAMINATED WITH PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE TREATED AND/OR DISPOSED OF IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT STORAGE OR DISPOSAL FACILITY.

CONTAINERS (E.G., DRUMS, DUMPSTERS) SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, AND HAZARDOUS OR PETROLEUM WASTES.

IN THE EVENT OF A RELEASE OF MORE THAN 25 GALLONS OF A PETROLEUM PRODUCT, THE CONTRACTOR SHALL CONTACT THE OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.

IF VEHICLE MAINTENANCE IS PERFORMED AT THE SITE, THE ACTIVITY SHALL BE PERFORMED IN AREAS AWAY FROM WATERCOURSES, DITCHES, OR OTHER STORM DRAIN INLETS. IF VEHICLE FUEL STORAGE EXCEEDS ONE ABOVE GROUND TANK WITH A CAPACITY OF 660 GALLONS OR TOTAL ABOVE GROUND STORAGE OF 1330 GALLONS, A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER FOR APPROVAL.

NO OPEN BURNING SHALL BE PERMITTED AT THE SITE.

AREAS USED FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME OR CONCRETE SHALL BE DESIGNATED ON THE SITE IN AREAS AWAY FROM WATERCOURSES, DITCHES, OR OTHER STORM DRAIN INLETS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORMWATER RUNOFF. UNTREATED

SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFF OF SITE WITHOUT BEING DIRECTED THROUGH A CONTROL FEATURE. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS; AFTER SOLIDIFYING, THESE WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.

CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714. MATERIALS CONTAINING ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (OHIO ADMINISTRATIVE CODE 3745-20).

ALL BRICKS, CONCRETE, AND SOIL WASTE TO REMAIN ON SITE MUST BE FREE FROM CONTAMINATION THAT MAY LEACH CONSTITUENTS TO THE WATERS OF THE STATE.

AN AREA ON THE SITE SHALL BE DESIGNATED FOR RECEIVING CONCRETE CHUTE OR OTHER CONCRETE WASH WATERS. THE AREA SHALL BE BELOW EXISTING GRADE AND SHALL NOT BE LOCATED NEAR WATERCOURSES, DITCHES OR OTHER STORM DRAIN INLETS.

DUST SUPPRESSION OPERATIONS SHALL BE PERFORMED BY MEANS OF A WATER TRUCK DISTRIBUTING A FINE MIST OF WATER ON THE SITE SURFACE. CONCENTRATED STREAMS OF WATER SPRAY SHOULD BE AVOIDED. DO NOT APPLY THE DUST SUPPRESSANT DIRECTLY TO WATER COURSES OR STORM DRAIN INLETS. USED OIL MAY NOT BE USED AS A DUST SUPPRESSANT.

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS OF ALL PUBLIC STREETS, ROADS, AND PARKING LOTS USED BY THE CONTRACTOR.

STORMWATER POLLUTION PREVENTION MEASURES AND PRACTICES NOTES
SILT AND SEDIMENT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM, WATERWAYS (NATURAL OR MAN-MADE) OR ADJACENT PUBLIC OR PRIVATE PROPERTY. CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS OR WATERWAYS (NATURAL OR MAN-MADE) SHALL REQUIRE EROSION CONTROL MEASURES – SUCH AS SILT FENCE AND PRE-APPROVED INLET PROTECTION – TO PREVENT SILT FROM ENTERING THE STORM DRAIN, WATERWAYS (NATURAL OR MAN-MADE) OR ADJACENT PUBLIC OR PRIVATE PROPERTY. THIS INCLUDES EFFLUENT GENERATED FROM GENERAL DEWATERING OPERATIONS AND/OR TRENCH DEWATERING WORK.

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP), ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. STRAW WATTLES MUST BE A MINIMUM OF 12 INCHES IN DIAMETER.

THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS STORMWATER POLLUTION PREVENTION PLANS AND CONSTRUCTION SITES. COMPOST ROLLS MUST BE A MINIMUM OF 12 INCHES IN DIAMETER.

BACKFILL TRENCHES IMMEDIATELY AFTER INSTALLATION AND TESTING ARE COMPLETED. STABILIZE ANY DISTURBED AREA WITHIN 2 WEEKS AFTER AREA OR SECTION HAS BEEN OPENED.

TIMING OF SEDIMENT TRAPPING PRACTICES – SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITIES. SETTLING FACILITIES, 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 EARTH DISTURBING ACTIVITIES. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP-SLOPE DEVELOPMENT AREA IS RE-STABILIZED.

WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED DUE TO UNSUITABLE CONDITIONS CAUSED BY THE WEATHER, STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE AFTER CONDITIONS BECOME SUITABLE.

STABILIZATION OF DENUDED AREAS – ALL DENUDED AREAS, INCLUDING STOCKPILED TOPSOIL AND EXCAVATED MATERIAL, ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY OR PERMANENT STABILIZATION. SEE TABLES 1 AND 2 ON THIS SHEET FOR MORE INFORMATION. THE LIMITS OF PERMANENT RESTORATION ARE AS SHOWN ON THE PLAN.

SEDIMENT BARRIERS – SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE FILTERED OR DIVERTED TO A SETTLING FACILITY.

STORM SEWER INLET PROTECTION: ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT 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. THE COVERS SHALL BE CHECKED PERIODICALLY AND CLEANED WHENEVER THEY FAIL TO FILTER RUNOFF. STRAW BALES ARE NOT APPROVED FOR ANY INLET PROTECTION.

DEWATERING OPERATIONS – CONCENTRATED SEDIMENT-LADEN STORM WATER RUNOFF FROM DENUDED AREAS AND DEWATERING EFFLUENT FROM WELL POINT AND TRENCH DEWATERING OPERATIONS, SHALL PASS THROUGH A SEDIMENT AND EROSION CONTROL DEVICE. EXCEPT AS NOTED IN THIS SECTION, ALL TRENCH DEWATERING EFFLUENT MUST BE DISCHARGED THROUGH A SEDIMENT AND EROSION CONTROL DEVICE BEFORE BEING DISCHARGED TO A STREAM OR STORM

DRAIN. NO TRENCH DEWATERING EFFLUENT LINES SHALL BE PLACED ON OR ACROSS ANY PUBLIC HIGHWAYS, STREET OR ROAD, NOR ACROSS ANY PRIVATE STREET, ROAD OR ACCESS DRIVE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC DURING TRENCH DEWATERING.

THE FINAL AND MOST APPROPRIATE LOCATION FOR SEDIMENT FILTERING BARRIERS SHALL BE APPROVED BY THE OWNER, BASED UPON SITE CONDITIONS AND OBSERVED TOPOGRAPHY. PROPER IMPLEMENTATION, INSTALLATION, MAINTENANCE AND REPAIR OF SEDIMENT FILTERING BARRIERS AND SEDIMENT BASINS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE PLACEMENT OF SILT BARRIERS SHALL BE AT THE EDGE OF THE DISTURBANCE. DO NOT REMOVE TREES OR EXISTING VEGETATION TO INSTALL SILT FENCE, UNLESS OTHERWISE APPROVED.

ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE(S). THE CONTRACTOR SHALL INSTRUCT ALL VEHICLE DRIVERS LEAVING THE SITE TO CLEAN SOIL, DEBRIS OR OTHER MATERIAL SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS OR SIDEWALKS DURING TRANSIT TO AND FROM THE SITE. MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO PUBLIC ROADS OR ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRUCKING OR SEDIMENT BY VEHICLES AND EQUIPMENT IS ELIMINATED.

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 OWNER. 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.

CUT AND FILL SLOPES: CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. CONSIDERATION SHALL BE GIVEN TO THE LENGTH AND STEEPNESS OF THE SLOPE, SOIL TYPE, UPSLOPE DRAINAGE AREA, GROUNDWATER CONDITIONS, AND SLOPE STABILIZATION.

ESTABLISHMENT OF PERMANENT VEGETATION – A PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE OWNER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

PAVEMENT CUTTING OPERATIONS
PURSUANT TO PHASE II REGULATIONS OF THE NPDES AMENDMENT TO THE CLEAN WATER ACT OF THE UNITED STATES OF AMERICA, ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT OUR ENVIRONMENT FROM THE DIMINUTIVE DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS.

THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF PARTICLES, POLLUTED WATERS, OR OTHER SUCH SMALL DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING RUNOFF OF SAID DIMINUTIVE DISCHARGES. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV'S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP THE SMALL DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ADDITIONALLY, WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS AND ENVIRONMENTAL PROTECTIVE MEASURES, TO PREVENT DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEMS AND WATERCOURSES. ALL PAY AND WORK ITEMS WITH PAVEMENT CUTTING, SAWING, OR EXCAVATION SHALL ABIDE BY THIS NOTE.

MOREOVER, IF PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDE A STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR A SPILL PREVENTION/REMEDIATION PLAN; SUCH PLANS SHALL BE ADHERED TO IN ADDITION TO THIS NOTE FOR ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS.

MAINTENANCE AND INSPECTION

ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND REPAIR (AS NEEDED) THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT.

THE SITE SHALL BE INSPECTED BY THE CONTRACTOR, IN THE PRESENCE OF THE OWNER, AT A MINIMUM OF ONCE PER EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5 INCH 24 HR. RAINFALL EVENT OR GREATER. INSPECTIONS SHALL BE PERFORMED AS PRESCRIBED IN THE NPDES PERMIT. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORM WATER 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 OWNER 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 SWP3, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, IDENTIFYING ANY INCIDENTS OF NON-COMPLIANCE, AND DOCUMENTING THE REMEDIES IMPLEMENTED TO CORRECT DEFICIENCIES. RECORDS OF THESE INSPECTIONS SHALL BE KEPT ON SITE AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED.

GENERAL RESTORATION NOTES

FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES, RESTORATION OF THE WORK SITE SHALL TAKE PLACE. ALL CONSTRUCTION DEBRIS AND CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. FINAL GRADING SHALL BE GOVERNED BY EXISTING ELEVATIONS. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

REMOVE FENCE POSTS AND TEMPORARY FENCING INSTALLED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE, AFTER ALL CONSTRUCTION, EXCLUDING RESTORATION, IS COMPLETE AND ACCEPTED BY THE ENGINEER.

ALL LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE PRECONSTRUCTION CONDITIONS. SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.

TOPSOIL SHALL BE CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FREE OF ANY ADMIXTURE OF SUBSOIL, CLOUDS OF HARD EARTH, PLANTS OR ROOTS, STICKS, OR OTHER EXTRANEEOUS MATERIAL HARMFUL TO PLANT GROWTH.

THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FINAL STABILIZATION OF THE SITE CONTAINED IN APPLICABLE NPDES CONSTRUCTION STORMWATER PERMITS FOR THE SITE.

SOIL STABILIZATION

STABILIZATION OF DISTURBED AREAS SHALL, AT A MINIMUM, BE INITIATED IN ACCORDANCE WITH THE TIME FRAMES SPECIFIED IN THE FOLLOWING TABLES.

TABLE 1: PERMANENT STABILIZATION

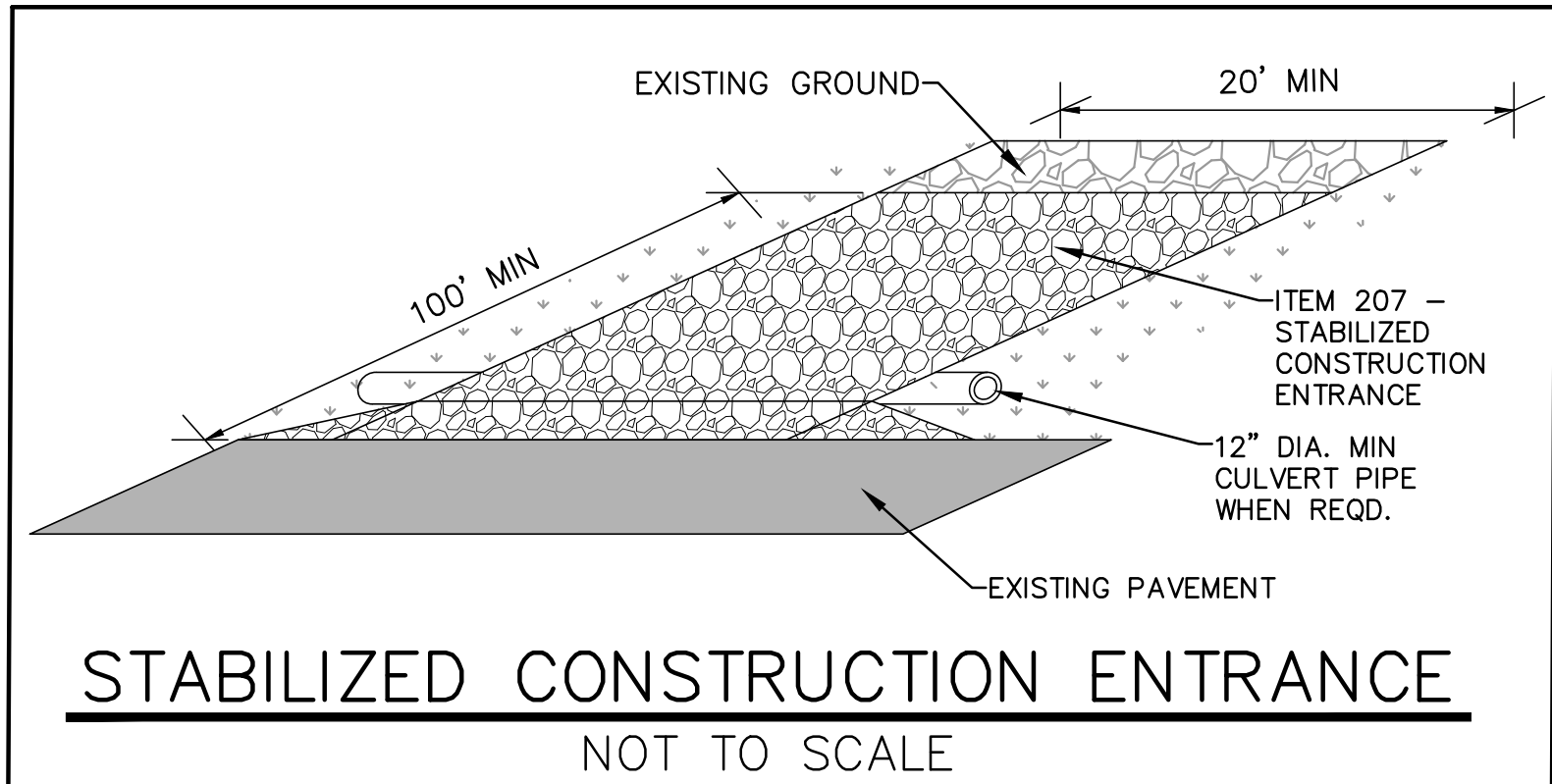
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TABLE 2: TEMPORARY STABILIZATION

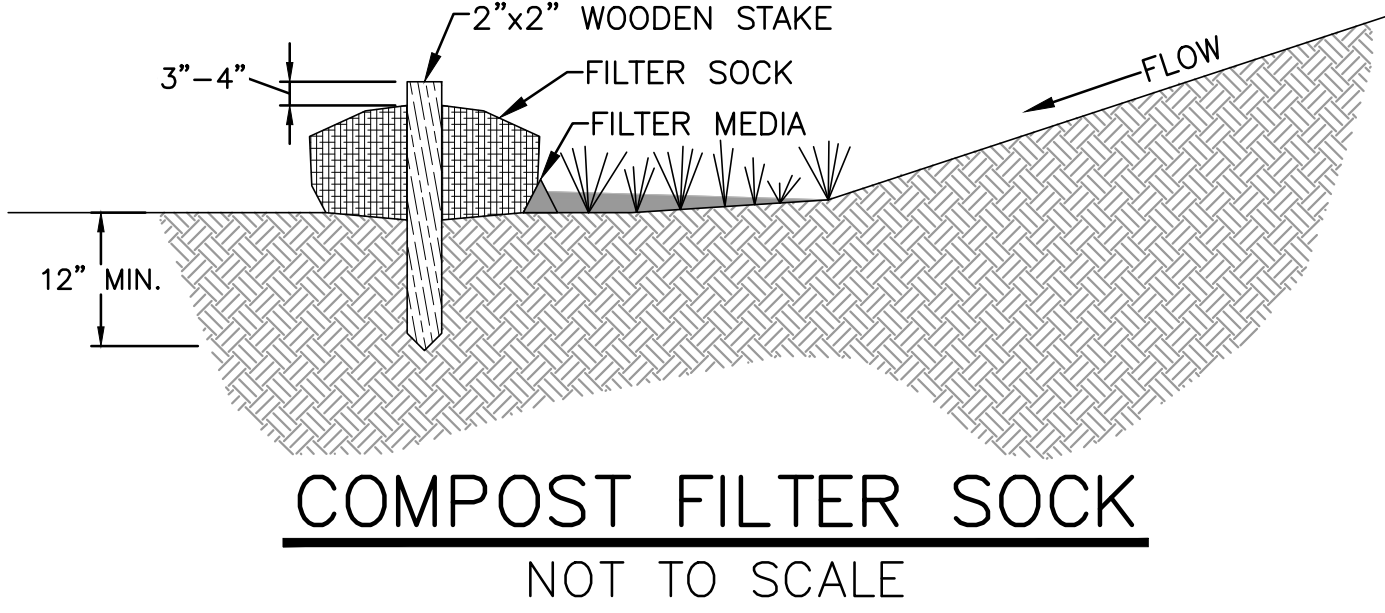
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.

