

RESOURCE IMPACT AND CONSERVATION REPORT

DESCRIPTION OF EXISTING RESOURCES:

THE PROJECT SITE CONTAINS NUMEROUS EXISTING RESOURCES, INCLUDING STREAM CHANNELS, WOODLANDS, WETLANDS, STEEP SLOPES, FLOODWAY AREAS AND A GREEN BELT PATH. THE MAIN STREAM CHANNEL OF ASYLUM RUN FOLLOWS ALONG THE EASTERN SIDE OF THE PROJECT SITE. THERE ARE TWO ADDITIONAL STREAM CHANNELS THAT FLOW THROUGH THE NORTH EASTERN PORTION OF THE SITE BEFORE THEY ENTER THE MAIN STREAM CHANNEL. THE MAJORITY OF THE WETLAND AREAS ARE LOCATED IN THE SPACE BETWEEN THE UNNAMED TRIBUTARIES AND THE BOUNDARY LINE AT THE NORTH EASTERN END OF THE SITE, WITH A SMALLER POCKET OF WETLANDS AT THE SOUTHERN END OF THE SITE. THE WOODED AREAS ARE LOCATED PREDOMINANTLY ALONG THE STREAM CHANNELS AND WITHIN THE WETLAND AREAS ALONG THE EASTERN AND SOUTHERN BOUNDARIES. THE 15% TO 25% AND 25%+ STEEP SLOPE AREAS ARE ALSO FOCUSED AROUND THE STREAM CHANNELS AND THE WOODLAND PATCHES, OCCURRING MOSTLY ON THE WESTERN SIDE OF THE STREAM. THERE IS NO FEMA DEFINED FLOODPLAIN ON THE SITE, BUT AN ASSUMED 50 FOOT FLOODWAY IS PROVIDED. THE EXISTING GREEN BELT PATH ENTERS THE PROPERTY OFF THE END OF ANDREA DRIVE, CROSSES THE UNNAMED TRIBUTARY AND FOLLOWS THE WESTERN SIDE OF THE STREAM UNTIL IT REACHES THE SOUTHERN END OF THE SITE.

IMPACT OF THE PROPOSED IMPROVEMENTS ON EXISTING RESOURCES:

AS LABELED ON THE PLAN BELOW, THERE ARE A NUMBER OF IMPACTS ON THE EXISTING RESOURCES. THE CONNECTION TO THE EXISTING SANITARY SEWER LINE WILL DISTURB THE WOODLAND AND STEEP SLOPES AREAS IT PASSES THROUGH AND ENCLOSES WITHIN THE ASSUMED FLOODWAY LINE. THE PROPOSED TRAIL CONNECTION TO THE EXISTING GREEN BELT PATH TRAVERSSES THE STEEP SLOPES AND WOODED AREAS. IN ORDER TO MAKE THE CONNECTION, OTHER PORTIONS OF THE STEEP SLOPES AND WOODED AREAS ARE IMPACTED BY THE EARTHWORK THAT IS NECESSARY FOR THE CONSTRUCTION OF THE APARTMENT BUILDINGS AND STORMWATER FACILITIES. THERE ARE NO PROPOSED IMPACTS TO THE WETLAND AREAS AND STREAM CHANNELS.

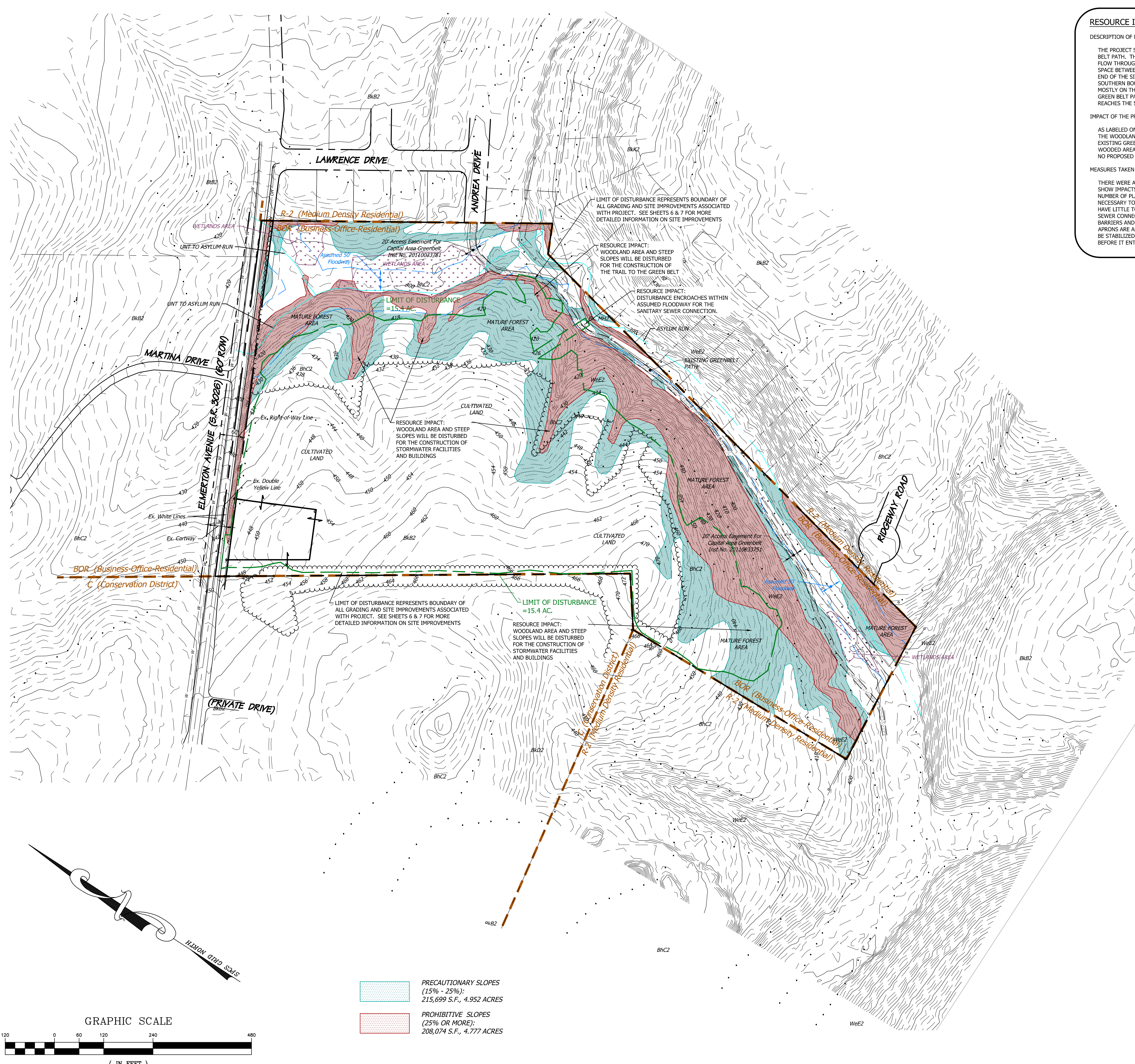
MEASURES TAKEN TO AVOID IMPACTS TO EXISTING RESOURCES:

THERE WERE A NUMBER OF MEASURES TAKEN TO AVOID IMPACTS TO THE EXISTING RESOURCES, BOTH DURING AND AFTER CONSTRUCTION. THE PROPOSED IMPROVEMENTS SHOW IMPACTS TO THE EDGES OF THE WOODED AREAS, BUT AVOID MAJOR CLEARING OF THE MATURE VEGETATION. ADDITIONALLY, STEEP SLOPES WERE IMPACTED IN A NUMBER OF PLACES, BUT THE MAJORITY OF THE STEEP SLOPES WILL REMAIN UNTOUCHED. THE SANITARY SEWER AND TRAIL CONNECTIONS WILL ONLY DISTURB WHAT IS NECESSARY TO CONSTRUCT THE RESPECTIVE IMPROVEMENTS AS THEY GO DOWN THE HILL TOWARD THE STREAM CHANNEL. THE ENCROACHMENT INTO THE FLOODWAY WILL HAVE LITTLE TO NO IMPACT, AS THERE IS NO FILL PROPOSED IN THAT AREA. A GENERAL PERMIT WILL BE OBTAINED FROM DEP IN ORDER TO CONSTRUCT THE SANITARY SEWER CONNECTION WITHIN THE FLOODWAY. THERE ARE NO PROPOSED IMPACTS TO THE WETLAND AREAS AND STREAM CHANNELS. DURING CONSTRUCTION, SEDIMENT BARRIERS AND SEDIMENT TRAPS ARE PROPOSED TO CAPTURE AND FILTER SEDIMENT LADEN RUNOFF TO PREVENT POLLUTION OF THE STREAMS AND WETLANDS. RIPRAP APRONS ARE ALSO PROPOSED TO LIMIT THE POTENTIAL FOR EROSION AT THE PIPE OUTFALLS. AFTER CONSTRUCTION, THE OPEN SPACE AREAS AND STORMWATER BMPs SHALL BE STABILIZED AND SEED AS SOON AS POSSIBLE TO ENCOURAGE INFILTRATION OF STORMWATER, MINIMIZE EROSION AND TO LIMIT THERMAL IMPACTS ON THE RUNOFF BEFORE IT ENTERS THE EXISTING STREAM CHANNELS.

SOILS TABLE

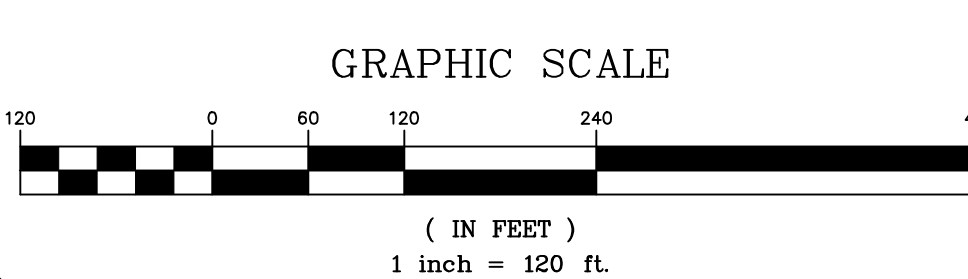
SOIL SYMBOL	SOIL DISCRPTION	SLOPE (%)	HYDROLOGIC SOIL GROUP	DEPTH TO BEDROCK PER SOIL SURVEY	DEPTH TO SEASONAL HIGH WATER TABLE PER SOIL SURVEY
BhC2	Berks Channery Silt Loam	8 to 15	B	36"	> 79"
BkB2	Berks Shaly Silt Loam	3 to 8	B	34"	> 79"
Ph	Philo Silt Loam	N/A	B/D	> 79"	21"
WeE2	Weikert Shaly Silt Loam	25 to 40	D	17"	> 79"

GEOLOGIC INFORMATION:
THE ENTIRE SITE IS UNDERLAIN BY THE HAMBURG SEQUENCE ROCKS FORMATION. THIS FORMATION CONSISTS MAINLY OF SHALE, SILTSTONE AND GRAYWACKE.



PRECAUTIONARY SLOPES (15% - 25%):
215,699 S.F., 4.952 ACRES

PROHIBITIVE SLOPES (25% OR MORE):
208,074 S.F., 4.777 ACRES



Existing Conditions Legend

	Existing 100 Year Floodplain
	Existing Adjacent Property Line
	Existing Benchmark
	Existing Boundary Line
	Existing Right-Of-Way Line
	Existing Building Setback Line
	Existing Street Centerline
	Existing Edge Of Pavement
	Existing Curb
	Existing Paint Line
	Existing Drainage Area
	Existing Minor Contour
	Existing Major Contour
	Existing Fence
	Existing Guideline
	Existing Mailbox
	Existing Property Line Marker
	Existing Concrete Monument
	Existing Sign
	Existing Light
	Existing Soils Boundary
	Existing Stream
	Existing Sidewalk
	Existing Tree
	Existing Deciduous Tree
	Existing Coniferous Tree
	Existing Overhead Utility Wire, Utility Pole, Guy Pole, Guy Wire
	Existing Underground Utilities
	Existing Utility Easement
	Existing Communications Box
	Existing Underground Electric Transformer
	Existing Gas Main, Valve
	Existing Gas Easement
	Existing Gas Lateral, Service Shut-Off
	Existing Water Main, MH, Hydrant, Valve
	Existing Water Lateral, Meter, Service Shut-Off
	Existing Water Easement
	Existing Sanitary Sewer Line, MH
	Existing Sanitary Sewer Easement
	Existing Sanitary Lateral
	Existing Storm Sewer Line, Inlet, MH
	Existing Storm Sewer Easement
	Existing Wetlands

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

R. J. FISHER & ASSOCIATES, INC.
SITE PLANNING & CIVIL ENGINEERING & LAND SURVEYS
1546 BRIDGE STREET, NEW CUMBERLAND, PA. 17070
PHONE: (717) 774-7534 & FAX: (717) 774-7190
RJFISHERENGINEERING.COM



EXISTING RESOURCES, SITE ANALYSIS & RESOURCE IMPACT PLAN
ENCLAVE AT ELMERTON
LOCATED IN SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-RES IMP
PROJECT: 220021
DATE: 06/11/21
SHEET: 2 OF 30

DATE PLOTTED: 06/11/21 10:00 AM
DRAWN BY: J. FISHER
CHECKED BY: J. FISHER
SCALE: AS SHOWN
PROJECT: ENCLAVE AT ELMERTON
SHEET: 2 OF 30

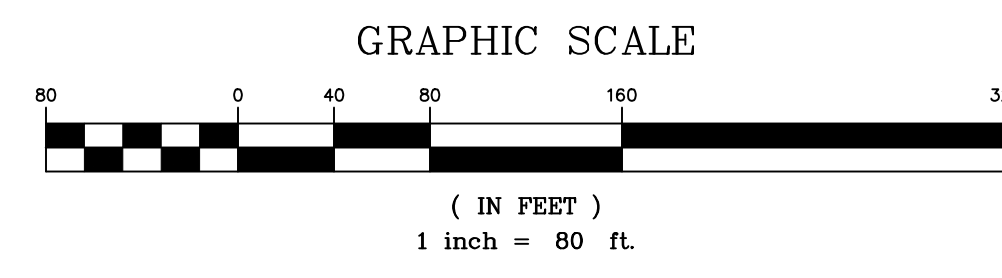


PRECAUTIONARY SLOPES
 (15% - 25%)
 215,699 S.F., 4.952 ACRES

PROHIBITIVE SLOPES
 (25% OR MORE)
 208,074 S.F., 4.777 ACRES

Existing Conditions Legend

	Existing 100 Year Floodplain
	Existing Adjacent Property Line
	Existing Benchmark
	Existing Boundary Line
	Existing Right-Of-Way Line
	Existing Building Setback Line
	Existing Street Centerline
	Existing Edge Of Pavement
	Existing Curb
	Existing Paint Line
	Existing Drainage Area
	Existing Minor Contour
	Existing Major Contour
	Existing Fence
	Existing Gutter/Well
	Existing Mailbox
	Existing Property Line Marker
	Existing Concrete Monument
	Existing Sign
	Existing Light
	Existing Soil Boundary
	Existing Stream
	Existing Sidewalk
	Existing Treeline
	Existing Deciduous Tree
	Existing Coniferous Tree
	Existing Overhead Utility Wire, Utility Pole, Guy Pole, Guy Wire
	Existing Underground Utilities
	Existing Utility Easement
	Existing Communications Box
	Existing Underground Electric Transformer
	Existing Gas Main, Valve
	Existing Gas Easement
	Existing Gas Lateral, Service Shut-Off
	Existing Water Main, MH, Hydrant, Valve
	Existing Water Lateral, Meter, Service Shut-Off
	Existing Water Easement
	Existing Sanitary Sewer Line, MH
	Existing Sanitary Sewer Easement
	Existing Sanitary Lateral
	Existing Storm Sewer Line, Inlet, MH
	Existing Storm Sewer Easement
	Existing Wetlands



NO.	REVISION	DATE
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EXISTING CONDITIONS & LOT CONSOLIDATION PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-EXC
PROJECT:	220021
DATE:	06/11/21
SHEET:	3 OF 30



Proposed Conditions Legend

- Proposed Property Line
- Proposed Right-Of-Way
- Proposed Edge of Pavement
- Proposed Curb
- Proposed Point
- Proposed Sidewalk
- Proposed Building Setback Line
- Proposed Street Centerline
- Proposed Wall
- Proposed Stream/Wetland Easement
- Proposed Storm Sewer Line, Inlet, MH
- Proposed Drainage Easement
- Proposed Sanitary Sewer Line, MH
- Proposed Sanitary Sewer Easement
- Proposed Water Line, Valve, Hydrant
- Proposed Water Line Easement
- Proposed Gas Line, Valve
- Proposed Gas Line Easement
- Proposed Overhead Utility
- Proposed Underground Utility
- Proposed Utility Easement
- Proposed Trestle
- Proposed Property Monument (To Be Set)
- Proposed Concrete Monument (To Be Set)
- Proposed Sign
- Proposed Light
- Proposed Pedestrian Ramp Location (See Detail)

ADDITIONAL ELMERTON AVENUE RIGHT-OF-WAY TO BE DEDICATED TO SUSQUEHANNA TOWNSHIP 0.358 ACRES

ELMERTON AVENUE 40 M.P.H. SPEED LIMIT SIGHT DISTANCE REQUIRED - 550' ACTUAL SIGHT DISTANCE - 425'

ELMERTON AVENUE 40 M.P.H. SPEED LIMIT SIGHT DISTANCE REQUIRED - 425' ACTUAL SIGHT DISTANCE - 1,262'

TRAFFIC SIGN CHART

PLAN SYMBOL	PENNDOT DESIGNATION	SIGN DESCRIPTION	SIZE
(Symbol)	R1-1	STOP	30" X 30"
(Symbol)	D3-1	STREET NAME (VARIES)	(VARIES)
(Symbol)	R8-3	NO PARKING	12" X 12"
(Symbol)	R2-1	SPEED LIMIT	24" X 30"

NOTE: SIGN MATERIALS, COLORS, LETTERING, HEIGHT, CLEARANCE, POST AND MOUNTING SHALL CONFORM TO PENNDOT PUBLICATION TITLE 67, CHAPTER 212: "OFFICIAL TRAFFIC-CONTROL DEVICES".

SEE SHEET 5 FOR CONTINUATION

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

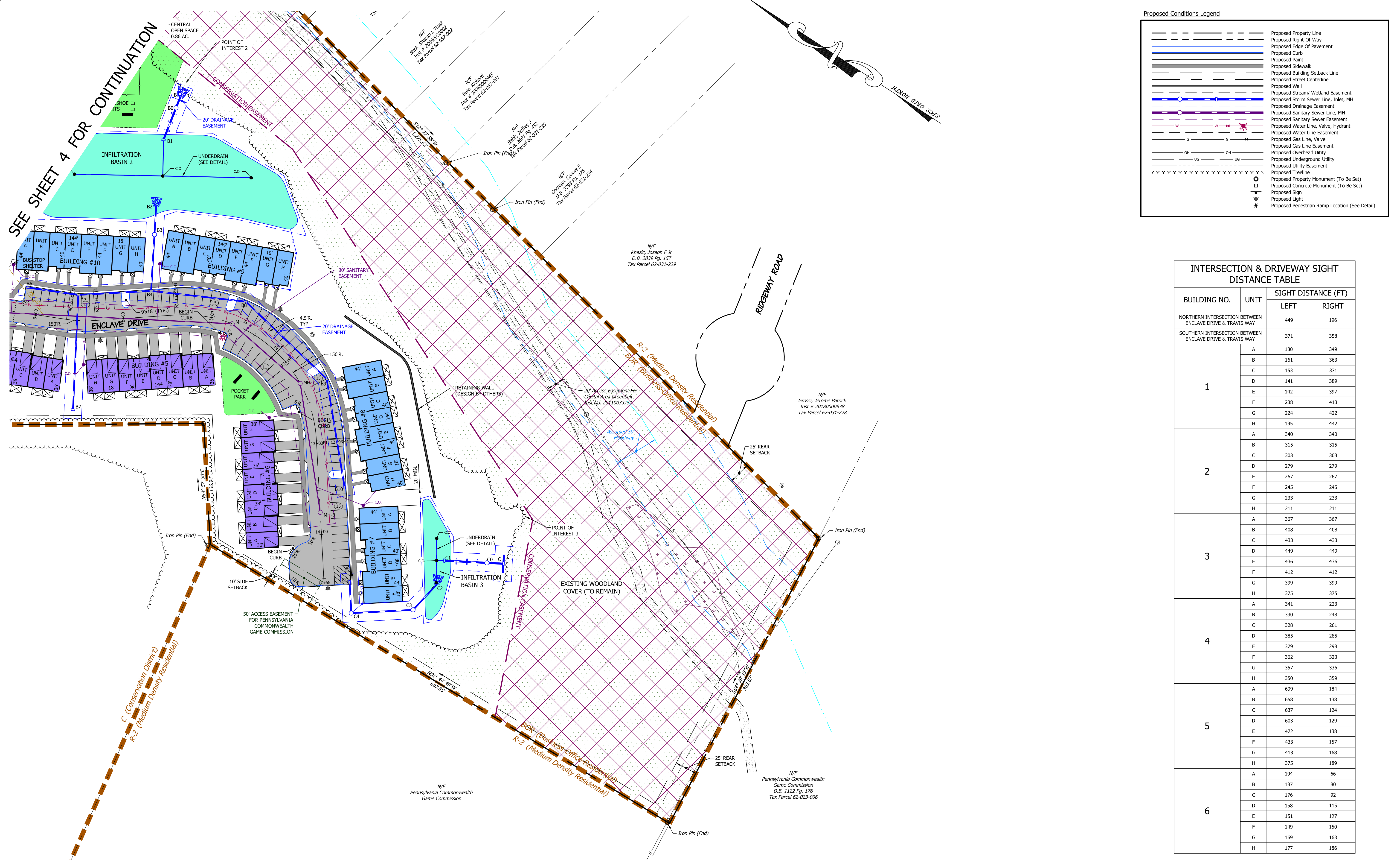
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
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LAND DEVELOPMENT PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-LDP
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 4 OF 30



Proposed Conditions Legend

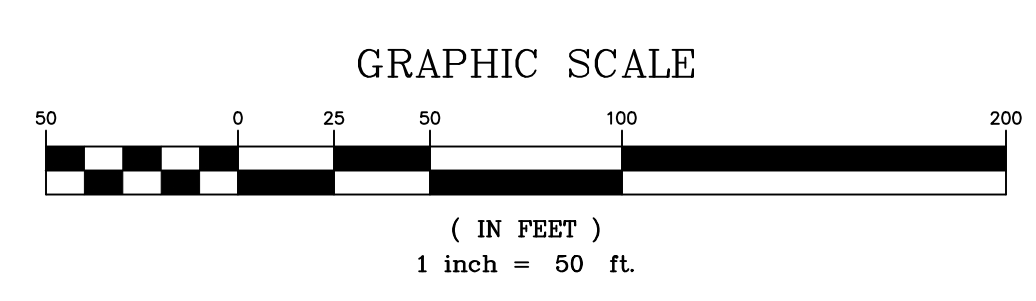
	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Edge of Pavement
	Proposed Curb
	Proposed Pavement
	Proposed Sidewalk
	Proposed Building Setback Line
	Proposed Street Centerline
	Proposed Stream/Wetland Easement
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Drainage Easement
	Proposed Sanitary Sewer Line, MH
	Proposed Sanitary Sewer Easement
	Proposed Water Line, Valve, Hydrant
	Proposed Water Line Easement
	Proposed Gas Line, Valve
	Proposed Gas Line Easement
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	Proposed Underground Utility
	Proposed Utility Easement
	Proposed Trestle
	Proposed Property Monument (To Be Set)
	Proposed Concrete Monument (To Be Set)
	Proposed Sign
	Proposed Light
	Proposed Pedestrian Ramp Location (See Detail)

INTERSECTION & DRIVEWAY SIGHT DISTANCE TABLE

BUILDING NO.	UNIT	SIGHT DISTANCE (FT)	
		LEFT	RIGHT
NORTHERN INTERSECTION BETWEEN ENCLAVE DRIVE & TRAVIS WAY			
		449	196
SOUTHERN INTERSECTION BETWEEN ENCLAVE DRIVE & TRAVIS WAY			
1	A	180	349
	B	161	363
	C	153	371
	D	141	389
	E	142	397
	F	238	413
	G	224	422
	H	195	442
2	A	340	340
	B	315	315
	C	303	303
	D	279	279
	E	267	267
	F	245	245
	G	233	233
	H	211	211
3	A	367	367
	B	408	408
	C	433	433
	D	449	449
	E	436	436
	F	412	412
	G	399	399
	H	375	375
4	A	341	223
	B	330	248
	C	328	261
	D	385	285
	E	379	298
	F	362	323
	G	357	336
	H	350	359
5	A	699	184
	B	658	138
	C	637	124
	D	603	129
	E	472	138
	F	433	157
	G	413	168
	H	375	189
6	A	194	66
	B	187	80
	C	176	92
	D	158	115
	E	151	127
	F	149	150
	G	169	163
	H	177	186

TRAFFIC SIGN CHART

PLAN SYMBOL	PENNDOT DESIGNATION	SIGN DESCRIPTION	SIZE
	R1-1	STOP	30" X 30"
	D3-1	STREET NAME (VARIES)	(VARIES)
	RB-3	NO PARKING	12" X 12"
	R2-1	SPEED LIMIT	24" X 30"



NO.	REVISION	DATE
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2	DRC COMMENTS	08/06/21
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4		
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LAND DEVELOPMENT PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-LDP
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 5 OF 30

NOTE: SIGN MATERIALS, COLORS, LETTERING, HEIGHT, CLEARANCE, POST AND MOUNTING SHALL CONFORM TO PENNDOT PUBLICATION TITLE 67, CHAPTER 212, "OFFICIAL TRAFFIC-CONTROL DEVICES".



Proposed Conditions Legend

[Symbol]	Proposed Property Line
[Symbol]	Proposed Right-Of-Way
[Symbol]	Proposed Edge Of Pavement
[Symbol]	Proposed Curb
[Symbol]	Proposed Sidewalk
[Symbol]	Proposed Retaining Wall
[Symbol]	Proposed Sanitary Sewer Line, MH
[Symbol]	Proposed Storm Sewer Line, Inlet, MH
[Symbol]	Proposed Roof Drain
[Symbol]	Proposed Water Line, Hydrant
[Symbol]	Proposed Gas Line
[Symbol]	Proposed Overhead Utility
[Symbol]	Proposed Underground Utility
[Symbol]	Proposed Minor Contour
[Symbol]	Proposed Major Contour
[Symbol]	Limit of Disturbance/NPDES Boundary
[Symbol]	NPDES Boundary
[Symbol]	Proposed Sign
[Symbol]	Proposed Light
[Symbol]	Proposed Pedestrian Ramp Location (See Detail)
[Symbol]	Proposed Rip-Rap Apron (See Detail)
[Symbol]	Proposed Spot Elevation

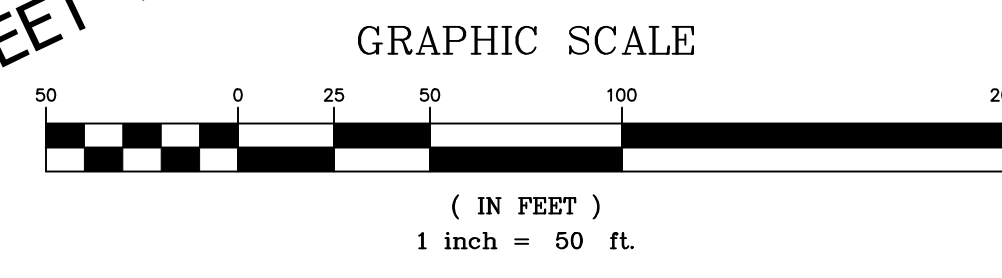
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
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4		
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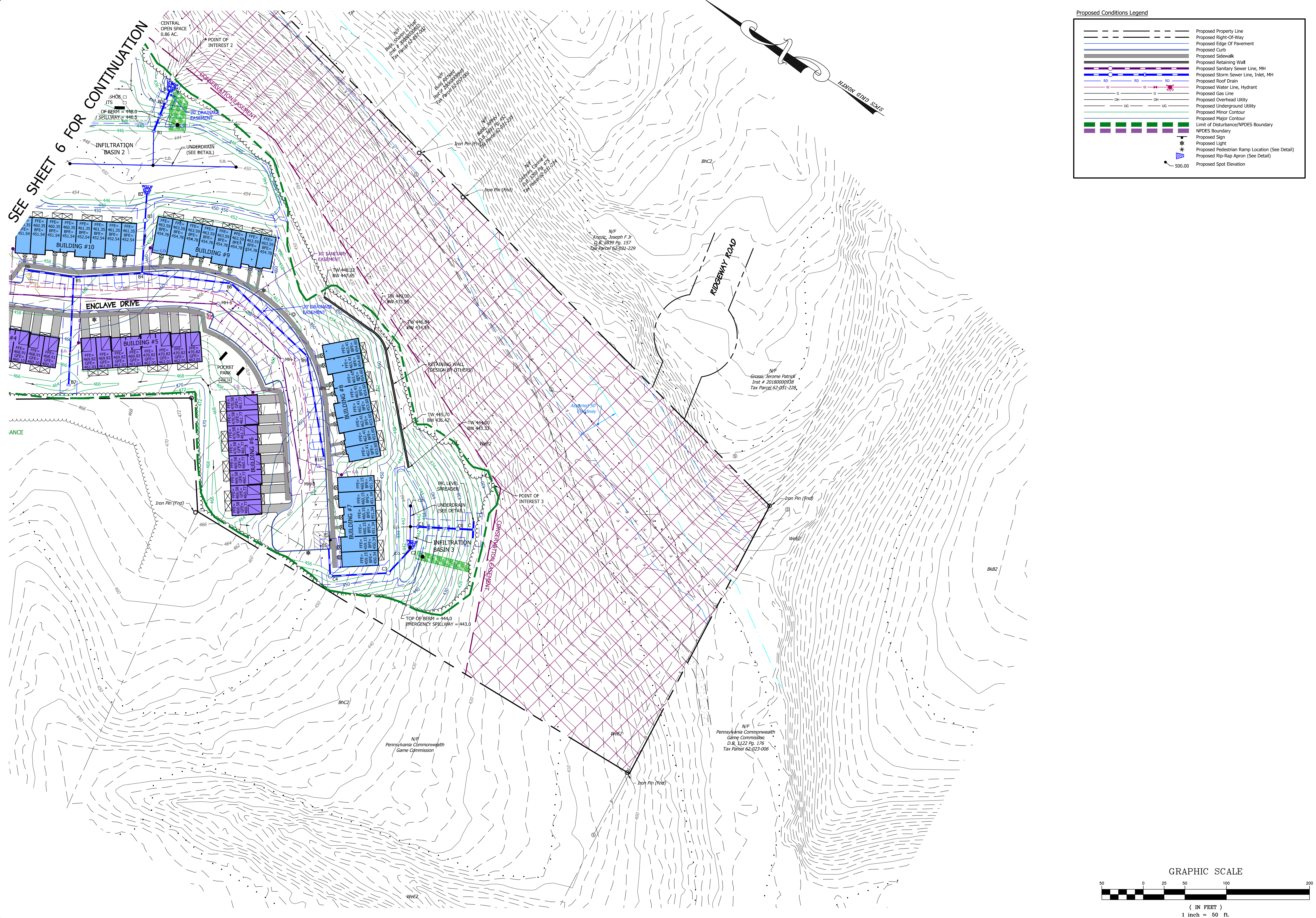
GRADING & PCSM PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-GRD
PROJECT:	220021
DATE:	06/11/21
SHEET:	6 OF 30



SEE SHEET 7 FOR CONTINUATION

6-GRD
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 DATE: 06/11/21 10:48 AM
 USER: JFISHER



Proposed Conditions Legend

---	Proposed Property Line
---	Proposed Right-Of-Way
---	Proposed Edge Of Pavement
---	Proposed Curb
---	Proposed Sidewalk
---	Proposed Retaining Wall
---	Proposed Sanitary Sewer Line, MH
---	Proposed Storm Sewer Line, Inlet, MH
---	Proposed Roof Drain
---	Proposed Water Line, Hydrant
---	Proposed Gas Line
---	Proposed Overhead Utility
---	Proposed Underground Utility
---	Proposed Minor Contour
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---	Limit of Disturbance/NPDES Boundary
---	NPDES Boundary
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---	Proposed Rip-Rap Apron (See Detail)
---	Proposed Spot Elevation