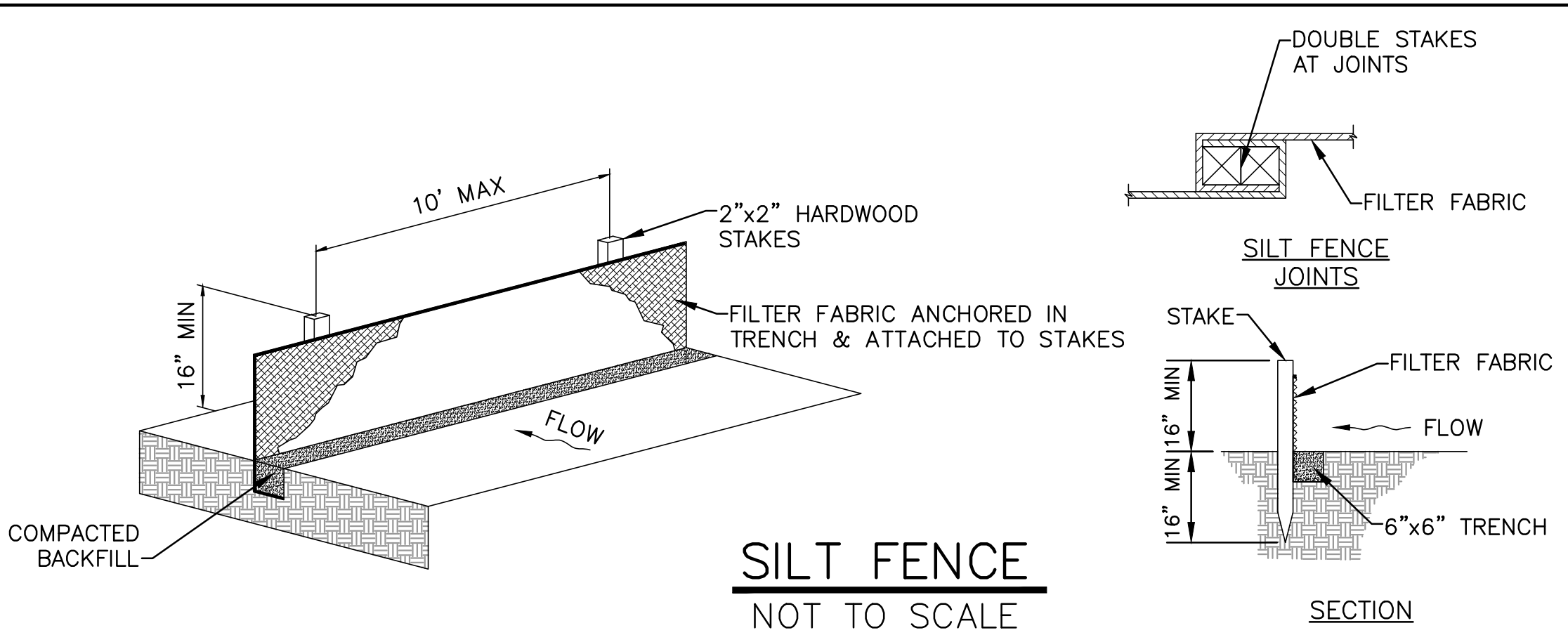
SWPPP GENERAL NOTES



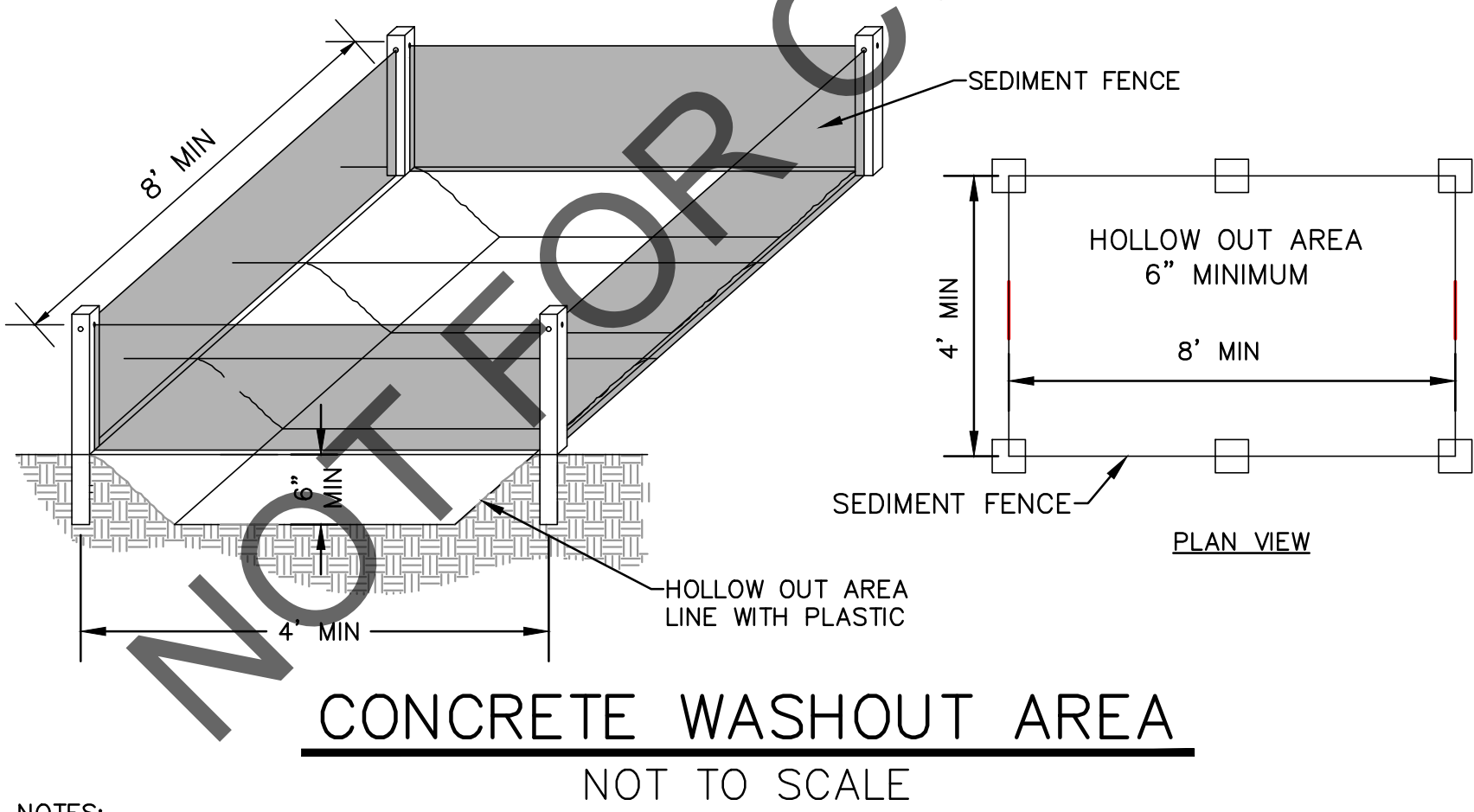
- NOTES:**
- STONE SIZE – USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH – SHALL BE A LENGTH REQUIRED TO KEEP SEDIMENT OFF ROADWAY, BUT MAY BE LONGER AS DETERMINED BY THE CITY OF COLUMBUS.
 - THICKNESS – NOT LESS THAN SIX (6) INCHES.
 - WIDTH – TWENTY (20) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. MAY BE WIDER AS DETERMINED BY THE CITY OF COLUMBUS.
 - FLARES OR RADII SHALL BE INSTALLED AT THE ENTRANCE IF THE PUBLIC ROADWAY SPEEDS AND/OR TRAFFIC CONDITIONS WARRANT IT, OR IF DIRECTED BY C.O.C. PERSONNEL.
 - FILTER FABRIC – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
 - SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE PERMITTED.
 - CULVERT PIPE – 12" MINIMUM PIPE IS REQUIRED IF A STORM DITCH OR SWALE EXISTS AT THE PROPOSED ENTRANCE. THE CULVERT PIPE INVERTS SHALL MATCH THE EXISTING DITCH AT BOTH SIDES OF THE ENTRANCE.
 - MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PROTECT THE 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 RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
 - MAINTENANCE OF TRAFFIC SIGNAGE SHALL BE A 48"x48" CONTSTRUCTION ENTRANCE AHEAD, 200' (ADEQUATE SIGHT DISTANCE SHALL BE CONSIDERED) BEFORE THE ENTRANCE ON BOTH SIDES OF THE ROAD OR AS APPROVED BY THE C.O.C. TEMPORARY TRAFFIC CONTROL COORDINATOR. CONTRACTOR SHALL CALL THE TTCC AT 614.645.7393 BEFORE STARTING THE ENTRANCE WORK.
 - PLEASE SEE C.O.C. STANDARD CONSTRUCTION DRAWING 2230 FOR MORE INFORMATION.



- NOTES:**
- MATERIALS:**
- COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
 - FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
 - STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER (OEPA).
- INSTALLATION:**
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.
 - UPON INSTALLATION OF THE FILTER SOCK, ADDITIONAL FILTER MEDIA (MATCHING THE MEDIA INSIDE OF THE SOCK) SHALL BE PLACED ON THE UPLAND SIDE OF THE FILTER SOCK. FILTER MEDIA SHALL EXTEND HALFWAY UP THE SOCK AND SLOPE AT A MAXIMUM OF 45 DEGREES TO EXISTING GROUND ELEVATION.
 - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
 - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- MAINTENANCE:**
- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
 - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
 - REMOVAL – FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

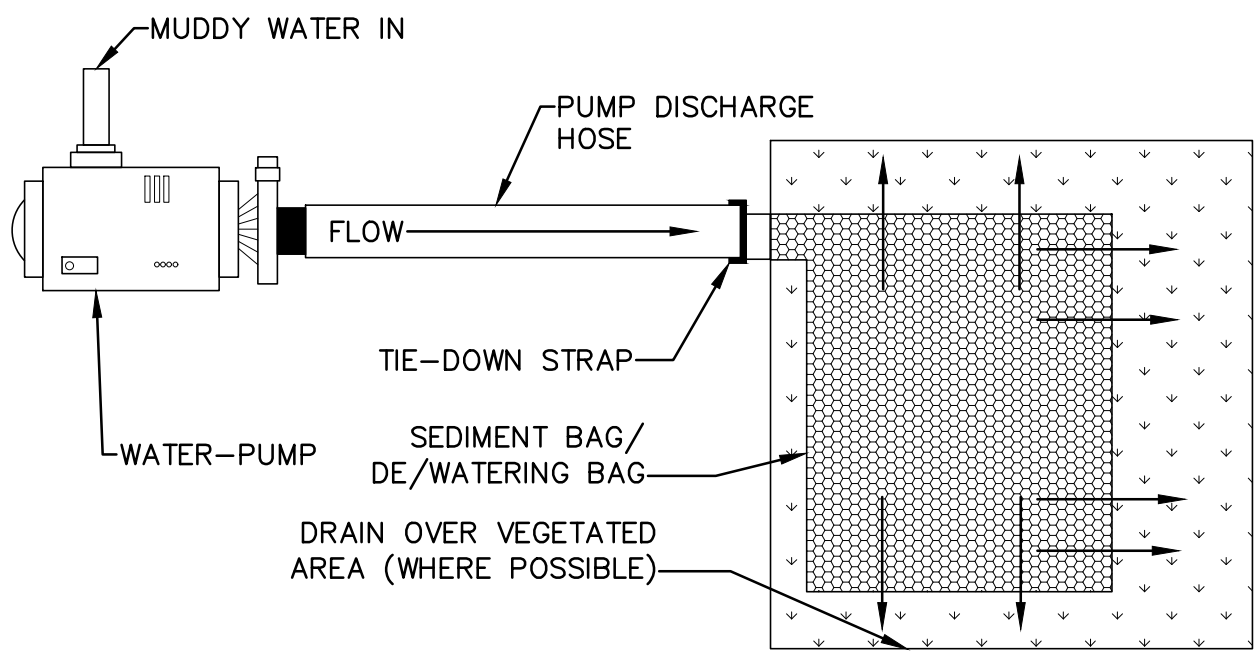


- NOTES:**
- ALL SILT FENCE SHALL BE PLACED ON THE CONTOUR (LEVEL) SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
 - ENDS OF THE FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT PONDED WATER WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
 - SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS OF INSTALLATION.
 - THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE, WHICH WILL ENSURE A UNIFORM TRENCH DEPTH.
 - THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8" OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
 - SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL BE SPLICED ONLY AT A SUPPORT STAKE. (SEE JOINT DETAIL)
 - MAINTENANCE – SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSED FLOW THROUGH THE GEOTEXTILE. IF RUNOFF FLOWS OVER OR UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AT A MINIMUM.
 - SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE FENCE. FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE FENCE SHALL BE REPAIRED IMMEDIATELY.
 - SILT FENCE MATERIALS:
 - STAKES – TO BE 2"x2" (NOMINAL) HARDWOOD OF SOUND QUALITY WITH A MINIMUM LENGTH OF 32". THEY SHALL BE FREE OF KNOTS, SPLITS OR OTHER IMPERFECTIONS, WHICH MAY WEAKEN THEM. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10'. POSTS SHALL BE DRIVEN A MINIMUM 16" INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE STAKES SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
 - FILTER FABRIC – PER CMSC ITEM 712.09 TYPE C
 - THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
 - THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.



- NOTES:**
- CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
 - THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
 - THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT.

- NOTES:**
- THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OHIO EPA AND CITY OF COLUMBUS REGULATIONS.
 - ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.
 - DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS. REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM, SEDIMENT BAGS MUST BE PROPOERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL OF A TYPICAL SEDIMENT BAG INSTALLATION.

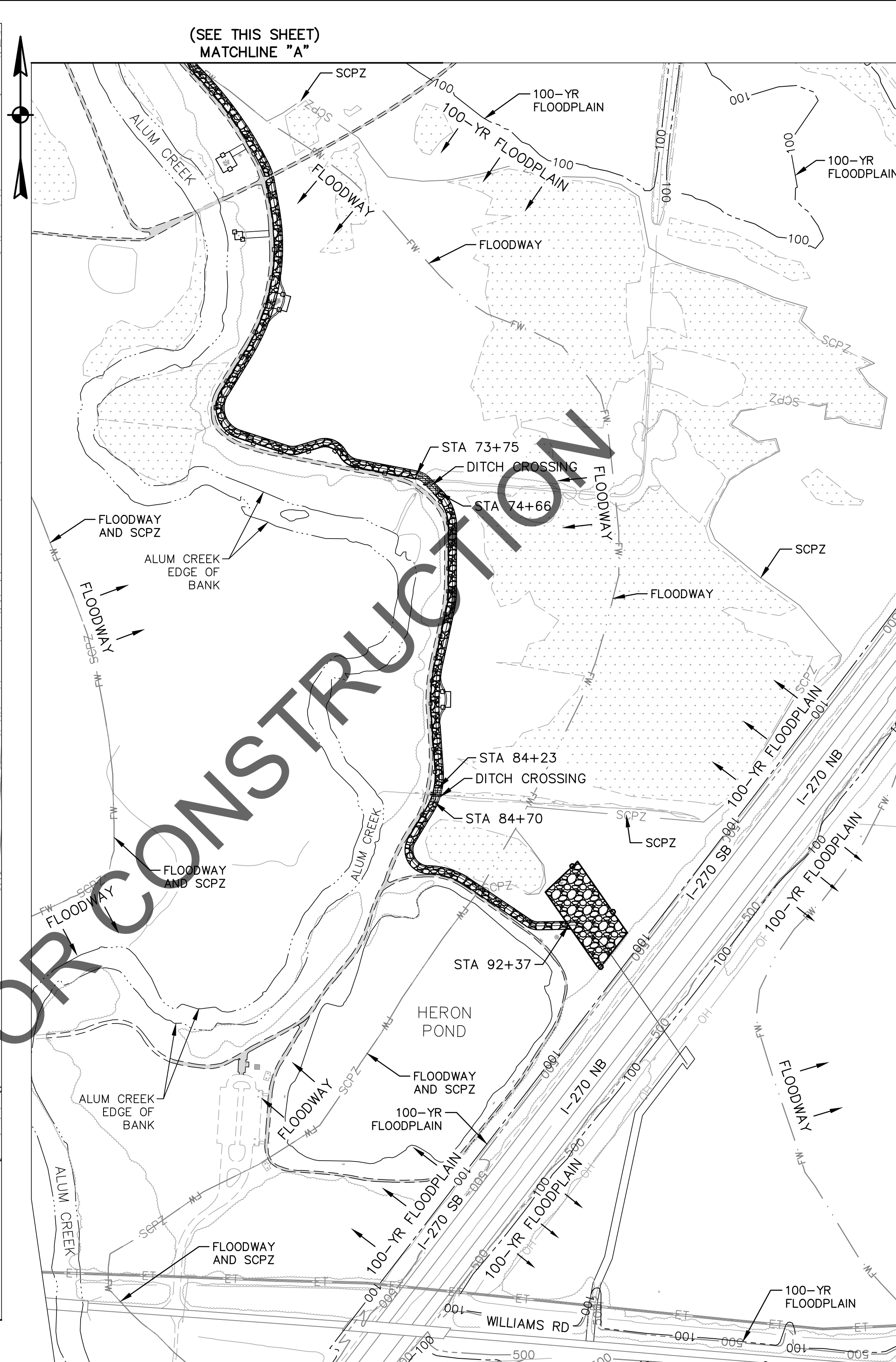
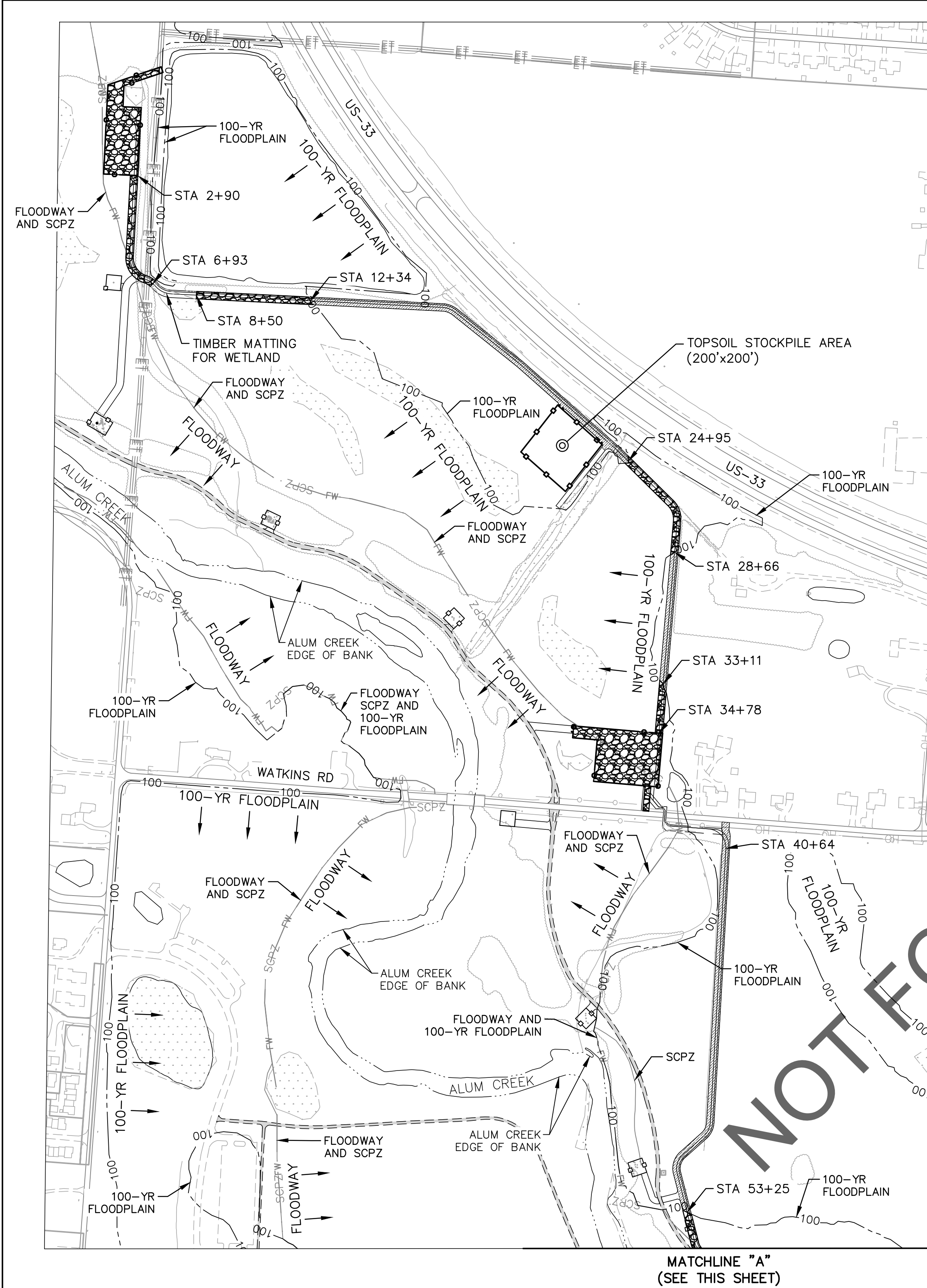


SUGGESTED DISCHARGE SET-UP FOR PUMPING MUDDY WATER

NOT TO SCALE

EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>				
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID				
	VOL.	PAGE						SCALE:	SHEET: 50 OF 70			
								AGREEMENT		COMPLETED		
								RPD	CKD	CLD	CON. DR.	
							INDEX DETAIL		RECORD FILE			
SWPPP DETAILS							CONTRACT DRAWING NO. CC-18773				RECORD PLAN NO.	

X:\Projects\2013\1321\601200 COC Eng DOSD-ACT\5000 - Detailed Design\CADD\SHEETS\RESTORATION PLAN.dwg 11/14/2022 2:18:31 PM Aaron Mitchell, PE PLOTTED: 1/23/2024 11:56:07 AM



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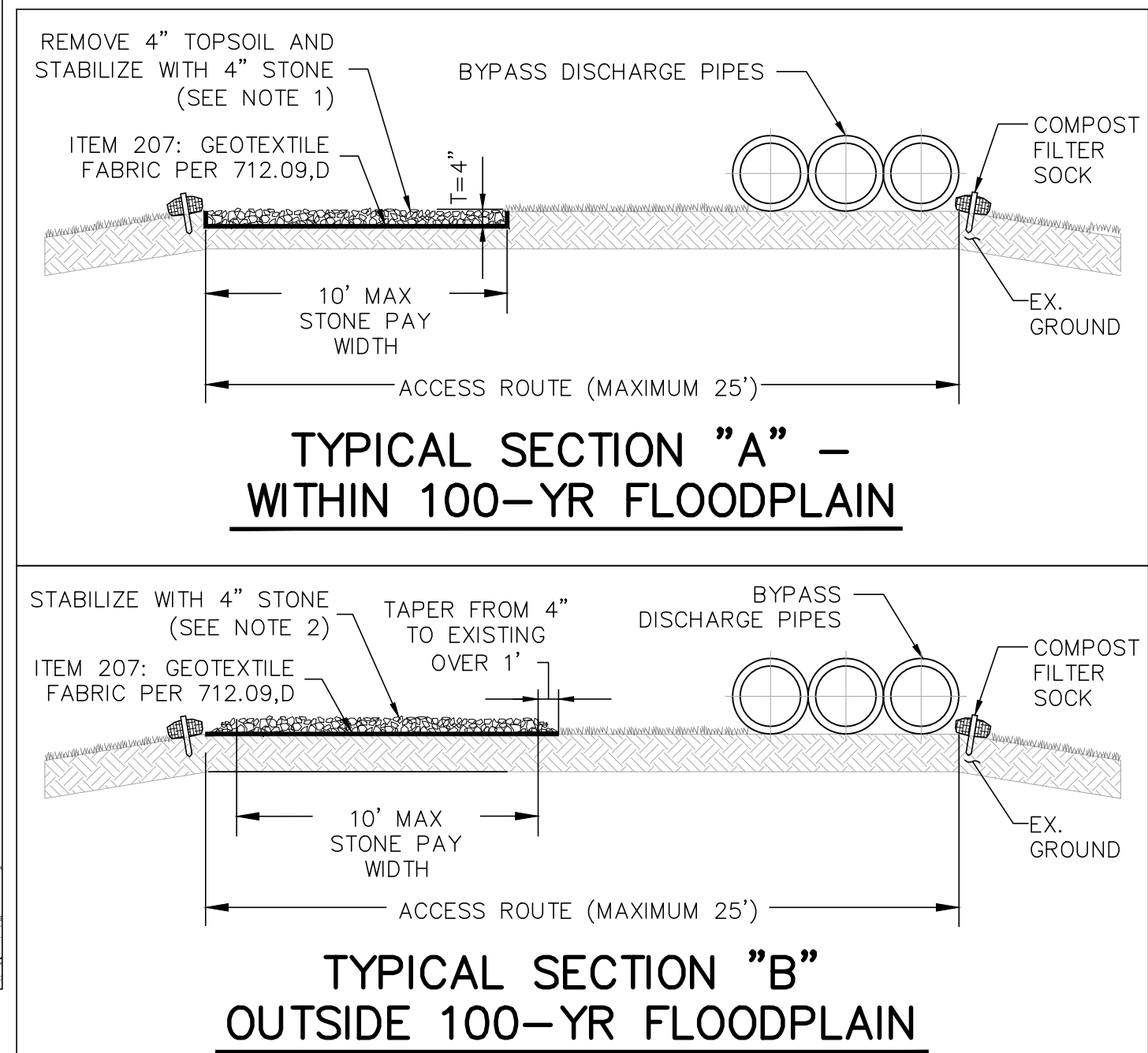
1. DUE TO BEING WITHIN THE 100-YR FLOODPLAIN, THE FOLLOWING AREAS REQUIRE THE REMOVAL OF 4" OF TOPSOIL, HAULING TO STOCKPILE AREA, AND REPLACED WITH 4" OF STONE STABILIZATION. SEE TYPICAL SECTION "A" FOR MAXIMUM PAY LIMITS ALONG THE 25' (MAX) ACCESS ROUTE.