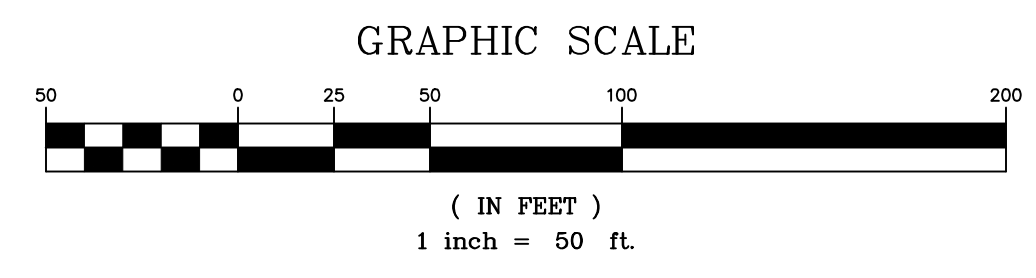
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
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4		
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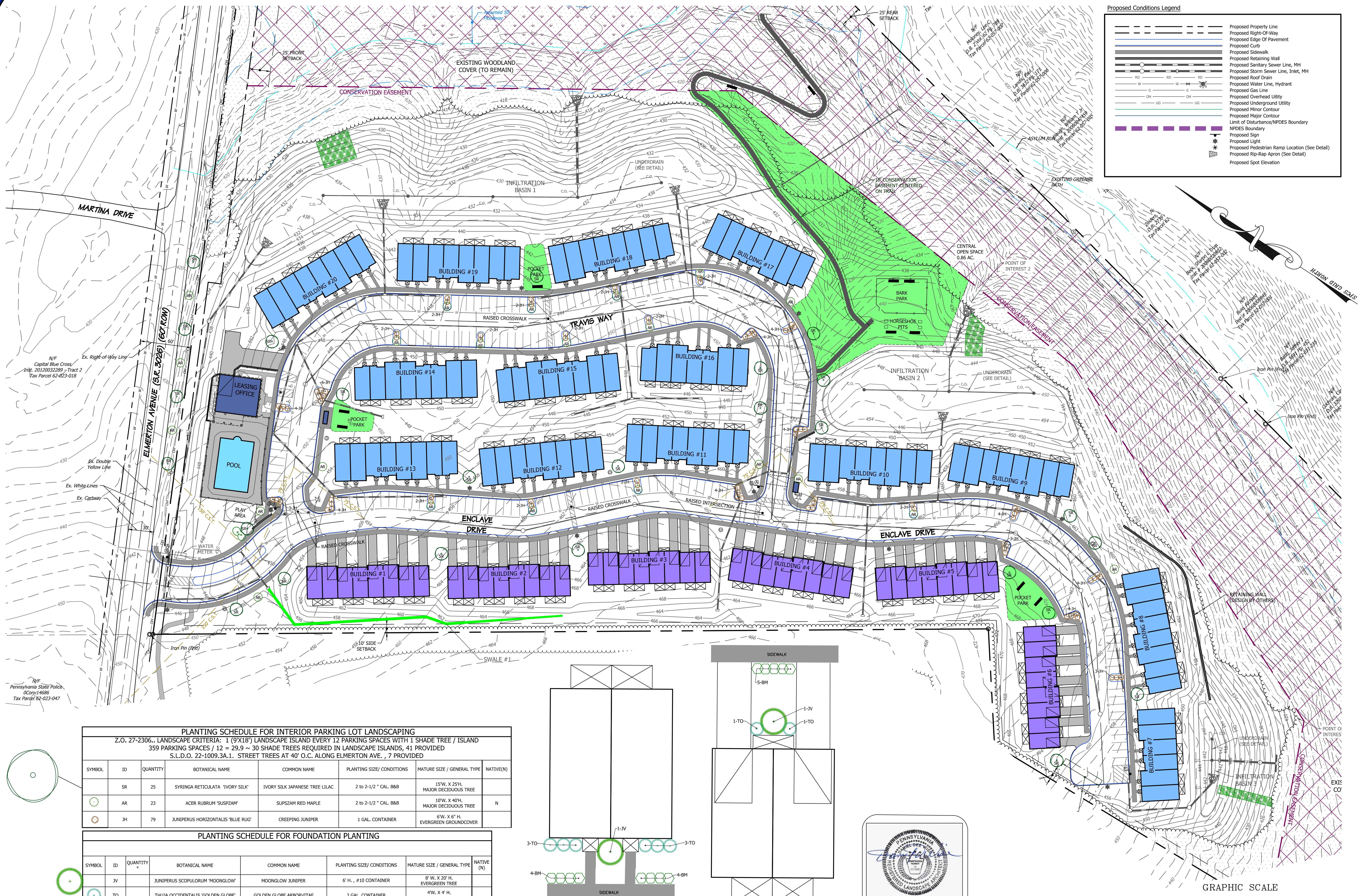


GRADING & PCSM PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-GRD
PROJECT:	220021
DATE:	06/11/21
SHEET:	7 OF 30



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 SHEET: 7 OF 30 (2 of 2) 06/11/21 10:48 AM
 RJD



Proposed Conditions Legend

- Proposed Property Line
- Proposed Right-Of-Way
- Proposed Edge Of Pavement
- Proposed Curb
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- Proposed Spot Elevation

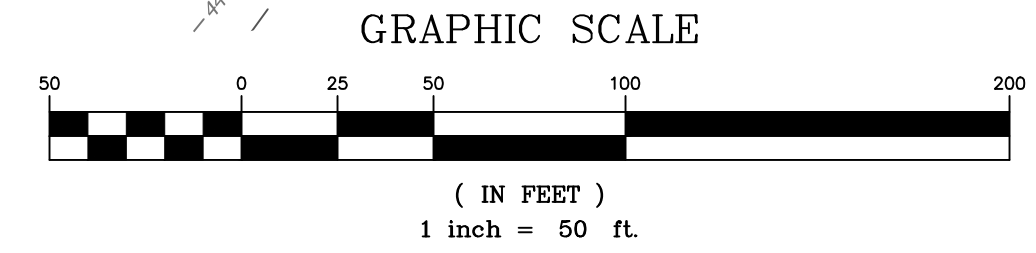
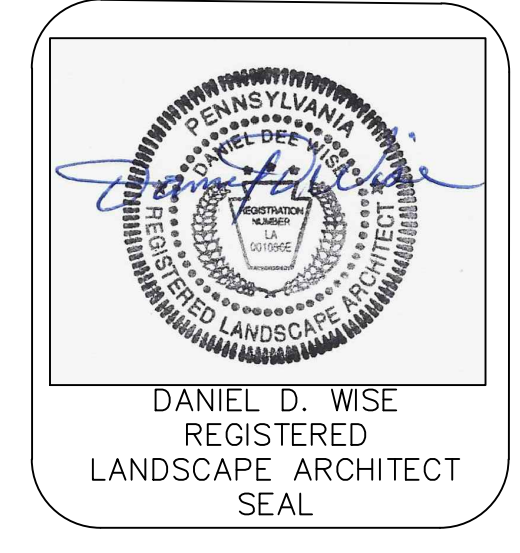
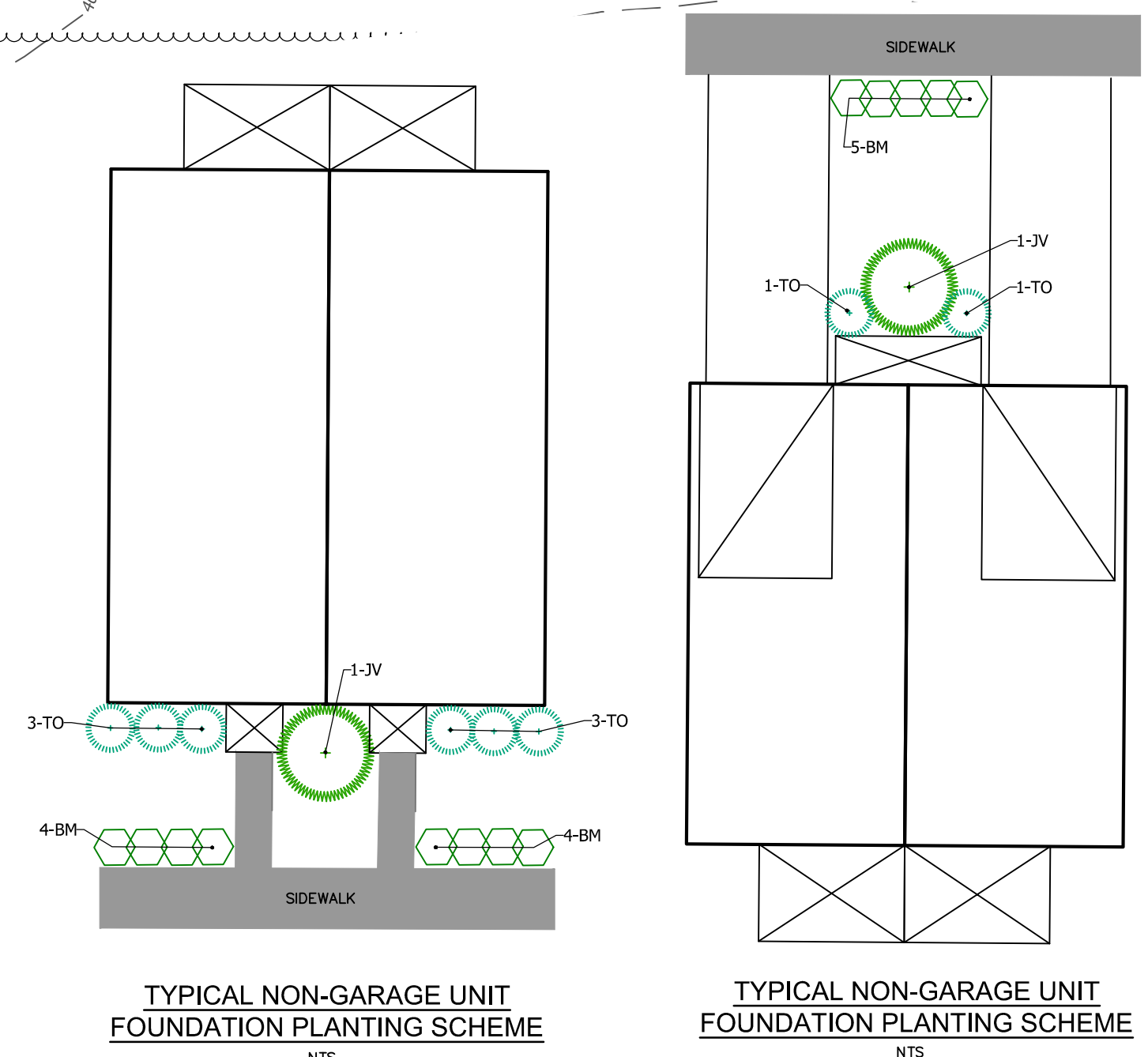
PLANTING SCHEDULE FOR INTERIOR PARKING LOT LANDSCAPING
 Z.O. 27-2306., LANDSCAPE CRITERIA: 1 (9'X18') LANDSCAPE ISLAND EVERY 12 PARKING SPACES WITH 1 SHADE TREE / ISLAND 359 PARKING SPACES / 12 = 29.9 ~ 30 SHADE TREES REQUIRED IN LANDSCAPE ISLANDS, 41 PROVIDED
 S.L.D.O. 22-1009.3A.1. STREET TREES AT 40' O.C. ALONG ELMERTON AVE., 7 PROVIDED

SYMBOL	ID	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE/ CONDITIONS	MATURE SIZE / GENERAL TYPE	NATIVE(N)
SR	25		SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	2 to 2-1/2" CAL. B&B	15'W. X 25'H. MAJOR DECIDUOUS TREE	
AR	23		ACER RUBRUM 'SUSPZAM'	SUSPZAM RED MAPLE	2 to 2-1/2" CAL. B&B	10'W. X 40'H. MAJOR DECIDUOUS TREE	N
JH	79		JUNIPERUS HORIZONTALIS 'BLUE RUG'	CREeping JUNIPER	1 GAL. CONTAINER	6'W. X 6" H. EVERGREEN GROUNDCOVER	

PLANTING SCHEDULE FOR FOUNDATION PLANTING

SYMBOL	ID	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE/ CONDITIONS	MATURE SIZE / GENERAL TYPE	NATIVE (N)
JV			JUNIPERUS SCOPULORUM 'MOONGLOW'	MOONGLOW JUNIPER	6" H., #10 CONTAINER	8' W. X 20' H. EVERGREEN TREE	
TO			THUJA OCCIDENTALIS 'GOLDEN GLOBE'	GOLDEN GLOBE ARBORVITAE	2 GAL. CONTAINER	4'W. X 4' H. EVERGREEN SHRUB	
BM			BUXUS MICROPHYLLA 'GREEN PILLOW'	GREEN PILLOW JAPANESE BOXWOOD	2 GAL. CONTAINER	3'W. X 2' H. EVERGREEN SHRUB	

NOTE: QUANTITY AS REQUIRED BY TYPICAL FOUNDATION PLANTING PLAN SCHEMES



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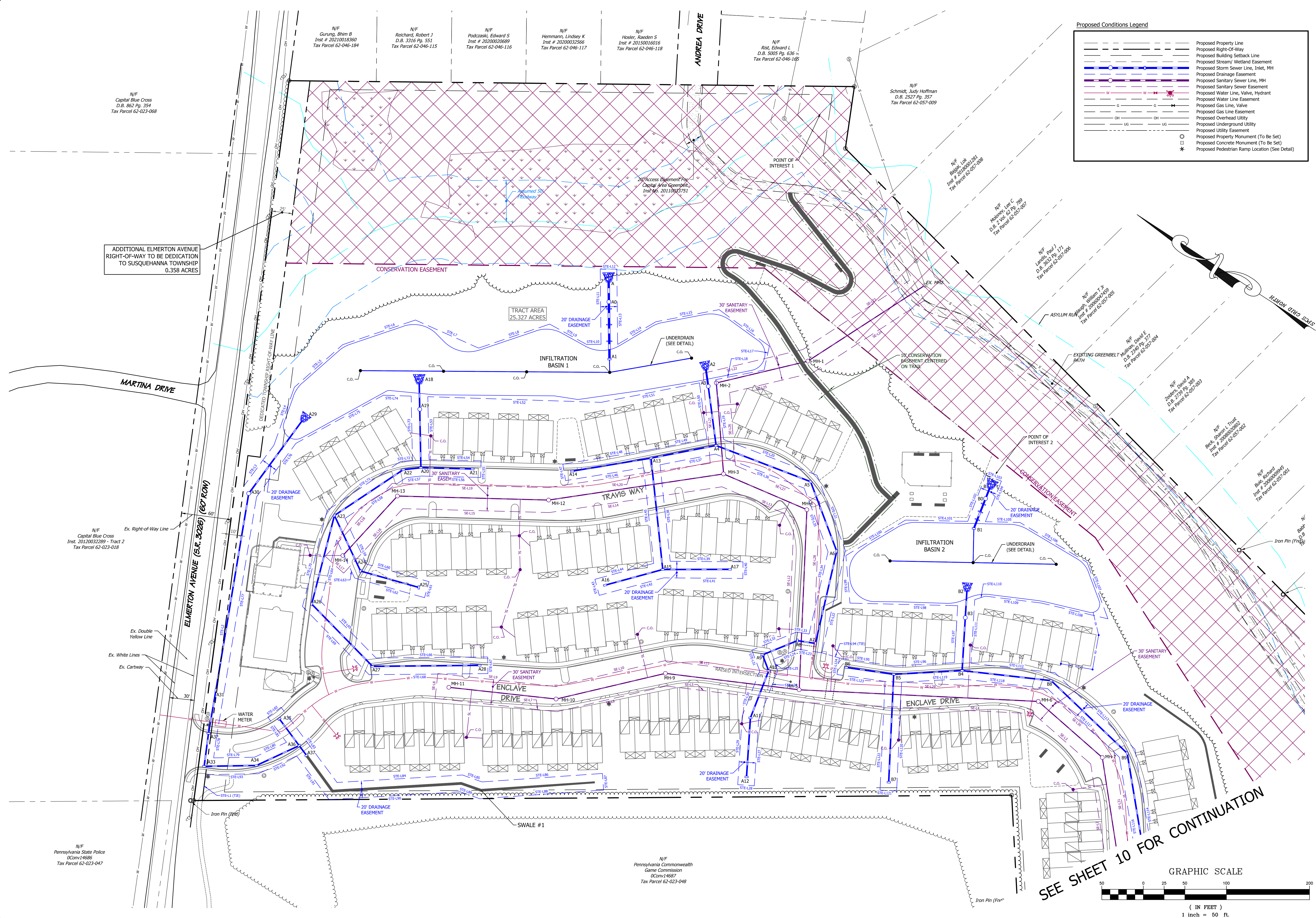


LANDSCAPE & STREETScape PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-LSCP
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 8 OF 30

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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Proposed Conditions Legend

	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Building Setback Line
	Proposed Stream/Wetland Easement
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Drainage Easement
	Proposed Sanitary Sewer Line, MH
	Proposed Sanitary Sewer Easement
	Proposed Water Line, Valve, Hydrant
	Proposed Water Line Easement
	Proposed Gas Line, Valve
	Proposed Gas Line Easement
	Proposed Overhead Utility
	Proposed Underground Utility
	Proposed Utility Easement
	Proposed Property Monument (To Be Set)
	Proposed Concrete Monument (To Be Set)
	Proposed Pedestrian Ramp Location (See Detail)

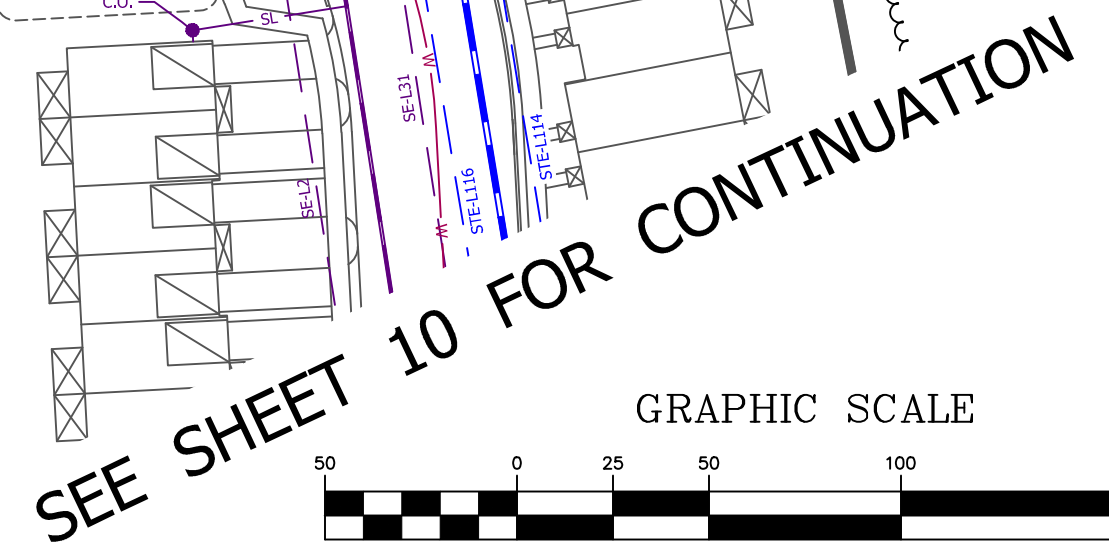
ADDITIONAL ELMERTON AVENUE RIGHT-OF-WAY TO BE DEDICATION TO SUSQUEHANNA TOWNSHIP 0.358 ACRES

N/F Capital Blue Cross D.B. 862 Pg. 354 Tax Parcel 62-023-068

N/F Capital Blue Cross Inst. 20120032289 - Tract 2 Tax Parcel 62-023-018

N/F Pennsylvania State Police 0Conv14686 Tax Parcel 62-023-047

N/F Pennsylvania Commonwealth Game Commission 0Conv14687 Tax Parcel 62-023-048



SEE SHEET 10 FOR CONTINUATION

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

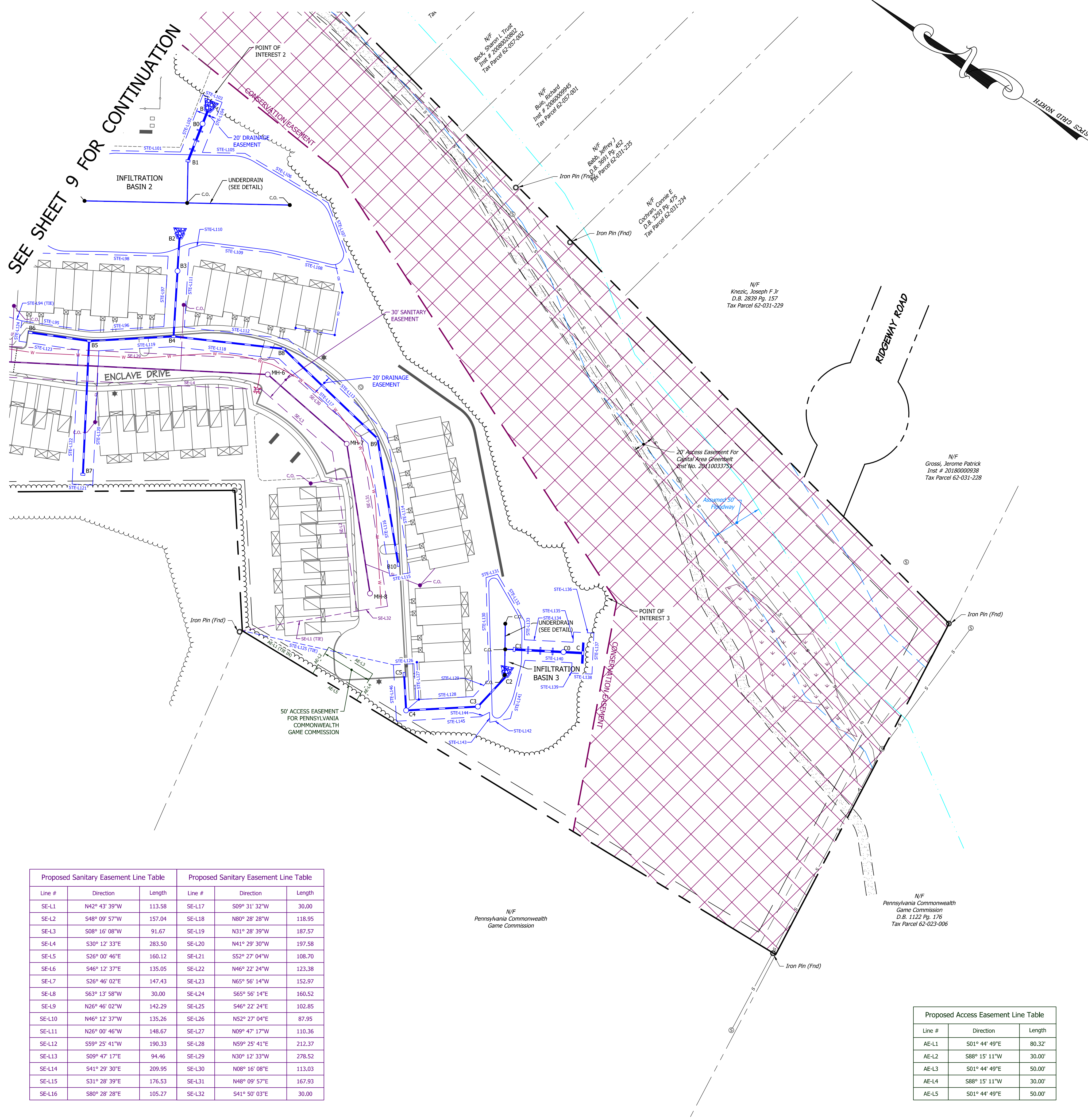
R. J. FISHER & ASSOCIATES, INC.
 SITE PLANNING & CIVIL ENGINEERING & LAND SURVEYS
 1546 BRIDGE STREET, NEW CUMBERLAND, PA. 17070
 PHONE: (717) 774-7534 & FAX: (717) 774-7190
 RJFISHERENGINEERING.COM



EASEMENT PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-EASE
PROJECT:	220021
DATE:	06/11/21
SHEET:	9 OF 30

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Proposed Conditions Legend

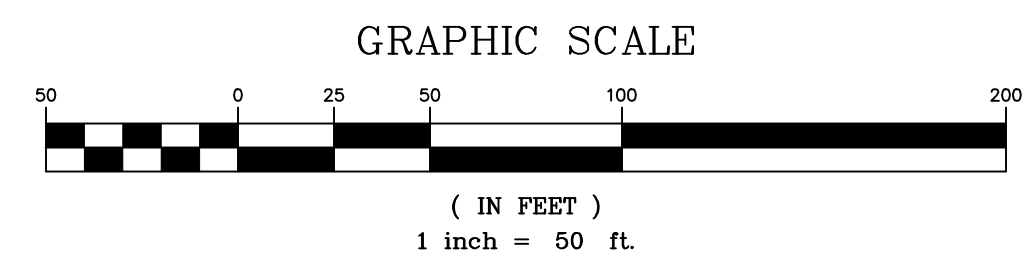
	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Building Setback Line
	Proposed Stream/Wetland Easement
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Drainage Easement
	Proposed Sanitary Sewer Line, MH
	Proposed Sanitary Sewer Easement
	Proposed Water Line, Valve, Hydrant
	Proposed Gas Line, Valve
	Proposed Gas Line Easement
	Proposed Overhead Utility
	Proposed Underground Utility
	Proposed Utility Easement
	Proposed Property Monument (To Be Set)
	Proposed Concrete Monument (To Be Set)
	Proposed Pedestrian Ramp Location (See Detail)

Proposed Storm Easement Line Table			Proposed Storm Easement Line Table			Proposed Storm Easement Line Table		
Line #	Direction	Length	Line #	Direction	Length	Line #	Direction	Length
STE-L1	S64° 32' 35"W	31.37	STE-L50	N49° 28' 20"E	67.88	STE-L99	S52° 00' 44"W	57.45
STE-L2	S64° 32' 35"W	350.18	STE-L51	N44° 12' 14"W	120.75	STE-L100	N63° 41' 32"W	83.57
STE-L3	S86° 41' 14"E	61.00	STE-L52	N31° 07' 03"W	208.56	STE-L101	N31° 50' 04"W	74.83
STE-L4	N76° 33' 10"E	74.16	STE-L53	S55° 53' 01"W	75.73	STE-L102	S78° 27' 53"W	59.92
STE-L5	S74° 22' 45"E	77.39	STE-L54	S31° 38' 30"E	62.58	STE-L103	N11° 32' 07"W	20.00
STE-L6	S51° 44' 10"E	92.37	STE-L55	S58° 21' 30"W	20.00	STE-L104	N78° 27' 53"E	52.52
STE-L7	S09° 04' 31"E	83.26	STE-L56	N31° 38' 30"W	71.49	STE-L105	N31° 50' 04"W	41.49
STE-L8	S51° 37' 27"E	90.23	STE-L57	N39° 13' 40"W	18.20	STE-L106	N02° 16' 12"W	94.09
STE-L9	S04° 10' 12"E	50.75	STE-L58	N66° 39' 26"W	88.48	STE-L107	N36° 43' 01"E	72.41
STE-L10	S33° 54' 38"E	17.34	STE-L59	S31° 51' 12"W	60.63	STE-L108	S19° 39' 58"E	82.46
STE-L11	N56° 23' 10"E	90.27	STE-L60	S17° 16' 31"E	78.27	STE-L109	S25° 57' 35"E	67.66
STE-L12	S33° 36' 50"E	20.00	STE-L61	S72° 43' 29"W	20.00	STE-L110	S51° 10' 13"E	13.65
STE-L13	S56° 23' 10"W	90.66	STE-L62	N17° 16' 31"W	87.41	STE-L111	N60° 26' 31"E	76.62
STE-L14	S63° 39' 04"E	53.45	STE-L63	N31° 51' 12"E	50.58	STE-L112	N26° 34' 09"W	101.76
STE-L15	S43° 49' 02"E	77.46	STE-L64	S71° 24' 50"W	76.59	STE-L113	N10° 41' 28"E	133.20
STE-L16	S02° 56' 52"W	74.77	STE-L65	S12° 39' 51"W	94.88	STE-L114	N47° 36' 55"E	137.50
STE-L17	S69° 22' 19"W	29.46	STE-L66	S33° 31' 24"E	134.46	STE-L115	S42° 23' 05"E	20.00
STE-L18	N44° 12' 14"W	59.33	STE-L67	S56° 28' 36"W	20.00	STE-L116	S47° 36' 55"W	130.82
STE-L19	S49° 28' 20"W	72.63	STE-L68	N33° 31' 24"W	142.99	STE-L117	S10° 41' 28"W	119.78
STE-L20	S12° 02' 51"E	120.32	STE-L69	N12° 39' 51"E	114.67	STE-L118	S26° 34' 09"E	103.68
STE-L21	S36° 23' 17"W	96.91	STE-L70	N71° 24' 50"E	119.48	STE-L119	S36° 06' 06"E	72.59
STE-L22	S69° 59' 24"W	126.12	STE-L71	S66° 39' 26"E	105.80	STE-L120	N59° 38' 51"E	130.96
STE-L23	N24° 26' 13"W	28.52	STE-L72	S39° 13' 40"E	14.60	STE-L121	S30° 21' 09"E	20.00
STE-L24	N55° 05' 07"W	32.76	STE-L73	N55° 53' 01"E	77.21	STE-L122	S59° 38' 51"W	130.93
STE-L25	S35° 52' 20"W	14.76	STE-L74	N31° 07' 03"W	33.46	STE-L123	S24° 47' 01"E	58.43
STE-L26	S78° 15' 37"W	62.98	STE-L75	N61° 49' 08"W	120.28	STE-L124	S65° 12' 59"W	20.00
STE-L27	S60° 45' 39"W	79.68	STE-L76	N86° 41' 14"W	79.80	STE-L125	N20° 18' 06"W	150.89
STE-L28	N29° 14' 21"W	20.00	STE-L77	S66° 28' 15"W	298.09	STE-L126	S36° 06' 33"E	20.00
STE-L29	N60° 45' 39"E	82.76	STE-L78	S64° 28' 46"W	20.24	STE-L127	S53° 53' 27"W	35.05
STE-L30	N78° 15' 37"E	58.31	STE-L79	S33° 54' 45"E	49.17	STE-L128	S36° 02' 30"E	56.01
STE-L31	N35° 52' 20"E	26.68	STE-L80	S57° 56' 06"E	42.48	STE-L129	S80° 00' 04"E	22.11
STE-L32	S55° 05' 07"E	57.91	STE-L81	N20° 21' 57"E	37.74	STE-L130	N55° 30' 15"E	99.81
STE-L33	S24° 26' 13"E	15.48	STE-L82	S69° 38' 03"E	20.00	STE-L131	S48° 38' 01"E	11.68
STE-L34	N69° 59' 24"E	101.57	STE-L83	S20° 21' 57"W	112.83	STE-L132	S27° 10' 25"W	52.99
STE-L35	N36° 23' 17"E	81.87	STE-L84	N36° 24' 13"W	151.26	STE-L133	S57° 41' 58"W	17.75
STE-L36	N12° 02' 51"W	114.42	STE-L85	N13° 38' 22"W	24.97	STE-L134	S30° 00' 03"E	47.46
STE-L37	N43° 58' 18"W	67.76	STE-L86	S37° 00' 44"E	145.18	STE-L135	N59° 59' 57"E	10.00
STE-L38	S50° 58' 43"W	116.73	STE-L87	S52° 59' 16"W	20.00	STE-L136	N30° 00' 03"W	20.00
STE-L39	S32° 32' 42"E	87.59	STE-L88	S37° 00' 44"E	149.32	STE-L137	S59° 42' 19"W	40.00
STE-L40	S57° 27' 18"W	20.00	STE-L89	S13° 38' 22"E	25.08	STE-L138	S30° 00' 03"E	20.00
STE-L41	N32° 32' 42"W	95.15	STE-L90	S36° 24' 13"E	158.04	STE-L139	N59° 59' 57"E	10.00
STE-L42	N48° 10' 57"W	80.51	STE-L91	N20° 21' 57"E	65.47	STE-L140	N30° 00' 03"W	45.85
STE-L43	N41° 49' 03"E	20.00	STE-L92	N57° 56' 06"W	50.88	STE-L141	S71° 01' 49"W	58.37
STE-L44	S48° 10' 57"E	73.37	STE-L93	N33° 54' 45"W	63.37	STE-L142	N43° 28' 10"W	20.47
STE-L45	N50° 58' 43"E	115.71	STE-L94	S16° 10' 08"E	22.07	STE-L143	N55° 30' 15"E	9.67
STE-L46	N42° 22' 31"W	95.32	STE-L95	N24° 47' 01"W	66.51	STE-L144	N58° 59' 38"W	9.77
STE-L47	N47° 37' 29"E	20.00	STE-L96	N36° 06' 06"W	72.56	STE-L145	N36° 02' 30"W	82.05
STE-L48	S42° 22' 31"E	105.78	STE-L97	S60° 26' 31"W	68.71	STE-L146	N53° 53' 27"E	55.03
STE-L49	S43° 58' 18"E	70.23	STE-L98	S31° 37' 06"E	129.67			

Proposed Sanitary Easement Line Table			Proposed Sanitary Easement Line Table		
Line #	Direction	Length	Line #	Direction	Length
SE-L1	N42° 43' 39"W	113.58	SE-L17	S09° 31' 32"W	30.00
SE-L2	S48° 09' 57"W	157.04	SE-L18	N80° 28' 28"W	118.95
SE-L3	S08° 16' 08"W	91.67	SE-L19	N31° 28' 39"W	187.57
SE-L4	S30° 12' 33"E	283.50	SE-L20	N41° 29' 30"W	197.58
SE-L5	S26° 00' 46"E	160.12	SE-L21	S52° 27' 04"W	108.70
SE-L6	S46° 12' 37"E	135.05	SE-L22	N46° 22' 24"W	123.38
SE-L7	S26° 46' 02"E	147.43	SE-L23	N65° 56' 14"W	152.97
SE-L8	S63° 13' 58"W	30.00	SE-L24	S65° 56' 14"E	160.52
SE-L9	N26° 46' 02"W	142.29	SE-L25	S46° 22' 24"E	102.85
SE-L10	N46° 12' 37"W	135.26	SE-L26	N52° 27' 04"E	87.95
SE-L11	N26° 00' 46"W	148.67	SE-L27	N09° 47' 17"W	110.36
SE-L12	S59° 25' 41"W	190.33	SE-L28	N59° 25' 41"E	212.37
SE-L13	S09° 47' 17"E	94.46	SE-L29	N30° 12' 33"W	278.52
SE-L14	S41° 29' 30"E	209.95	SE-L30	N08° 16' 08"E	113.03
SE-L15	S31° 28' 39"E	176.53	SE-L31	N48° 09' 57"E	167.93
SE-L16	S80° 28' 28"E	105.27	SE-L32	S41° 50' 03"E	30.00

Proposed Access Easement Line Table

Line #	Direction	Length
AE-L1	S01° 44' 49"E	80.32'
AE-L2	S88° 15' 11"W	30.00'
AE-L3	S01° 44' 49"E	50.00'
AE-L4	S88° 15' 11"W	30.00'
AE-L5	S01° 44' 49"E	50.00'



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 RJFISHERENGINEERING.COM



EASEMENT PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-EASE
PROJECT:	220021
DATE:	06/11/21
SHEET:	10 OF 30

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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Proposed Conditions Legend

	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Edge of Pavement
	Proposed Curb
	Proposed Sidewalk
	Proposed Retaining Wall
	Proposed Sanitary Sewer Line, MH
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Roof Drain
	Proposed Water Line, Hydrant
	Proposed Gas Line
	Proposed Overhead Utility
	Proposed Underground Utility
	Proposed Minor Contour
	Proposed Major Contour
	Limit of Disturbance
	Drainage Area
	Proposed Inlet Protection, Waterbar, Inlet I.D.

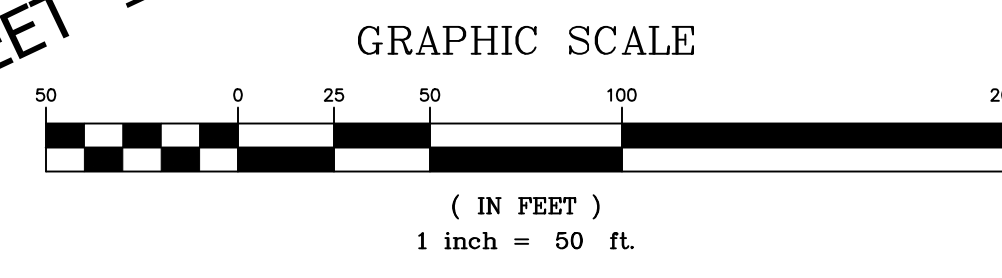
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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 RJFISHERENGINEERING.COM



E&S POLLUTION CONTROL PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-EnS
PROJECT:	220021
DATE:	06/11/21
SHEET:	11 OF 30



SEE SHEET 12 FOR CONTINUATION

SEE SHEET 11 FOR CONTINUATION



Proposed Conditions Legend

	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Edge Of Pavement
	Proposed Curb
	Proposed Sidewalk
	Proposed Retaining Wall
	Proposed Sanitary Sewer Line, MH
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Roof Drain
	Proposed Water Line, Hydrant
	Proposed Gas Line
	Proposed Overhead Utility
	Proposed Underground Utility
	Proposed Minor Contour
	Proposed Major Contour
	Limit of Disturbance
	Drainage Area
	Proposed Inlet Protection, Waterbar, Inlet I.D.

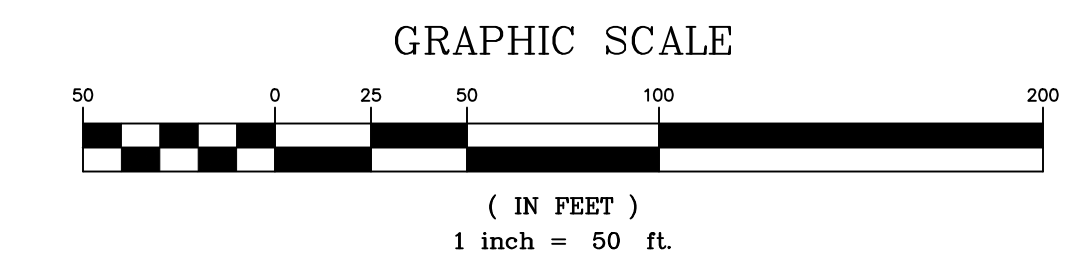
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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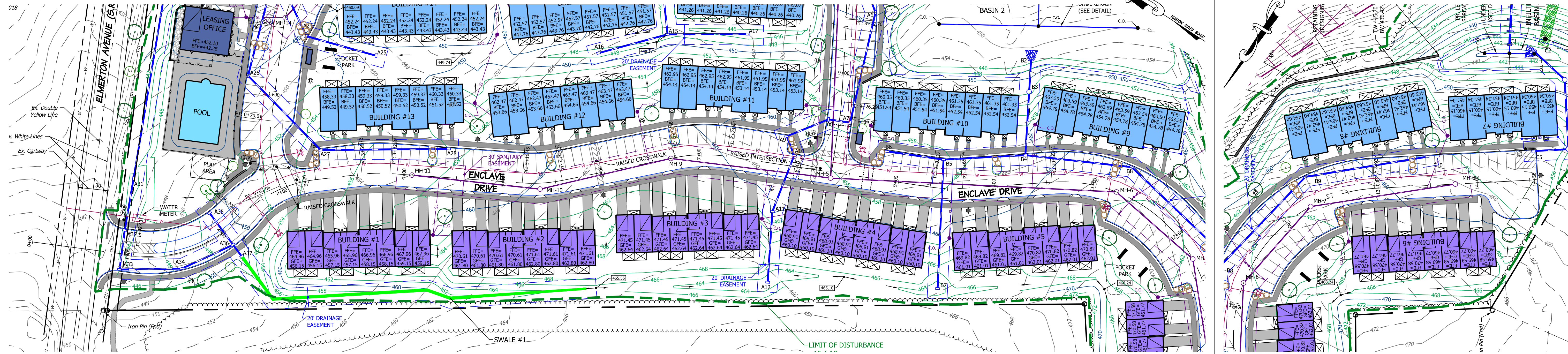
E&S POLLUTION CONTROL PLAN
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-EnS
PROJECT:	220021
DATE:	06/11/21
SHEET:	12 OF 30

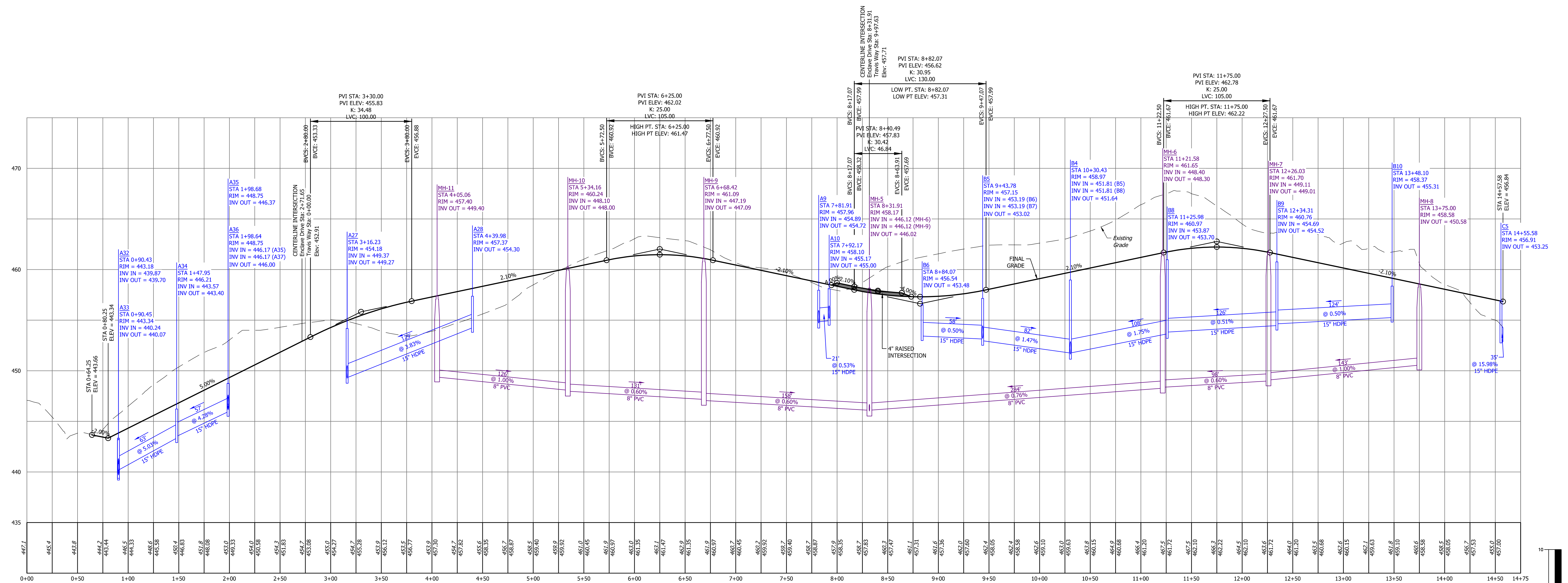


12-ENS

018

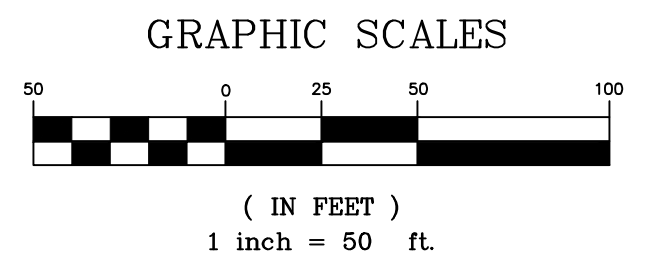


Plan View Of Enclave Drive
Scale: 1" = 50'



Profile View Of Enclave Drive Sta: 0+00.00 - 14+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2".



NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
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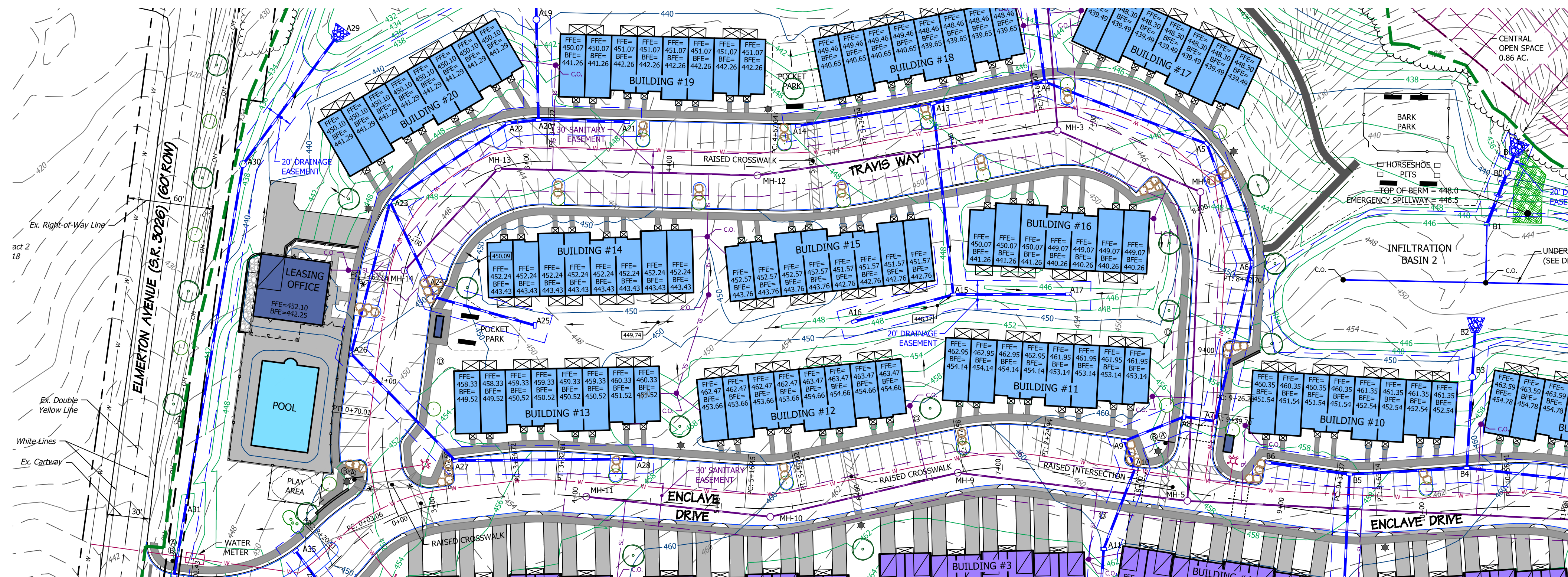
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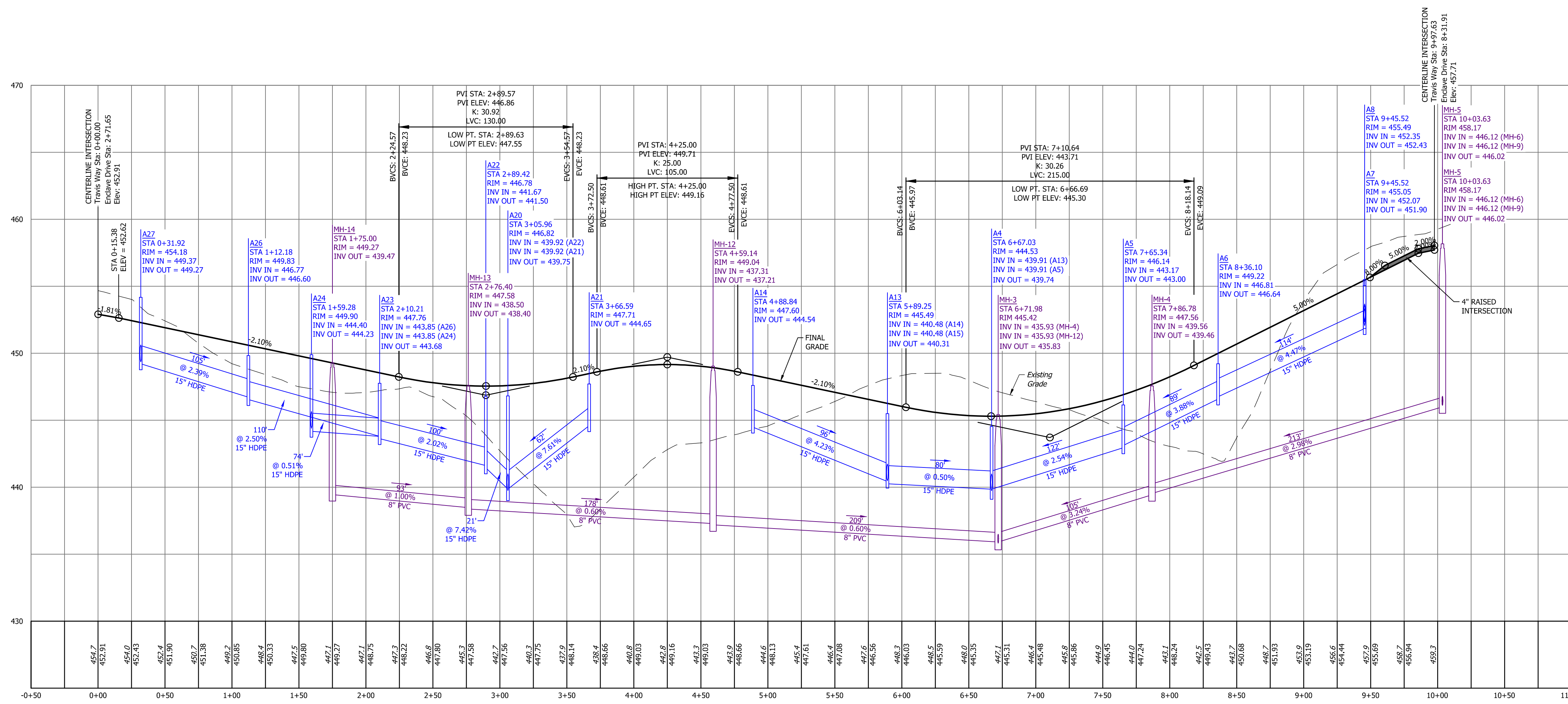
STREET PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	13 OF 30

13-PRO

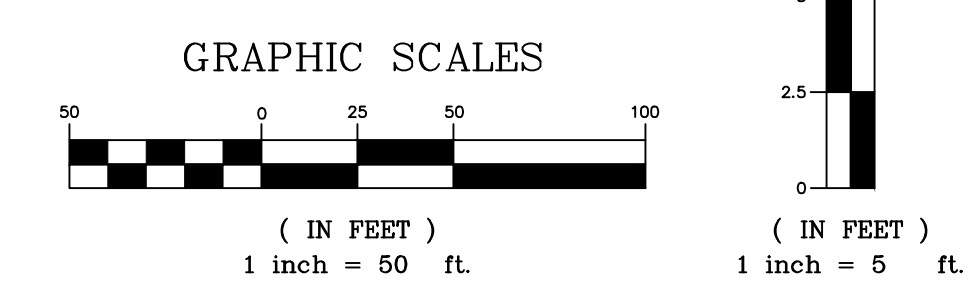


Plan View Of Travis Way
Scale: 1"=50'



Profile View Of Travis Way Sta: -0+50.00 - 11+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2".



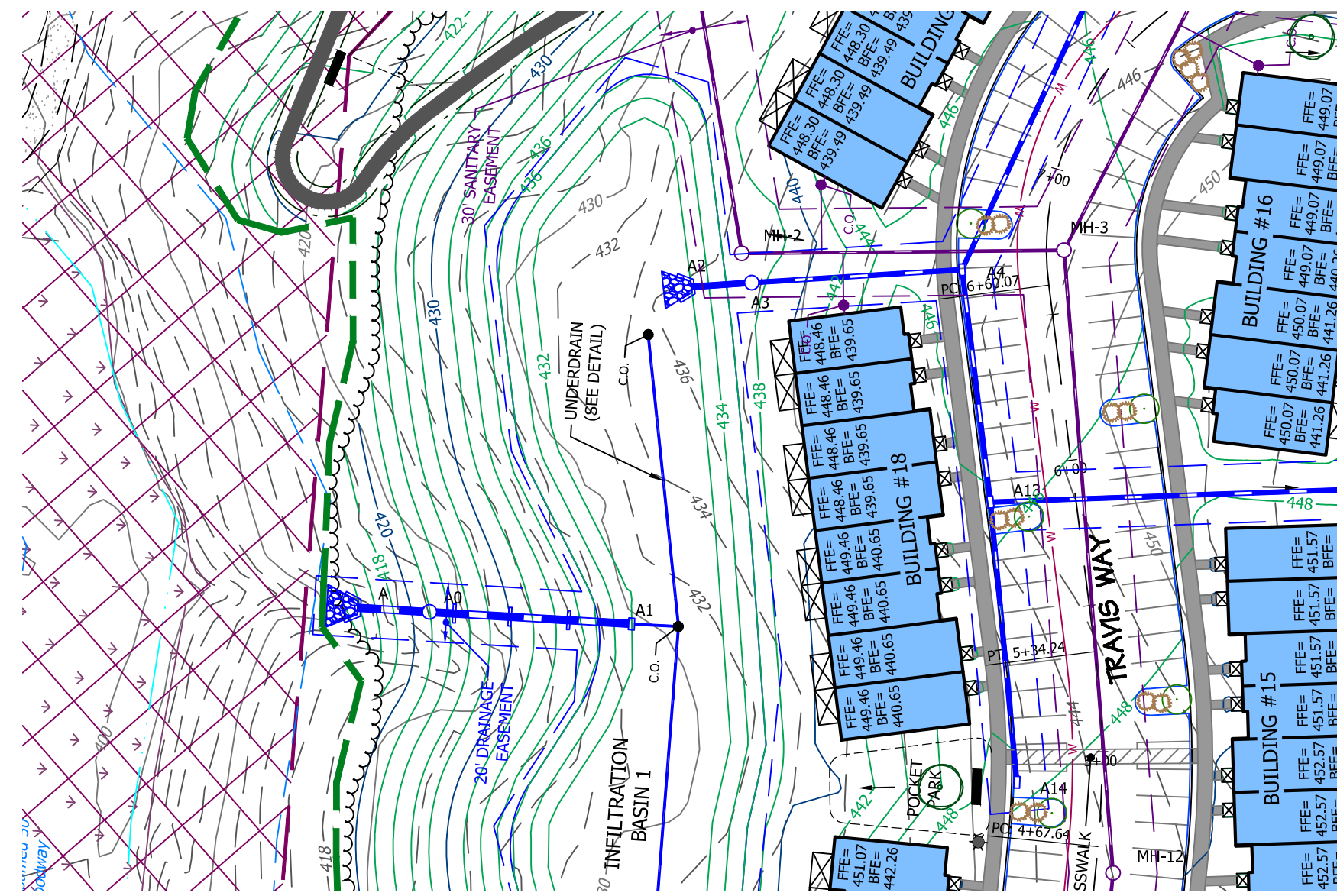
NO.	REVISION	DATE
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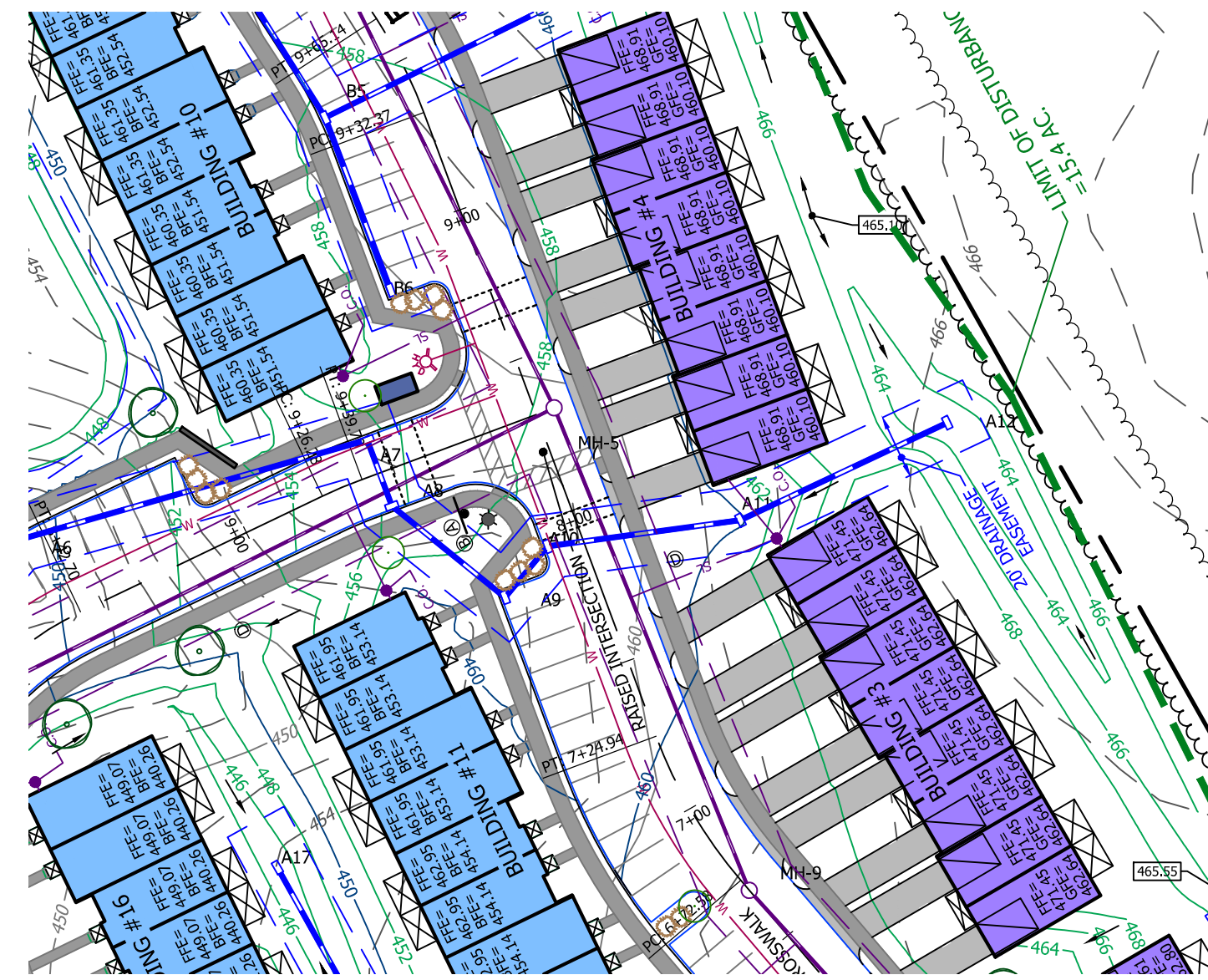


STREET PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

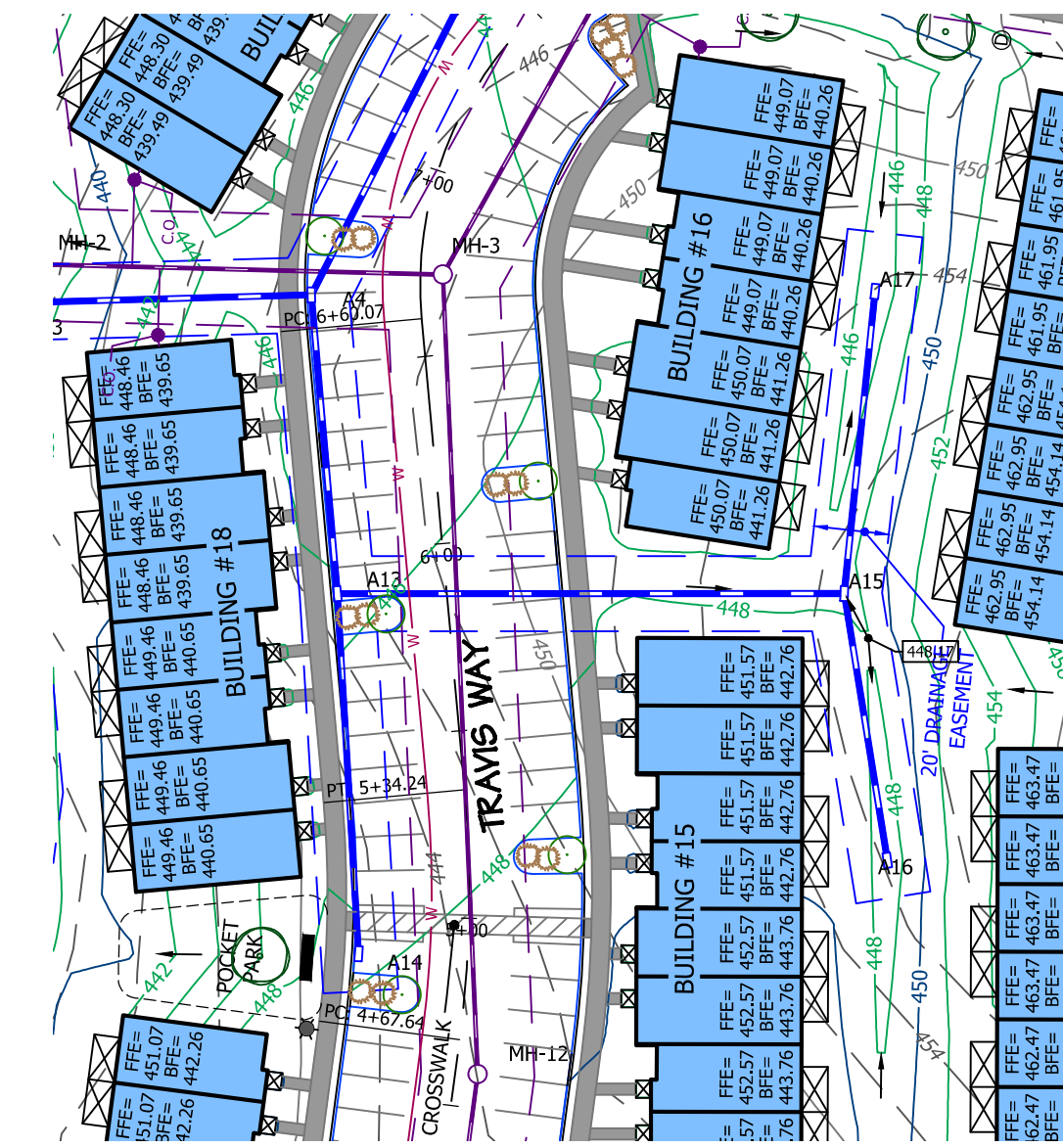
DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	14 OF 30



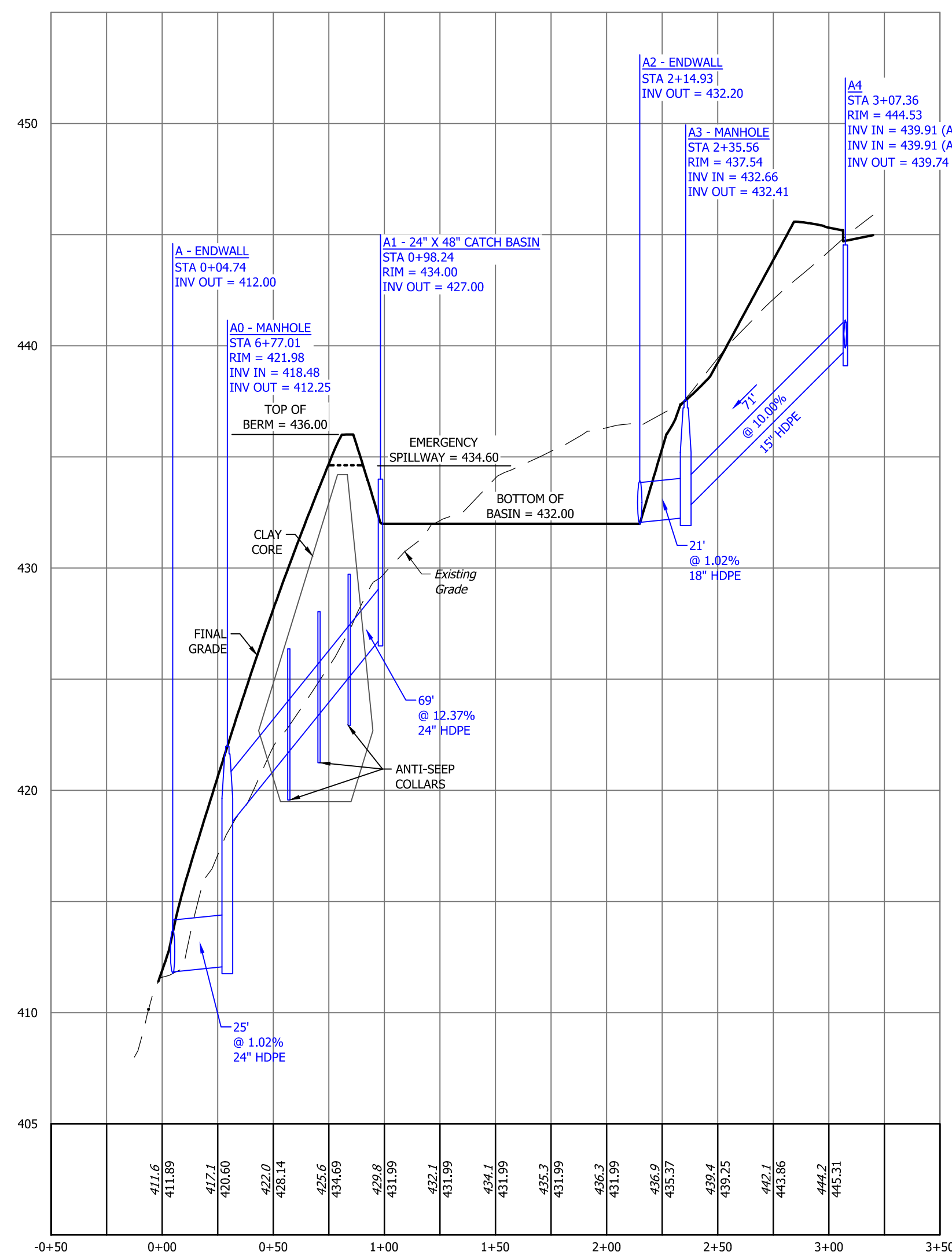
Plan View Of A To A4
Scale: 1"=50'



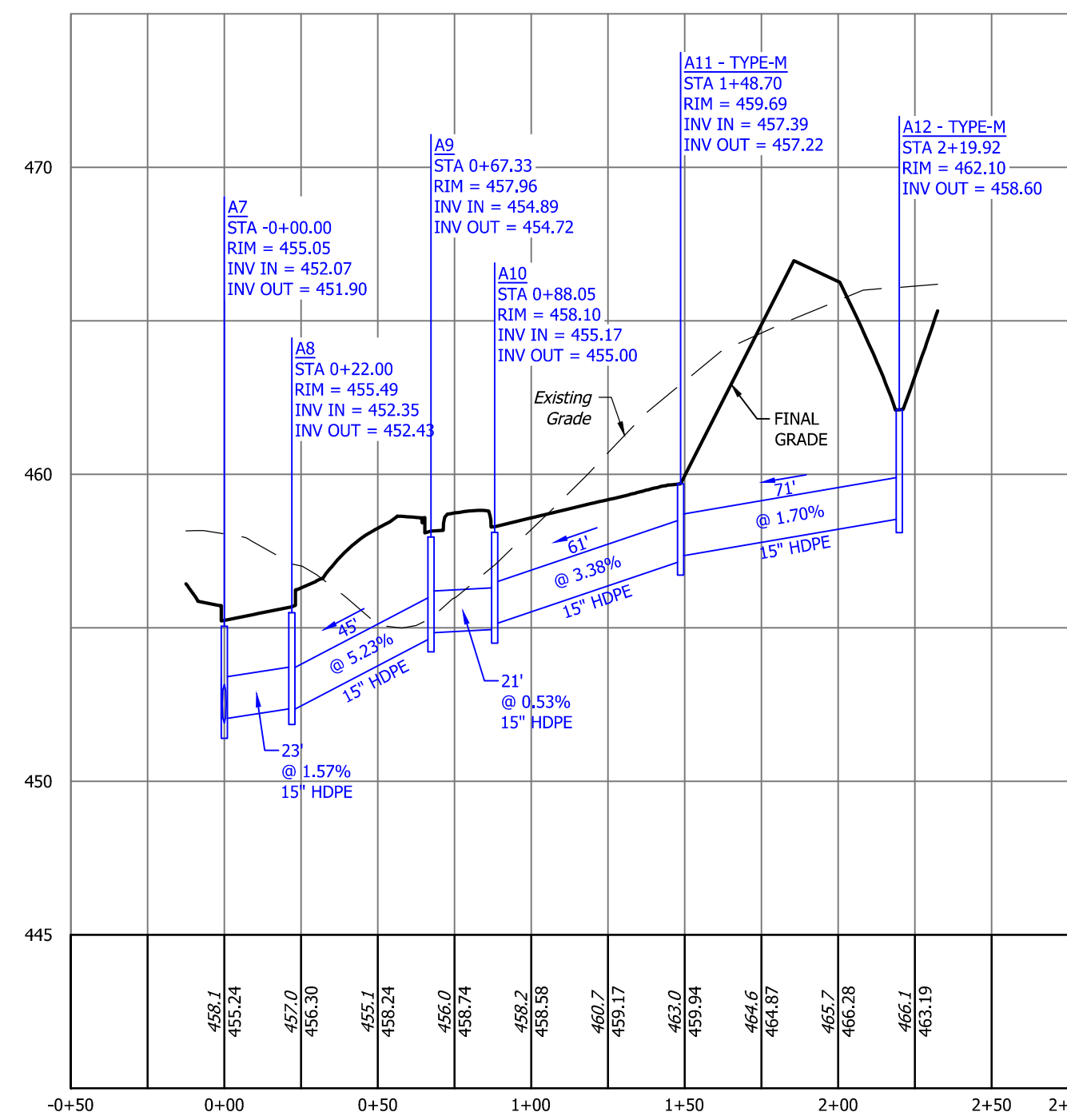
Plan View Of A7 To A12
Scale: 1"=50'