SITE	SQUARE FEET	CUBIC YARDS
NORTHERN LAYDOWN AND WORK AREA	33,436	413
10' WIDE ACCESS PATH (2+90-6+93)	4,030	50
10' WIDE ACCESS PATH (8+50-12+34)	3,840	48
10' WIDE ACCESS PATH (24+95-28+66)	3,710	46
10' WIDE ACCESS PATH (33+11-34+78)	1,670	21
WATKINS RD LAYDOWN SITE AND ENTRANCE	44,540	550
10' WIDE ACCESS PATH (53+25-73+75)	20,500	253
10' WIDE ACCESS PATH (74+66-84+23)	9,570	118
10' WIDE ACCESS PATH (84+70-92+37)	7,670	95
SOUTHERN LAYDOWN AND WORK AREA	40,223	497
TOTAL	169,189	2,091

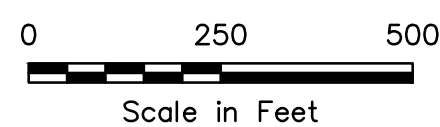
2. WHERE OUTSIDE THE 100-YR FLOODPLAIN, THE ACCESS ROUTE SHALL REQUIRE 4" OF STONE STABILIZATION AND DOES NOT REQUIRE THE REMOVAL OF 4" OF TOPSOIL PRIOR TO PLACEMENT. SEE TYPICAL SECTION "B" FOR MAXIMUM PAY LIMITS ALONG THE 25' (MAX) ACCESS ROUTE.

SITE	SQUARE FEET	CUBIC YARDS
10' WIDE ACCESS PATH (12+34-24+95)	12,610	156
10' WIDE ACCESS PATH (28+66-33+11)	4,450	55
WATKINS RD CONSTRUCTION ENTRANCE (S)	2,500	31
10' WIDE ACCESS PATH (40+64-53+25)	12,610	156
TOTAL	32,170	398

- STONE STABILIZATION WITH 4" TOPSOIL REMOVAL (SEE NOTE 1)
- STONE STABILIZATION WITHOUT TOPSOIL REMOVAL (SEE NOTE 2)



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				



ACCESS PATH & LAYDOWN SITES
STONE STABILIZATION PLAN

PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION - PHASE 1 CIP NO. 650725-100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY	
CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID	
		CONTRACTOR		SCALE:	
		INSPECTOR		SHEET: 51 OF 70	
		AGREEMENT	COMPLETED	CONTRACT DRAWING NO. CC-18773	
		RPD	CKD	CLD	CON. DR.
		INDEX DETAIL		RECORD FILE	
				RECORD PLAN NO.	

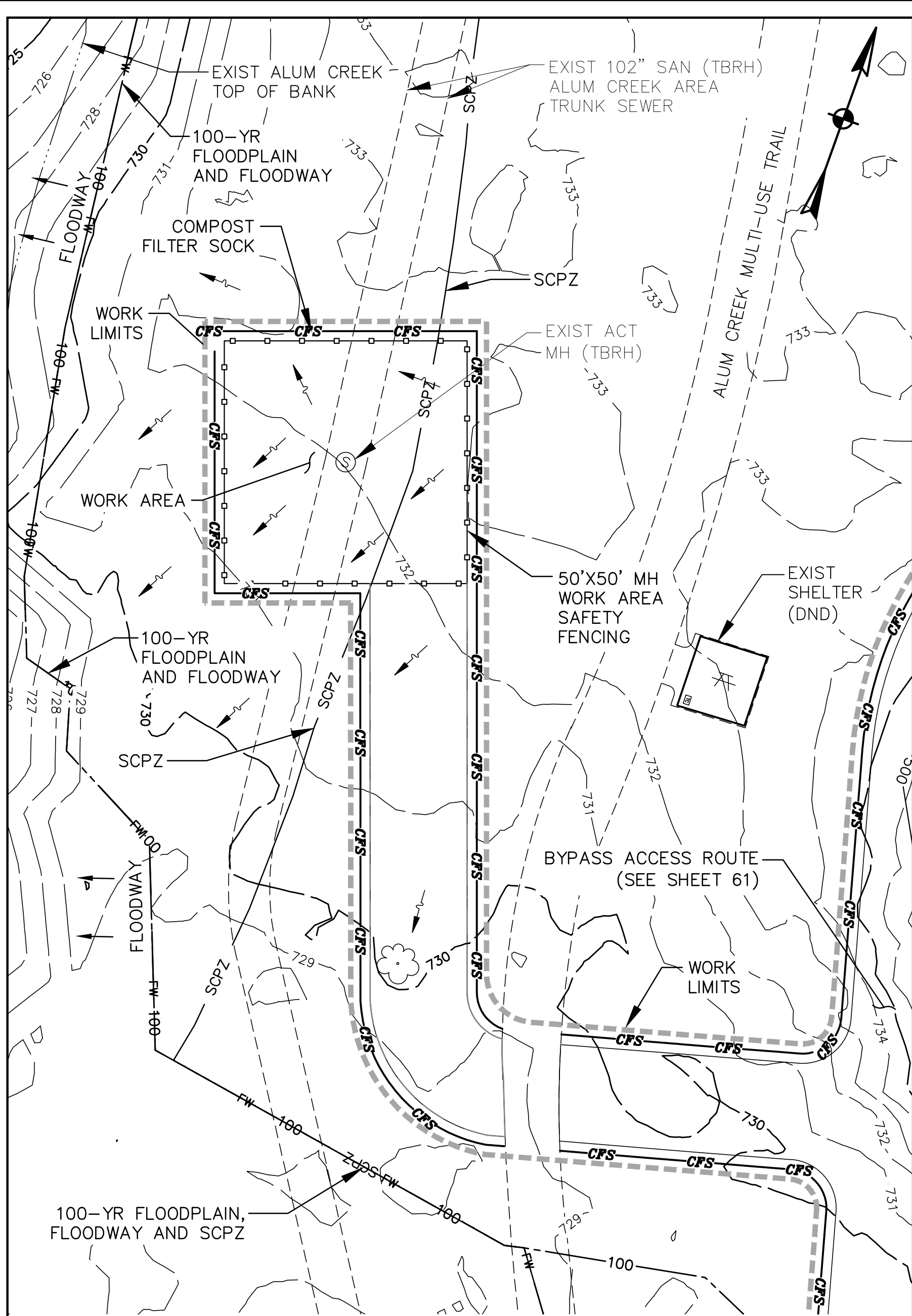


1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.
3. THE CONTRACTOR SHALL STABILIZE THE ACCESS ROUTE AS NECESSARY FOR CONSTRUCTION OPERATIONS. THE STABILIZED ACCESS ROUTE AS SHOWN REPRESENTS THE MAXIMUM LIMITS OF CONSTRUCTION (25'-FT.). THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND REMOVE THE STABILIZED ACCESS DRIVE UNDER THE VARIOUS PAY ITEMS WITHIN THE CONTRACT.

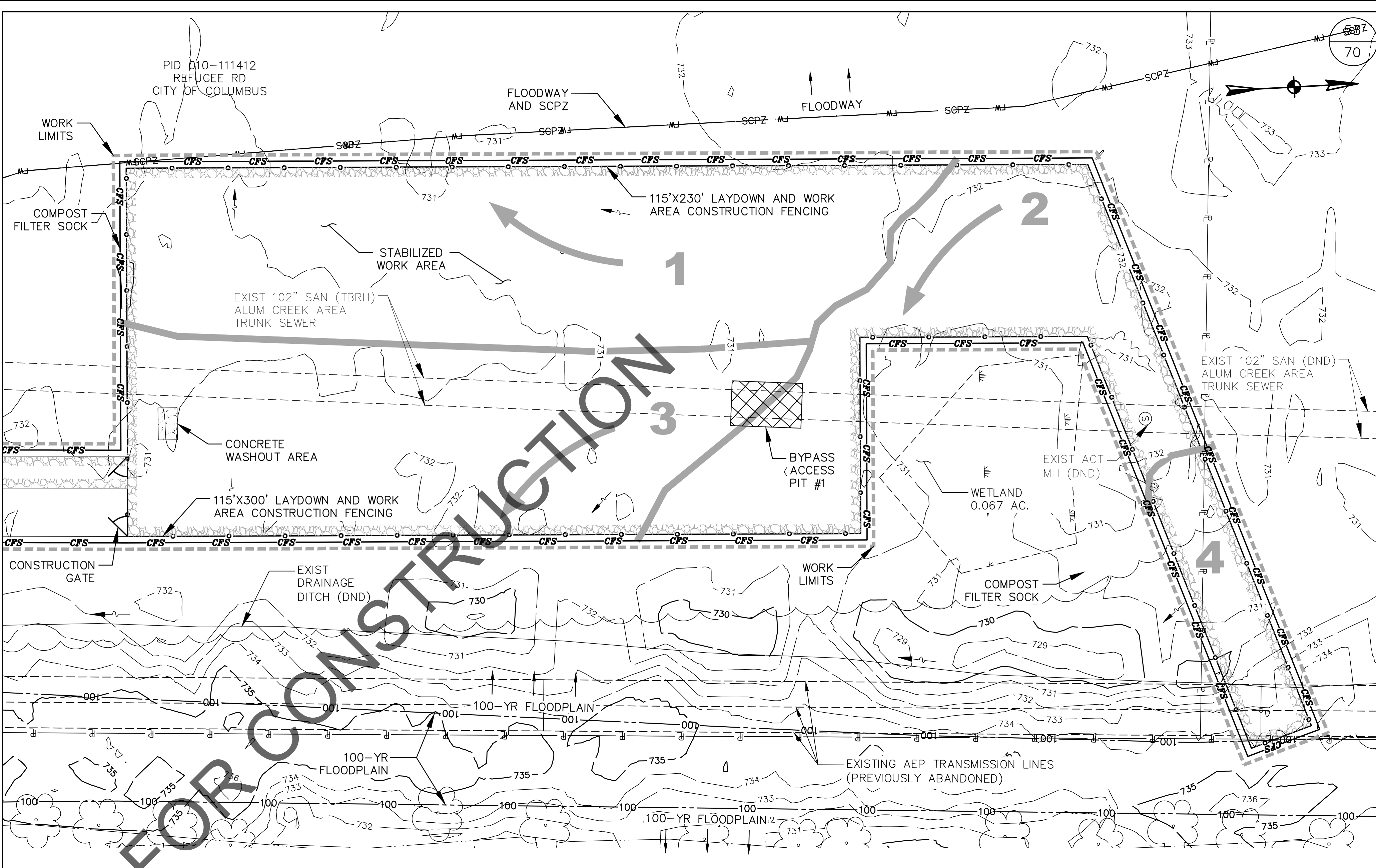
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SCALE IN FEET

EASEMENT REFERENCE				REVISIONS			CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>							
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE								
	VOL.	PAGE												
OVERALL SWPPP MAP							PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
							CITY OF COLUMBUS		OWNER					
									CONTRACTOR					
									INSPECTOR					
									AGREEMENT	COMPLETED				
		RPD	CKD	CLD	CON. DR.	SCALE: AS NOTED		SHEET: 52 OF 70						
		INDEX DETAIL		RECORD FILE		CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.						



APPROXIMATE DISTURBED AREA							
MANHOLE	ACREAGE	SLOPE LENGTH	SLOPE GRADE	MANHOLE	ACREAGE	SLOPE LENGTH	SLOPE GRADE
0100S0010	0.057	70'	0.84% (< 2%)	0101S0028	0.057	70'	4.29% (2-10%)
0101S0018	0.080	86'	0.40% (< 2%)	0101S0029	0.057	70'	2.29% (2-10%)
0101S0019	0.057	70'	0.74% (< 2%)	0101S0030	0.057	70'	0.59% (< 2%)
0101S0020	0.057	70'	1.14% (< 2%)	0101S0032	0.057	70'	2.67% (2-10%)
0101S0027	0.057	70'	4.50% (2-10%)	0145S0002	0.057	70'	0.75% (< 2%)
TOTAL					0.593		



GENERAL NOTES:

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- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.

- DRAINAGE SUB-BASIN

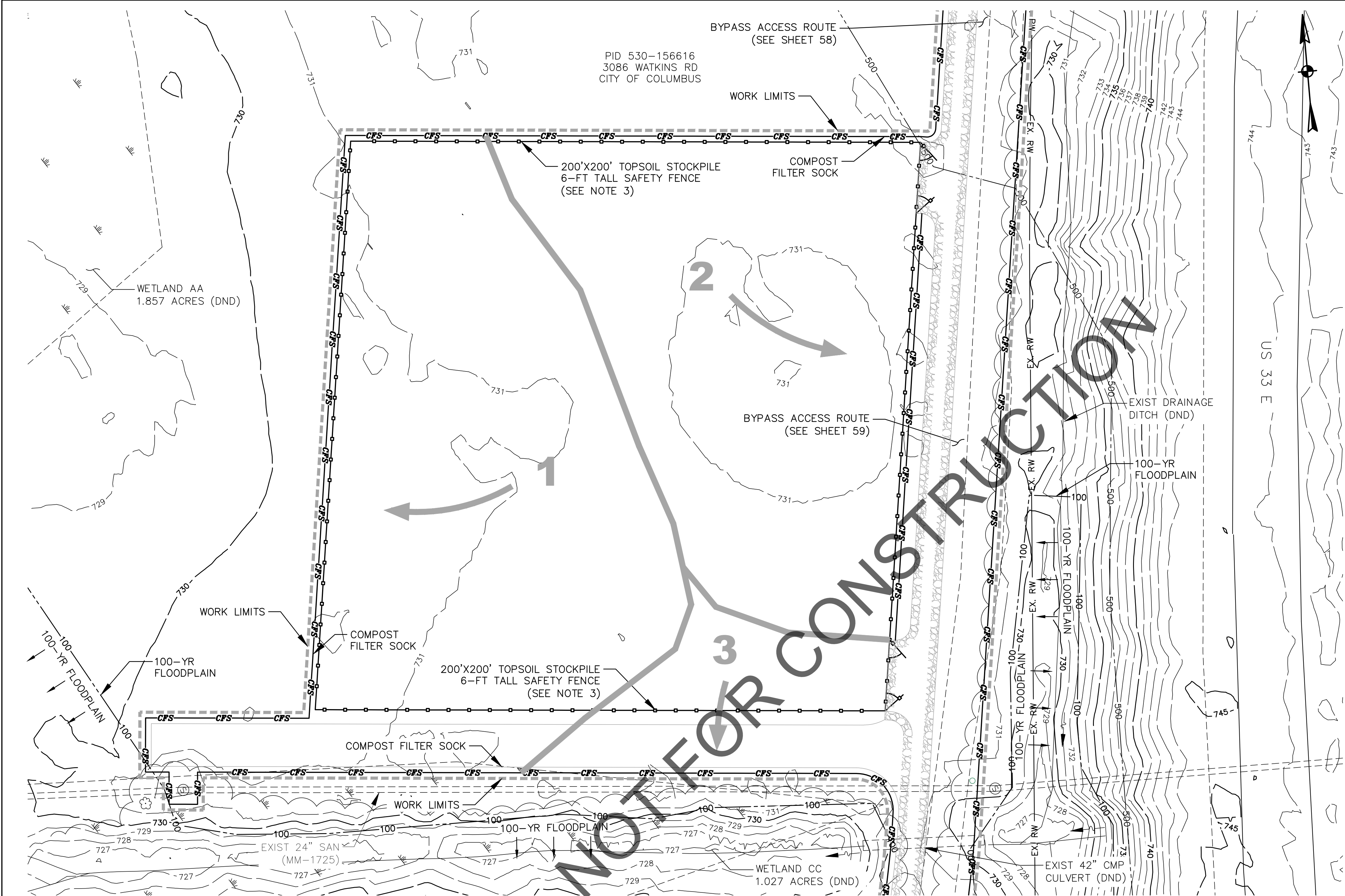
SUB-BASIN	ACREAGE	SLOPE LENGTH	SLOPE GRADE
1	0.314	223'	0.10% (< 2%)
2	0.241	186'	0.32% (< 2%)
3	0.187	225'	0.08% (< 2%)
4	0.052	24'	4.34% (2-10%)
TOTAL	0.794		

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

SWPPP NORTHERN LAYDOWN SITE DETAILS

PROJECT TITLE:					CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY				
ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004									
CITY OF COLUMBUS			OWNER		ISSUED STATUS: BID				
			CONTRACTOR						
			INSPECTOR		SCALE: AS NOTED		SHEET: 53 OF 70		
			AGREEMENT	COMPLETED					
			RPD	CKD	CLD	CON. DR.		RECORD PLAN NO.	
			INDEX DETAIL		RECORD FILE				
					CONTRACT DRAWING NO. CC-18773				

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WATKINS LAYDOWN AREA S&EC
SCALE 1"=20'

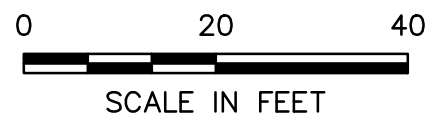
APPROXIMATE DISTURBED AREA

SUB-BASIN	ACREAGE	SLOPE LENGTH	SLOPE GRADE
1	0.512	135'	1.38% (< 2%)
2	0.393	228'	2.21% (2-10%)
3	0.094	75'	1.82% (< 2%)
TOTAL	0.999		

GENERAL NOTES:

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- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.
- CONTRACTOR TO INSTALL 6-FT ULINE - SAFETY FENCE MODEL 2-24120RG (ORANGE) FENCING AND POSTS (OR APPROVED EQUAL).