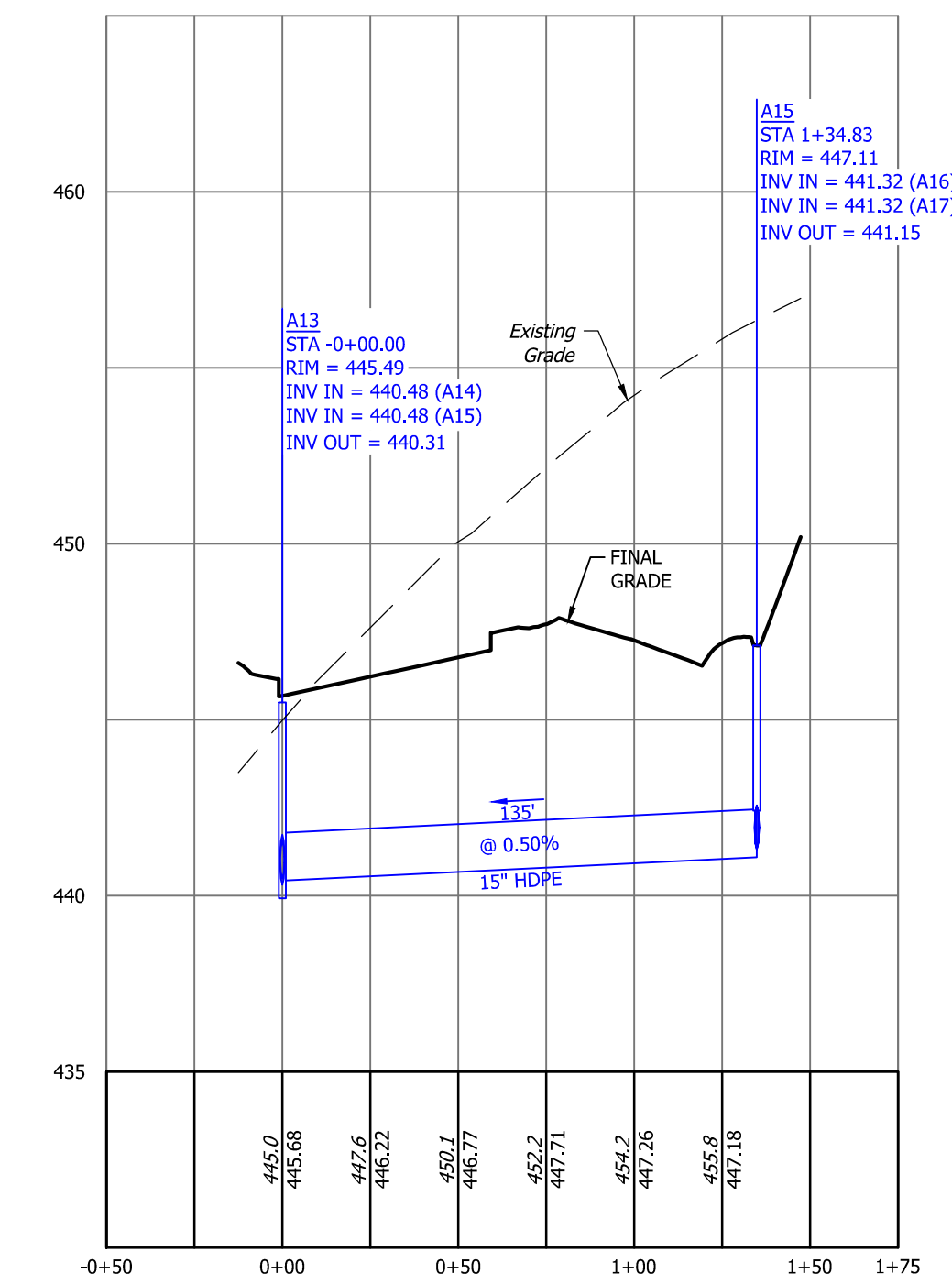
Plan View Of A13 To A15
Scale: 1"=50'



Profile View of A To A4 (Basin 1) Sta: -0+50.00 - 3+50.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



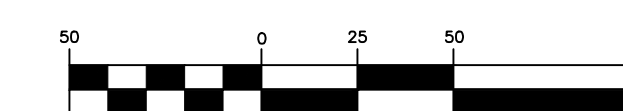
Profile View of A7 To A12 Sta: -0+50.00 - 2+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



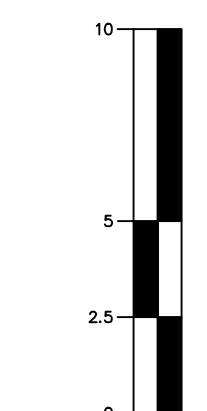
Profile View of A13 To A15 Sta: -0+50.00 - 1+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2".

GRAPHIC SCALES



(IN FEET)
1 inch = 50 ft.



(IN FEET)
1 inch = 5 ft.

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
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4		
5		

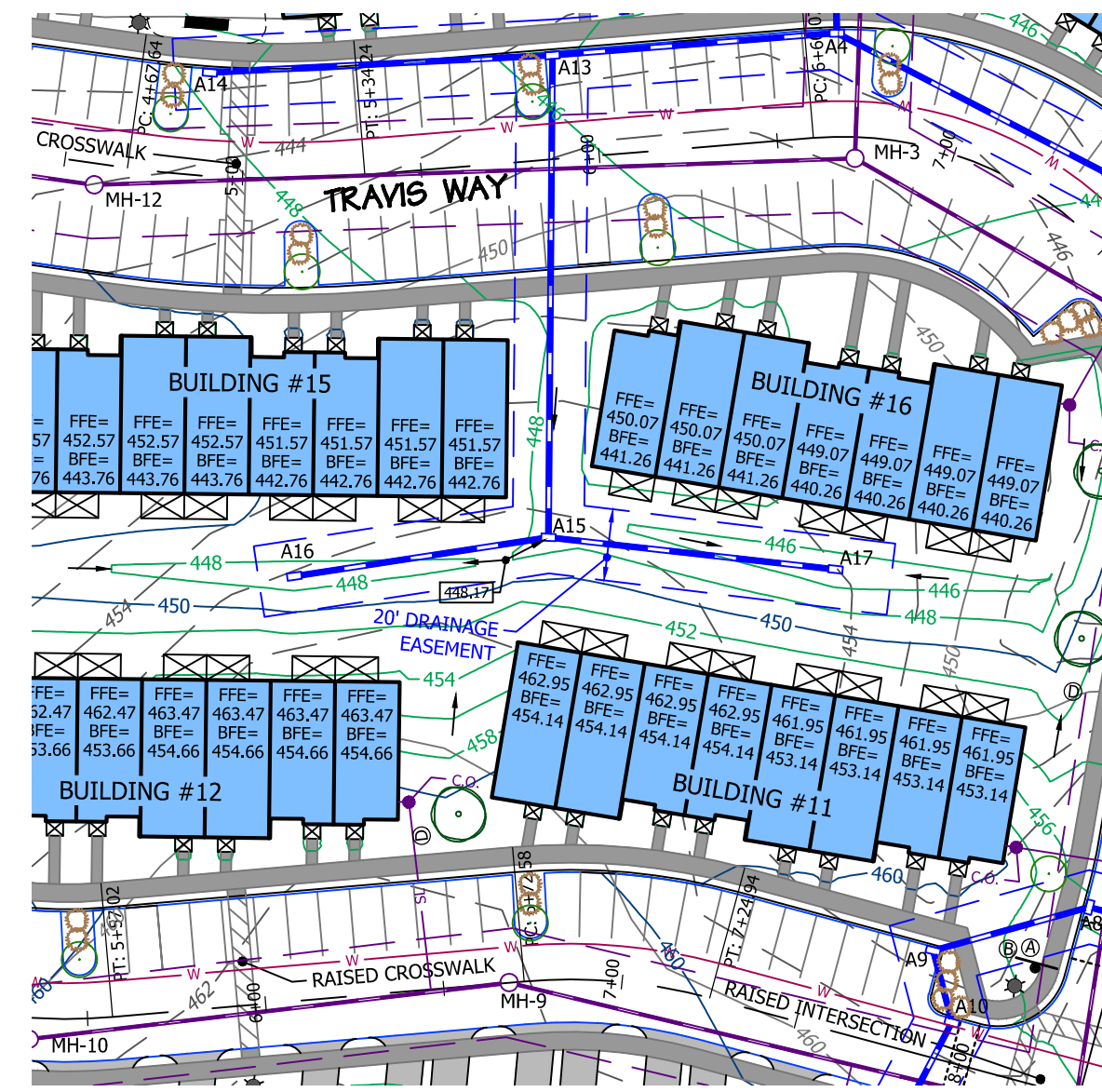
R. J. FISHER & ASSOCIATES, INC.
SITE PLANNING & CIVIL ENGINEERING & LAND SURVEYS
1546 BRIDGE STREET, NEW CUMBERLAND, PA. 17070
PHONE: (717) 774-7534 & FAX: (717) 774-7190
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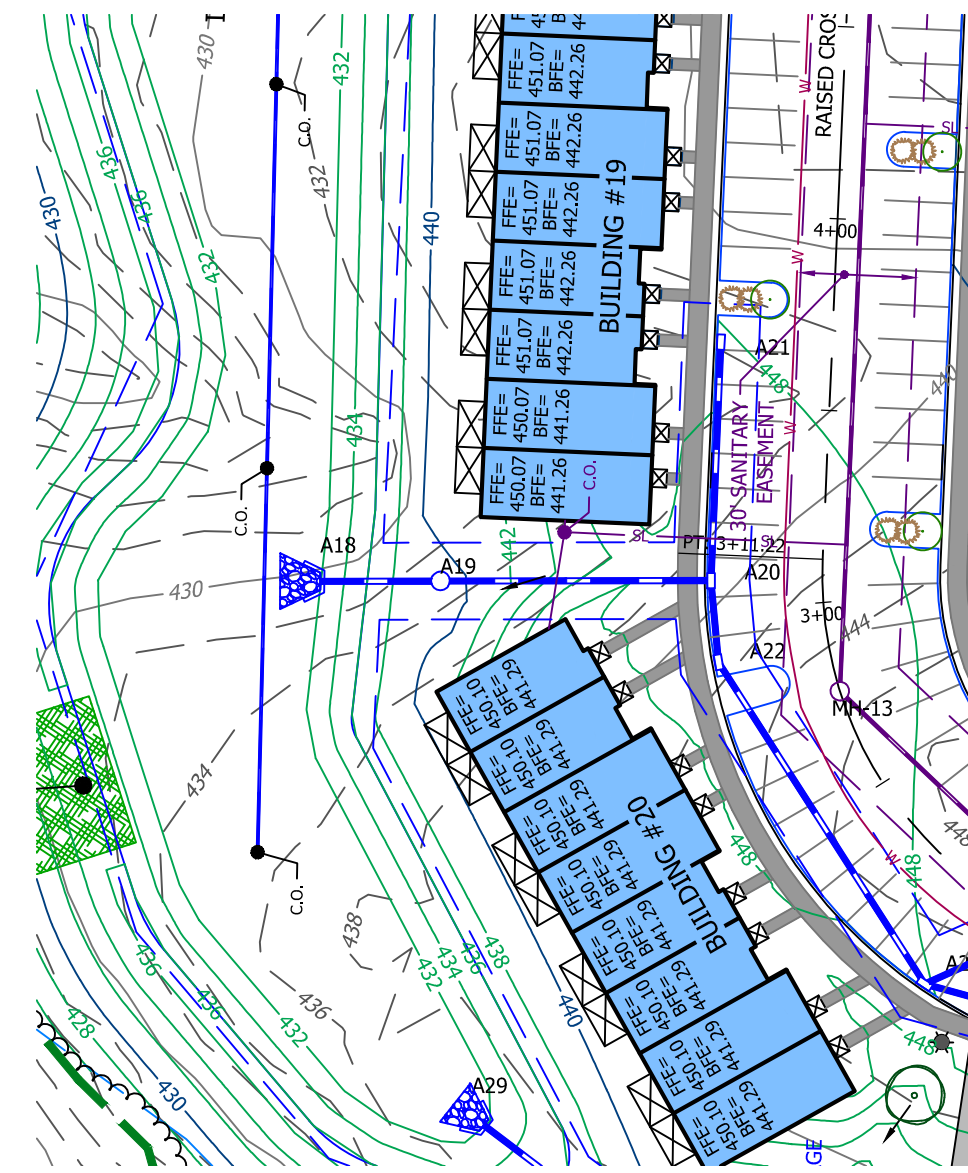
STORM SEWER PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	15 OF 30

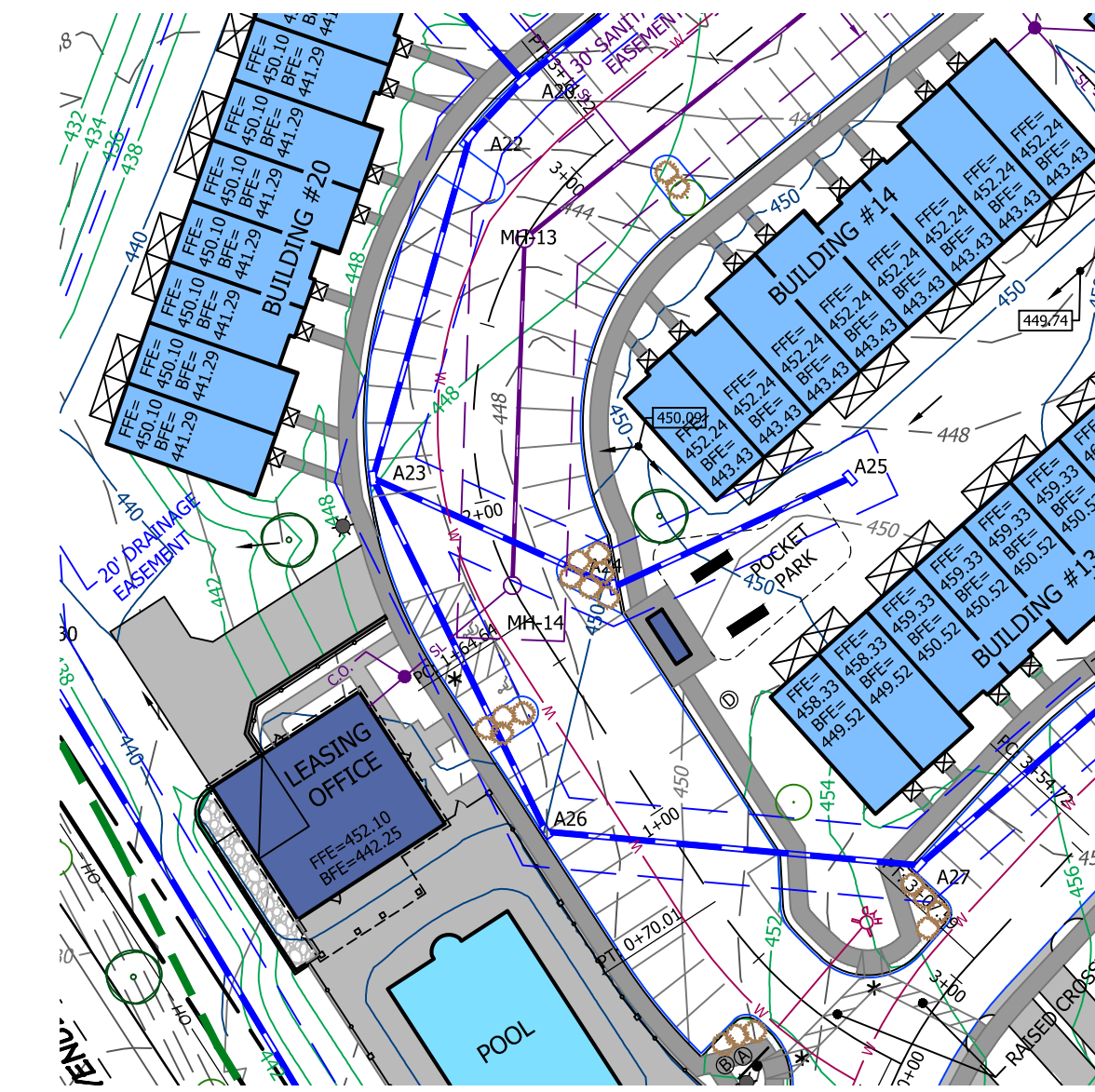
COPYRIGHT © 2021 BY R.J. FISHER & ASSOCIATES, INC.



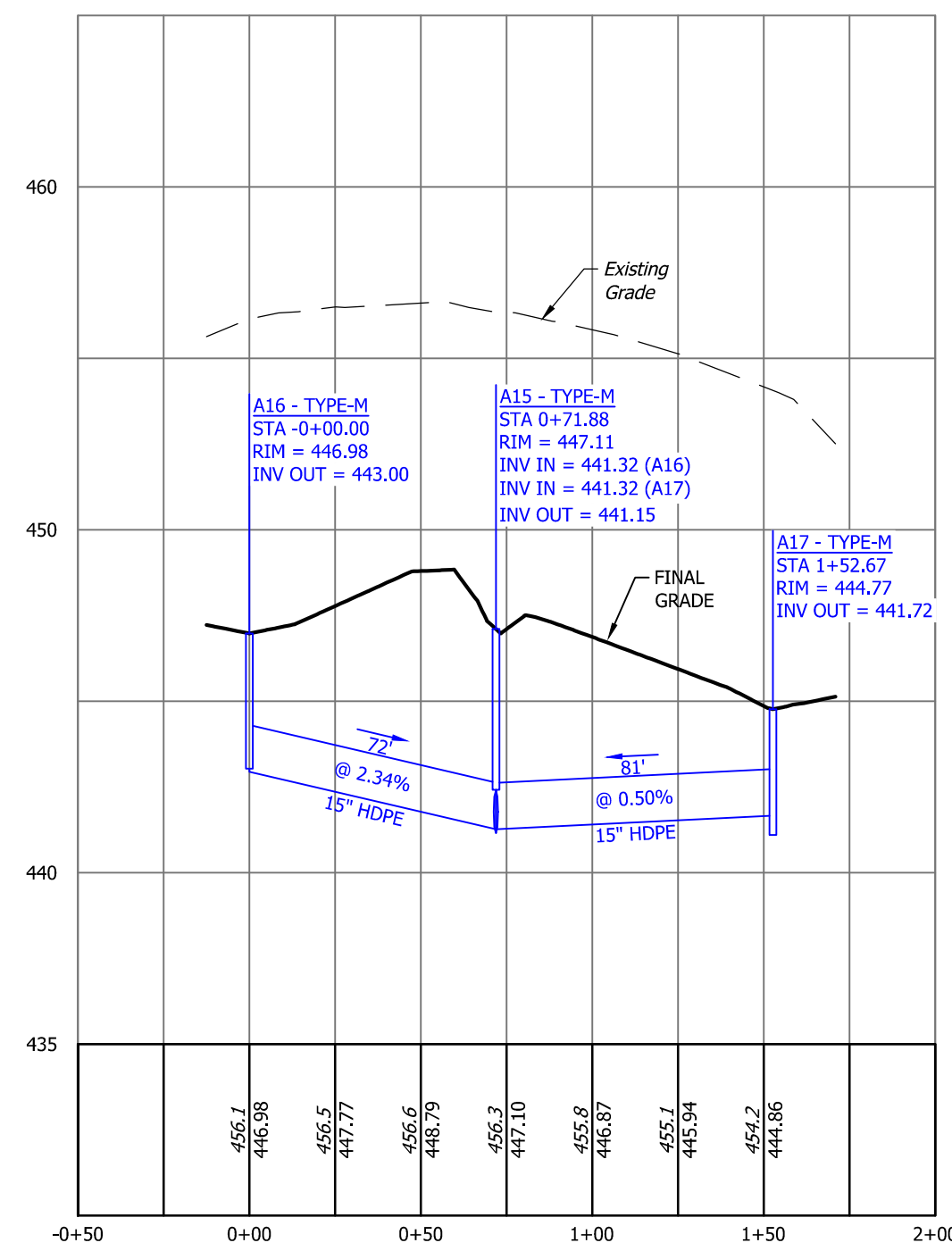
Plan View Of A16 To A17
Scale: 1"=50'



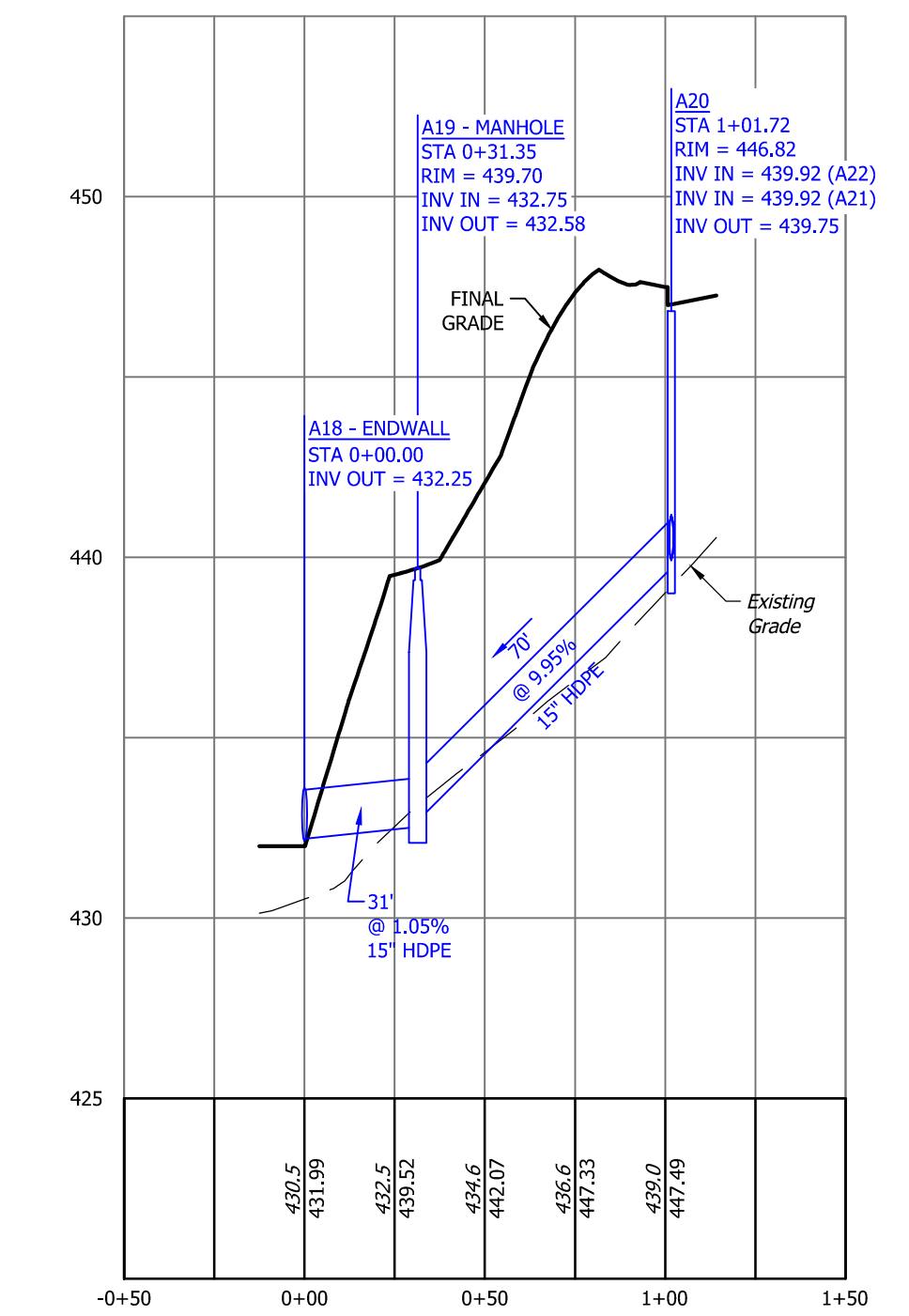
Plan View Of A18 To A20
Scale: 1"=50'



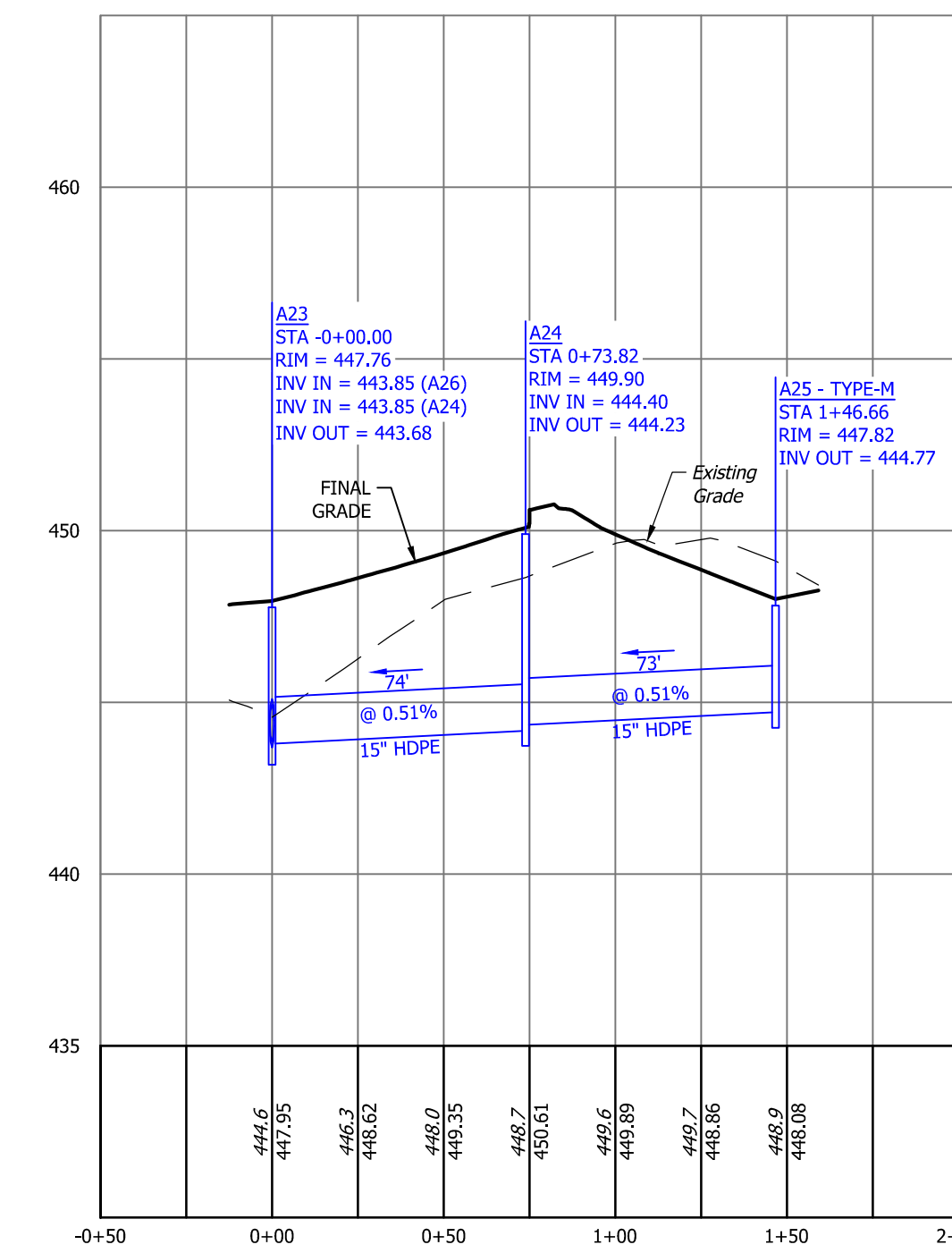
Plan View Of A23 To A25
Scale: 1"=50'



Profile View Of A16 To A17 Sta: -0+50.00 - 2+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



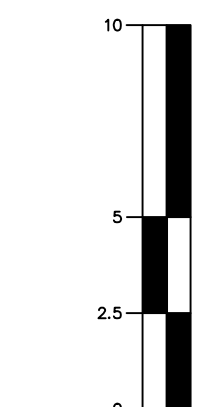
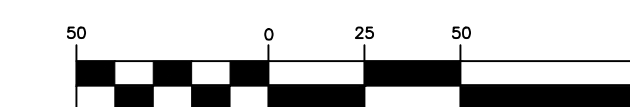
Profile View Of A18 To A20 Sta: -0+50.00 - 1+50.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



Profile View Of A23 To A25 Sta: -0+50.00 - 2+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2".

GRAPHIC SCALES



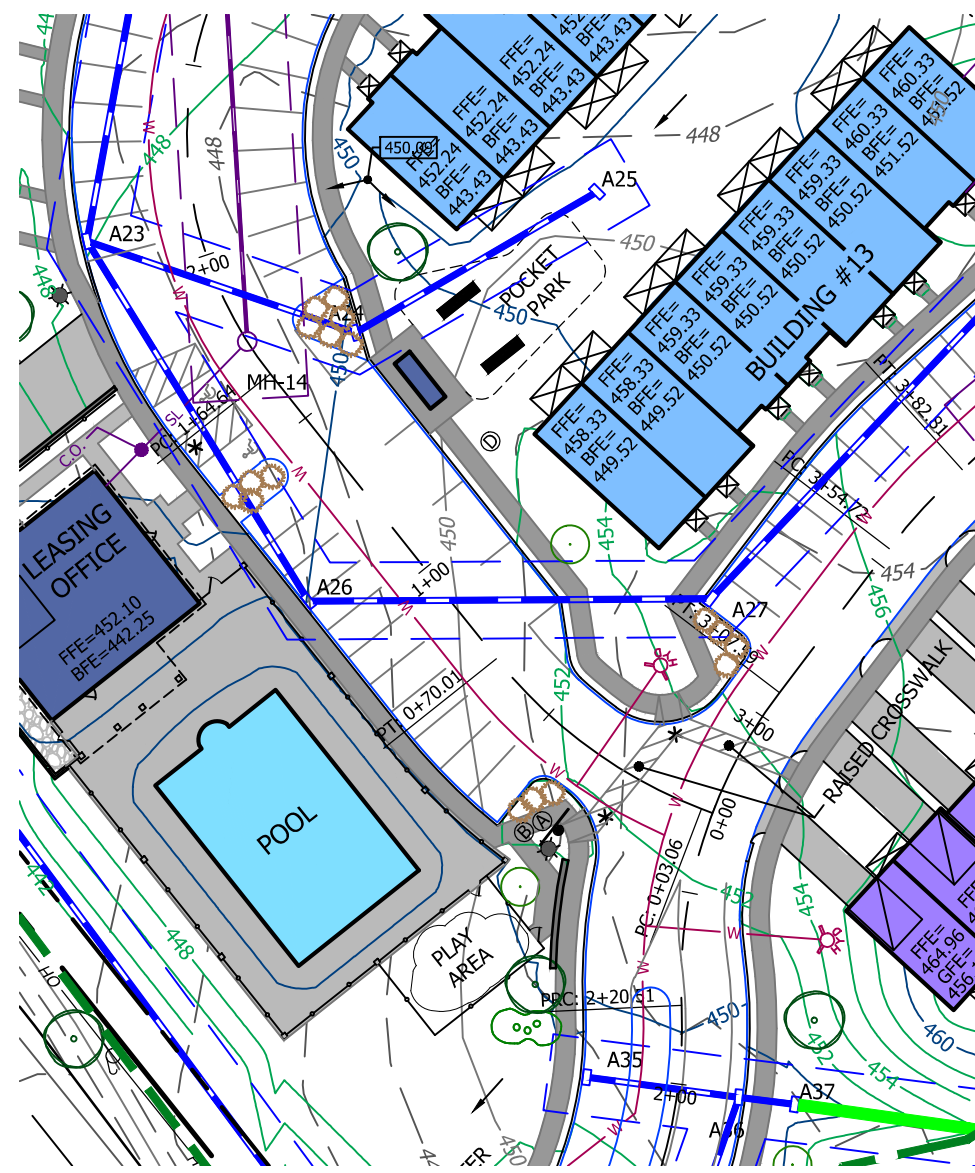
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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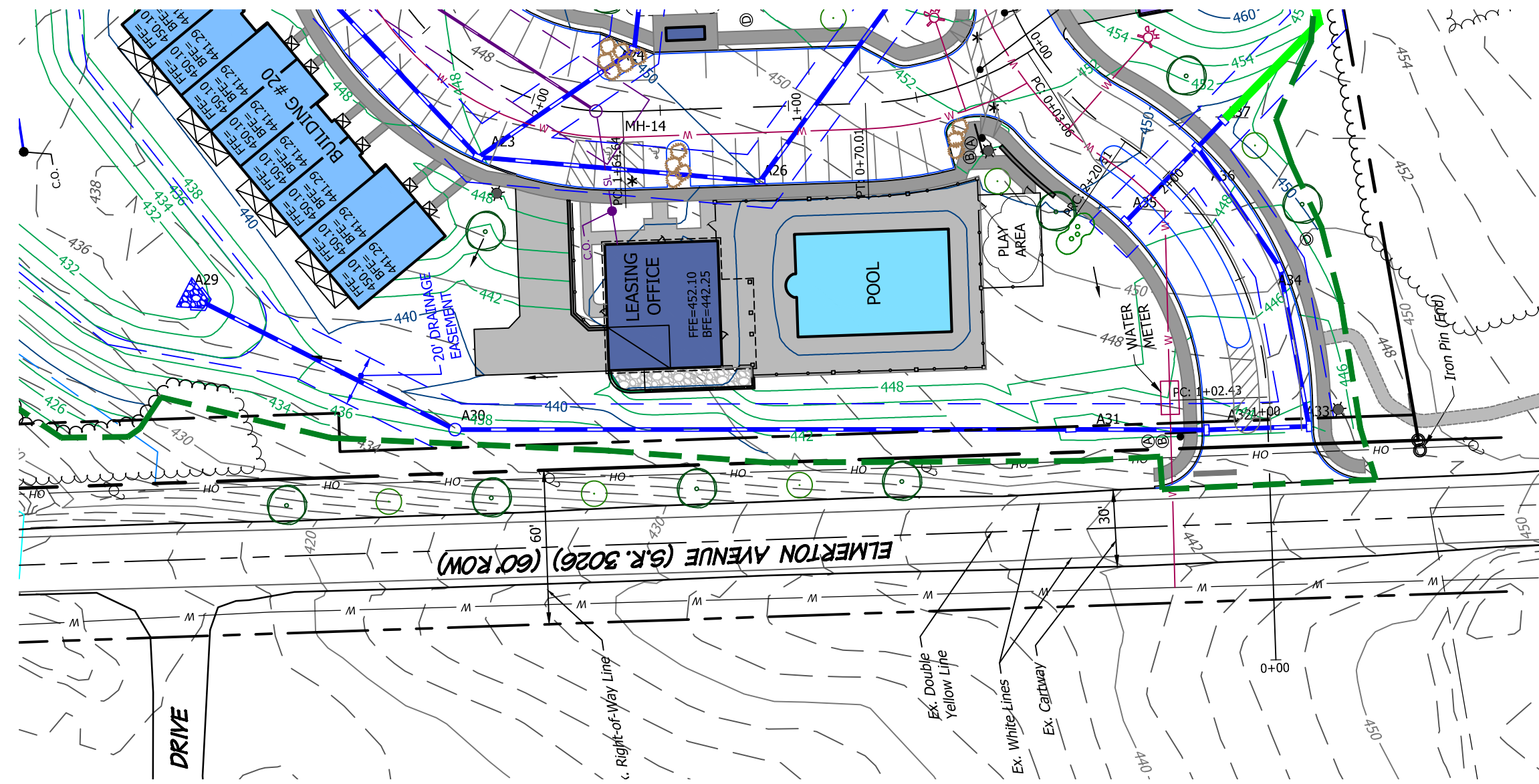


STORM SEWER PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

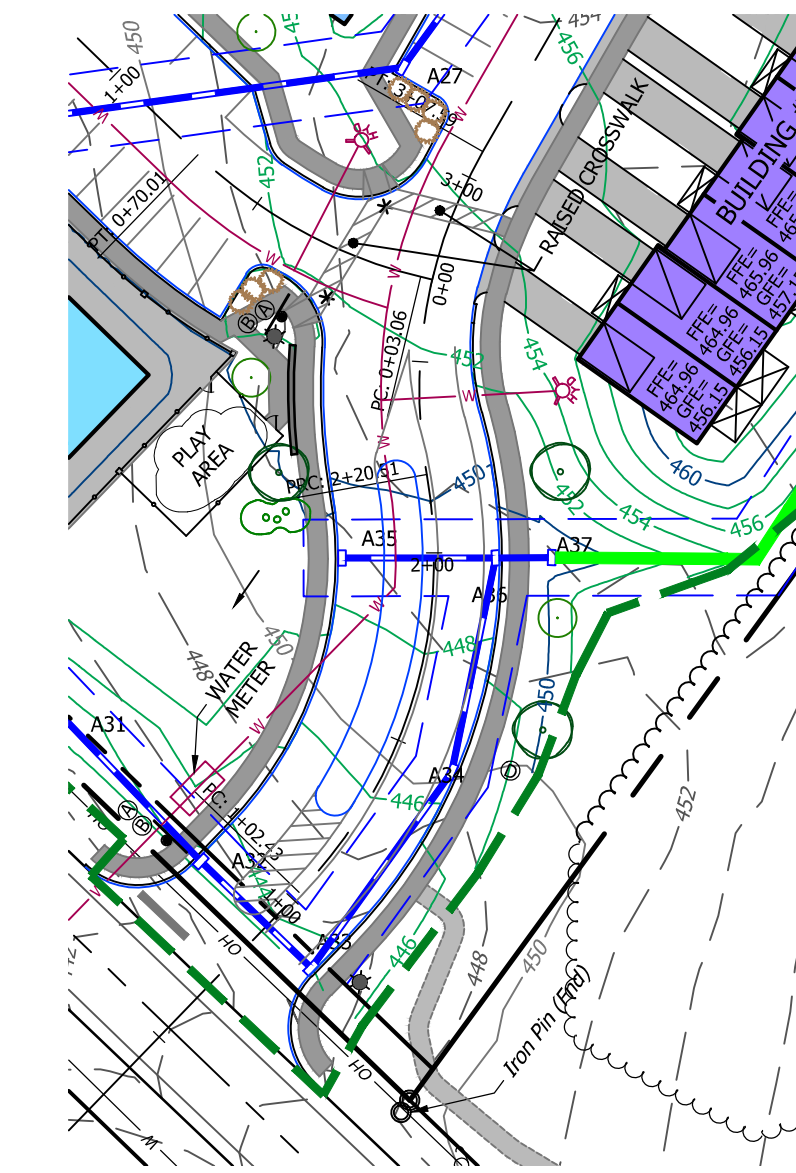
DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	16 OF 30



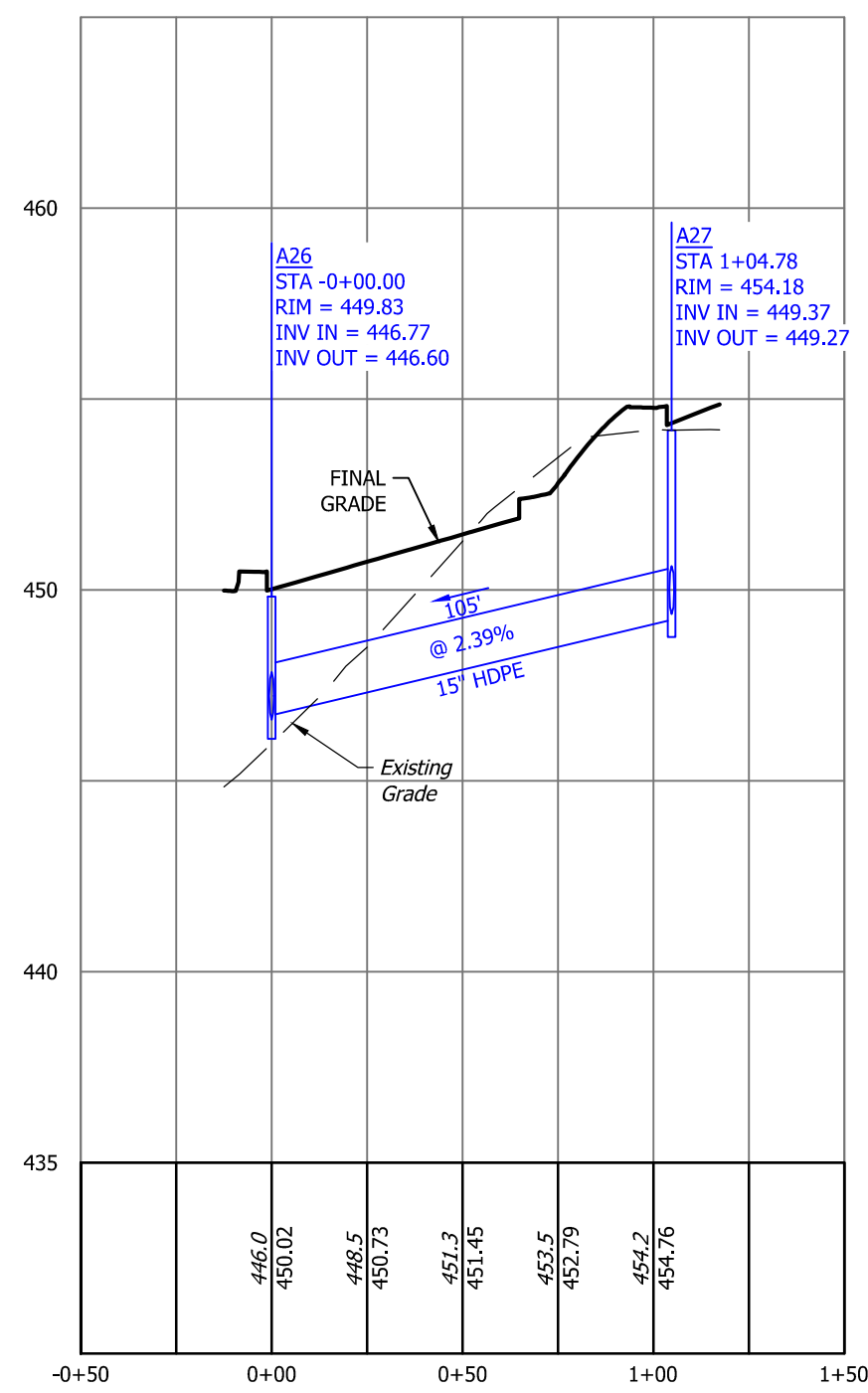
Plan View Of A26 To A27
Scale: 1"=50'



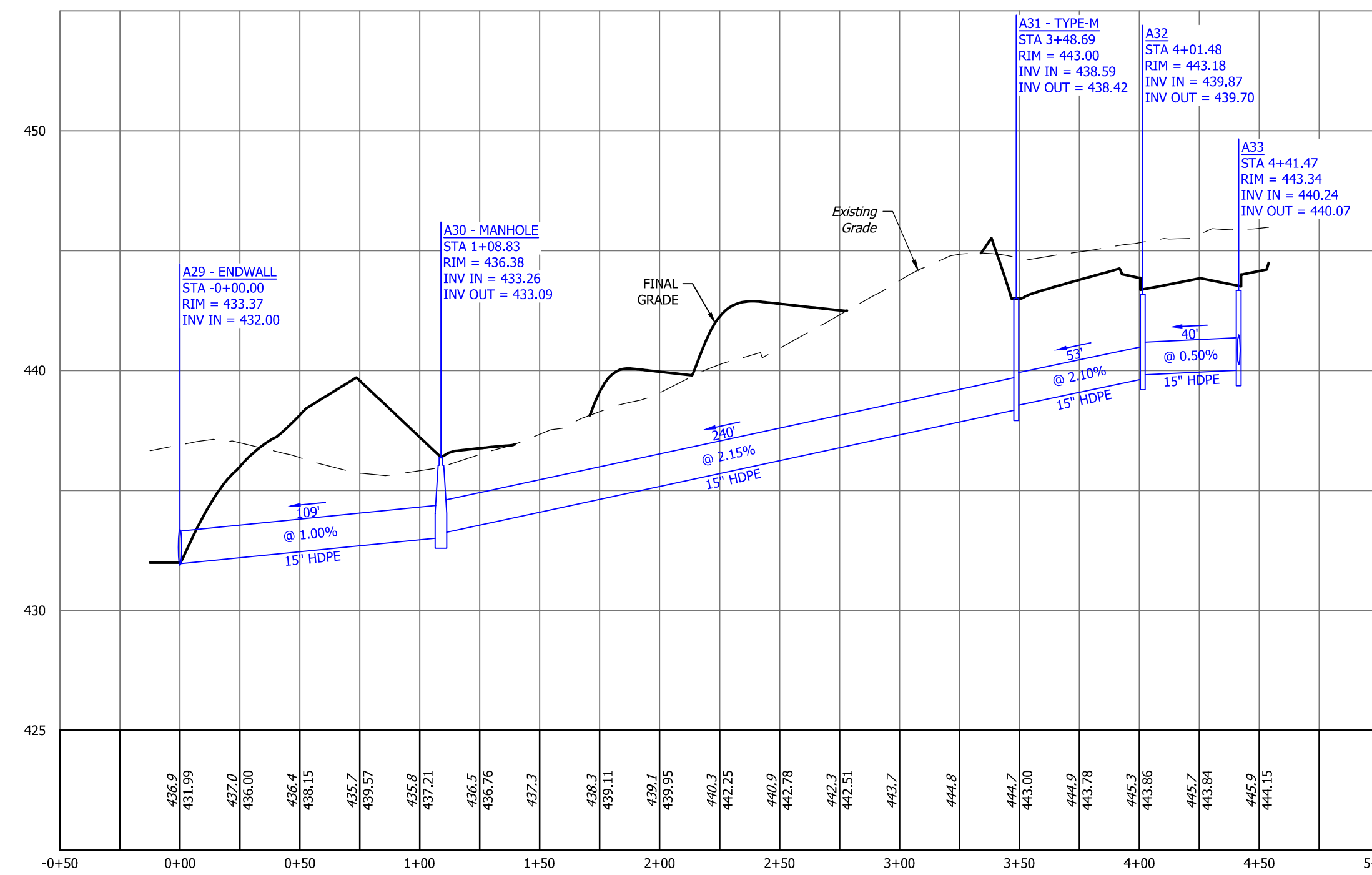
Plan View Of A29 To A33
Scale: 1"=50'



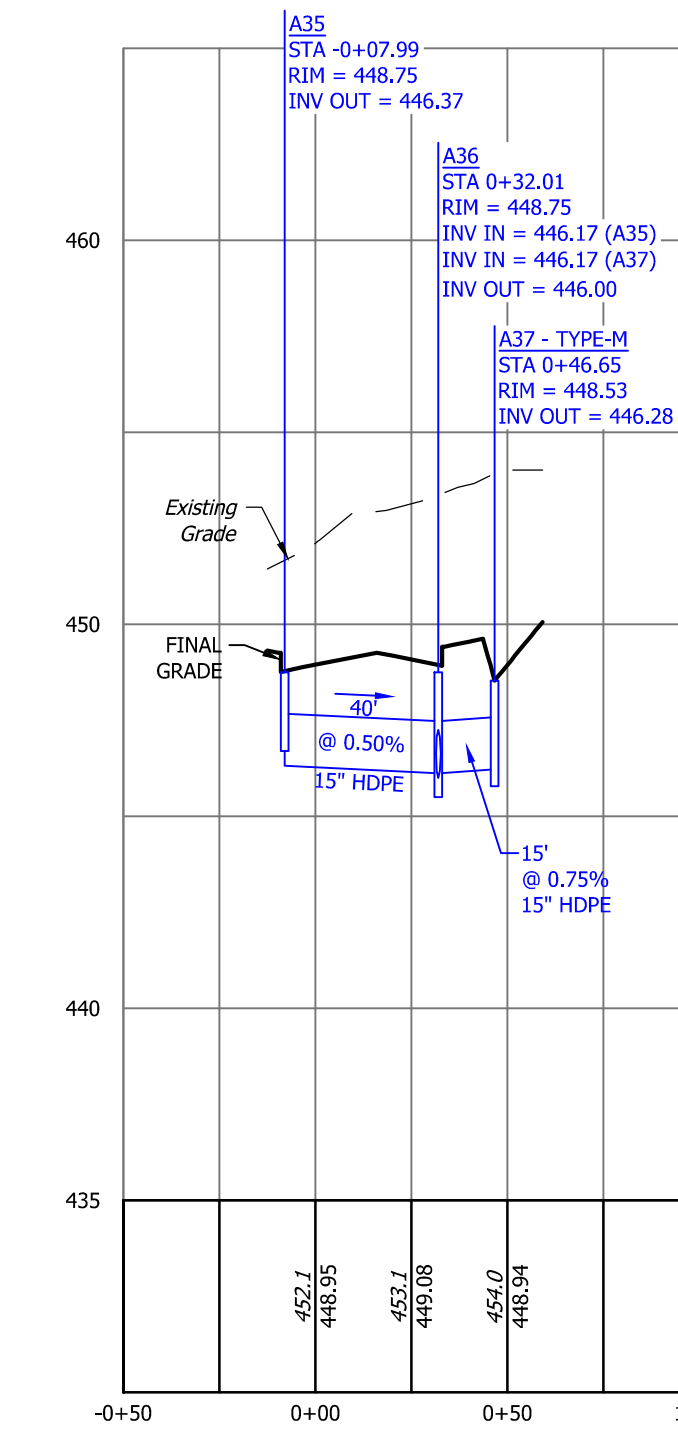
Plan View Of A35 To A37
Scale: 1"=50'



Profile View Of A26 To A27 Sta: -0+50.00 - 1+50.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

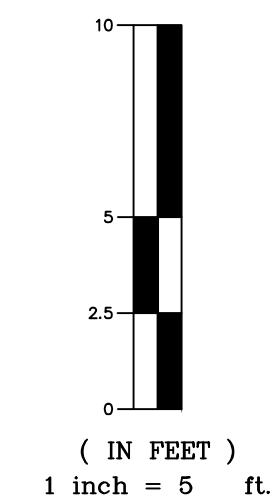
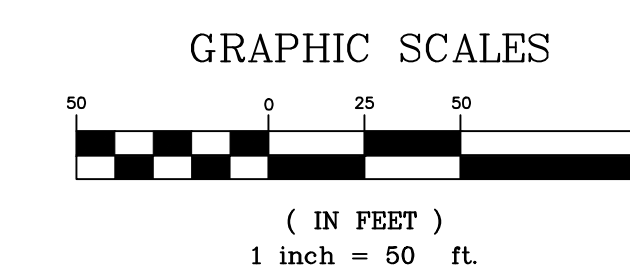


Profile View Of A29 To A33 Sta: -0+50.00 - 5+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



Profile View Of A35 To A37 Sta: -0+50.00 - 1+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2".



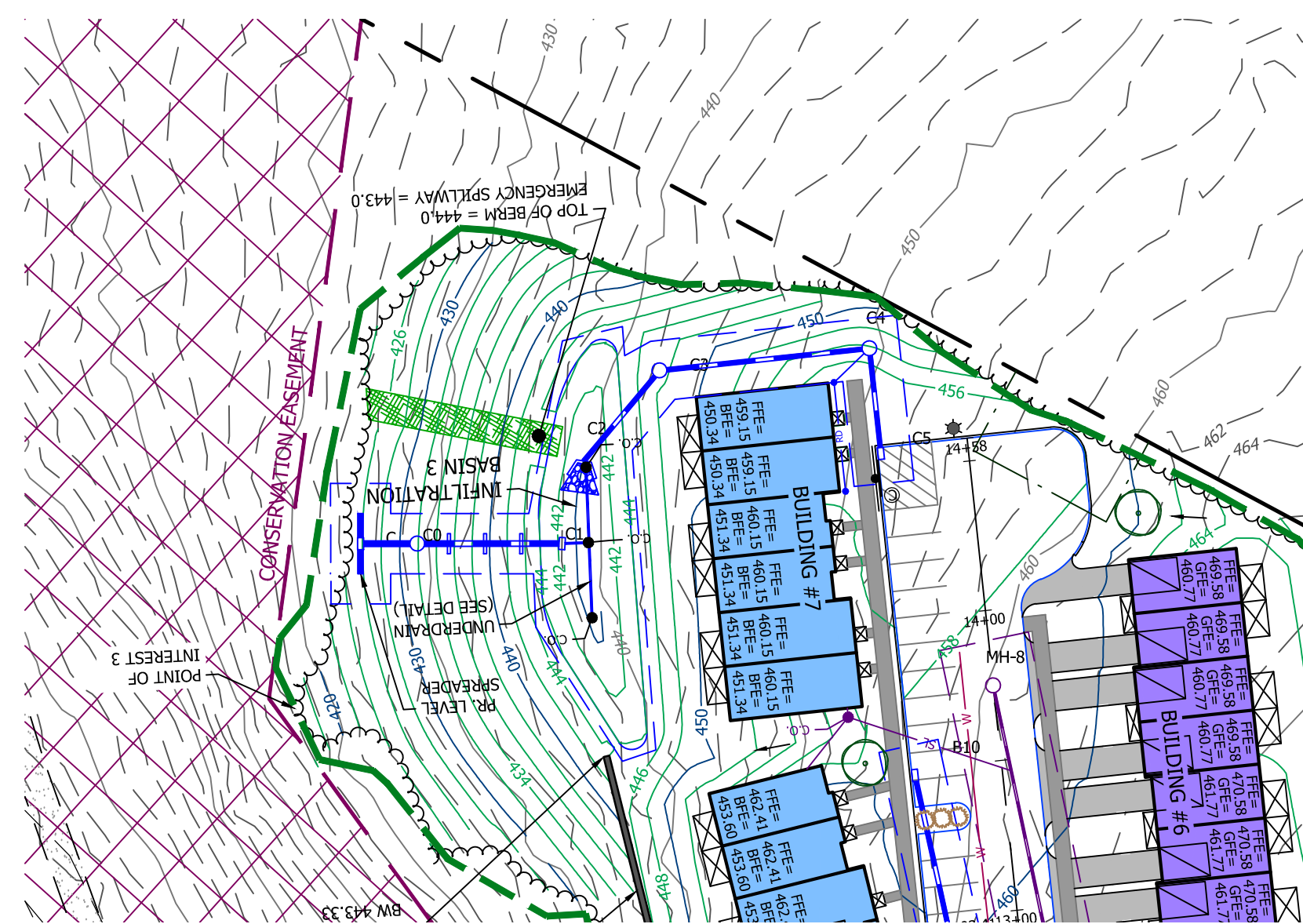
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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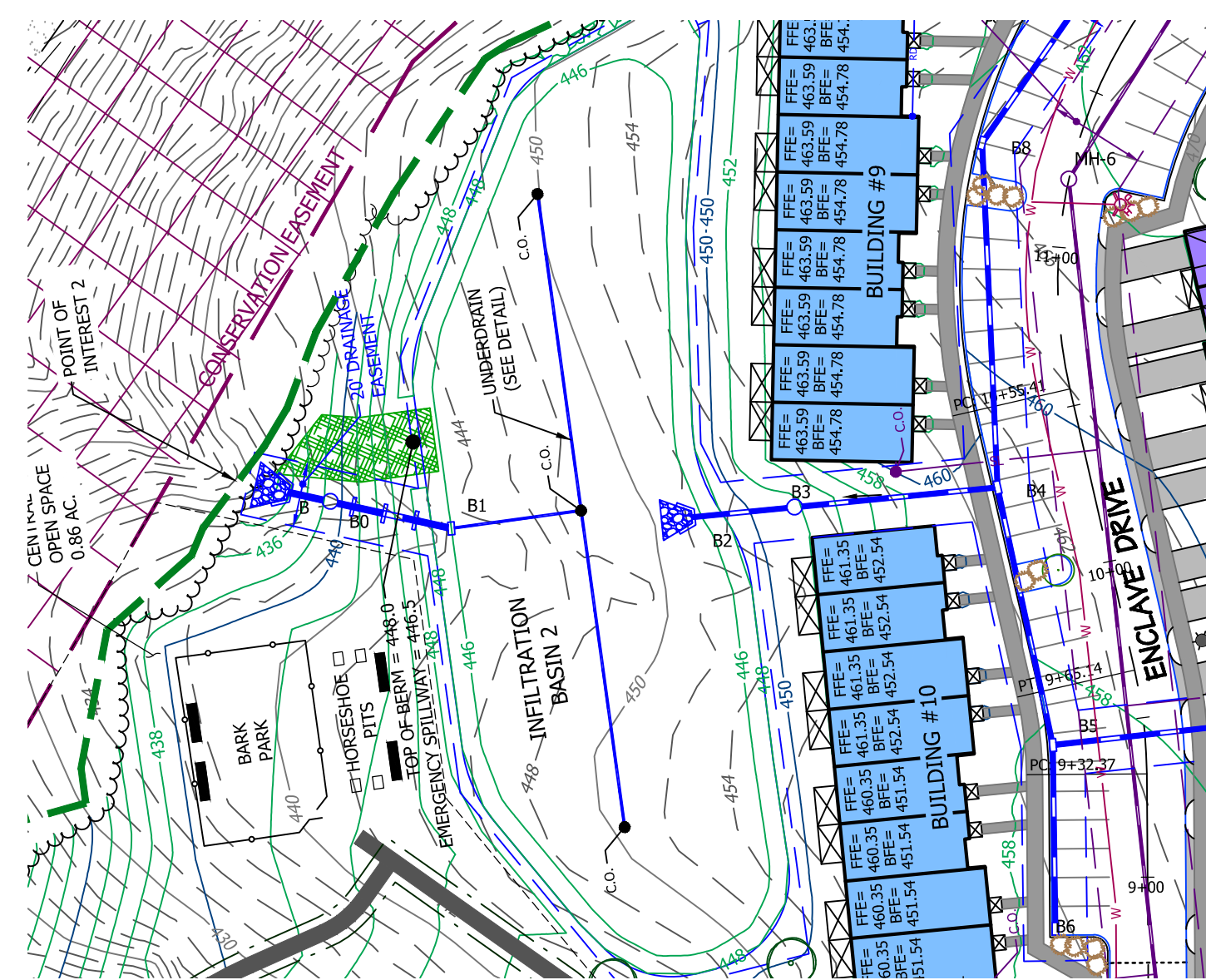


STORM SEWER PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

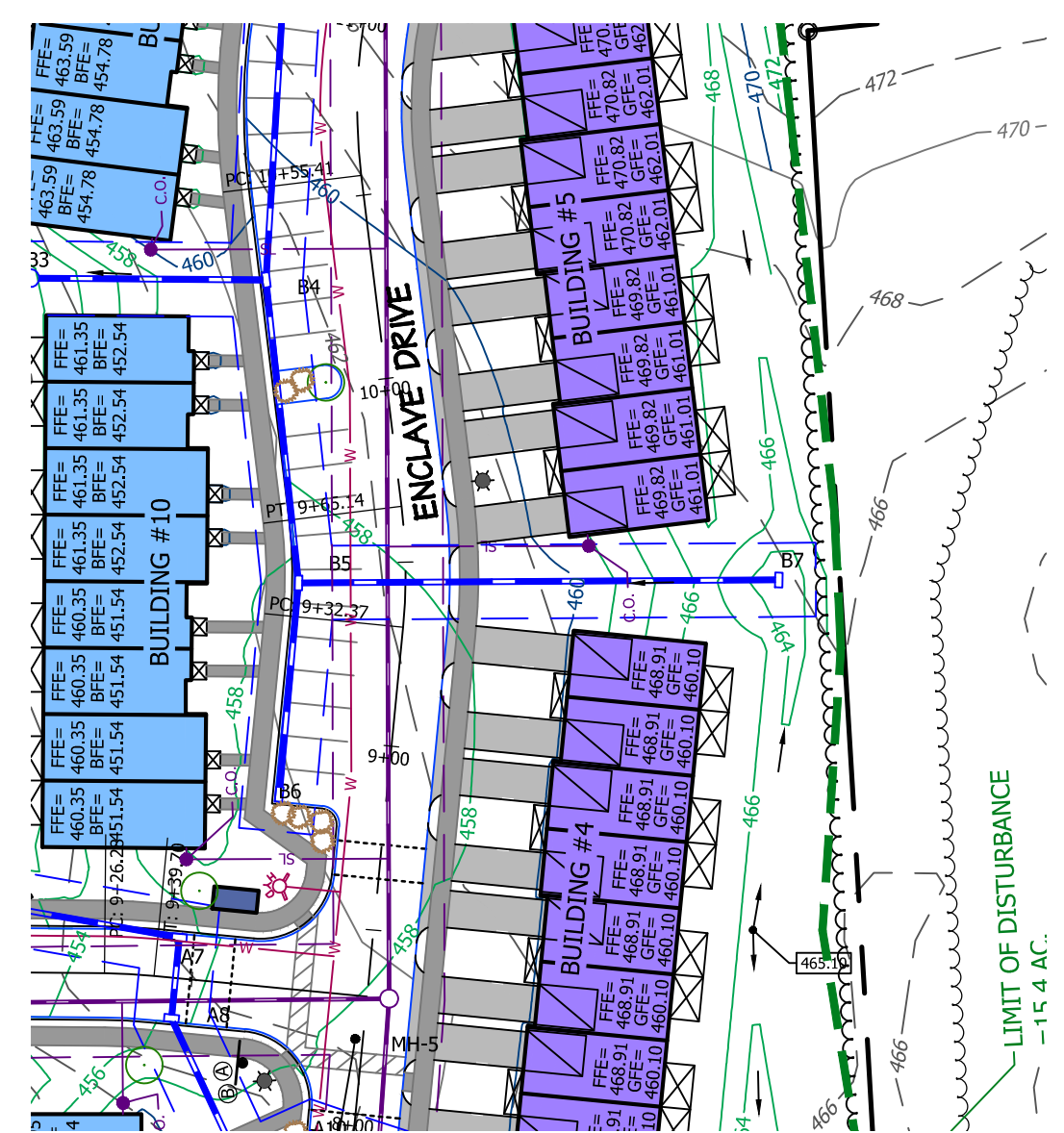
DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	17 OF 30



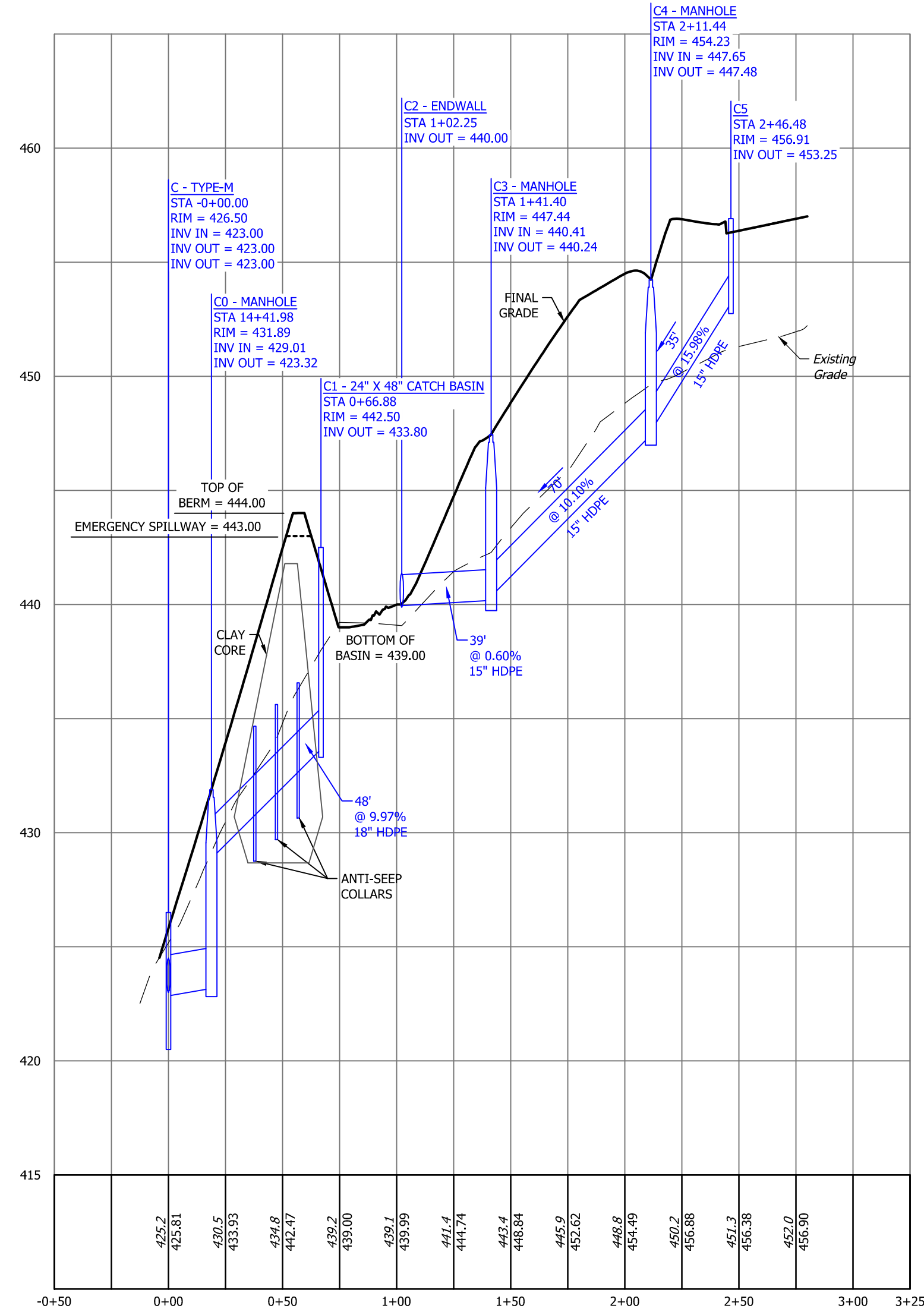
Plan View Of C To C5
Scale: 1"=50'