- DRAINAGE SUB-BASIN

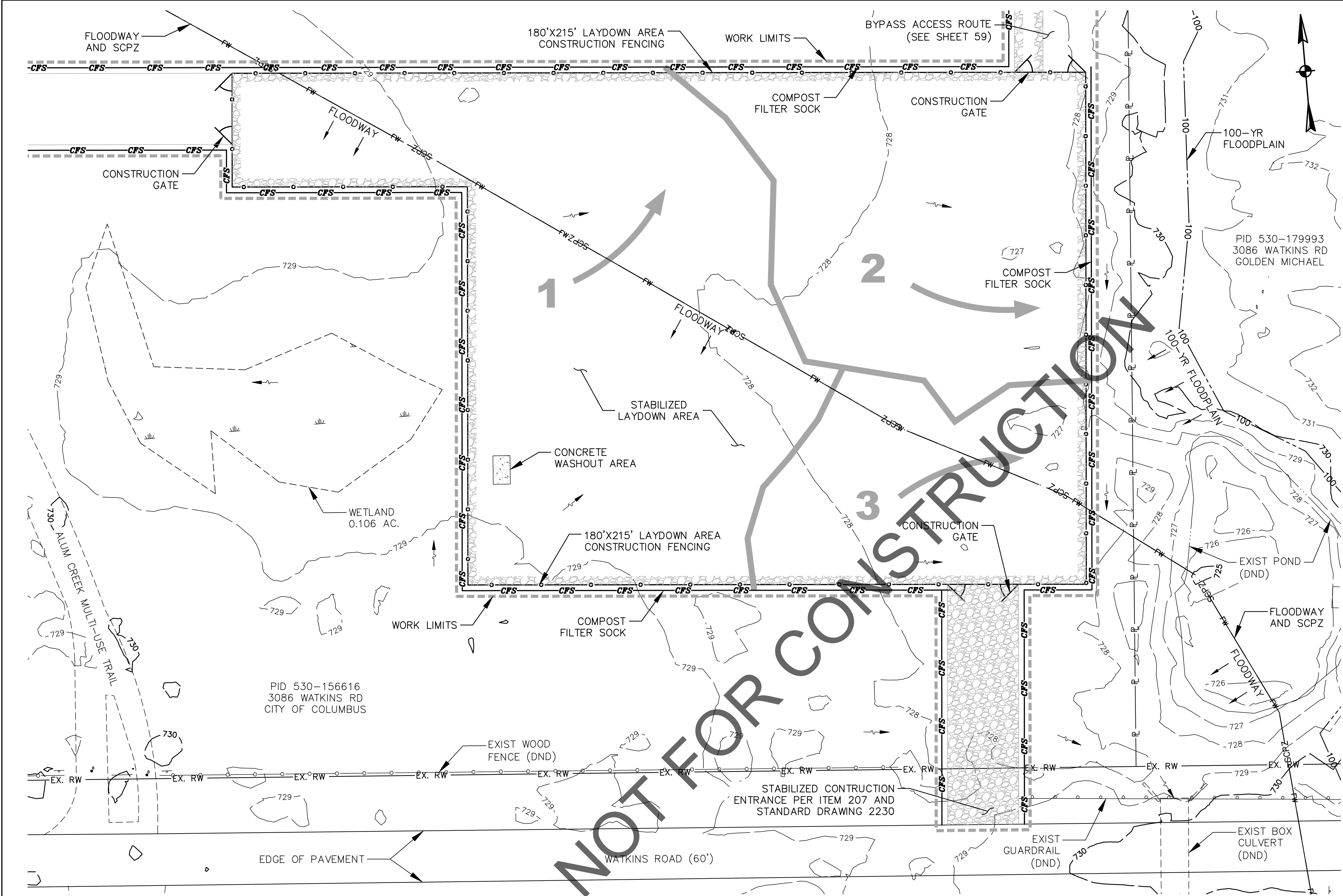


EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
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								CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	
							CITY OF COLUMBUS		OWNER		
									CONTRACTOR		
									INSPECTOR		
									AGREEMENT	COMPLETED	
									RPD	CKD	
									CLD	CON. DR.	
									INDEX DETAIL	RECORD FILE	

SWPPP TOPSOIL STOCKPILE
SITE DETAILS

SWPPP TOPSOIL STOCKPILE
SITE DETAILS

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WATKINS LAYDOWN AREA S&EC
SCALE 1"=20'

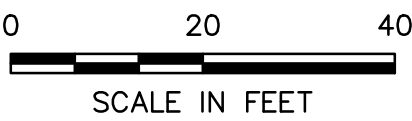
APPROXIMATE DISTURBED AREA

SUB-BASIN	ACREAGE	SLOPE LENGTH	SLOPE GRADE
1	0.530	195'	0.68% (< 2%)
2	0.286	182'	0.58% (< 2%)
3	0.180	140'	0.62% (< 2%)
TOTAL	0.996		

GENERAL NOTES:

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- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.

- DRAINAGE SUB-BASIN

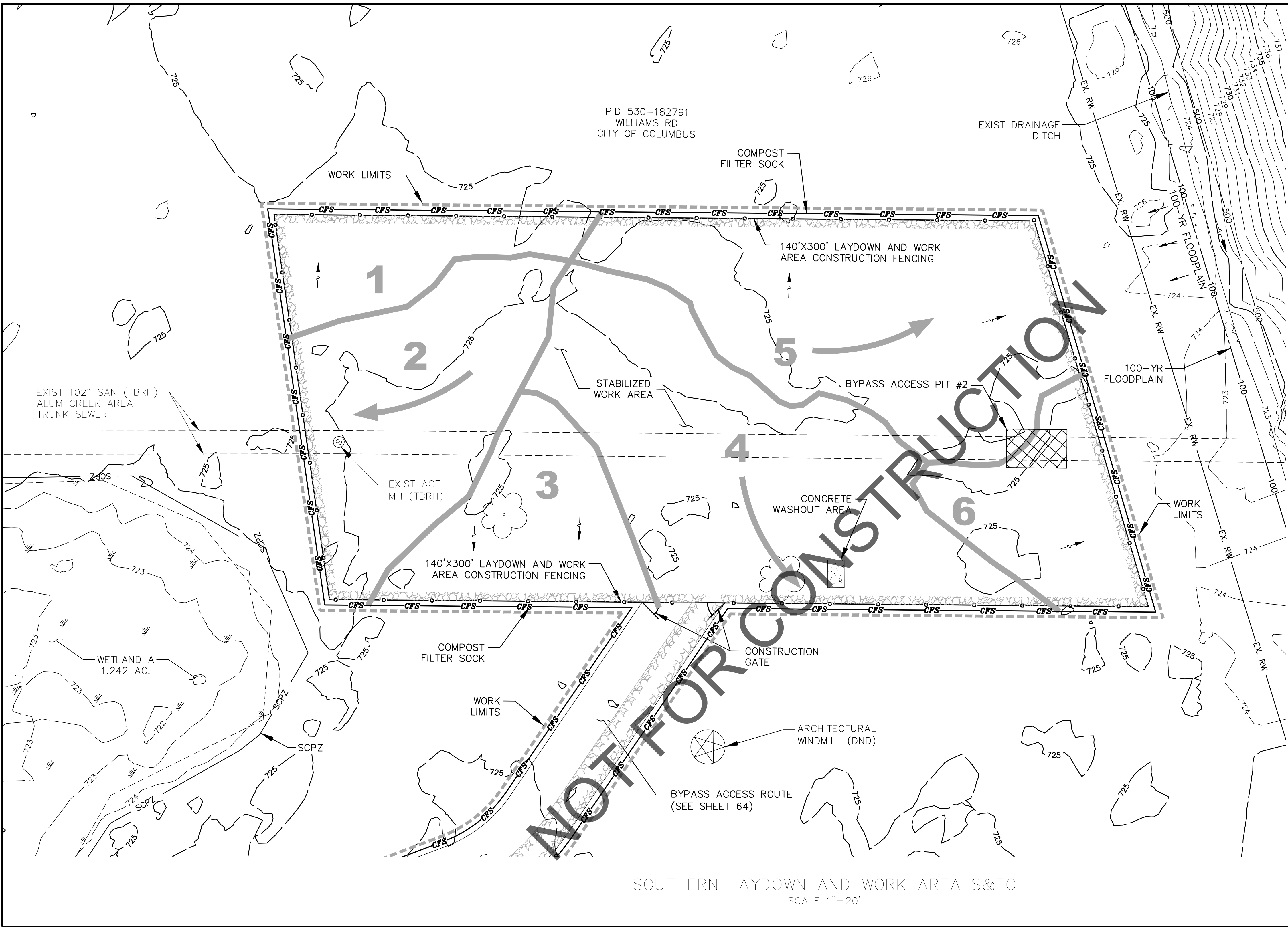


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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE						SCALE: AS NOTED	SHEET: 55 OF 70		
								CONTRACTOR		CONTRACT DRAWING NO. CC-18773	
								INSPECTOR		RECORD PLAN NO.	
							AGREEMENT	COMPLETED			
							RPD	CKD	CLD	CON. DR.	
							INDEX DETAIL		RECORD FILE		

SWPPP WATKINS RD
LAYDOWN SITE DETAILS

CITY OF COLUMBUS				OWNER	
				CONTRACTOR	
				INSPECTOR	
				AGREEMENT	COMPLETED
				RPD	CKD
				CLD	CON. DR.
				INDEX DETAIL	
				RECORD FILE	

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APPROXIMATE DISTURBED AREA

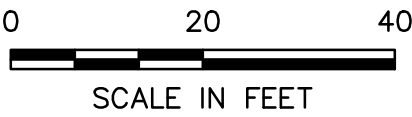
SUB-BASIN	ACREAGE	SLOPE LENGTH	SLOPE GRADE
1	0.074	51'	0.26% (< 2%)
2	0.171	159'	0.20% (< 2%)
3	0.106	98'	0.24% (< 2%)
4	0.274	210'	0.35% (< 2%)
5	0.248	192'	0.17% (< 2%)
6	0.090	111'	0.30% (< 2%)
TOTAL	0.963		

GENERAL NOTES:

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- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.

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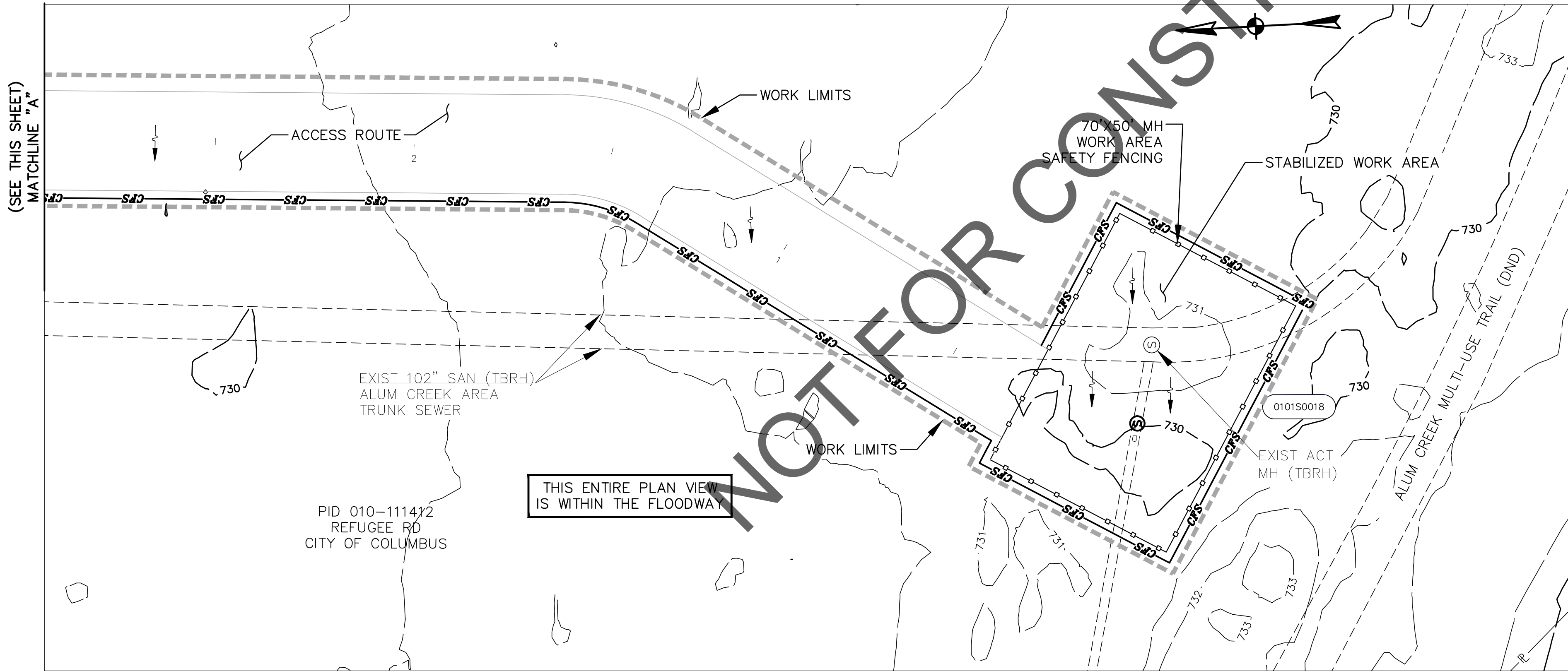
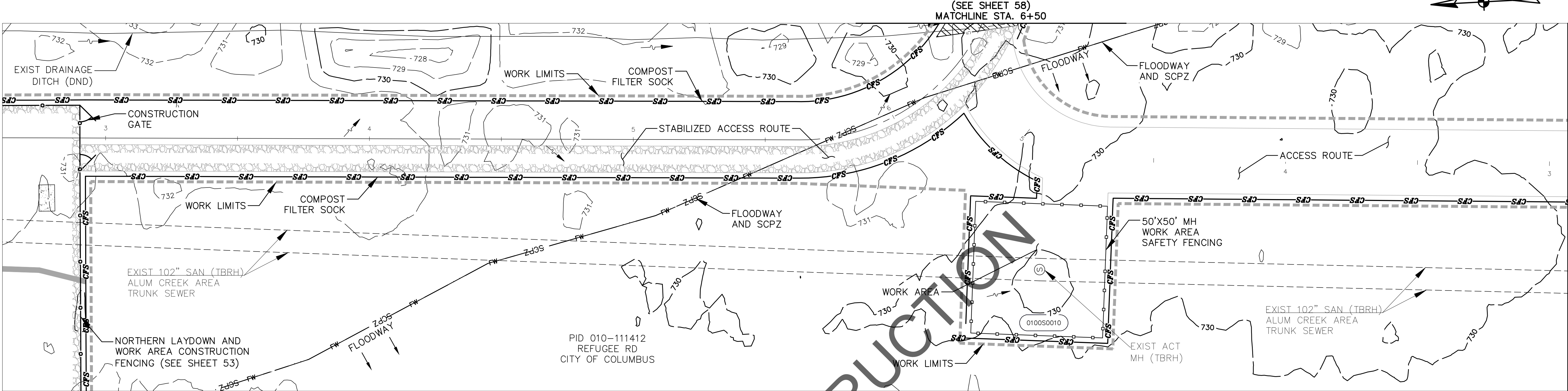
- DRAINAGE SUB-BASIN



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
								CITY OF COLUMBUS		OWNER	
										CONTRACTOR	
									INSPECTOR		
									AGREEMENT	COMPLETED	
									RPD	CKD	
									CLD	CON. DR.	
									INDEX DETAIL	RECORD FILE	
							CONTRACT DRAWING NO. CC–18773				RECORD PLAN NO.
							SCALE: AS NOTED				SHEET: 56 OF 70

SWPPP SOUTHERN
LAYDOWN SITE DETAILS

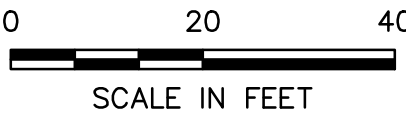
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NORTHERN LAYDOWN AREA TO WATKINS ROAD LAYDOWN AREA – ACCESS ROUTE SEDIMENT AND EROSION CONTROL PRACTICES									
PATH STATIONING					FLOW DATA AND CONTROLS				
BEGIN	OFFSET	END	OFFSET	LAY LENGTH	ACREAGE	SLOPE LENGTH	SLOPE GRADE (MAX)	S&EC CONTROLS	
2+92	14.5' LT	6+50	14.5' LT	341'	0.116	15'	8.55% (2–10%)	12" COMPOST FILTER SOCK	
2+92	14.5' RT	6+21	14.5' RT	339'	0.122	15'	5.49% (2–10%)	12" COMPOST FILTER SOCK	
6+50	14.5' RT	18+50	14.5' RT	1,197'	0.744	27'	12.81% (10–20%)	12" COMPOST FILTER SOCK	
18+50	14.5' LT	26+41	14.5' LT	793'	0.264	15'	10.57% (10–20%)	12" COMPOST FILTER SOCK	
18+50	14.5' RT	26+41	14.5' RT	790'	0.263	15'	5.81% (2–10%)	12" COMPOST FILTER SOCK	
26+41	14.5' RT	35+16	14.5' RT	862'	0.541	27'	7.49% (2–10%)	12" COMPOST FILTER SOCK	

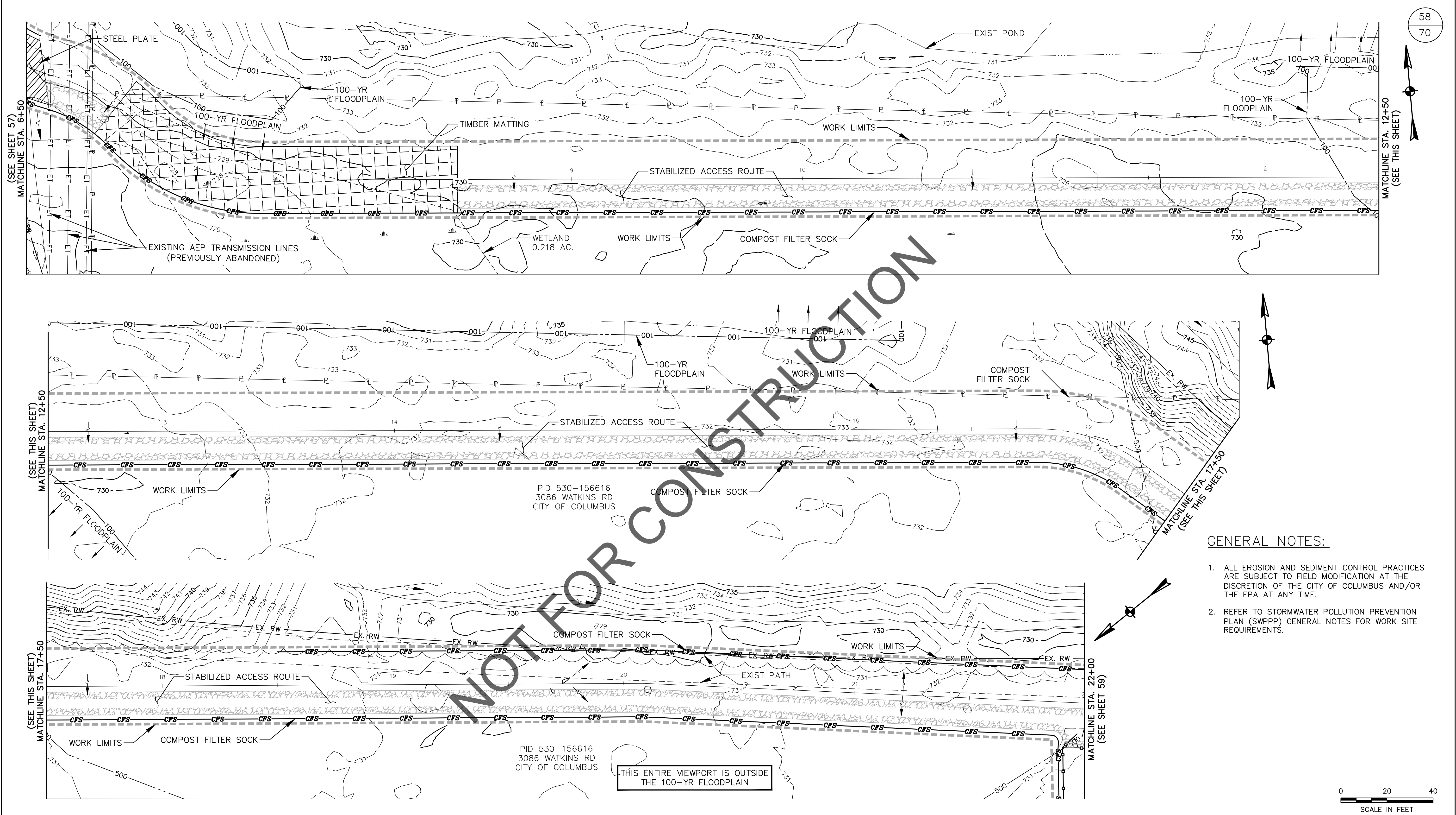
GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.