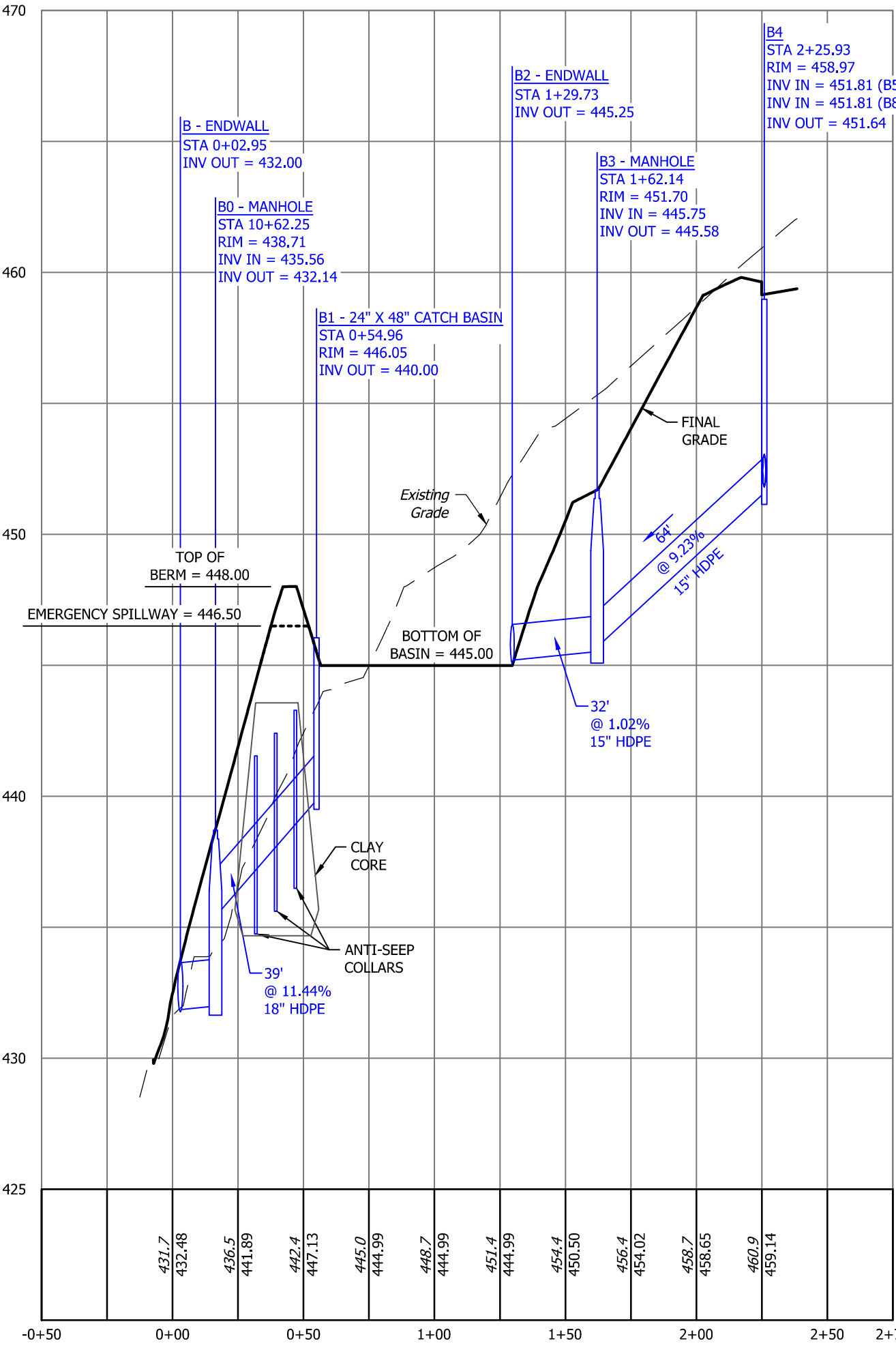
Plan View Of B To B4
Scale: 1"=50'



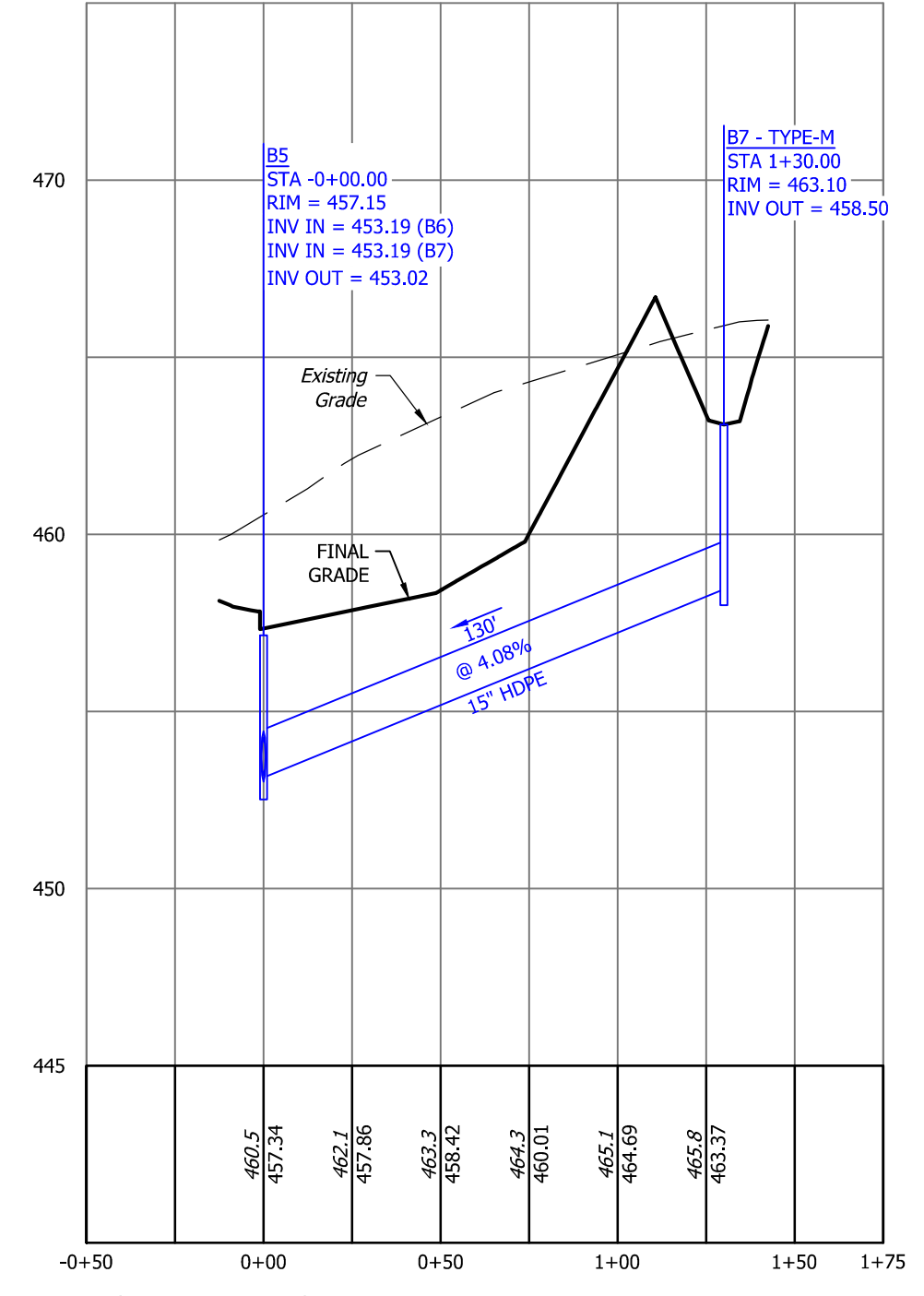
Plan View Of B5 To B7
Scale: 1"=50'



Profile View Of C To C5 (Basin 3) Sta: -0+50.00 - 3+25.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



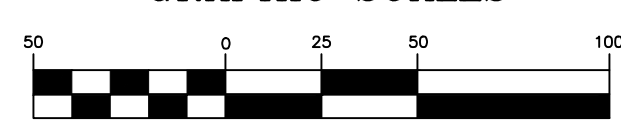
Profile View Of B To B4 (Basin 2) Sta: -0+50.00 - 2+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



Profile View Of B5 To B7 Sta: -0+50.00 - 1+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2'.

GRAPHIC SCALES



(IN FEET)
1 inch = 50 ft.

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

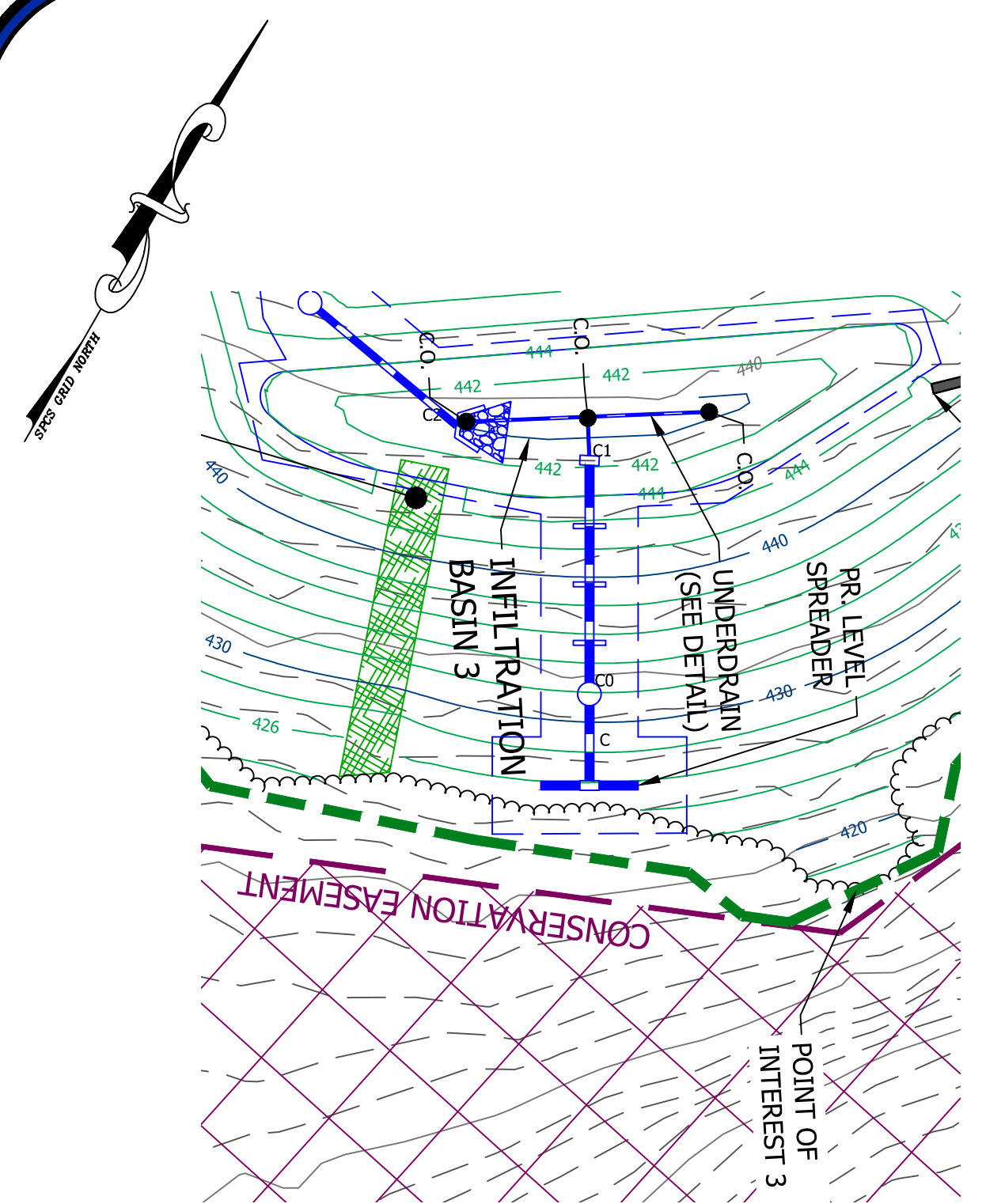
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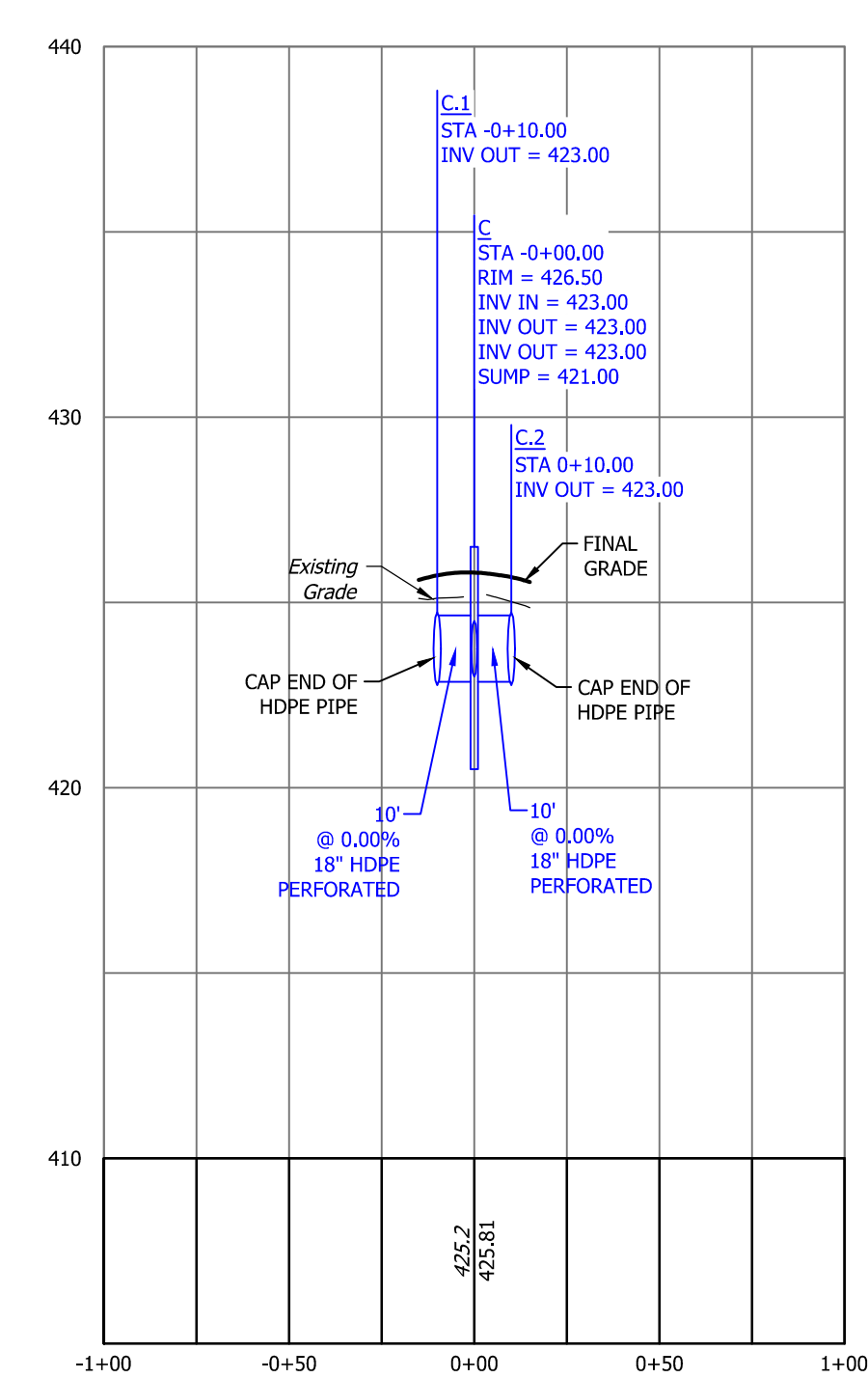
STORM SEWER PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	18 OF 30

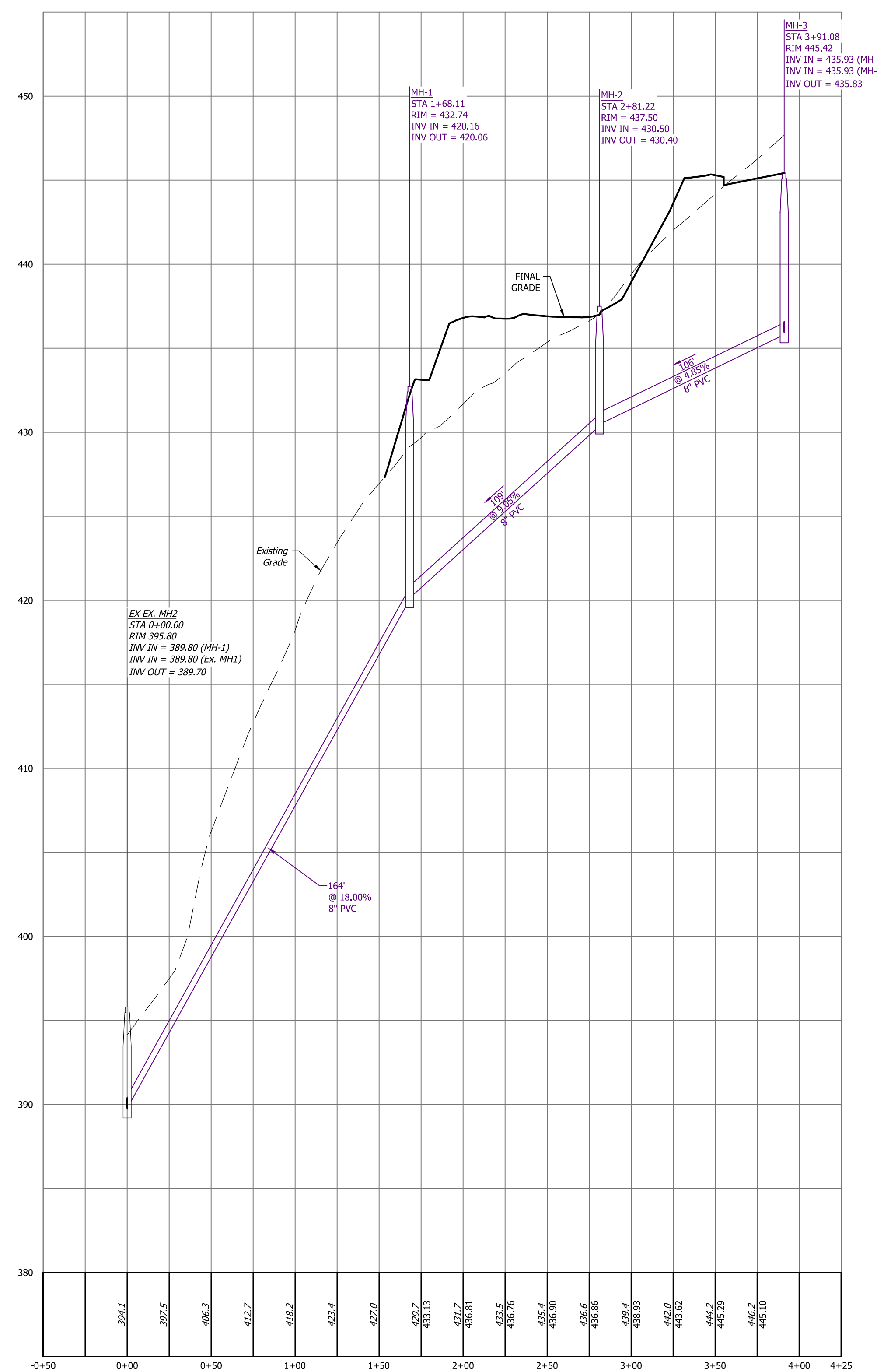
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Plan View Of Outlet C (Level Spreader)
Scale: 1"=50'



Profile View Of Outfall C (Level Spreader) Sta: -1+00.00 - 1+00.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'

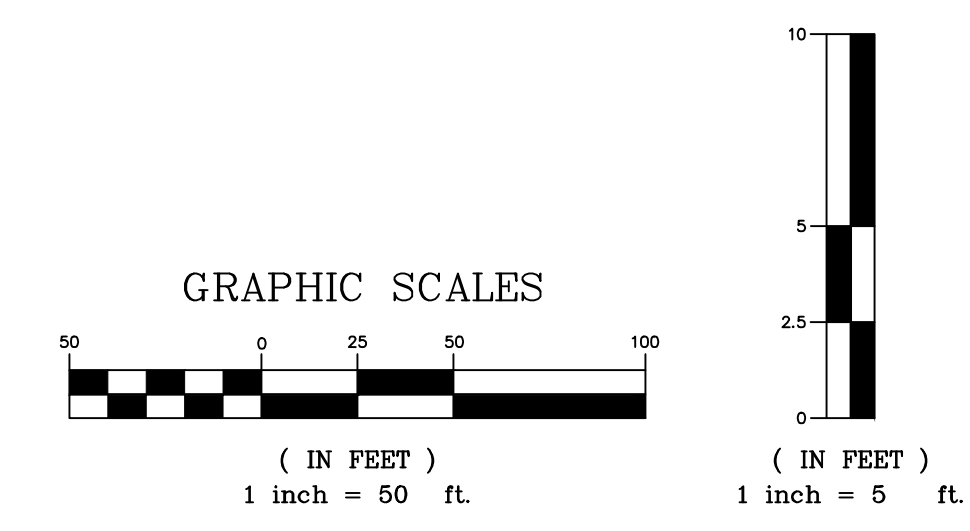


Profile View Of EX. MH2 To MH 3 Sta: -0+50.00 - 4+25.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



Plan View Of EX. MH 2 To MH 3
Scale: 1"=50'

NOTES:
ALL INLETS ARE TYPE 'C' UNLESS OTHERWISE NOTED.
ALL TYPE 'C' INLETS ARE SUMPED 2'.



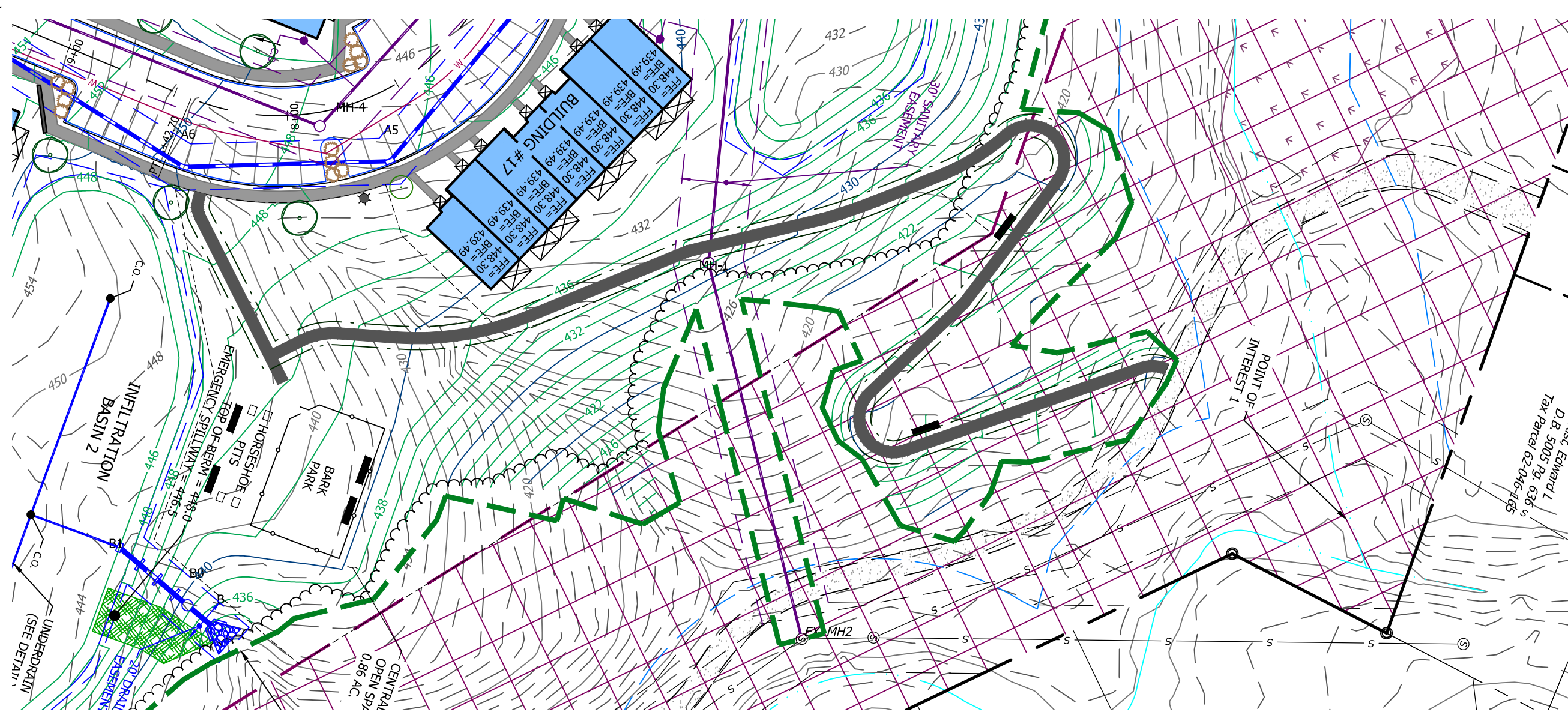
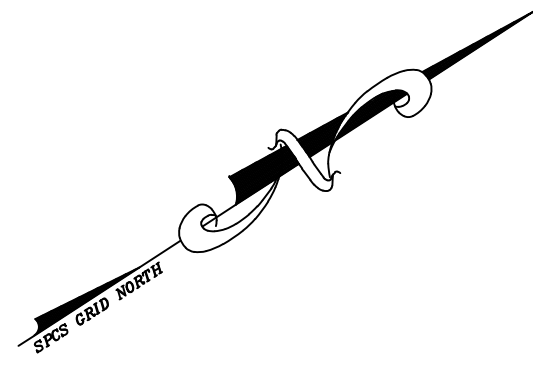
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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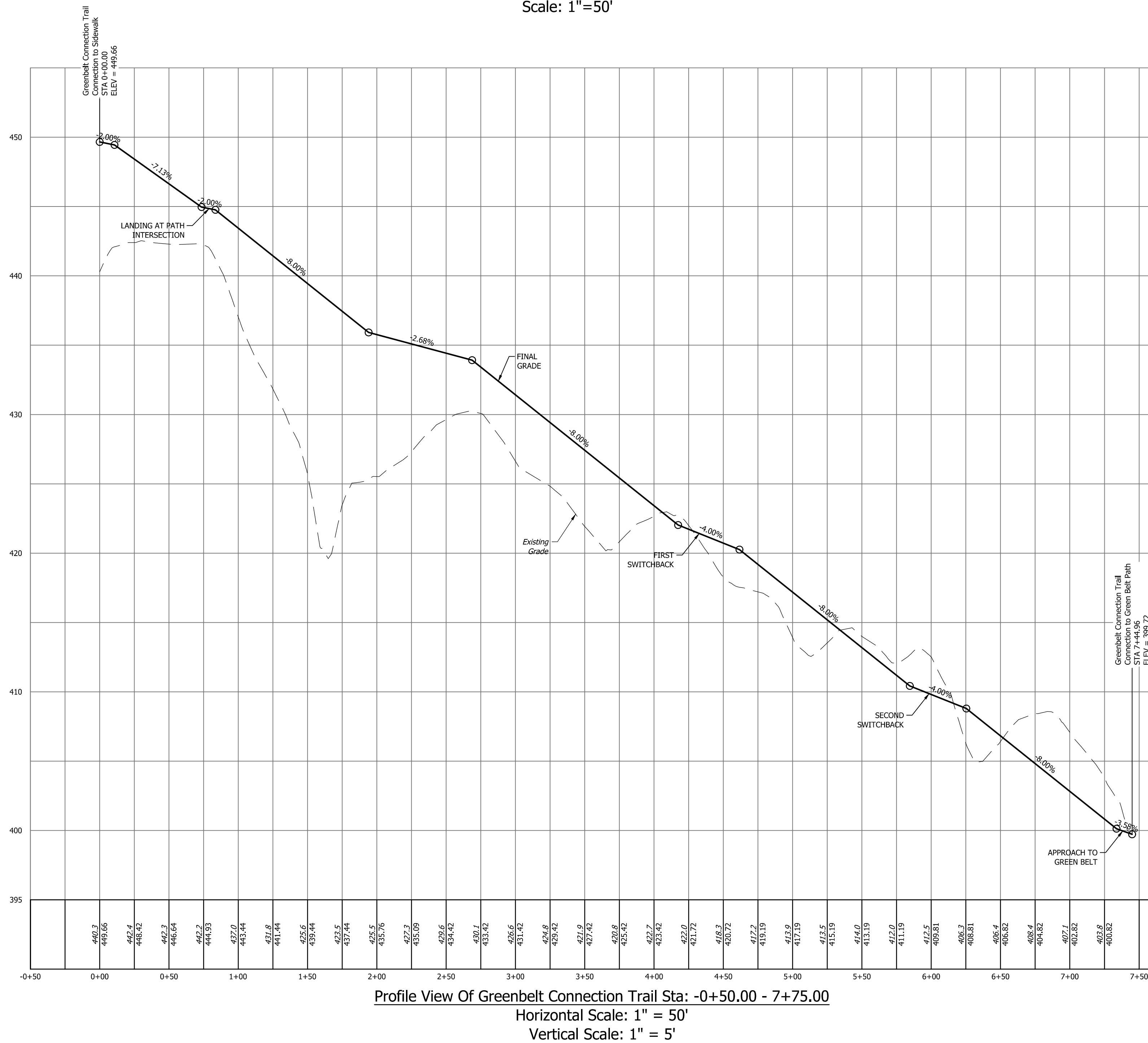


STORM & SANITARY SEWER PROFILES
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

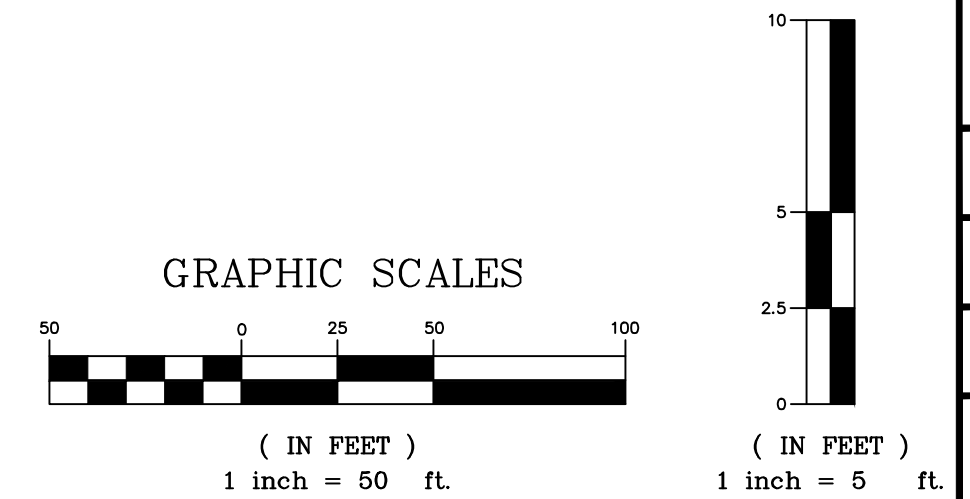
DRAWING ID:	220021-PRO
PROJECT:	220021
DATE:	06/11/21
SHEET:	19 OF 30



Plan View Of Greenbelt Connection Trail
Scale: 1"=50'



Profile View Of Greenbelt Connection Trail Sta: -0+50.00 - 7+75.00
Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 5'



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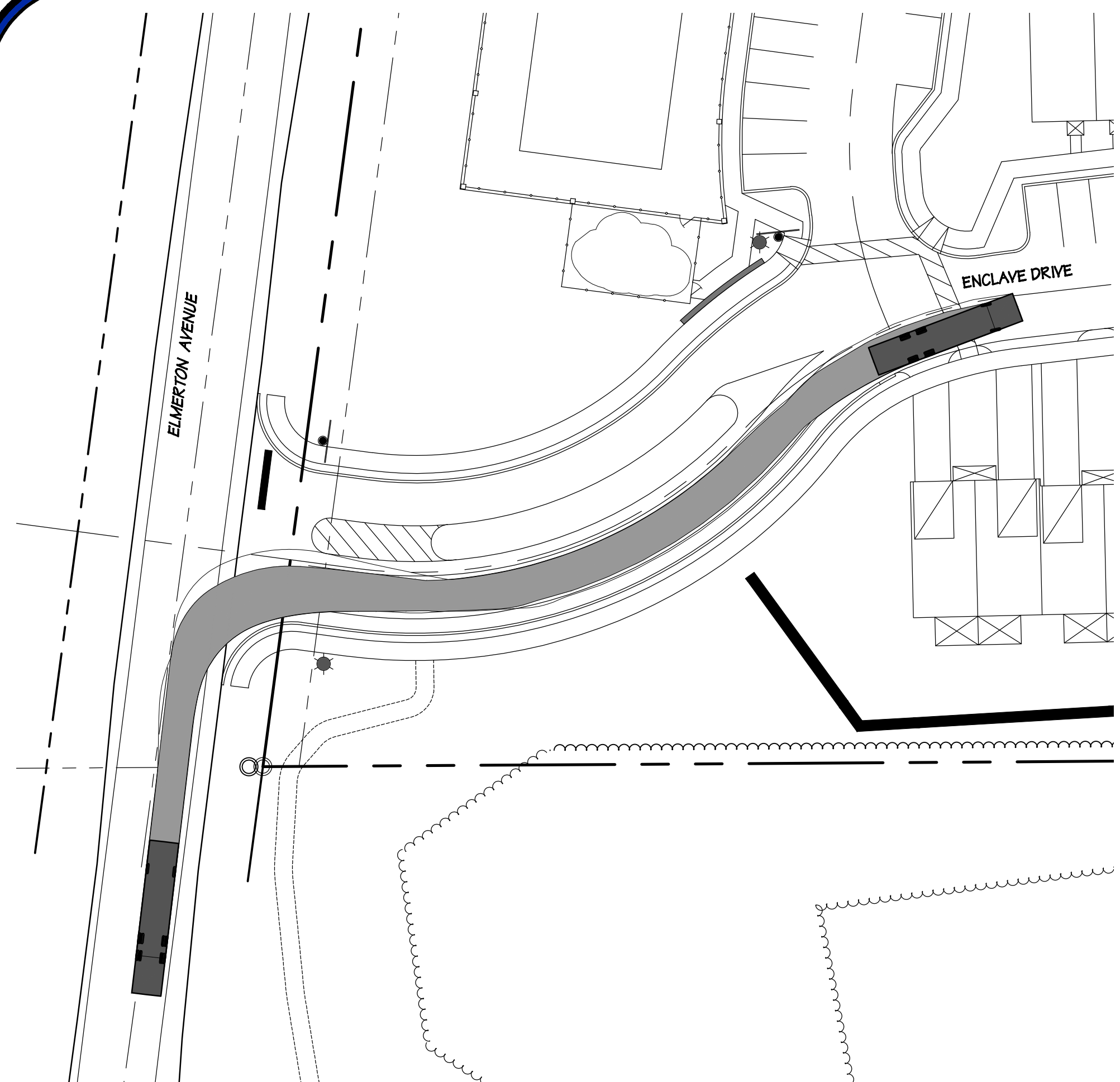
GREENBELT CONNECTION TRAIL PROFILE
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-PRO
PROJECT: 220021
DATE: 06/11/21
SHEET: 20 OF 30

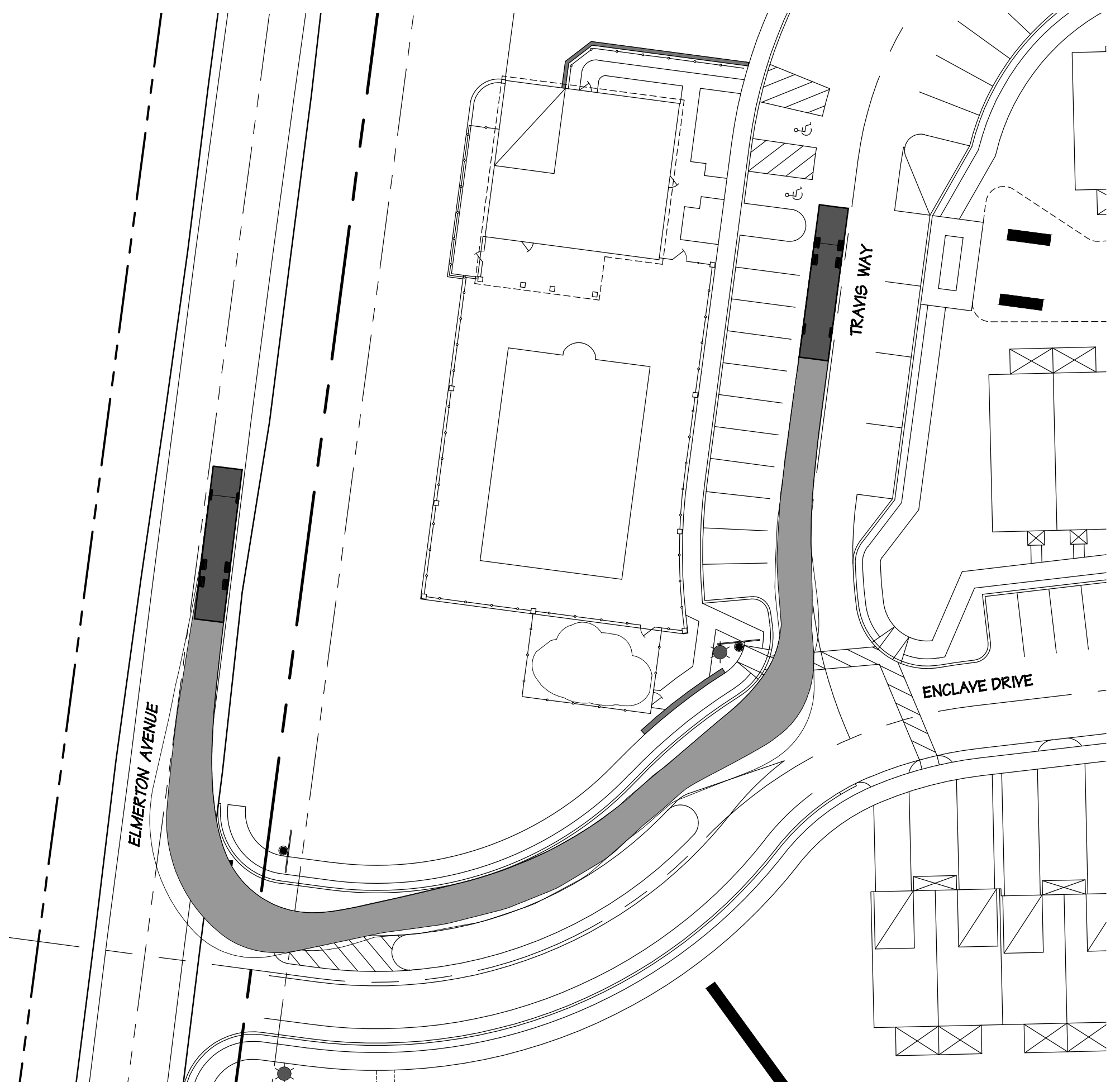
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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I:\Projects\220021-PRO\Drawings\220021-PRO.dwg
DATE: 06/11/21 10:48 AM
USER: RJS



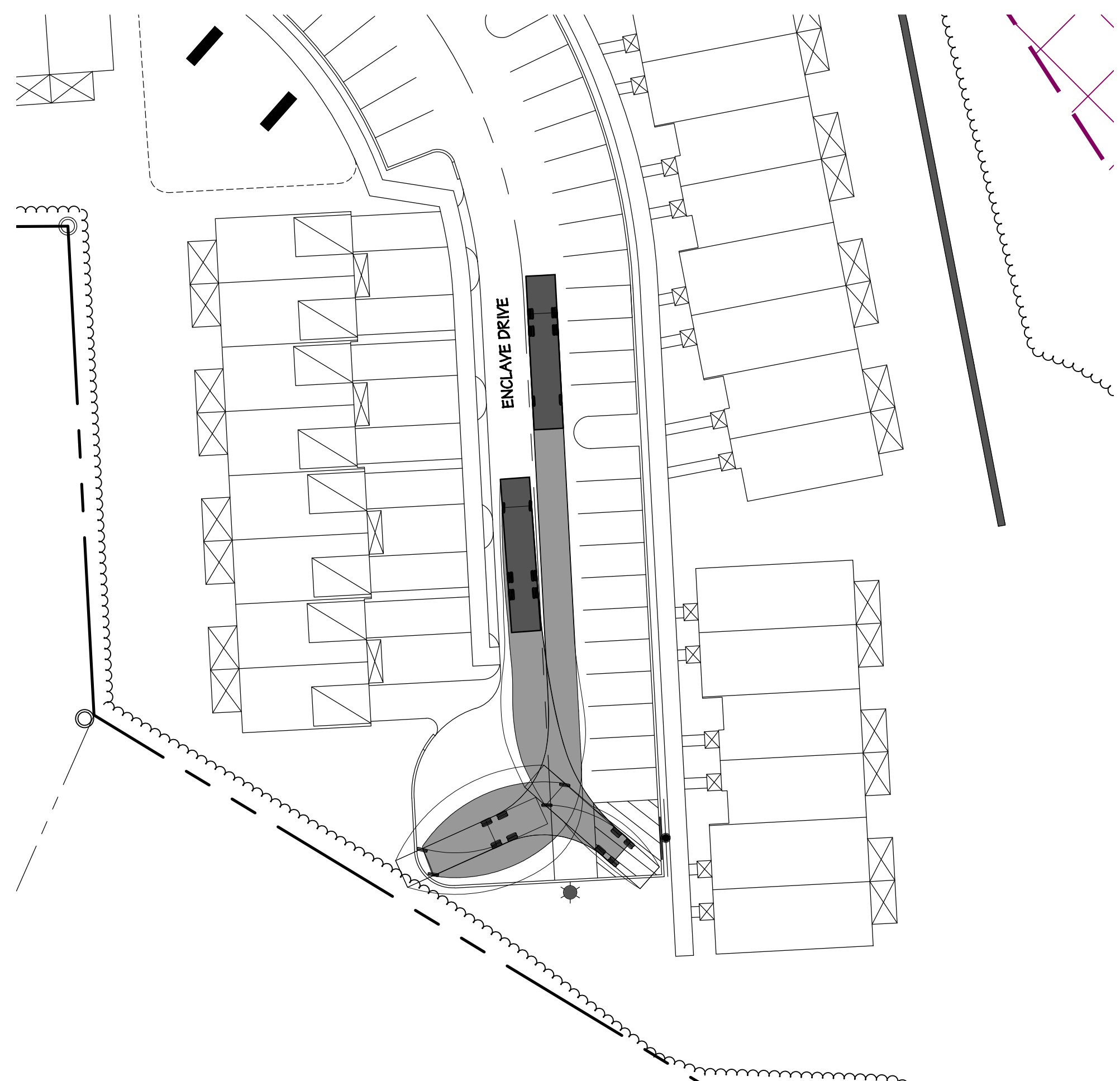
FIRE TRUCK
TRAVELING NORTHEAST ON ELMERTON AVENUE
TURNING RIGHT ONTO ENCLAVE DRIVE



FIRE TRUCK
TRAVELING SOUTHWEST ON TRAVIS WAY TURNING RIGHT ONTO ENCLAVE DRIVE AND
TRAVELING NORTHWEST ON ENCLAVE DRIVE AND TURNING RIGHT ON ELMERTON AVENUE



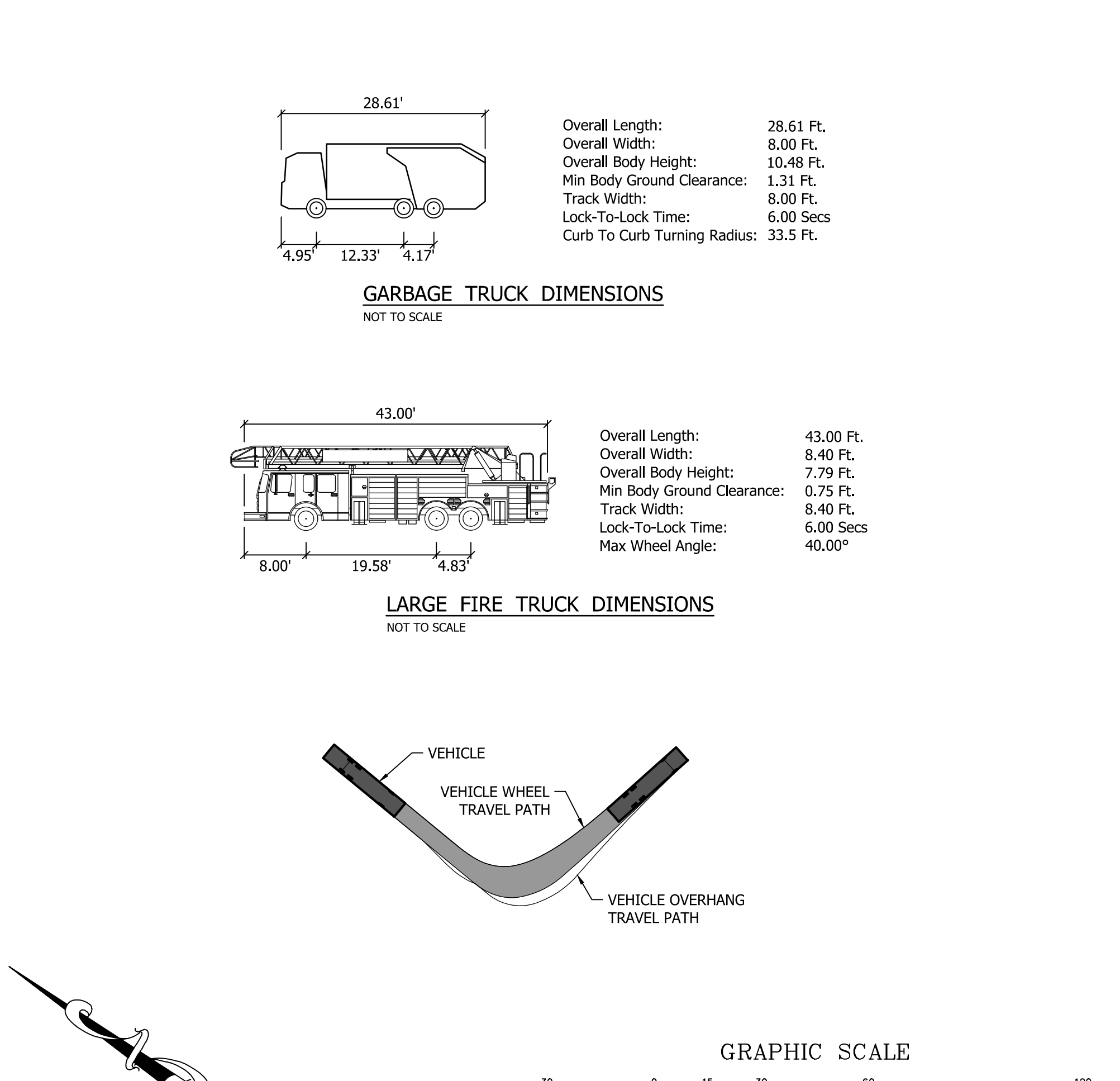
FIRE TRUCK
TRAVELING SOUTHWEST ON TRAVIS LANE
TURNING RIGHT ONTO ENCLAVE DRIVE



FIRE TRUCK
TRAVELING SOUTHWEST ON ENCLAVE DRIVE
TURNING AROUND ON ENCLAVE DRIVE



GARBAGE TRUCK
TRAVELING SOUTHWEST ON ENCLAVE DRIVE
TURNING AROUND ON ENCLAVE DRIVE



NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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TRUCK TURNING PLAN
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-TRUCK
PROJECT: 220021
DATE: 06/11/21
SHEET: 21 OF 30

DATE PLOTTED: 06/11/21 10:45 AM
PLOTTER: HP DesignJet T1100e
SCALE: 1" = 30'

ADDITIONAL ELMERTON AVENUE
OF-WAY TO BE DEDICATION
SUSQUEHANNA TOWNSHIP
0.358 ACRES

MARTINA DRIVE

ELMERTON AVENUE (S.R. 30226) (60' ROW)

Ex. Right-of-Way Line
Ex. Double Yellow Line
Ex. Center Lines
Ex. Cartway

Proposed Conditions Legend

	Proposed Property Line
	Proposed Right-Of-Way
	Proposed Edge of Pavement
	Proposed Curb
	Proposed Pavement
	Proposed Sidewalk
	Proposed Building Setback Line
	Proposed Street Centerline
	Proposed Wall
	Proposed Stream/Wetland Easement
	Proposed Storm Sewer Line, Inlet, MH
	Proposed Drainage Easement
	Proposed Sanitary Sewer Line, MH
	Proposed Sanitary Sewer Easement
	Proposed Water Line, Valve, Hydrant
	Proposed Water Line Easement
	Proposed Gas Line, Valve
	Proposed Gas Line Easement
	Proposed Overhead Utility
	Proposed Underground Utility
	Proposed Utility Easement
	Proposed Trestle
	Proposed Property Monument (To Be Set)
	Proposed Concrete Monument (To Be Set)
	Proposed Sign
	Proposed Light
	Proposed Pedestrian Ramp Location (See Detail)

NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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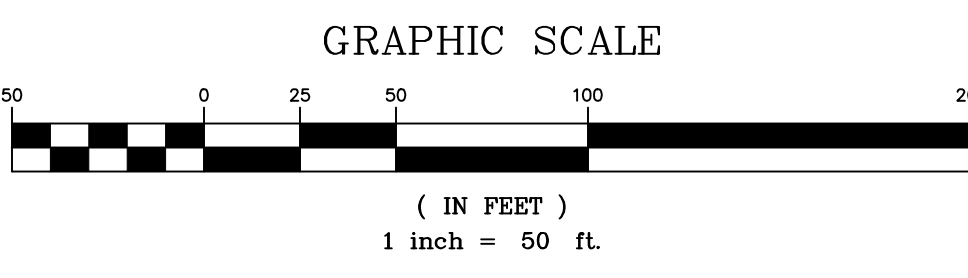
LIGHTING PLAN
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:	220021-LIGHT
PROJECT:	220021
DATE:	06/11/21
SHEET:	22 OF 30

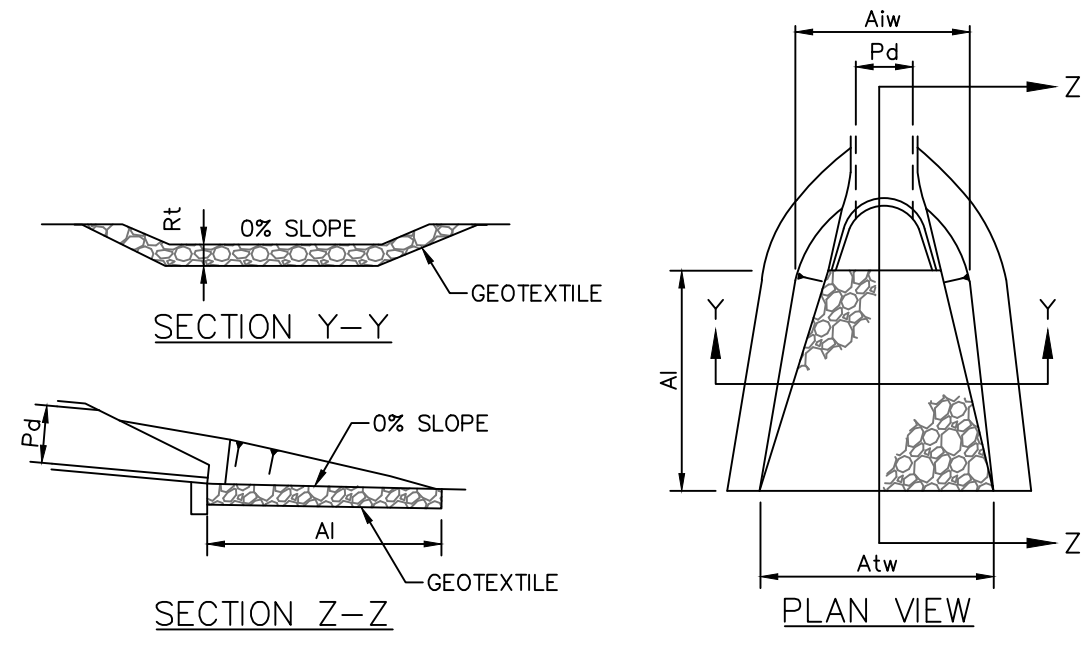
**GENERAL
PHOTOMETRIC
SCHEDULE**

AVERAGE FOOT-CANDLES	0.08
MAXIMUM FOOT-CANDLES	3.1
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	3.10 / 0.00
AVERAGE TO MINIMUM FC RATIO	0.08 / 0.00

N/F
Pennsylvania Commonwealth
Game Commission
0Conv14687
Tax Parcel 62-023-048



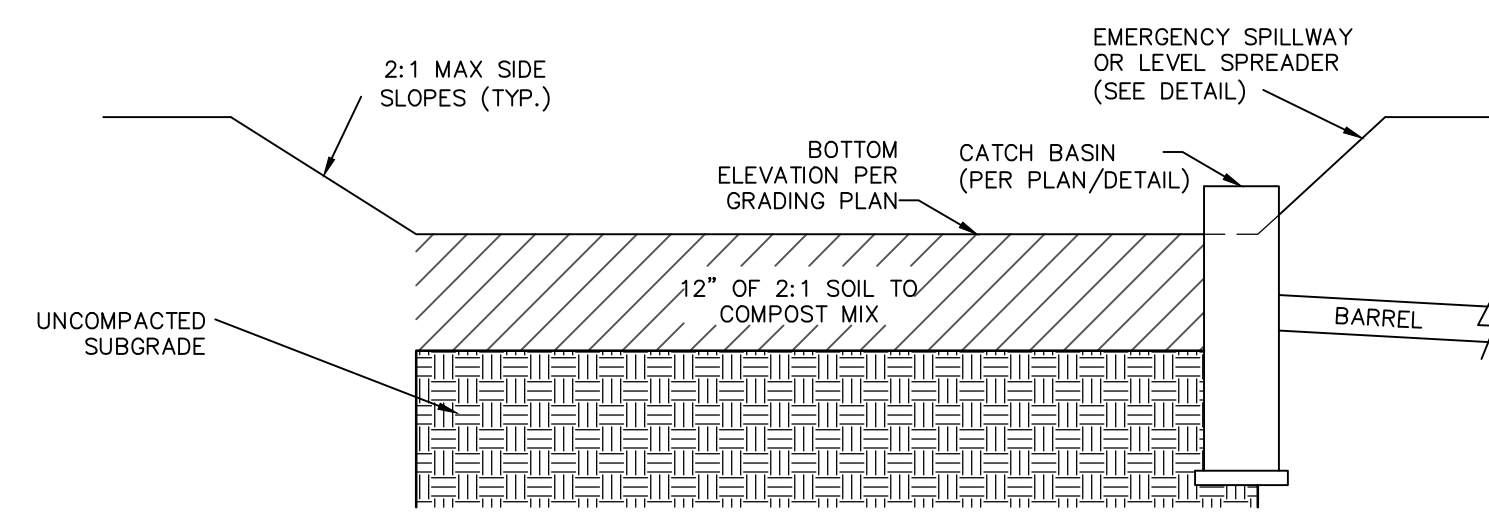
DATE PLOTTED: 06/11/21 10:45 AM
PLOTTER: HP DesignJet T1100PS
22 LIGHTING PLAN



OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP			APRON	
		SIZE R	THICK Rt (IN)	LENGTH At (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
A	24	R-4	18	11	6.0	17
B	18	R-4	18	10.5	4.5	14.5
C	18	R-4	18	10.5	4.5	14.5
A18	18	R-4	18	10.5	4.5	14.5
B2	18	R-4	18	10.5	4.5	14.5
A29	15	R-3	12	9	3.75	12.75
B3	15	R-3	12	9	3.75	12.75
C2	15	R-3	12	9	3.75	12.75

NOTES:
 ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL
 NOT TO SCALE

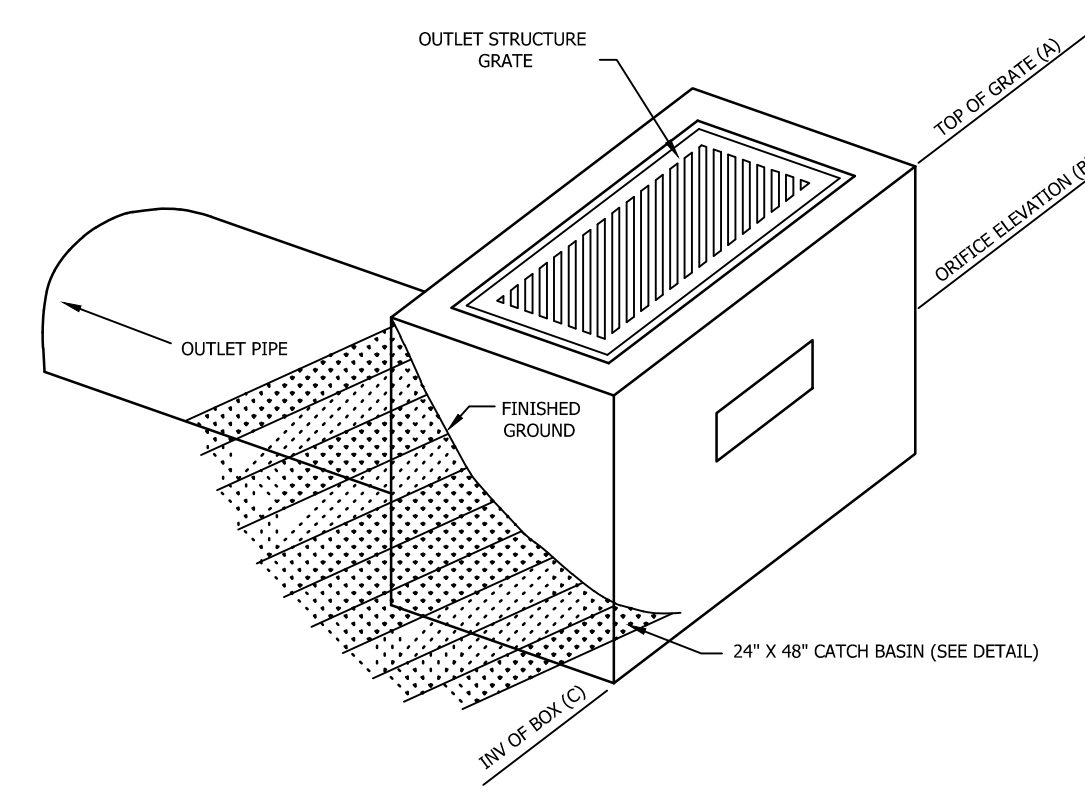


- NOTES:
- EVACUATE INFILTRATION AREA / BASIN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS.
 - INSTALL BASIN UNDERDRAIN AS SHOWN ON PLAN.
 - BACKFILL INFILTRATION AREA / BASIN WITH AMENDED SOIL AS SHOWN ON THE PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
 - PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
 - COMPLETE THE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR TOPSOIL AS SPECIFIED ON PLANS.
 - PLANT VEGETATION ACCORDING TO PLANTING PLAN.
 - MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY.

SOIL AMENDMENT SPECIFICATIONS:

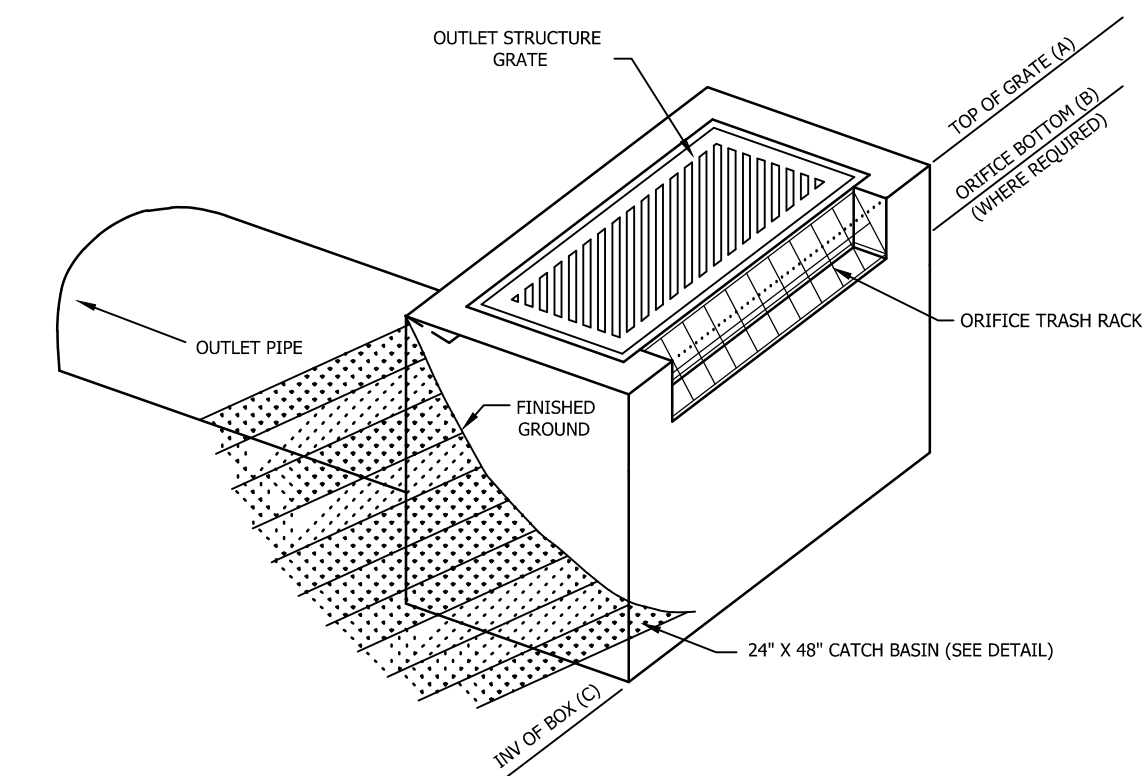
- SOIL AMENDMENT MEDIA MAY CONSIST OF COMPOST (CHOPPED STRAW, LEAVES, GRASS CLIPPINGS AD OTHER PLANT REFUSE), COMPOSTED OR DRIED MANURES, WOOD PRODUCTS (SAWDUST, WOOD SHAVINGS, SHREDDED WOOD PULVERIZED BARK AND WOOD CHIPS), PEAT MOSS, MUSHROOM SOIL, OR SAND.
- COMPOST SHOULD BE ADDED AT A RATE OF 2:1 (SOIL:COMPOST).
- ON-SITE TOPSOILS CAN BE PROPERLY STOCKPILED AND REUSED FOR SOIL PORTION OF THE 2:1 SOIL:COMPOST MIX.

INFILTRATION BASIN DETAIL
 NOT TO SCALE



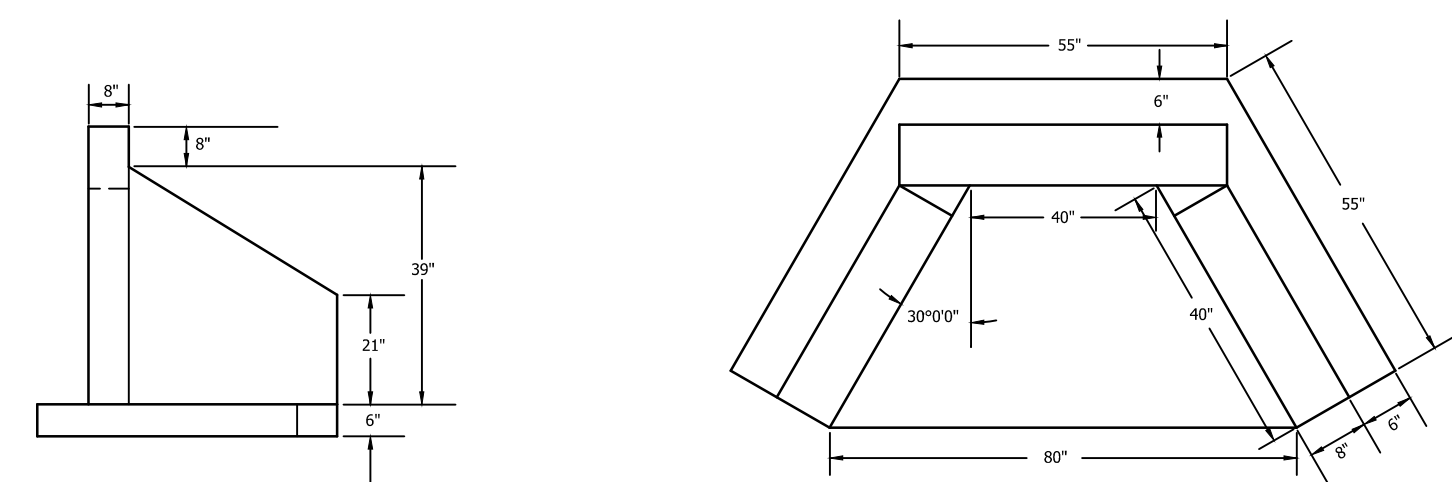
BASIN OUTLET STRUCTURE			
INFILTRATION BASIN #	A (FT)	B (FT)	C (FT)
2	446.50	N/A	439.00
3	442.50	441.25 (2 X 6')	433.80

INFILTRATION BASIN OUTLET STRUCTURE
 N.T.S.