EASEMENT REFERENCE				REVISIONS			PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
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								CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	

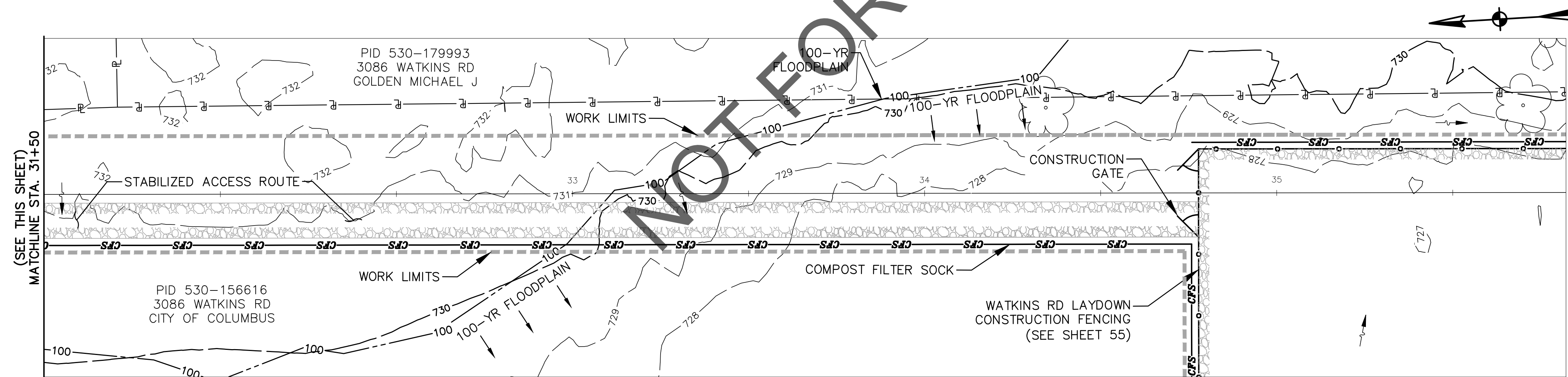
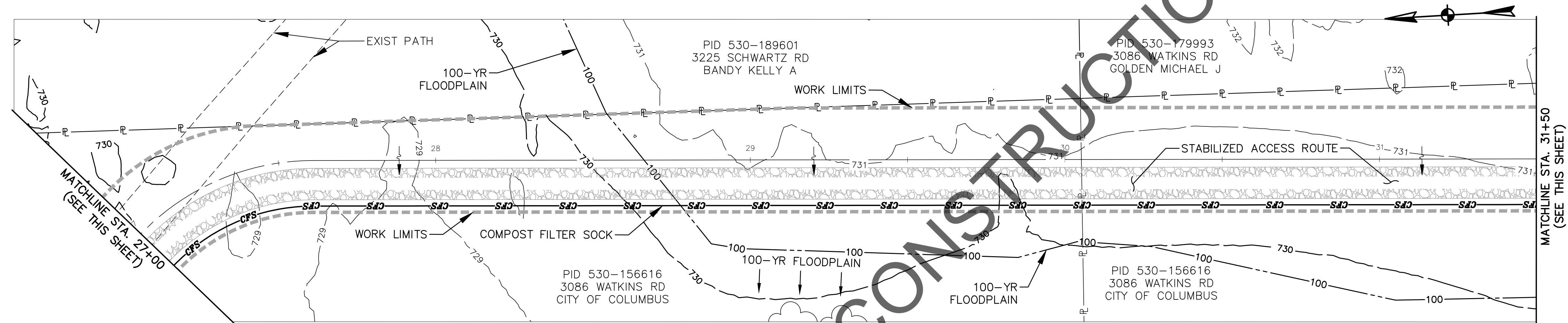
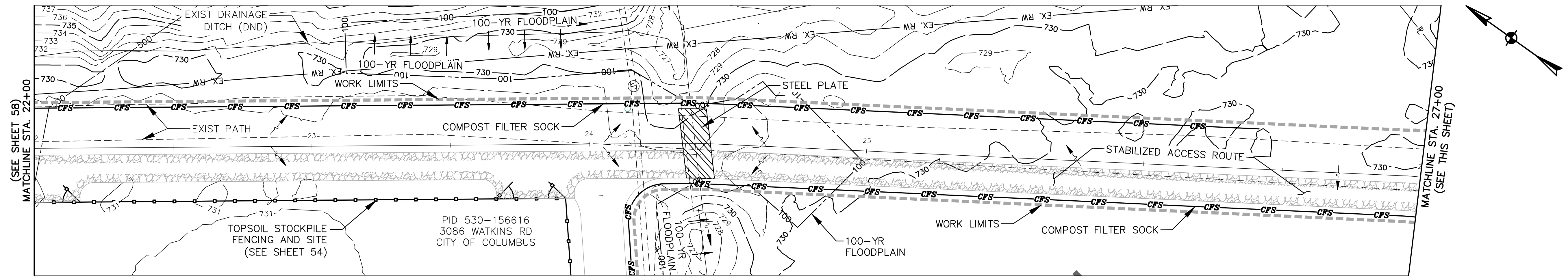
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- GENERAL NOTES:
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 2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.

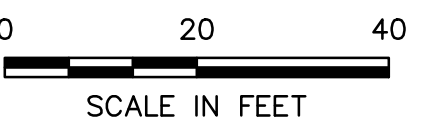
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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		ISSUED STATUS: BID			
	VOL.	PAGE									
								SCALE: AS NOTED		SHEET: 58 OF 70	
							CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.		

SWPPP PATH DETAILS
6+50 TO 22+00



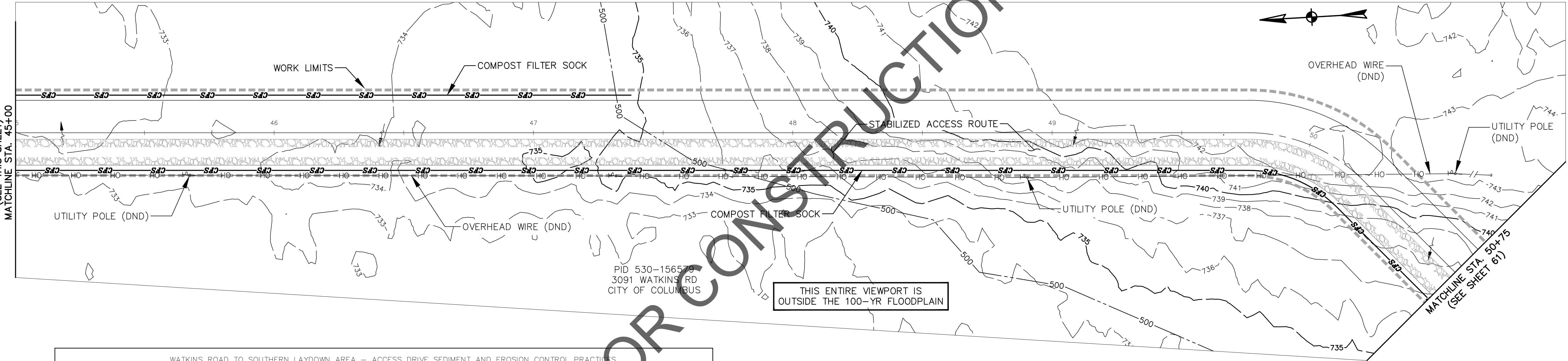
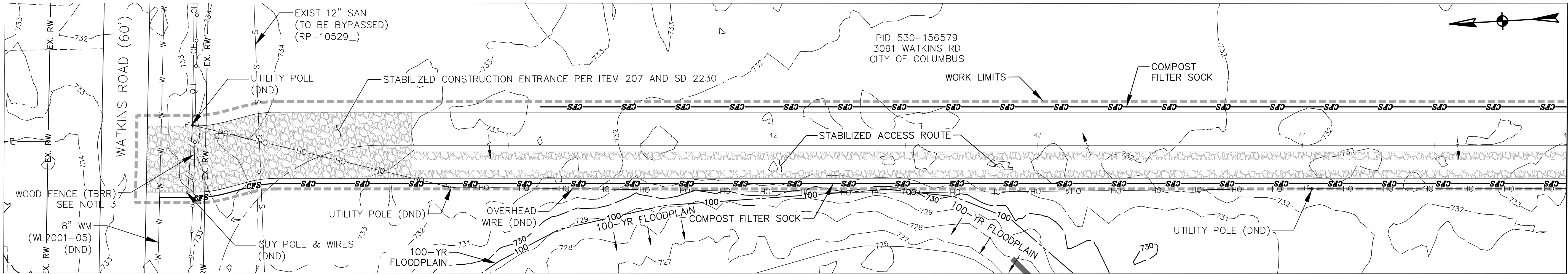
GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.



EASEMENT REFERENCE				REVISIONS			SWPPP PATH DETAILS 22+00 TO WATKINS RD LAYDOWN	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER <small>DIVISION USE ONLY</small>				
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			ISSUED STATUS: BID				
	VOL.	PAGE							SCALE: AS NOTED	SHEET: 59 OF 70			
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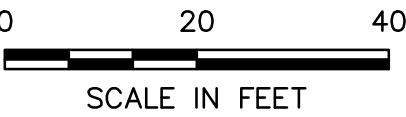
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WATKINS ROAD TO SOUTHERN LAYDOWN AREA - ACCESS DRIVE SEDIMENT AND EROSION CONTROL PRACTICES								
PATH STATIONING					FLOW DATA AND CONTROLS			
BEGIN	OFFSET	END	OFFSET	LAY LENGTH	ACREAGE	SLOPE LENGTH	SLOPE GRADE (MAX)	S&EC CONTROLS
WATKINS RD	14.5' RT	52+52	14.5' RT	1298'	0.561	27'	25% (> 10%)	12" COMPOST FILTER SOCK
41+12	14.5' LT	47+38	14.5' LT	626'	0.179	15'	8.55% (2-10%)	12" COMPOST FILTER SOCK
52+81	14.5' RT	57+92	14.5' RT	511'	0.27	27'	0.50% (< 2%)	12" COMPOST FILTER SOCK
57+00	14.5' LT	70+34	14.5' LT	1370'	0.62	27'	8.29% (2-10%)	12" COMPOST FILTER SOCK
64+66	14.5' RT	67+71	14.5' RT	331'	0.091	15'	2.56% (2-10%)	12" COMPOST FILTER SOCK
69+94	14.5 RT	73.75	14.5' RT	374'	0.220	27'	4.71% (2-10%)	12" COMPOST FILTER SOCK
74+66	14.5' LT	84+21	12.5' LT	1017'	0.285	15'	7.36% (2-10%)	12" COMPOST FILTER SOCK
74+66	14.5' RT	84+21	14.5' RT	942'	0.265	15'	0.14% (< 2%)	12" COMPOST FILTER SOCK
84+76	14.5' LT	92+25	14.5' LT	720'	0.210	15'	21.11% (> 10%)	12" COMPOST FILTER SOCK
84+76	14.5' RT	92+44	14.5' RT	798'	0.224	15'	9.22% (2-10%)	12" COMPOST FILTER SOCK

GENERAL NOTES:

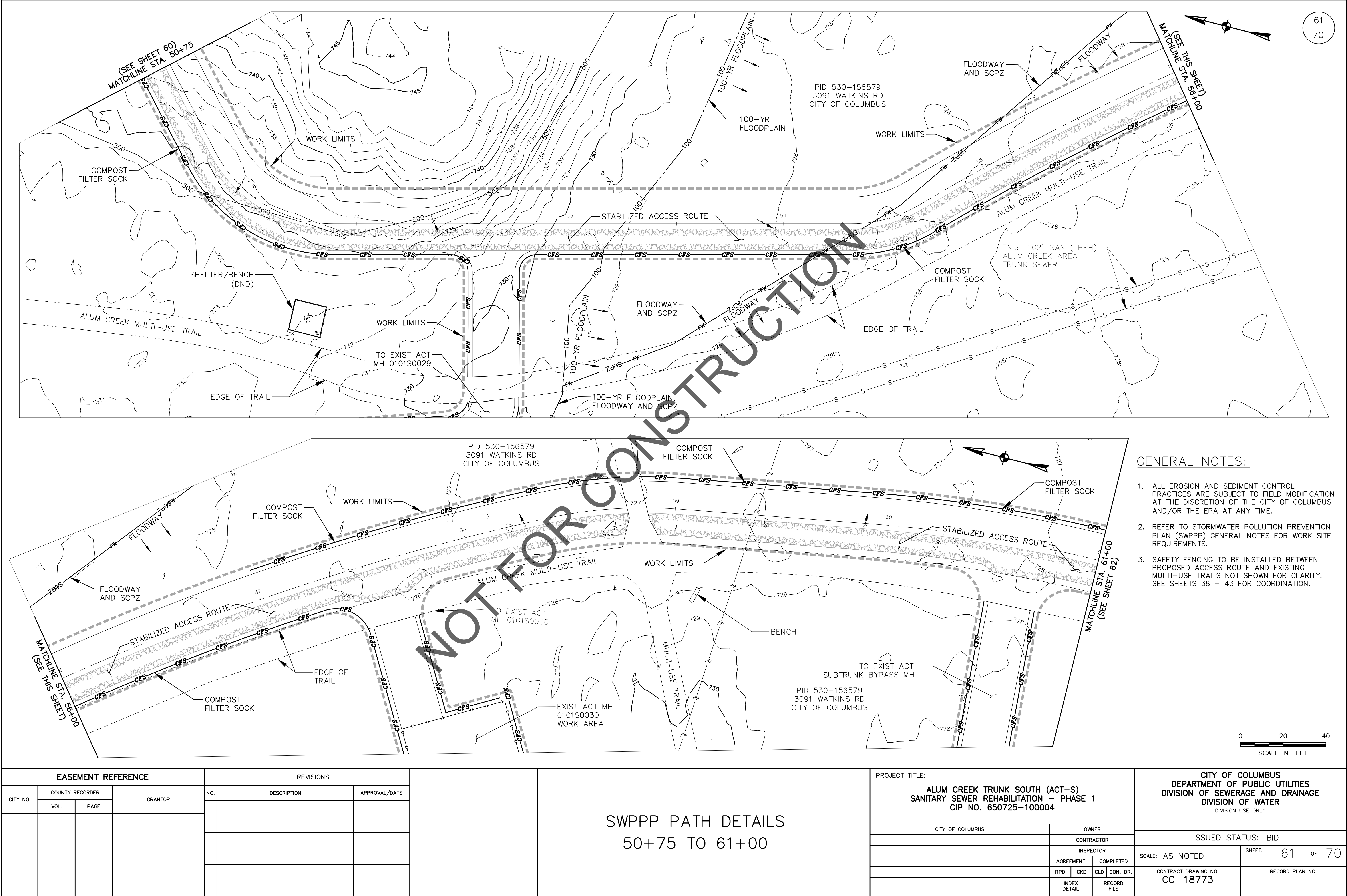
- ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.
- THE CONTRACTOR SHALL REMOVE UP TO A MAXIMUM OF THIRTY-FIVE (35) LINEAR FEET OF EXISTING WOOD FENCE FOR THE PROPOSED ACCESS PATH. THE CONTRACTOR SHALL RESTORE THE FENCE TO EXISTING CONDITIONS FOLLOWING BYPASS OPERATIONS AND PRIOR TO SUBSTANTIAL COMPLETION.



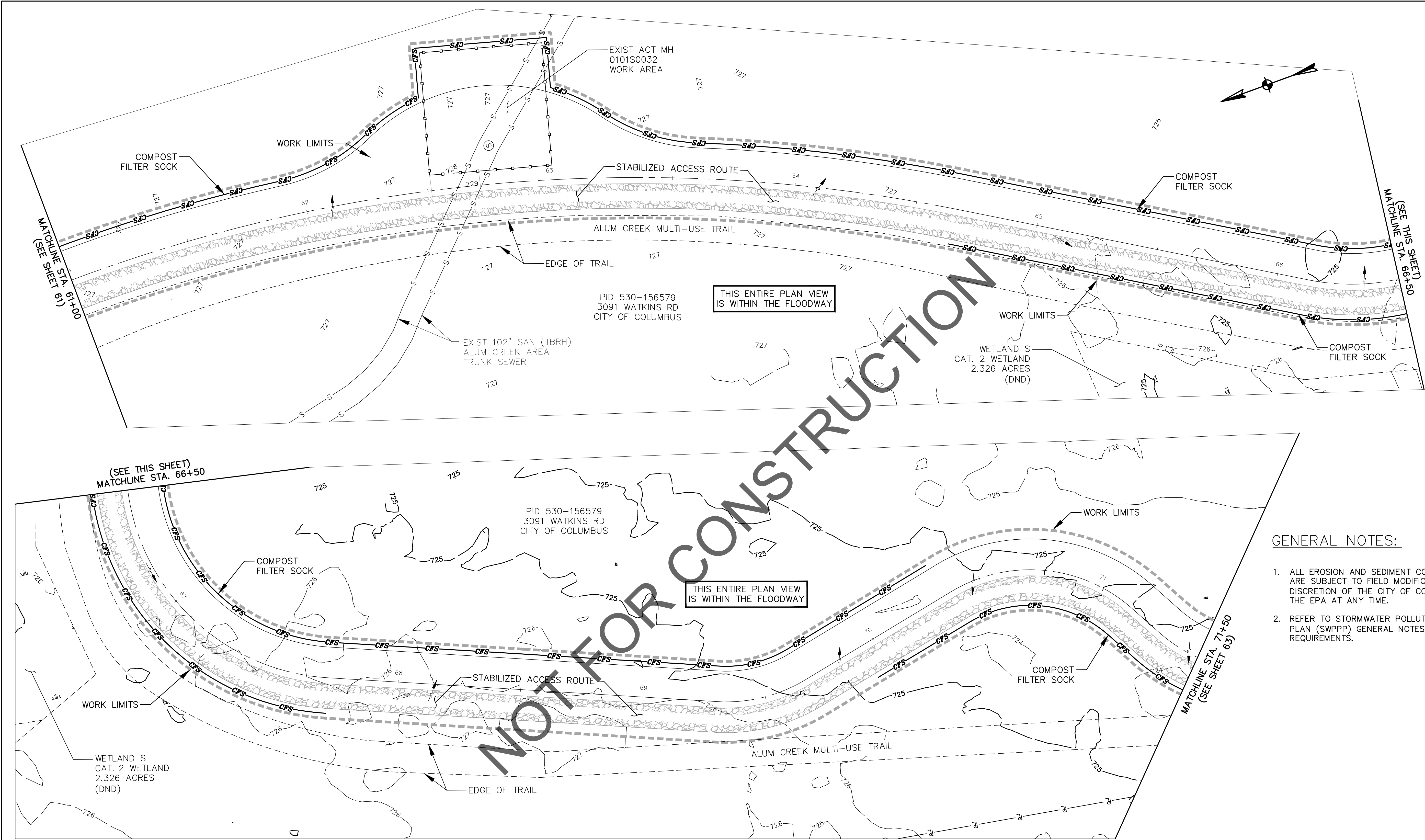
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	VOL.	PAGE																						
																	CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.					

SWPPP PATH DETAILS
WATKINS RD TO 50+75

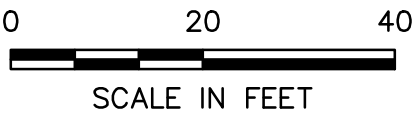
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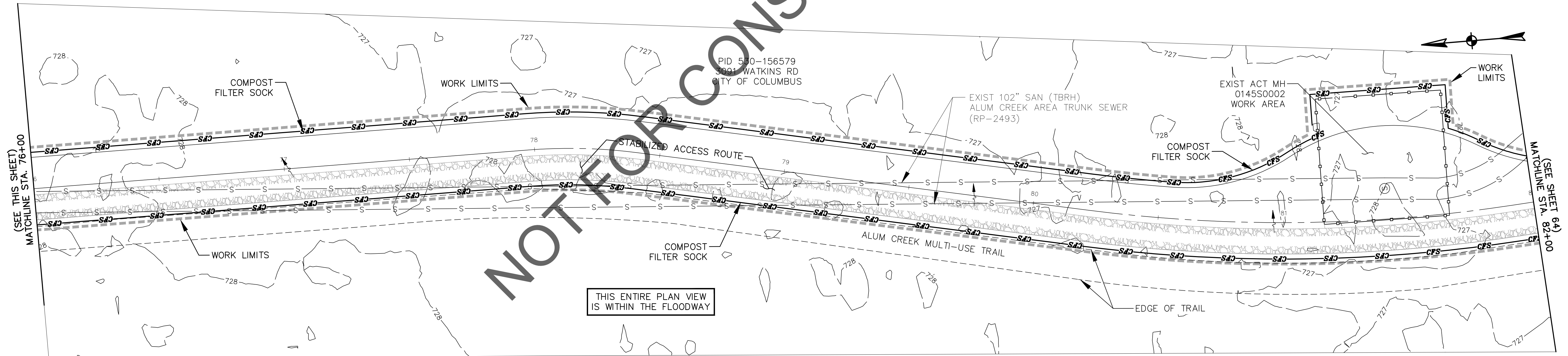
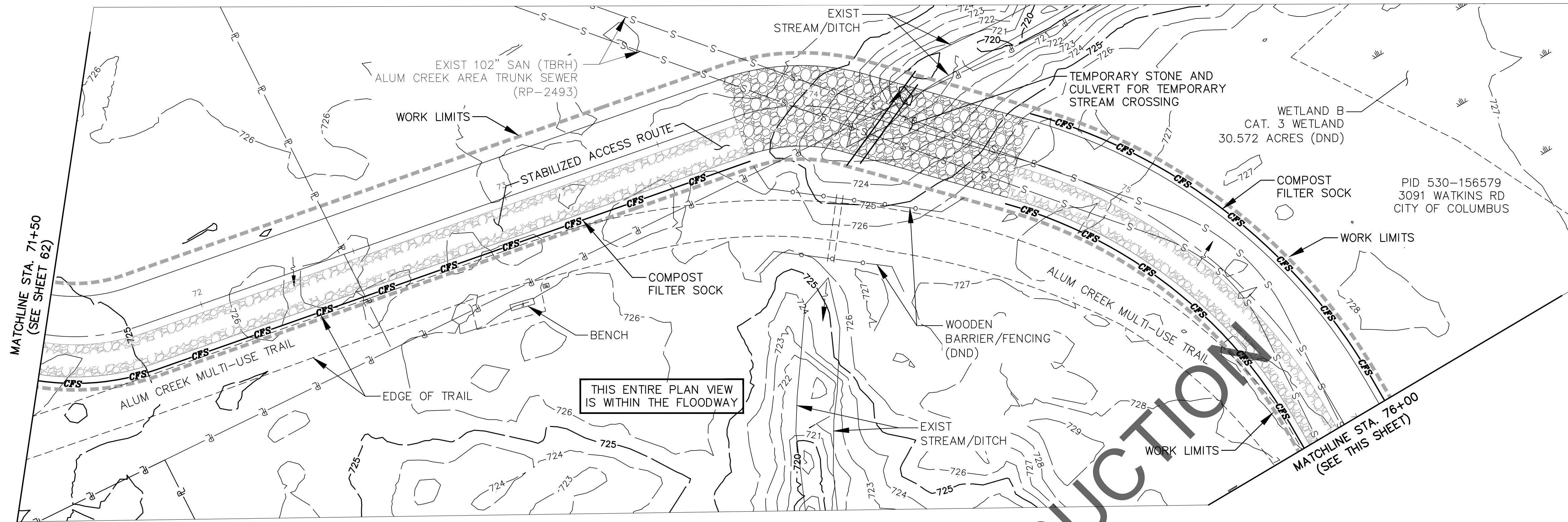
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- GENERAL NOTES:
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
 2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.



EASEMENT REFERENCE				REVISIONS			SWPPP PATH DETAILS 61+00 TO 71+50	PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		CITY OF COLUMBUS		OWNER		ISSUED STATUS: BID			
	VOL.	PAGE								CONTRACTOR					
										INSPECTOR		SCALE: AS NOTED		SHEET: 62 OF 70	
										AGREEMENT					
							RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.		
							INDEX DETAIL		RECORD FILE						

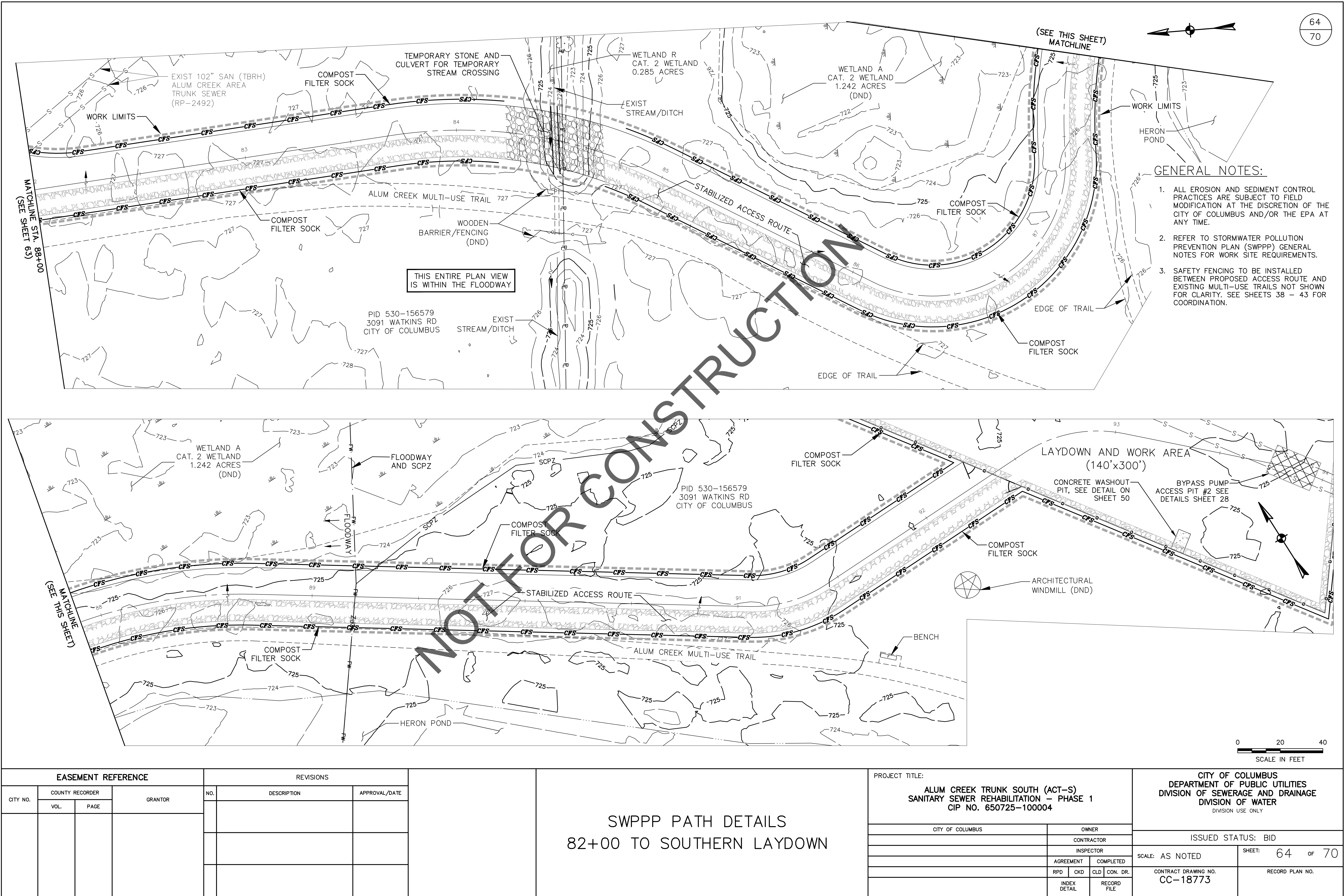


GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE EPA AT ANY TIME.
2. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES FOR WORK SITE REQUIREMENTS.
3. SAFETY FENCING TO BE INSTALLED BETWEEN PROPOSED ACCESS ROUTE AND EXISTING MULTI-USE TRAILS NOT SHOWN FOR CLARITY. SEE SHEETS 38 - 43 FOR COORDINATION.

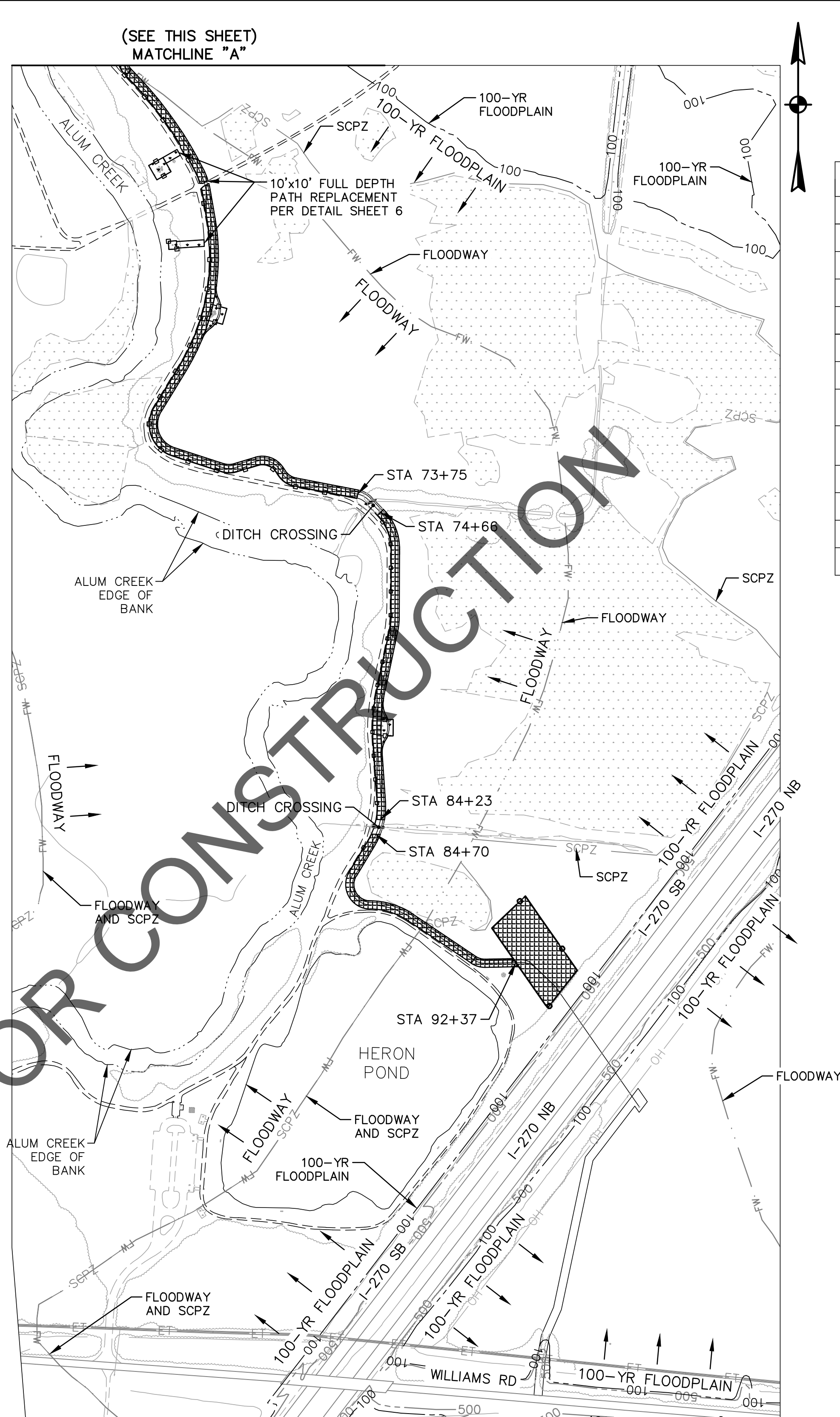
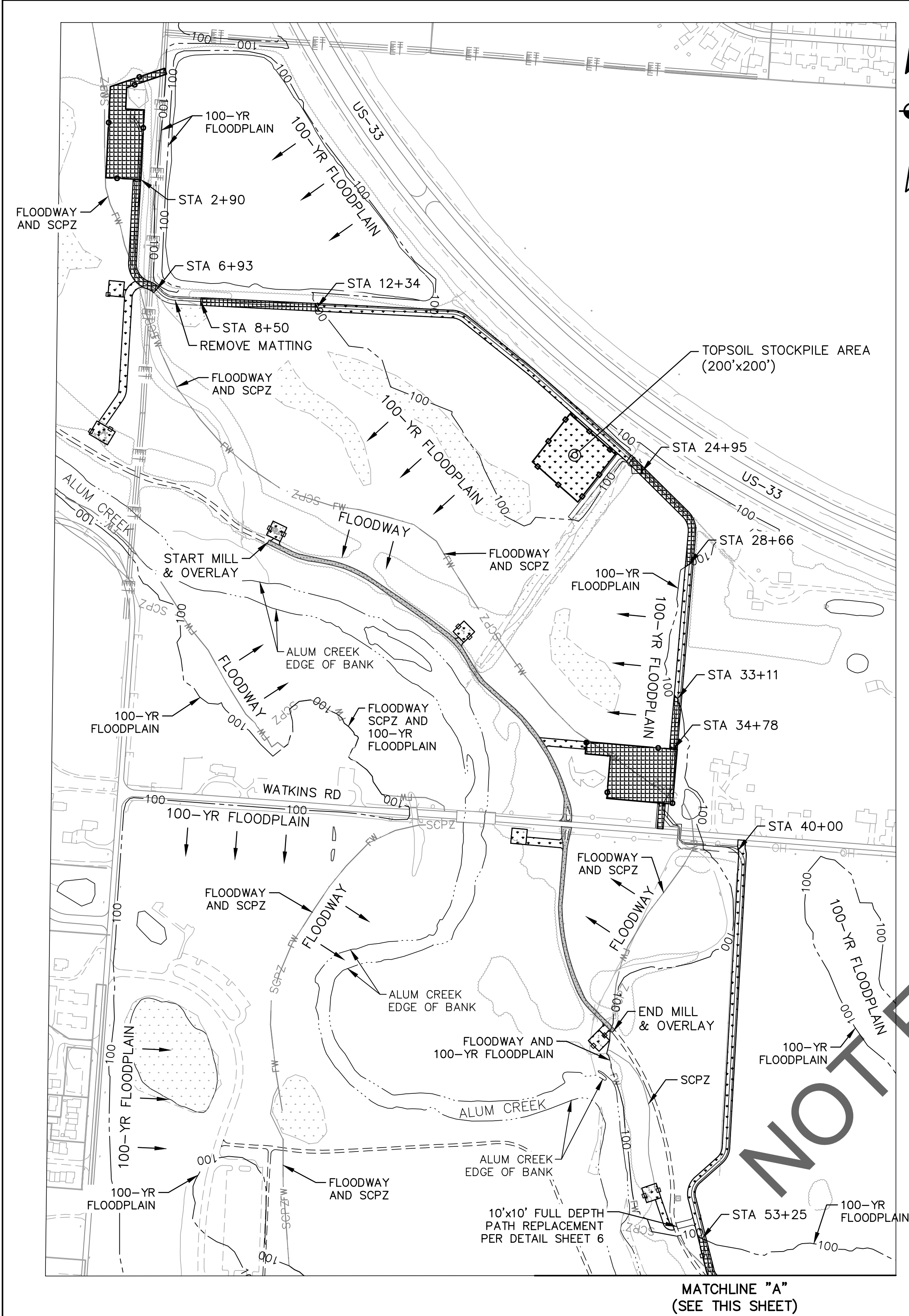
EASEMENT REFERENCE				REVISIONS			SWPPP PATH DETAILS 71+50 TO 82+00												PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004						CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY					
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE													CITY OF COLUMBUS			OWNER			ISSUED STATUS: BID					
	VOL.	PAGE																	CONTRACTOR			INSPECTOR								
																			AGREEMENT			COMPLETED			SCALE: AS NOTED			SHEET: 63 OF 70		
																			RPD	CKD	CLD	CON. DR.		CONTRACT DRAWING NO. CC-18773			RECORD PLAN NO.			
							INDEX DETAIL			RECORD FILE																				

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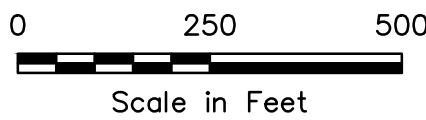


RESTORATION NOTES:

- UNLESS OTHERWISE SHOWN, RESTORATION OF THE ACCESS ROUTE, LAYDOWN, AND WORK AREAS SHALL INCLUDE THE FOLLOWING:

SITE	REMOVE STONE STABILIZATION?	FINAL RESTORATION PLACEMENT
NORTHERN LAYDOWN AND WORK AREA	YES	4" TOPSOIL AND SEEDING
10' WIDE ACCESS PATH (2+90-6+93)	YES	4" TOPSOIL AND SEEDING
10' WIDE ACCESS PATH (8+50-12+34)	YES	4" TOPSOIL AND SEEDING
10' WIDE ACCESS PATH (12+34-24+95)	YES	SEEDING
10' WIDE ACCESS PATH (24+95-28+66)	YES	4" TOPSOIL AND SEEDING
10' WIDE ACCESS PATH (28+66-33+11)	YES	SEEDING
10' WIDE ACCESS PATH (33+11-34+78)	YES	4" TOPSOIL AND SEEDING
WATKINS RD LAYDOWN SITE AND ENTRANCE	YES	4" TOPSOIL AND SEEDING
10' WIDE ACCESS PATH (40+00-53+25)	YES	SEEDING
10' WIDE ACCESS PATH (53+25-92+37)	YES	4" TOPSOIL AND SEEDING
SOUTHERN LAYDOWN AND WORK AREA	YES	4" TOPSOIL AND SEEDING
MH WORK AREAS & SUBTRUNK BYPASS	N/A	SEEDING
TOPSOIL STOCKPILE AREA	N/A	SEEDING
- FOLLOWING CONSTRUCTION ACTIVITIES WHICH REQUIRE USE OF THE ALUM CREEK MULTI-USE PATH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MILLING A MINIMUM OF 1- $\frac{1}{4}$ " OF THE EXISTING MULTI-USE PATH AND RESURFACING A MINIMUM OF 1- $\frac{1}{4}$ " OF CMSC ITEM #1530 SURFACE COURSE. THIS WORK MAY BE PERFORMED IN CONJUNCTION WITH THE REMOVAL AND REPLACEMENT OF THE DAMAGED PORTIONS OF THE TRAIL.
- CONTRACTOR SHALL COORDINATE ALL USE OF THE TRAIL WITH THE CITY OF COLUMBUS, DEPARTMENT OF RECREATION AND PARKS (TINA MOHN, 614-645-3395) AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK ALONG THE TRAIL OR PARK FACILITIES.

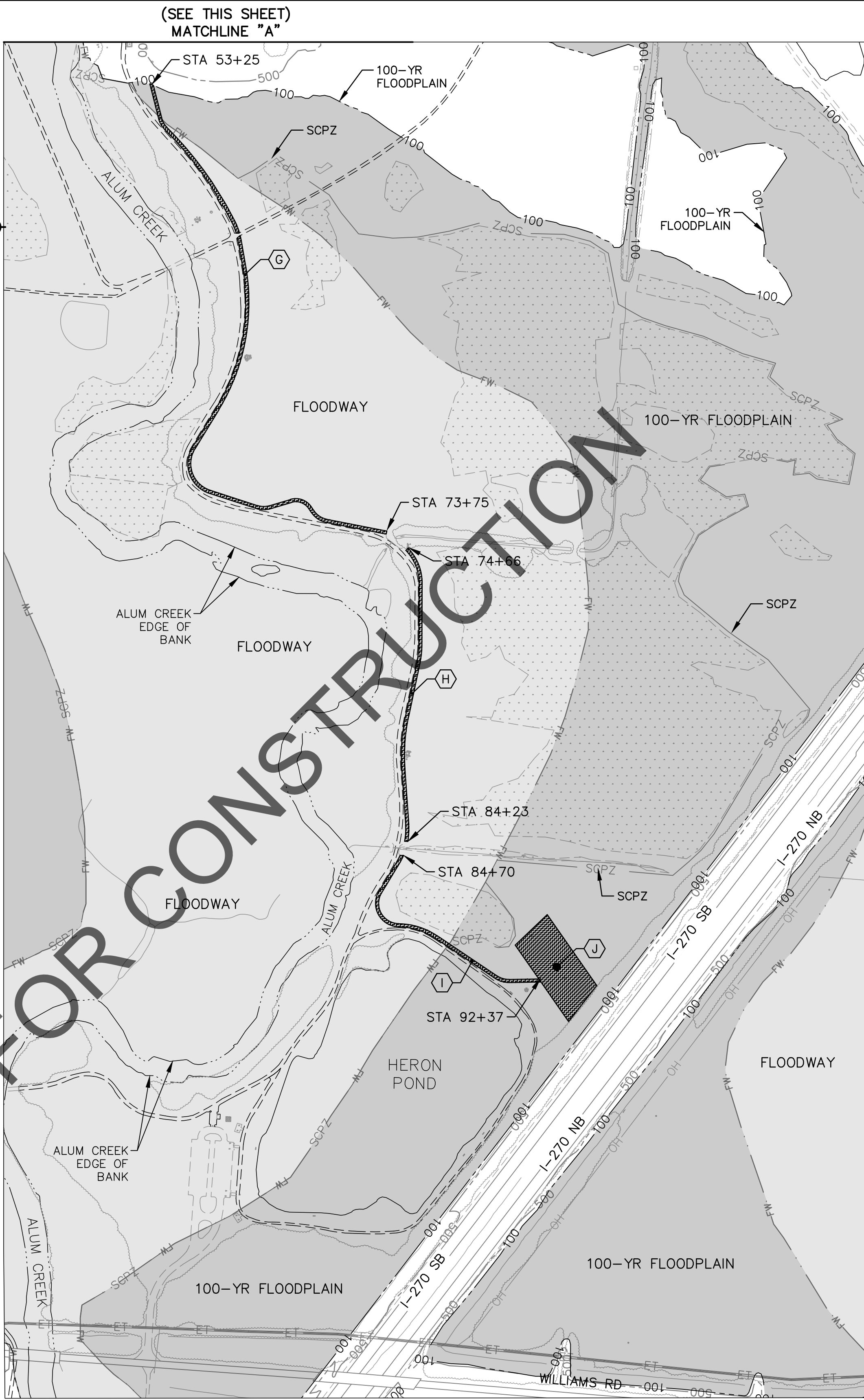
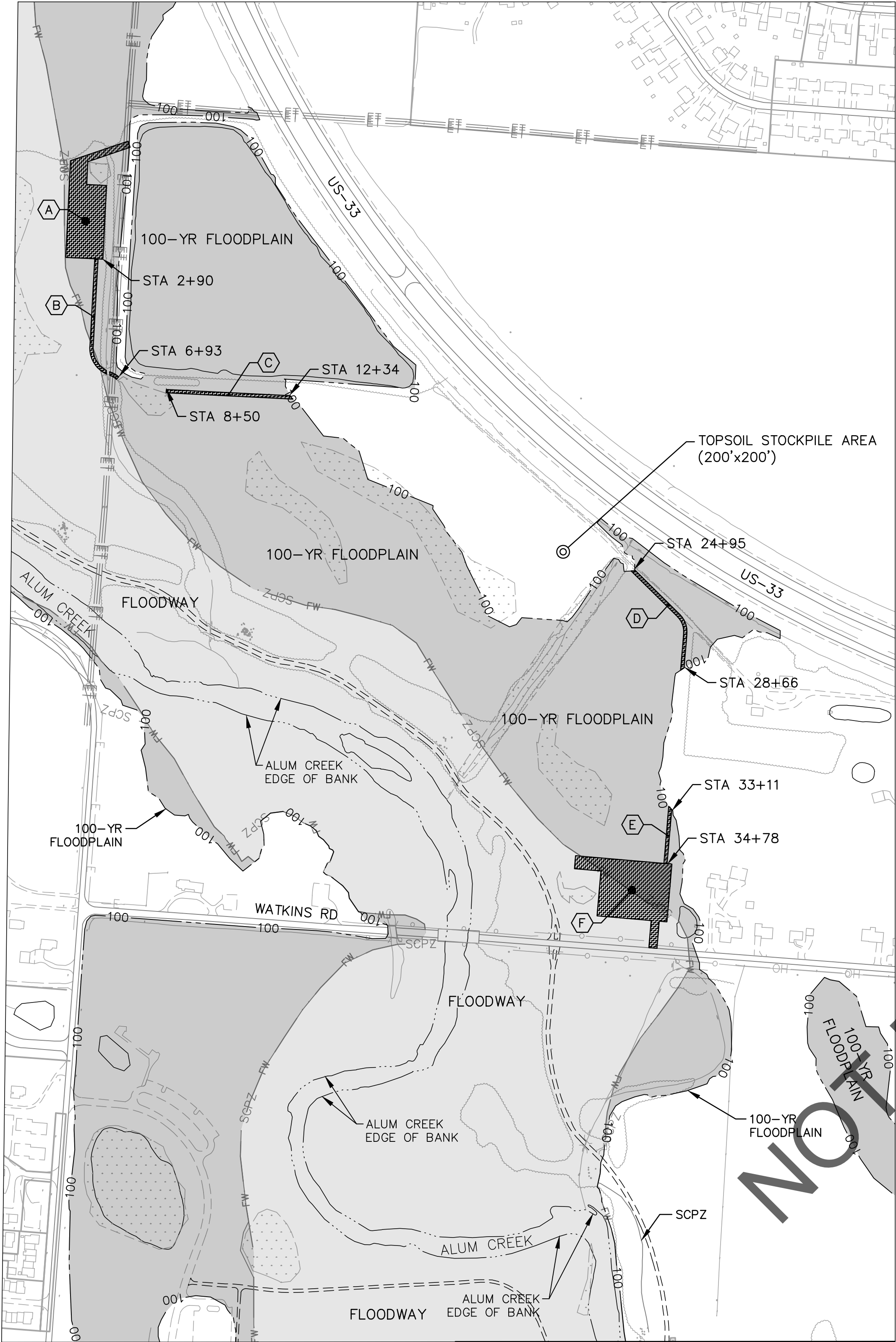
- 4" STONE REMOVED, REPLACE WITH 4-INCHES TOPSOIL AND FINAL SEEDING
- SEEDING PER CMS 659, SEED MIX ON SHEET 3
- MULTI-USE PATH MILL AND OVERLAY (T=1- $\frac{1}{4}$ ")



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

FINAL RESTORATION PLAN

PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION - PHASE 1 CIP NO. 650725-100004						CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY					
CITY OF COLUMBUS				OWNER		ISSUED STATUS: BID					
				CONTRACTOR							
				INSPECTOR		SCALE:			SHEET: 65 OF 70		
		AGREEMENT		COMPLETED							
		RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC-18773			RECORD PLAN NO.		
		INDEX DETAIL		RECORD FILE							

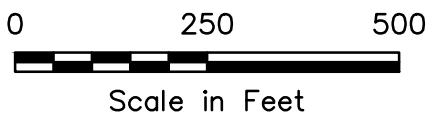


SITE		SQUARE FEET	CUT DEPTH	CUBIC YARDS
A	NORTHERN LAYDOWN AND WORK AREA	33,436	4 INCHES	413
B	10' WIDE ACCESS PATH (2+90-6+93)	4,030	4 INCHES	50
C	10' WIDE ACCESS PATH (8+50-12+34)	3,840	4 INCHES	48
D	10' WIDE ACCESS PATH (24+95-28+66)	3,710	4 INCHES	46
E	10' WIDE ACCESS PATH (33+11-34+78)	1,670	4 INCHES	21
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	44,540	4 INCHES	550
G	10' WIDE ACCESS PATH (53+25-73+75)	20,500	4 INCHES	253
H	10' WIDE ACCESS PATH (74+66-84+23)	9,570	4 INCHES	118
I	10' WIDE ACCESS PATH (84+70-92+37)	7,670	4 INCHES	95
J	SOUTHERN LAYDOWN AND WORK AREA	40,223	4 INCHES	497
TOTAL CUT FOR INTERIM CONSTRUCTION		169,189		2091

INTERIM CONSTRUCTION CONDITIONS		FINAL RESTORATION CONDITIONS		NET
CUT	FILL	CUT	FILL	
2,091 CY	-	-	-	

- NOTES:
- DUE TO BEING WITHIN THE 100-YR FLOODPLAIN, THE FOLLOWING AREAS REQUIRE THE REMOVAL OF 4" OF TOPSOIL AND HAULING TO STOCKPILE AREA AS DENOTED ON THE PLANS AND OUTSIDE THE 100-YR FLOODPLAIN.
 - THE AREAS SHOWN AS CUT SHALL NOT BE EXPOSED FOR A PERIOD OF TIME LASTING LONGER THAN 48 HOURS. THE CONTRACTOR SHALL FILL THE CUT AREAS WITH STONE STABILIZATION AS REQUIRED ON THE CONSTRUCTION FILL PLAN.
 - THE CUT AREAS AS SHOWN SHALL BE DURING THE INTERIM CONSTRUCTION PERIOD ONLY.

- CONSTRUCTION CUT (INTERIM CONDITION)
- 100-YR FLOODPLAIN
- FLOODWAY

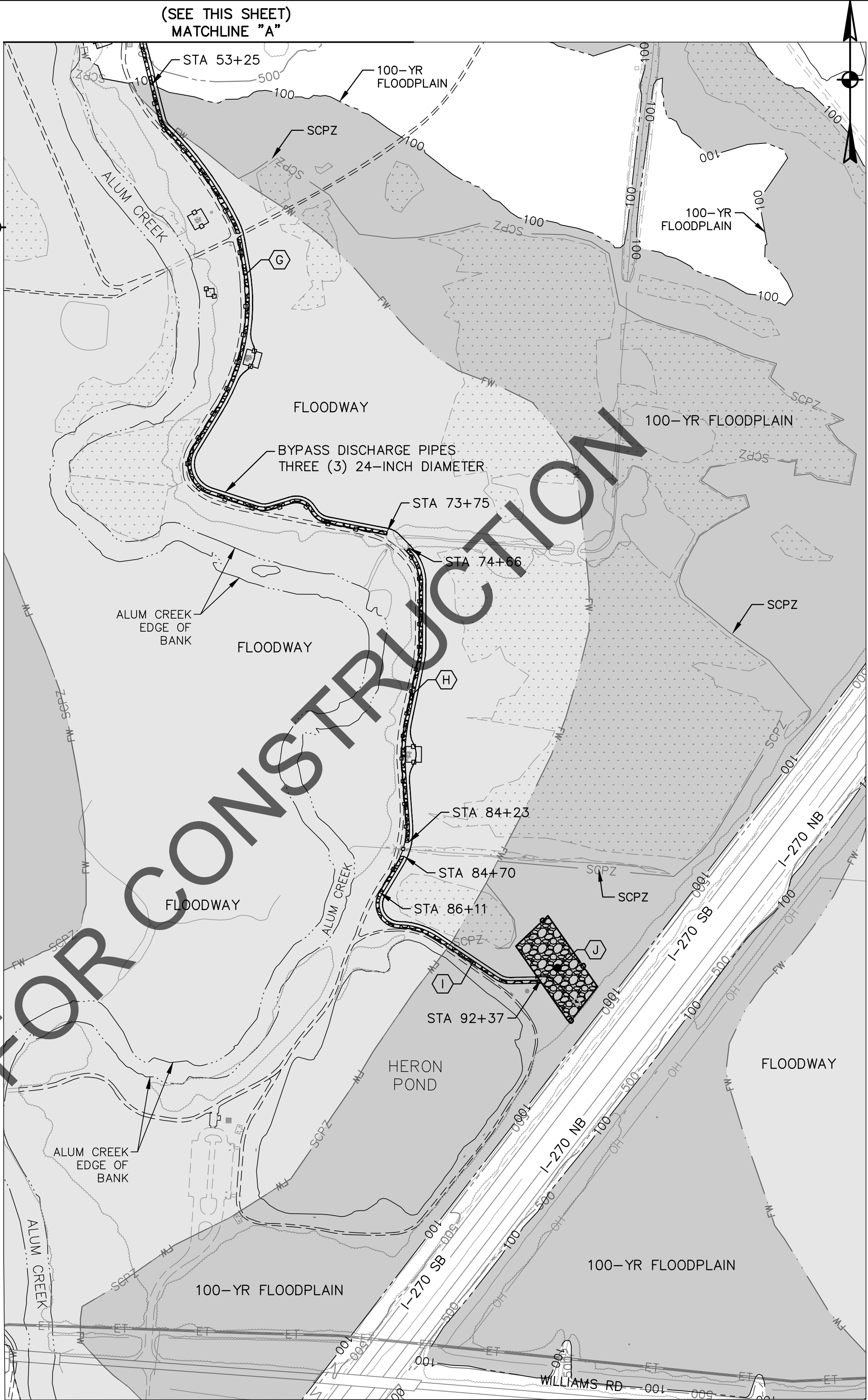
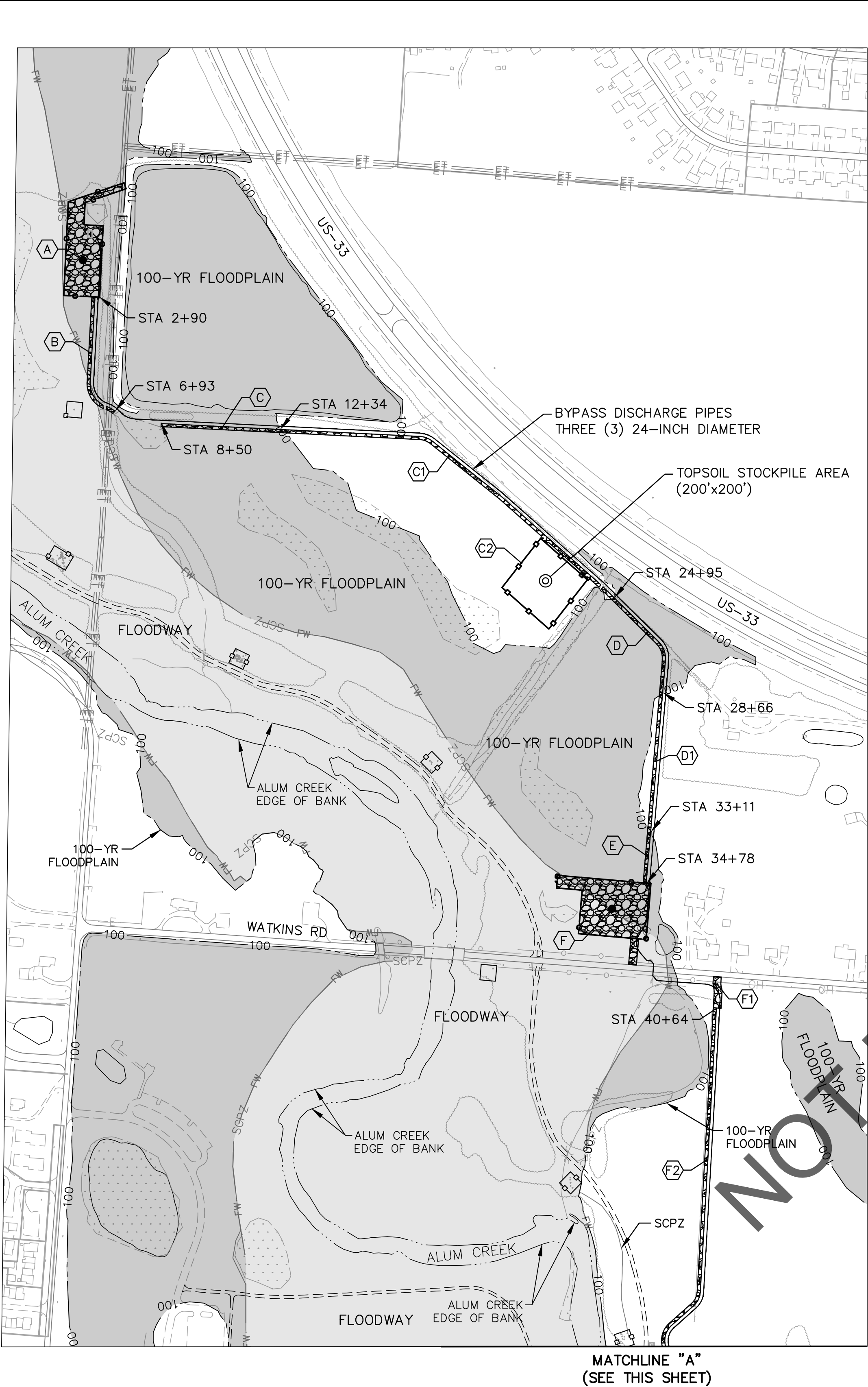


EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

INTERIM CONSTRUCTION CUT PLAN
(1 OF 4)

PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725–100004						CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY			
CITY OF COLUMBUS				OWNER		ISSUED STATUS: BID			
				CONTRACTOR					
				INSPECTOR		SCALE:		SHEET: 67 OF 70	
		AGREEMENT		COMPLETED					
		RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC–18773		RECORD PLAN NO.	
		INDEX DETAIL		RECORD FILE					

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SITE		SQUARE FEET	FILL DEPTH	CUBIC YARDS
A	NORTHERN LAYDOWN AND WORK AREA	33,436	4 INCHES	413
B	10' WIDE ACCESS PATH (2+90-6+93)	4,030	4 INCHES	50
C	10' WIDE ACCESS PATH (8+50-12+34)	3,840	4 INCHES	48
C1*	10' WIDE ACCESS PATH (12+34-24+95)	12,610	4 INCHES	156
D	10' WIDE ACCESS PATH (24+95-28+66)	3,710	4 INCHES	46
D1*	10' WIDE ACCESS PATH (28+66-33+11)	4,450	4 INCHES	55
E	10' WIDE ACCESS PATH (33+11-34+78)	1,670	4 INCHES	21
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	44,540	4 INCHES	550
F1*	WATKINS RD CONSTRUCTION ENTRANCE (S)	2,500	4 INCHES	31
F2*	10' WIDE ACCESS PATH (40+64-53+25)	12,610	4 INCHES	156
G	10' WIDE ACCESS PATH (53+25-73+75)	20,500	4 INCHES	253
H	10' WIDE ACCESS PATH (74+66-84+23)	9,570	4 INCHES	118
I	10' WIDE ACCESS PATH (84+70-92+37)	7,670	4 INCHES	95
J	SOUTHERN LAYDOWN AND WORK AREA	40,223	4 INCHES	497
SUBTOTAL STONE FILL WITHIN FLOODPLAIN		169,189		2,091

SITE		FENCING LENGTH	FENCING HEIGHT	FENCE TYPE	CUBIC YD
A	NORTHERN LAYDOWN AND WORK AREA	1,125 LF	8 FT	CLT	14
C2*	TOPSOIL STOCKPILE AREA	800 LF	6 FT	ORANGE MESH	4
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	960 LF	8 FT	CLT	12
J	SOUTHERN LAYDOWN AND WORK AREA	863 LF	8 FT	CLT	11
G,H,I	BYPASS ACCESS PATH (53+55-86+11)	3,299 LF	6 FT	ORANGE MESH	15
-	MANHOLES (2 MAXIMUM AT A TIME)	400 LF	6 FT	CLT	4
SUBTOTAL FENCING FILL WITHIN FLOODPLAIN					56

	NUMBER OF PIPES	PIPE DIAMETER	BYPASS LENGTH	CUBIC YARDS
* BYPASS PIPING OUTSIDE FLOODPLAIN	3	24 INCHES	3,140 LF	1,096
BYPASS PIPING WITHIN FLOODPLAIN	3	24 INCHES	6,165 LF	2,152

INTERIM CONSTRUCTION CONDITIONS		FINAL RESTORATION CONDITIONS		NET
CUT	FILL	CUT	FILL	2,208 CY FILL
2,091 CY	4,299 CY	-	-	

NOTES:

1. THE FILL AREAS AS SHOWN SHALL BE DURING THE INTERIM CONSTRUCTION PERIOD ONLY. SEE THE FINAL RESTORATION CUT AND FILL SHEETS FOR FINAL CONDITIONS.

* - INDICATES FILL OUTSIDE THE FLOODPLAIN. NOT INCLUDED WITHIN THE TOTAL CUT AND FILL VOLUME CALCULATIONS.

CONSTRUCTION STONE FILL (INTERIM CONDITION)

100-YR FLOODPLAIN

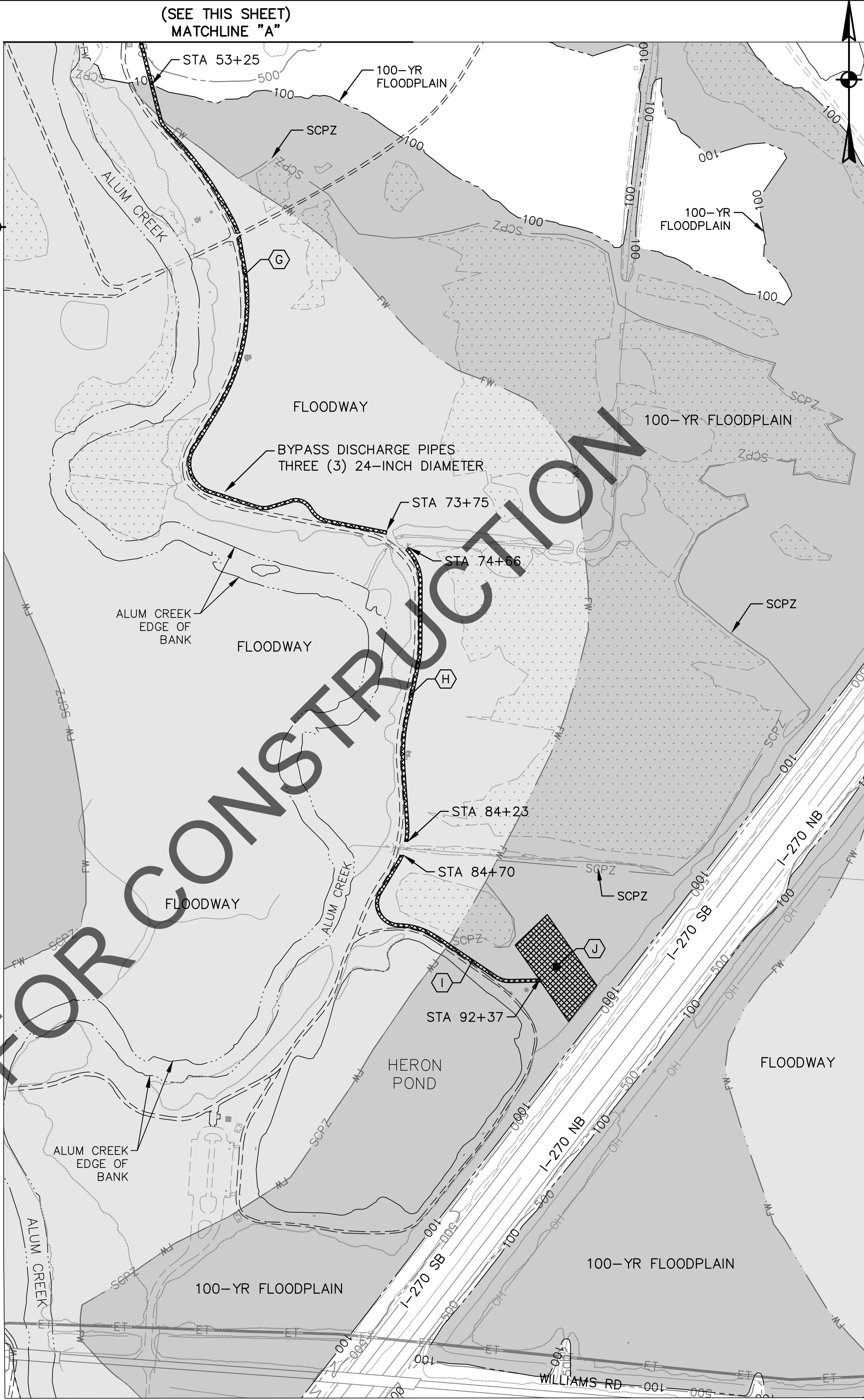
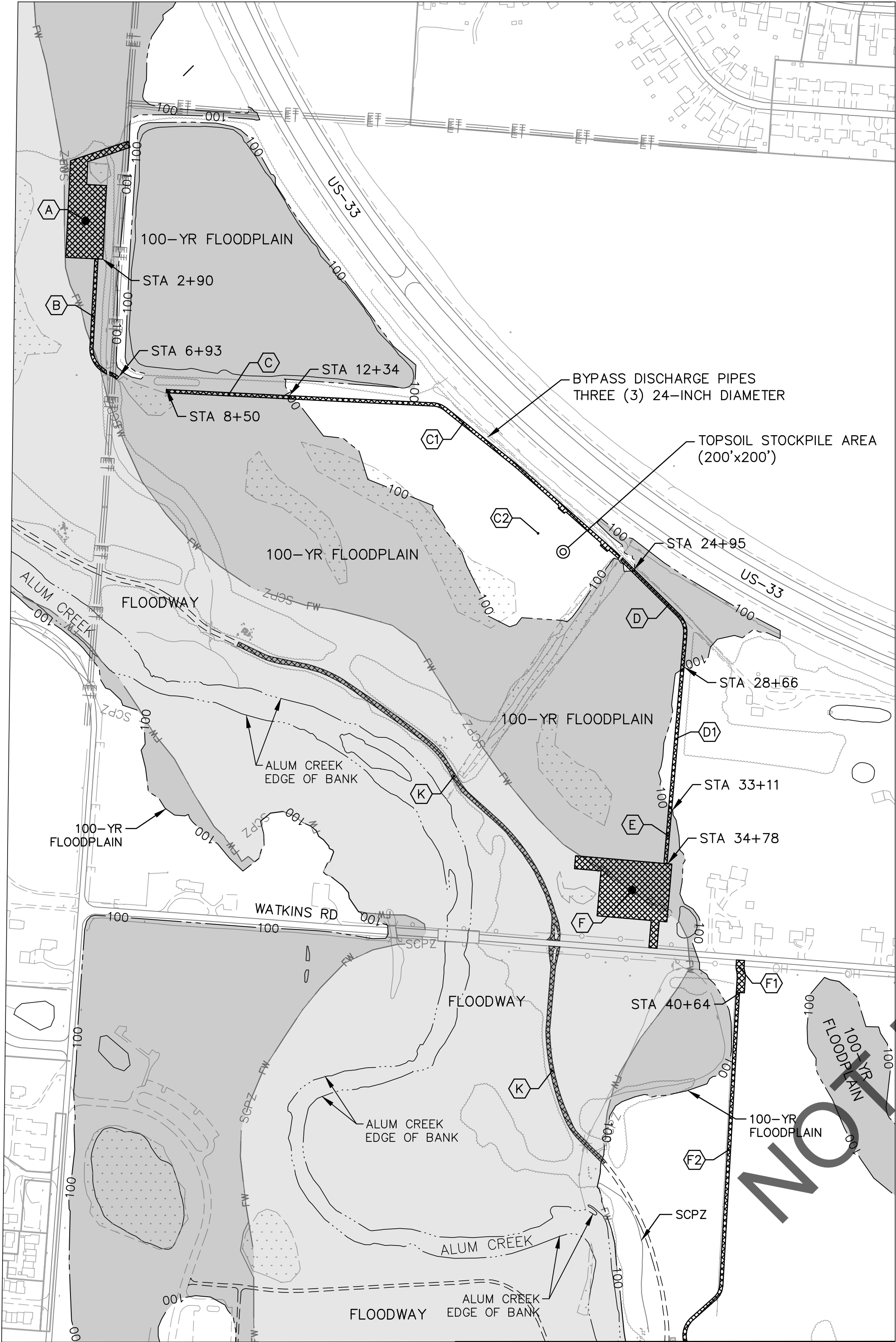
FLOODWAY

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

INTERIM CONSTRUCTION FILL PLAN
(2 OF 4)

PROJECT TITLE: ALUM CREEK TRUNK SOUTH (ACT-S) SANITARY SEWER REHABILITATION – PHASE 1 CIP NO. 650725-100004						CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION OF WATER DIVISION USE ONLY				
CITY OF COLUMBUS			OWNER			ISSUED STATUS: BID				
			CONTRACTOR							
			INSPECTOR			SCALE:		SHEET: 68 OF 70		
			AGREEMENT		COMPLETED					
			RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO. CC-18773		RECORD PLAN NO.	
			INDEX DETAIL		RECORD FILE					

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SITE	REMOVAL OF STONE STABILIZATION	SQUARE FEET	CUT DEPTH	CUBIC YARDS
A	NORTHERN LAYDOWN AND WORK AREA	33,436	4 INCHES	413
B	10' WIDE ACCESS PATH (2+90-6+93)	4,030	4 INCHES	50
C	10' WIDE ACCESS PATH (8+50-12+34)	3,840	4 INCHES	48
C1*	10' WIDE ACCESS PATH (12+34-24+95)	12,610	4 INCHES	156
D	10' WIDE ACCESS PATH (24+95-28+66)	3,710	4 INCHES	46
D1*	10' WIDE ACCESS PATH (28+66-33+11)	4,450	4 INCHES	55
E	10' WIDE ACCESS PATH (33+11-34+78)	1,670	4 INCHES	21
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	44,540	4 INCHES	550
F1*	WATKINS RD CONSTRUCTION ENTRANCE (S)	2,500	4 INCHES	31
F2*	10' WIDE ACCESS PATH (40+64-53+25)	12,610	4 INCHES	156
G	10' WIDE ACCESS PATH (53+25-73+75)	20,500	4 INCHES	253
H	10' WIDE ACCESS PATH (74+66-84+23)	9,570	4 INCHES	118
I	10' WIDE ACCESS PATH (84+70-92+37)	7,670	4 INCHES	95
J	SOUTHERN LAYDOWN AND WORK AREA	40,223	4 INCHES	497
SUBTOTAL STONE CUT		169,189		2,091

SITE	FENCE REMOVALS	FENCING LENGTH	FENCING HEIGHT	FENCE TYPE	CUBIC YD
A	NORTHERN LAYDOWN AND WORK AREA	1,125 LF	8 FT	CLT	14
C2*	TOPSOIL STOCKPILE AREA	800 LF	6 FT	ORANGE MESH	4
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	960 LF	8 FT	CLT	12
J	SOUTHERN LAYDOWN AND WORK AREA	863 LF	8 FT	CLT	11
G,H,I	BYPASS ACCESS PATH (53+55-86+11)	3,999 LF	6 FT	ORANGE MESH	15
-	MANHOLES (2 MAXIMUM AT A TIME)	400 LF	6 FT	CLT	4
SUBTOTAL FENCING REMOVAL					56

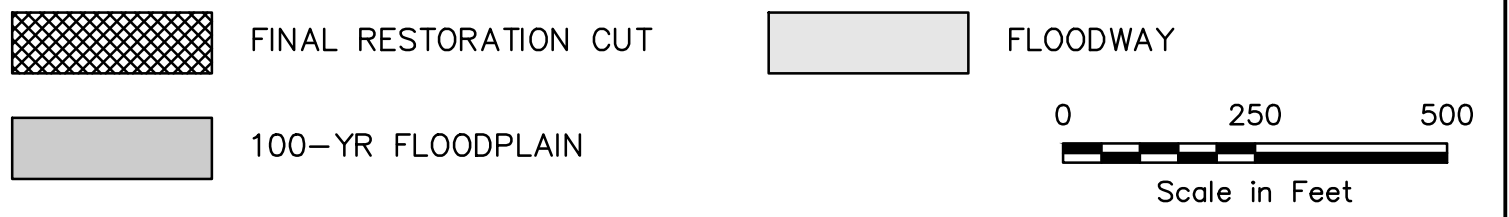
	NUMBER OF PIPES	PIPE DIAMETER	BYPASS LENGTH	CUBIC YARDS
* BYPASS PIPING REMOVAL OUTSIDE FLOODPLAIN	3	24 INCHES	3,140 LF	1,096
BYPASS PIPING REMOVAL WITHIN FLOODPLAIN	3	24 INCHES	6,165 LF	2,152

	MILLING DEPTH	SQUARE FEET	CUBIC YARDS
K ALUM CREEK MULTI-USE PATH MILLING	1.25 INCHES	28,611	111

INTERIM CONSTRUCTION CONDITIONS		FINAL RESTORATION CONDITIONS		NET
CUT	FILL	CUT	FILL	
2,091 CY	4,299 CY	4,410 CY	-	

NOTES:

- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY FACILITIES INSTALLED DURING CONSTRUCTION IN PREPARATION FOR FINAL MATERIAL PLACEMENTS.
- * - INDICATES CUT OUTSIDE THE FLOODPLAIN. NOT INCLUDED WITHIN THE TOTAL CUT AND FILL VOLUME CALCULATIONS.



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

FINAL RESTORATION CUT PLAN
(3 OF 4)

PROJECT TITLE:

ALUM CREEK TRUNK SOUTH (ACT-S)
SANITARY SEWER REHABILITATION - PHASE 1
CIP NO. 650725-100004

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION OF WATER
DIVISION USE ONLY

CITY OF COLUMBUS		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
	RPD	CKD	CLD CON. DR.
	INDEX DETAIL		RECORD FILE

ISSUED STATUS: BID

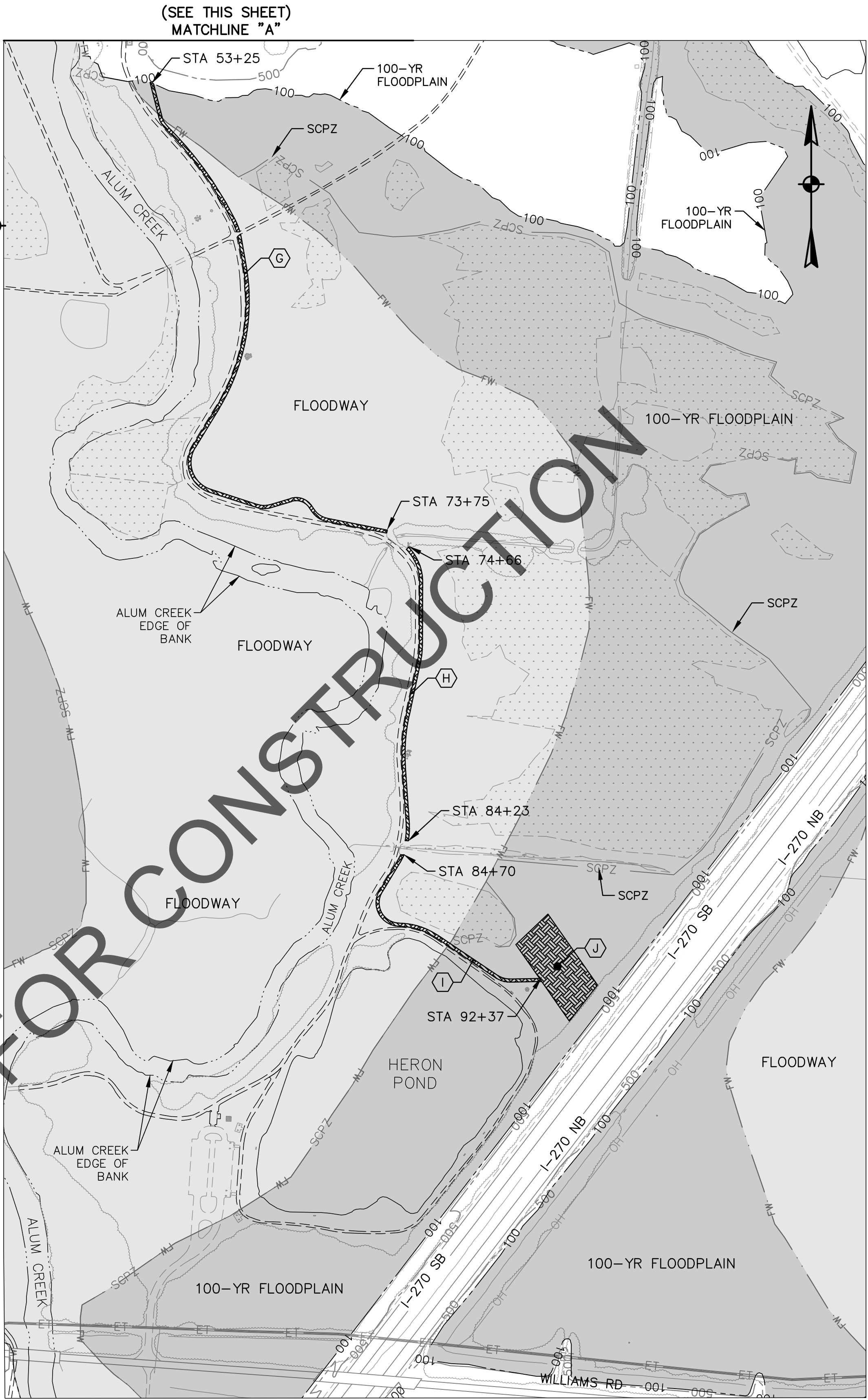
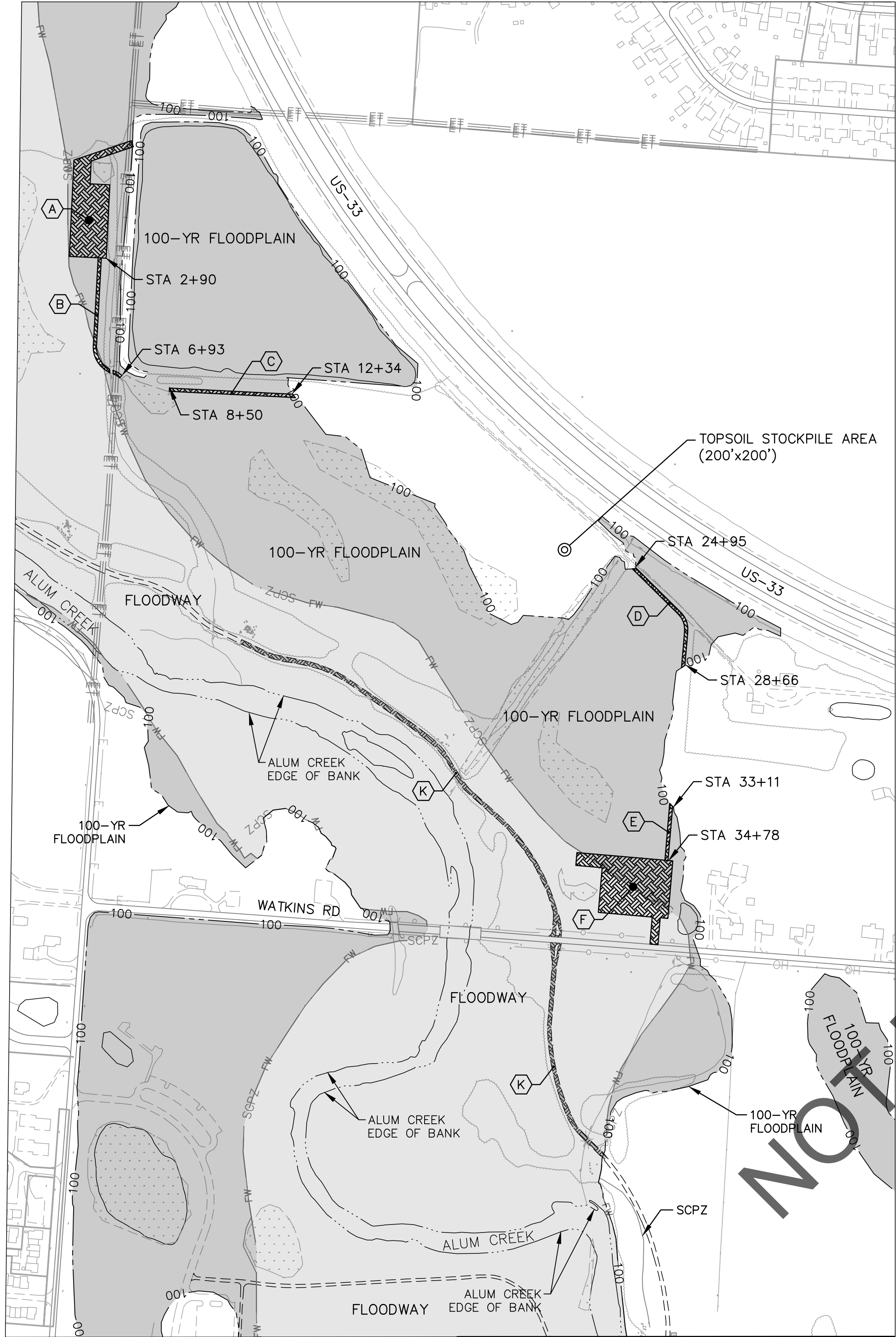
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SHEET: 69 OF 70

CONTRACT DRAWING NO.
CC-18773

RECORD PLAN NO.

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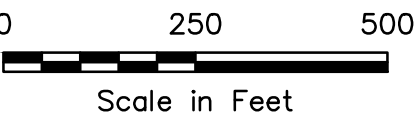
SITE		SQUARE FEET	FILL DEPTH	CUBIC YARDS
A	NORTHERN LAYDOWN AND WORK AREA	33,436	4 INCHES	413
B	10' WIDE ACCESS PATH (2+90-6+93)	4,030	4 INCHES	50
C	10' WIDE ACCESS PATH (8+50-12+34)	3,840	4 INCHES	48
D	10' WIDE ACCESS PATH (24+95-28+66)	3,710	4 INCHES	46
E	10' WIDE ACCESS PATH (33+11-34+78)	1,670	4 INCHES	21
F	WATKINS RD LAYDOWN SITE AND ENTRANCE	44,540	4 INCHES	550
G	10' WIDE ACCESS PATH (53+25-73+75)	20,500	4 INCHES	253
H	10' WIDE ACCESS PATH (74+66-84+23)	9,570	4 INCHES	118
I	10' WIDE ACCESS PATH (84+70-92+37)	7,670	4 INCHES	95
J	SOUTHERN LAYDOWN AND WORK AREA	40,223	4 INCHES	497
K	MULTI-USE PATH ASPHALT OVERLAY	28,611	1.25 INCHES	111
TOTAL FILL FOR FINAL RESTORATION				2,202

INTERIM CONSTRUCTION CONDITIONS		FINAL RESTORATION CONDITIONS		NET
CUT	FILL	CUT	FILL	
2,091 CY	4,299 CY	4,410 CY	2,202 CY	

NOTES:

- THE CONTRACTOR SHALL ENSURE THAT THERE IS NO NET FILL AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES AND PRIOR TO FINAL COMPLETION OF THE PROJECT.
- UPON COMPLETION OF THE FILL IN CONJUNCTION WITH THIS MASS GRADING PLAN, AN APPLICATION FOR A LETTER OF MAP REVISION (LOMR) WILL NOT BE SUBMITTED TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). THUS ANY FUTURE SUBMITTAL TO FEMA WILL FIRST REQUIRE A NEW GRADE AND FILL PLAN WITH PROOF AS THE FILL USED AND PROPER PLACEMENT, INCLUDING COMPACTION. PRIOR TO THE EFFECTIVE DATE OF THE LOMR, A BUILDING CONSTRUCTED WITHIN THE DESIGNATED FILL AREA WILL BE ELEVATED AND/OR DRY FLOOD PROOFED IN ACCORDANCE WITH THE REQUIREMENTS OF C.C. CHAPTER 1150, FLOODPLAIN MANAGEMENT, OR THE COLUMBUS WATER, SEWER, AND ELECTRICITY CODE. FILLING MAY BE ALLOWED IN THE FLOODWAY FRINGE ONLY IF ASSOCIATED WITH A GRADE AND FILL PLAN. THE GRADE AND FILL PLAN SHALL BE FULLY DETAILED AND SUBMITTED AS PART OF AN APPLICATION FOR A CERTIFICATE OF ZONING CLEARANCE HAS BEEN ISSUED FOR GRADING AND FILLING. REGARDLESS OF ANY DETERMINATION ISSUED BY FEMA TO REMOVE AN AREA FILLED AS PERMITTED AND APPROVED FROM THE DESIGNATED SPECIAL FLOOD HAZARD AREA (SFHA), DEVELOPMENT WITHIN THAT AREA OF FILL SHALL BE CONSTRUCTED WITH THE LOWEST FLOOR LEVEL, EXCLUDING A BASEMENT OF CRAWL SPACE, AT OR ABOVE THE FLOOD PROTECTION ELEVATION. THE LOWEST GRADE ADJACENT TO A BUILDING OR STRUCTURE TO BE CONSTRUCTED WITHIN THE DESIGNATED FILL AREA SHALL BE AT OR ABOVE THE FLOOD PROTECTION ELEVATION, WITH THAT GRADE ELEVATION TO EXTENT AT LEAST TWENTY (20) FEET FROM THE PROPOSED BUILDING TOWARDS THE FLOODWAY OR FLOODING SOURCE. IN ADDITION, A RESIDENTIAL DWELLING WITHIN THE DESIGNATED FILL AREA MUST HAVE A MEANS OF INGRESS AND EGRESS AT OR ABOVE THE BASE FLOOD ELEVATION THAT EXTENDS CONTINUOUSLY FROM THE DWELLING TO A LOCATION OUTSIDE THE SPECIAL FLOOD HAZARD AREA WITHIN THE SUBJECT SITE.
- REASONABLE SAFE FROM FLOODING: ALL STRUCTURES ASSOCIATED WITH FUTURE DEVELOPMENT WITHIN THE AREA OF THE FLOODPLAIN FILL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD OF BEING "REASONABLE SAFE FROM FLOODING," AS OUTLINED IN TECHNICAL BULLETIN 10-01, DATED MAY 2001, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) OR SUCCESSOR DOCUMENTS.

-  FINAL RESTORATION FILL
-  100-YR FLOODPLAIN
-  FLOODWAY



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

FINAL RESTORATION FILL PLAN
(4 OF 4)

PROJECT TITLE:

ALUM CREEK TRUNK SOUTH (ACT-S)
SANITARY SEWER REHABILITATION - PHASE 1
CIP NO. 650725-100004

CITY OF COLUMBUS

OWNER

CONTRACTOR

INSPECTOR

AGREEMENT

COMPLETED

RPD

CKD

CLD

CON. DR.

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FILE

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION OF WATER
DIVISION USE ONLY

ISSUED STATUS: BID

SCALE:

SHEET: 70 OF 70

CONTRACT DRAWING NO.
CC-18773

RECORD PLAN NO.