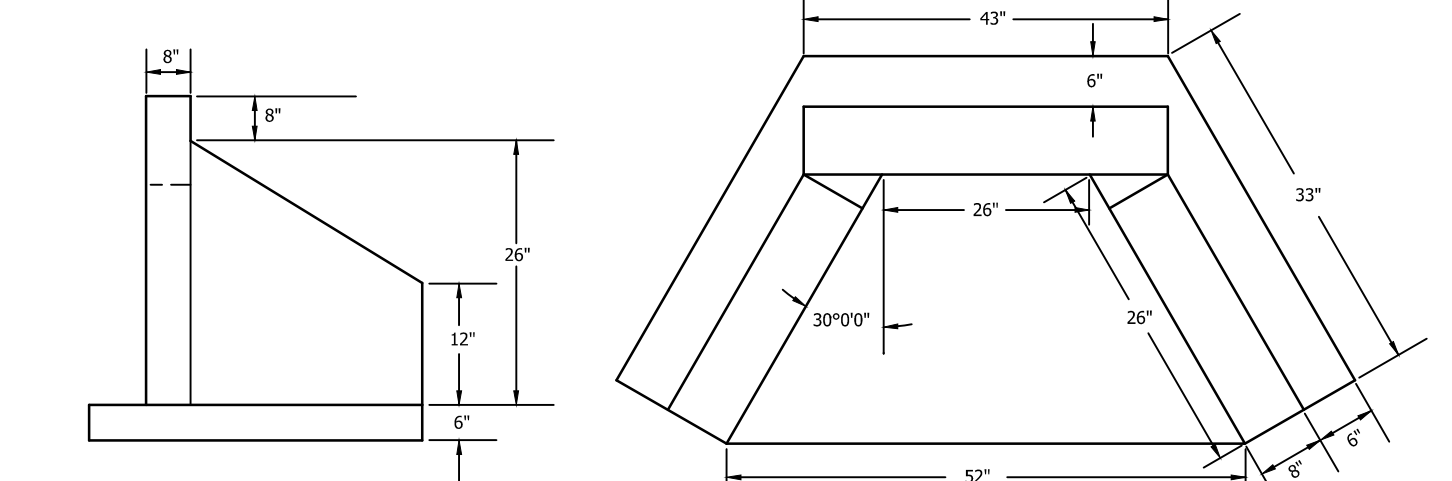


BASIN OUTLET STRUCTURE			
INFILTRATION BASIN #	A (FT)	B (FT)	C (FT)
1	434.00	433.17 (30'W x 10'H)	427.00

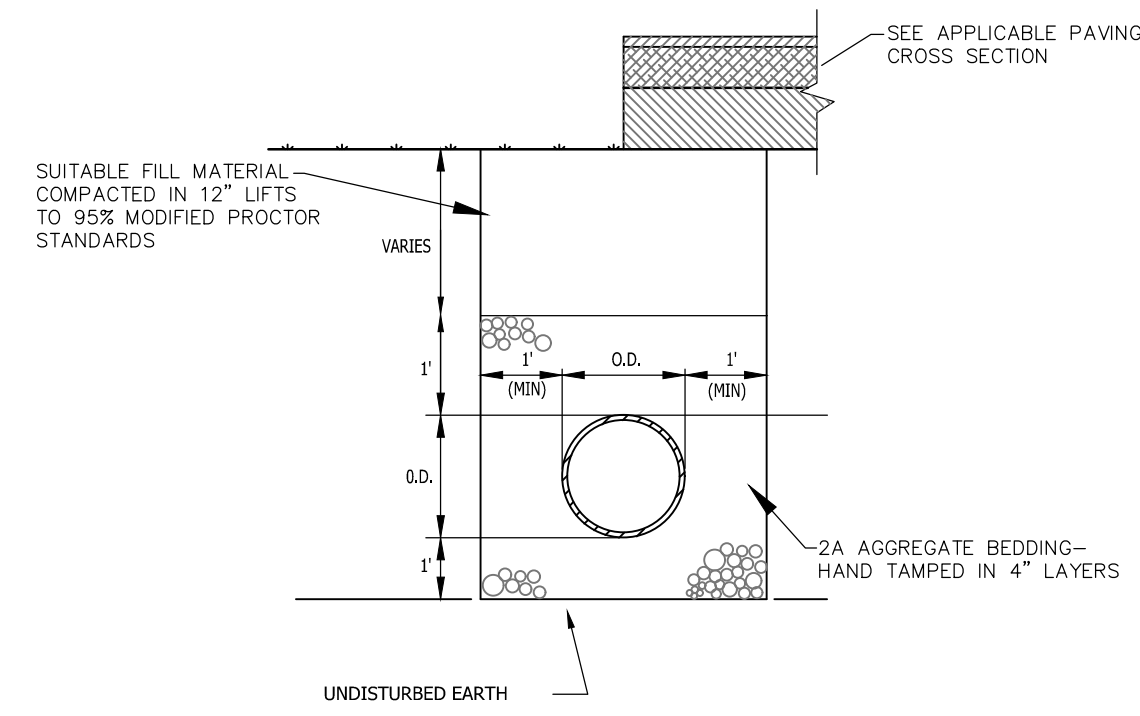
INFILTRATION BASIN 1 OUTLET STRUCTURE AND TRASH RACK
 N.T.S.



TYPE D-W ENDWALL (MAX. PIPE SIZE 36" CMP) DETAIL
 N.T.S.

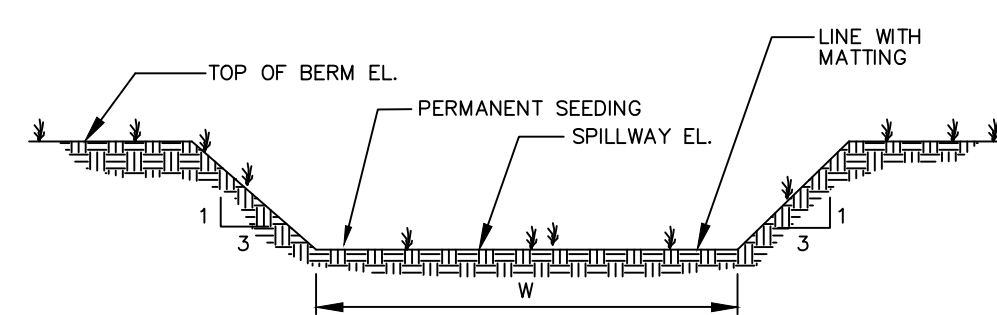


TYPE D-W ENDWALL (MAX. PIPE SIZE 21" CMP) DETAIL
 N.T.S.

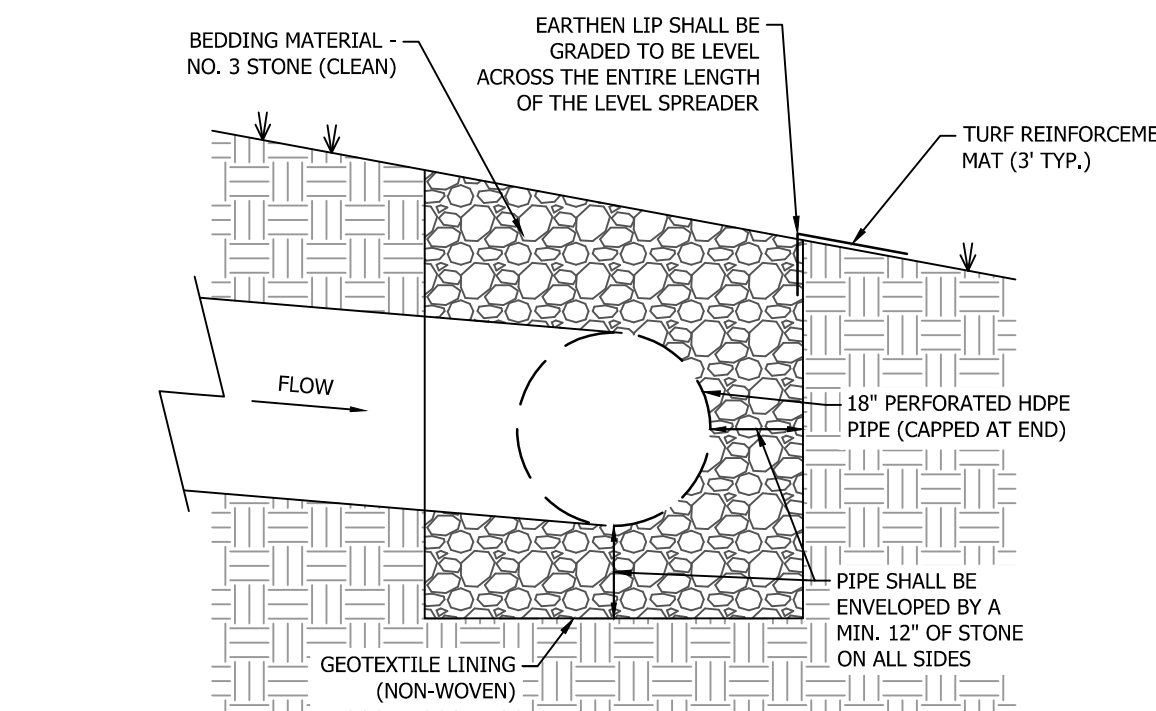


STORM SEWER TRENCH IN STREET
 N.T.S.

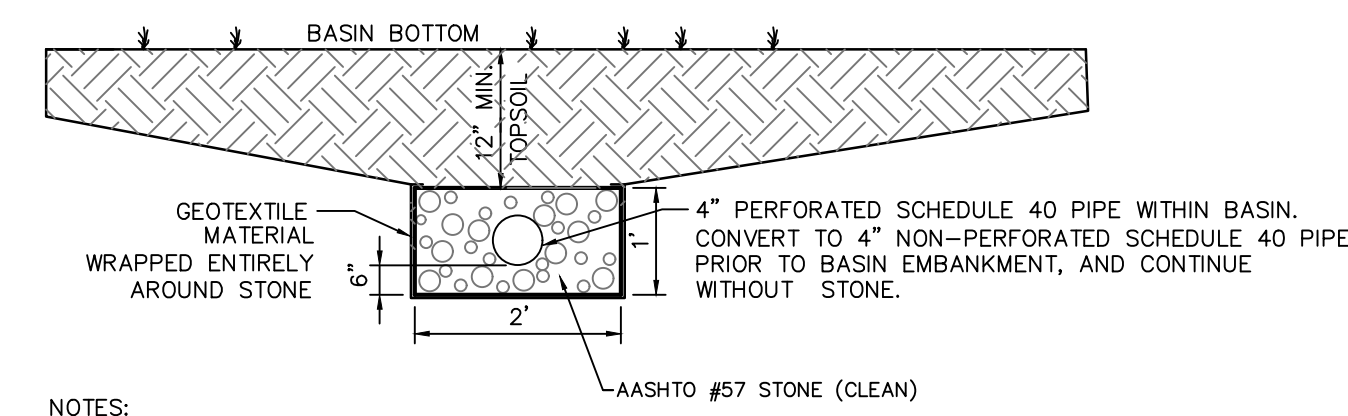
BASIN DESIGNATION	TOP OF BERM ELEVATION (FT)	SPILLWAY ELEVATION (FT)	WIDTH (W) (FT)	MATting
1	436.0	434.6	40	NAG SC250
2	448.0	446.5	20	NAG S75
3	444.0	442.5	10	NAG SC250



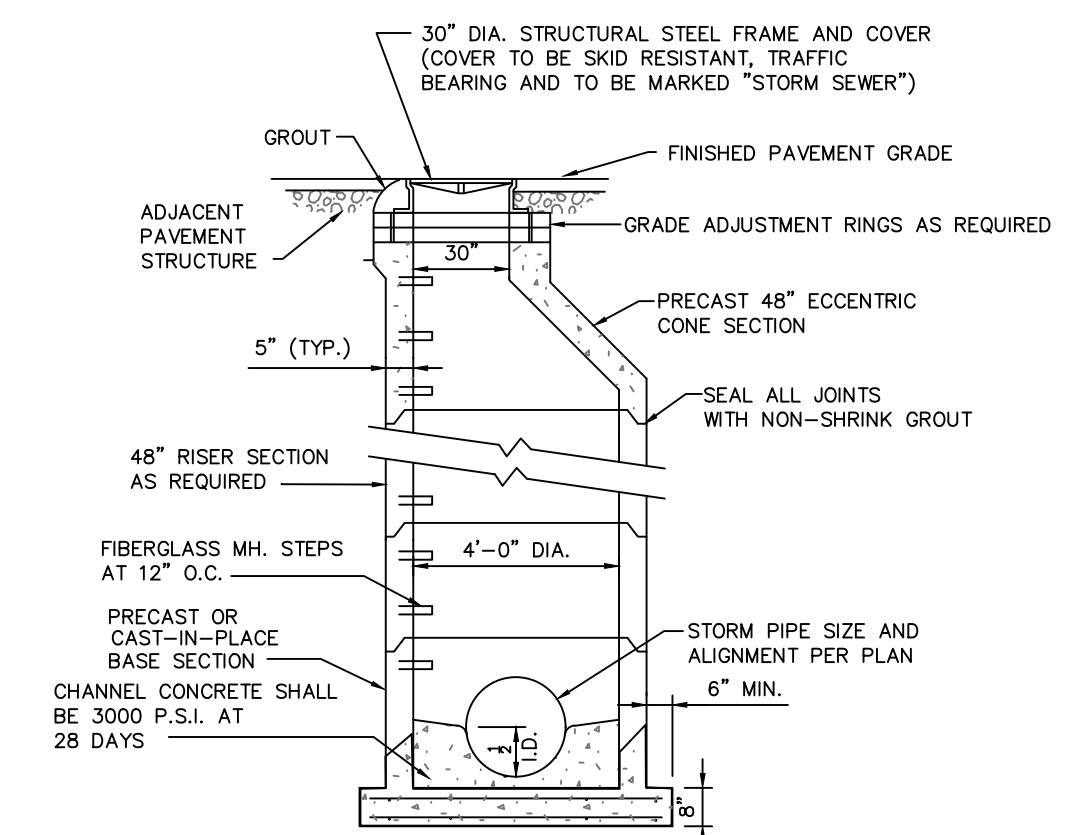
PERMANENT EMERGENCY SPILLWAY DETAIL
 N.T.S.



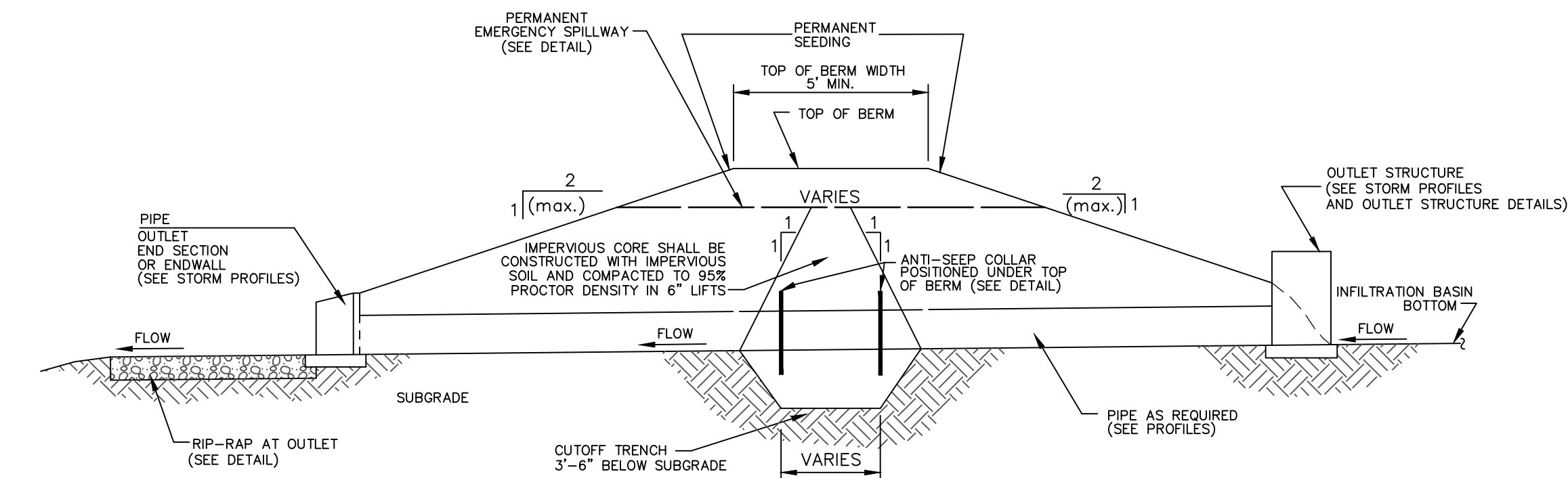
LEVEL SPREADER DETAIL
 N.T.S.



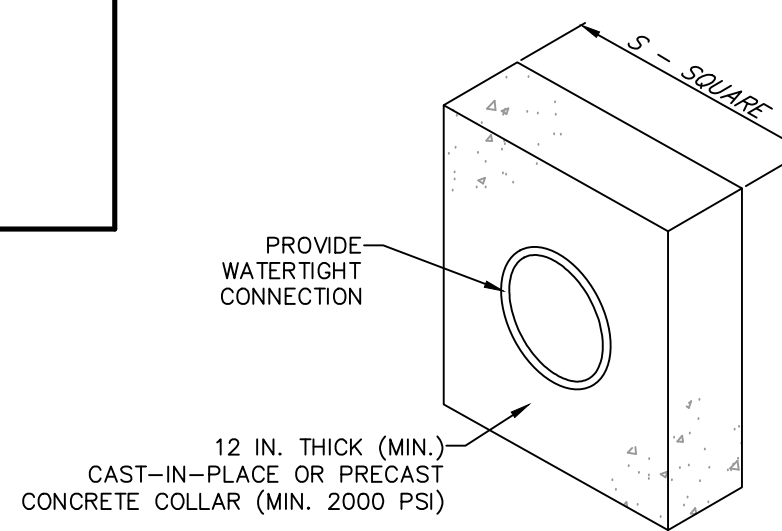
INFILTRATION/ INFILTRATION BASIN UNDERDRAIN DETAIL
 N.T.S.



TYPICAL STORM SEWER MANHOLE
 N.T.S.



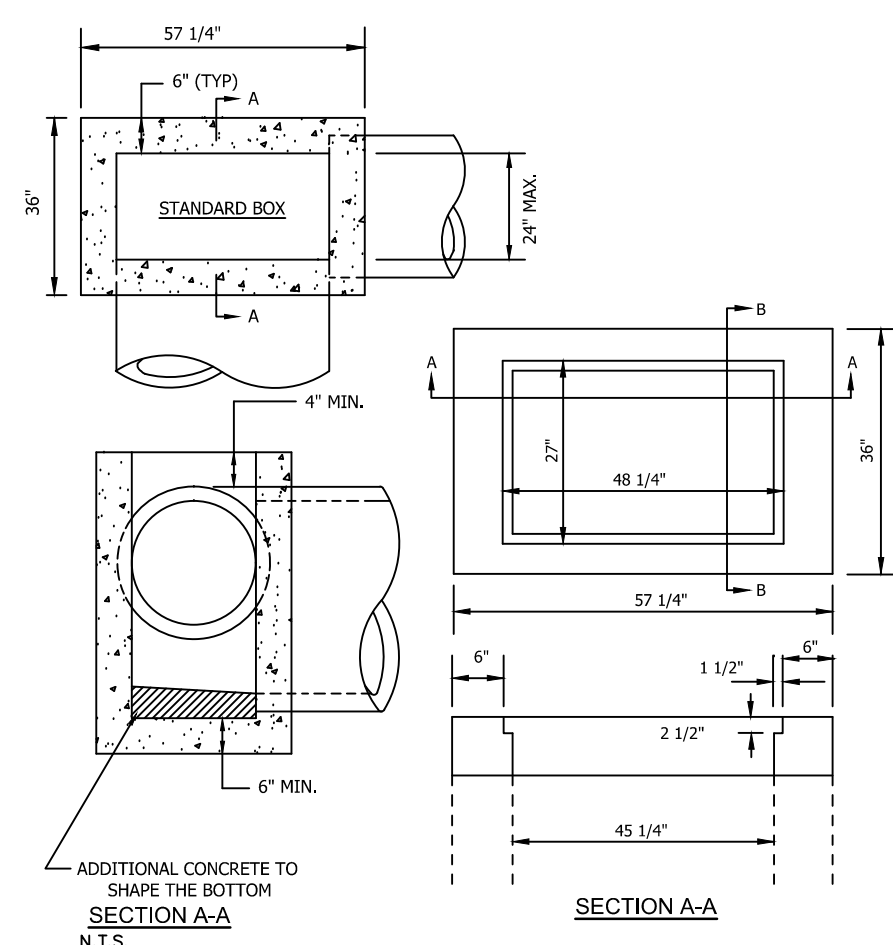
TYPICAL DETENTION BASIN BERM
 N.T.S.



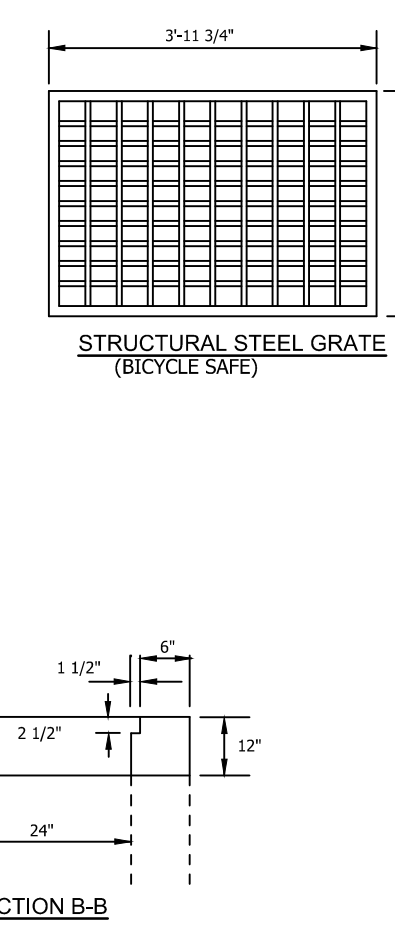
12 IN. THICK (MIN.) CAST-IN-PLACE OR PRECAST CONCRETE COLLAR (MIN. 2000 PSI)
 NOTES:
 ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
 COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS	RISER TO FIRST COLLAR (FT)	COLLAR SPACING (FT)
1	24	82	3	20	20
2	18	71	3	10	10
3	18	80	3	12	12

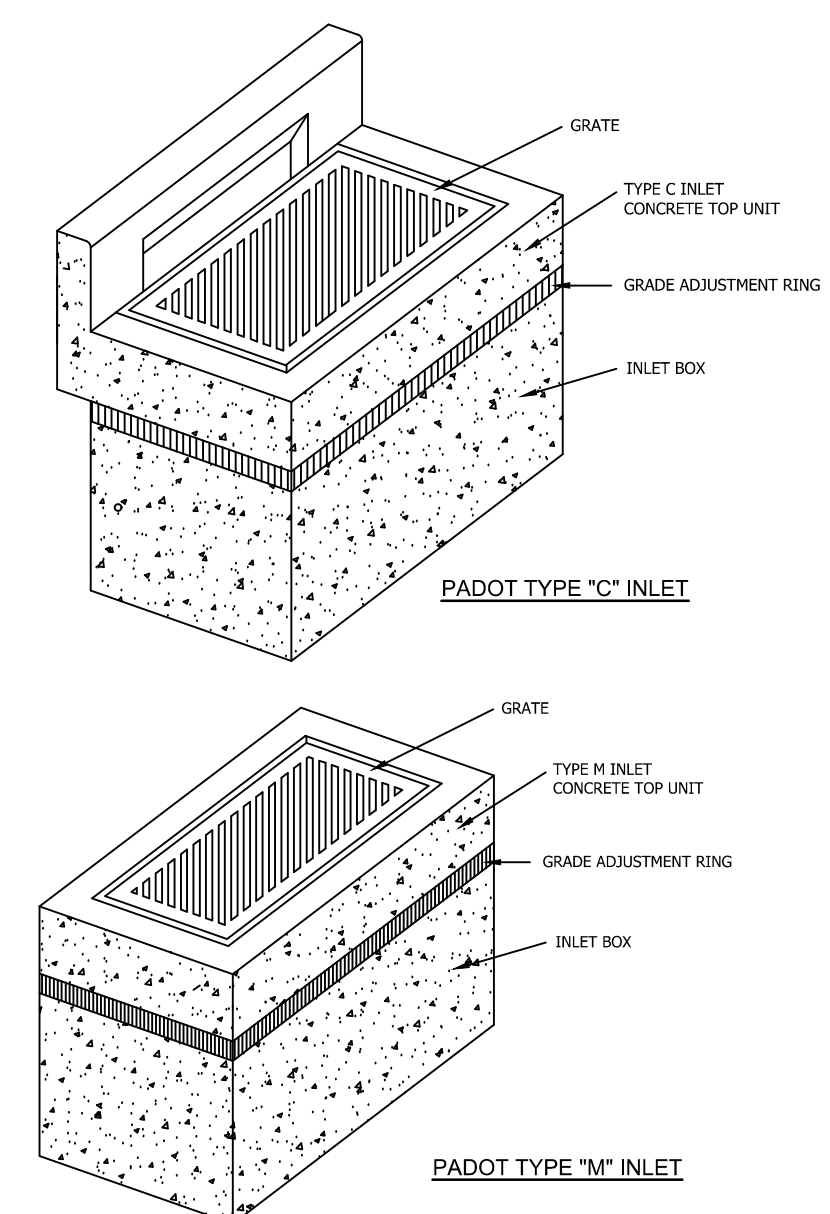
STANDARD CONSTRUCTION DETAIL #7-16 CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS
 N.T.S.



STORM INLET
 N.T.S.

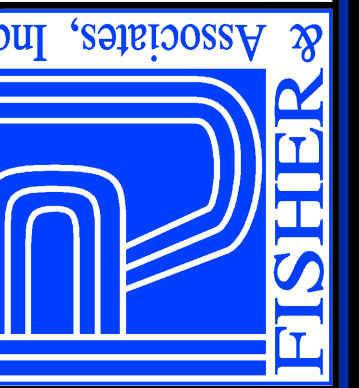


PENNDOT TYPE "M" INLET TOP
 N.T.S.



NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	DRC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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PCSM DETAILS FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-DTL
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 24 OF 30

GENERAL PCSM NOTES

SITE PRESERVATION ANALYSIS:

There is a stream tributary and wetlands located on the south side of the site. The impervious areas were minimized to the best of our ability by designing an efficient street and lot layout that doesn't propose unnecessary pavement, long driveways or oversized homes. It was not possible to protect all of the existing drainage features and vegetation, due to the necessary grading on the site. The entire site must be cleared in order to maintain an earthwork balance that doesn't require the import or export of fill. The soil will experience some compaction in all of the areas where grading will occur, however compaction will be kept to a minimum in the areas of the Infiltration Basins.

PCSM BMP INSTALLATION SEQUENCE:

- The Infiltration Basins shall be converted from their respective sediment basins or traps, when the time comes, to the PCSM condition as approved by the Conservation District.

INDIVIDUAL BMP INSTALLATION SEQUENCES:

Infiltration Basins:

- Complete upstream site grading and construction.
- Prepare site for excavation and/or embankment construction.
- Excavate bottom of basin to desired elevation (if necessary).
- Install surrounding embankments and inlet and outlet control structures. Retrofit those used in temporary conditions as applicable.
- Grade subsoil in bottom of basin. Compact surrounding embankment areas and around inlet and outlet structures.
- Apply and grade planting soil.
- Apply geo-textiles and other erosion-control measures where applicable.
- Seed the basins.
- Install anti-grazing measures, if necessary.
- Follow required maintenance and monitoring guidelines.

Infiltration Basins:

- Install temporary sediment control BMPs as shown on the plans.
- Complete site grading.
- Stabilize grading within the limit of disturbance except within the Basin area.
- Excavate Basin to proposed invert depth and scarify the existing soil surfaces. Do not compact in-situ soils.
- Presoak the planting soil prior to planting vegetation to aid in settlement.
- Complete final grading to achieve proposed design elevations, leaving space for upper layer of compost, mulch or topsoil as specified on plans.
- Plant vegetation according to planting plan.

CRITICAL STAGES OF BMP INSTALLATION:

- Infiltration Basin 1, 2 and 3 Clay Core and Key Trench
- Infiltration Basin 1, 2 and 3 Anti-seep Collars
- Infiltration Basin 1, 2 and 3 Underdrains
- Conversion of Sediment Basins and Traps to Infiltration Basins

Any stormwater BMP that is damaged in a way that keeps it from functioning as designed must be repaired or replaced as soon as possible.

RECYCLING OR DISPOSAL OF MATERIALS:

Disposal of removed material is dependant on the nature of the drainage area and the intent and function of the BMP. BMPs that primarily catch sediment and detritus from areas such as lawns may reuse the waste on the site. Pollutants such as man made trash and other non-reusable materials must be removed and deposited in an approved recycling facility or landfill.

STORMWATER BMP OPERATION AND MAINTENANCE PLAN

The stormwater Best Management Practices (BMPs) as shown on this plan shall be maintained to function as designed as per the procedures described below. Facilities located outside the public right-of-ways shall be owned and maintained by the Homeowners Association of the development.

The facilities are to remain permanent and can only be removed or altered after approval by one or more of the following entities which may have jurisdiction: Susquehanna Township; Dauphin County Conservation District; and/or PA DEP.

The following facilities located outside the public right-of-ways shall be maintained to the original design and dimensions shown on the design plans, approved by Susquehanna Township, until such a time as an amended plan is approved by the Township.

- Infiltration Basins, Emergency Spillways & Outlet Structures
- Stormwater Inlets, Manholes, Pipes & Swales
- Riprap Aprons

For any structure facility (pipe, inlet, manhole), it must be repaired or replaced if damaged more than superficially, in a way that is a safety hazard, if structurally unsound, or if not substantially performing as it is intended per the original design. The responsible owners shall keep a record of any repaired or replaced facility, including costs, dates, materials removed, materials placed, and the contractor(s) information.

Inspection and maintenance tasks for Infiltration Basins & outlet structures:

- While vegetation is being established, pruning and weeding may be required. Weeds should be removed thereafter by hand.
- Detritus may also need to be removed approximately twice a year.
- Perennial plantings may be cut down at the end of the growing season.
- Mulch should be re-spread when erosion is evident and be replenished annually.
- Any erosion, fills or gullies should be repaired immediately.
- Any invasive species growing in the infiltration basin shall be removed upon detection.
- Remove accumulated sediment or debris from the infiltration basin as required. Restore original cross section and infiltration rate.

Property dispose of removed materials:

- Inspect after storm events exceed 1 inch within 48 hours.
- Inspection for standing water or ponding water which exceeds 72 hours after the most recent storm even which exceeds 1".
- Any erosion shall be re-stabilized with rock, or seeding (seed, mulch and matting), or sod that is watered until established; rock should be placed in non-growing seasons, even if temporary.
- Vegetation along the surface of the infiltration basin should be maintained in good condition, and any bare spots revegetated as soon as possible. Mow only as appropriate for vegetative cover species.
- Any dislodged rock shall be reset in place.

Inspection and maintenance tasks for stormwater inlets, manholes, & pipes:

- Examine annually at a minimum. Remove man-made trash and dispose of properly.
- Examine inlet bottoms via grates, for accumulated debris. Remove accumulated grit and debris. Check for any obvious structural deterioration.
- Any erosion shall be re-stabilized with rock, or seeding (seed, mulch and matting), or sod that is watered until established; rock should be placed in non-growing seasons, even if temporary.
- All inlets, storm piping, and drainage structures shall be kept free of any obstructions and foreign material that would cause disruption of water flow in a manner not designed for the facility, such as sediment, vegetation, wood, sand, debris, or vegetative growth in excess of 12 inches if not part of the landscape design. Removal of sediment/debris shall take place when the area has dried, if possible. Man-made trash shall be disposed of properly in containers collected by a licensed commercial trash hauler.
- All impervious surfaces shall be maintained clean of oil, fuel or other toxic spills, in accordance with State, Federal or local regulations.

Inspections and maintenance tasks for riprap aprons:

- Inspect annually at a minimum.
- Remove any accumulated debris and trash, and remove promptly.
- Dislodged rock should be reset in place.
- Any scouring of earth at or below the apron should be re-stabilized with rock, or seeding (seed, mulch and matting), or sod that is watered until established; rock should be placed in non-growing seasons, even if temporary.

TEMPORARY SEEDING SCHEDULE

The contractor shall immediately temporarily stabilize any rough graded area, topsoil stockpile or unused excavated fill material that will be left idle for less than 1 year. The grass will provide interim protection against the impact of precipitation, running water and wind. Permanently seed any area that will be idle for more than 1 year.

Temporary seeding schedule is as follows:

- Species: annual rye grass
- % Live Seed: 98%
- Application rate: 10 lbs./1,000 sq. yds.
- Fertilizer type: general purpose granular, 5-5-5
- Fertilizer application rate: 11 lbs./1,000 sq. yds.
- Liming rate: per soil test; minimum of 1 ton per acre.
- Seeding dates: any time
- Strawble mulch rate: 3 tons per acre
- Mulch anchoring: Asphalt, either emulsified or cut-back, containing no solvents or other diluting agents toxic to plant and animal life, uniformly applied at the rate of 31 gallons per 1,000 square yards. Synthetic binders (chemical binders) may be used per manufacturer's recommendation provided they are non-toxic to plant and animal species.

When seeding is not possible due to the time of year or other limitations, disturbed area shall be mulched with strawboles at the rate above. An erosion control blanket must be installed on all disturbed slopes steeper than 3:1, and all areas with concentrated flows. Matting can be North American Green S75, Jute, or approved equal.

Maintenance procedure:

- Maintain a minimum 70% soil surface coverage with grass and/or mulch.
- If a washout, slope failure or similar disturbance occurs, correct drainage problem if necessary, then reapply soil to the proper grade, reapply soil amendments, seed and mulch.

PERMANENT LAWN SEEDING SCHEDULE--

- Species: 30% Kentucky bluegrass
- 40% Pennlawn Creeping Red Fescue
- 20% Norelia Perennial Ryegrass
- 10% annual ryegrass

- % Pure live seed: 98%
- Application rate: 6 lbs./1,000 sq. ft.
- Fertilizer type: general purpose granular, 10-20-20
- Fertilizer application rate: 11 lbs./1,000 sq. yds.
- Liming rate: per soil test; minimum of 6 tons per acre
- Seeding dates: between 4/1 and 10/15
- Strawble mulching rate: 3 tons per acre.

Erosion control matting must be placed on slopes exceeding 3:1. Matting can be North American Green S75, Jute, or approved equal.

Maintenance procedure:

- Maintain a minimum 70% uniform soil surface coverage with grass, meadow vegetation and/or mulch.
- If a washout, slope failure or similar disturbance occurs, correct drainage problem if necessary, then reapply soil to the proper grade, reapply soil amendments, seed and mulch.

STEEP SLOPE SEEDING SCHEDULE--

The following seed mix can be planted on steep slopes of greater than 3:1 that will only be mowed several times per year, and on Infiltration Basin berms.

- Species: 100% Tall fescue, varieties such as K-31, Altra, or other recently released variety.
- % Pure live seed: 98
- Application rate: 6 lbs./1,000 sq. ft.
- Fertilizer type: general purpose granular, 10-20-20
- Fertilizer application rate: 11 lbs./1,000 sq. yds.
- Liming rate: per soil test; minimum of 4 tons per acre
- Seeding dates: between 4/1 and 10/15
- Strawble mulching rate: 3 tons per acre.

Erosion control matting must be placed on slopes exceeding 3:1. Matting can be North American Green S75, Jute, or approved equal.

Maintenance procedure:

- Maintain a minimum 70% uniform soil surface coverage with grass, meadow vegetation and/or mulch.
- If a washout, slope failure or similar disturbance occurs, correct drainage problem if necessary, then reapply soil to the proper grade, reapply soil amendments, seed and mulch.

The following seed mix shall be planted within Infiltration Basins and retention areas, as indicated on the plans. Seeding shall not take place until after the watershed tributary to the site is permanently stabilized and no erosion is expected to occur, and the basin has been converted to its permanent stormwater configuration.

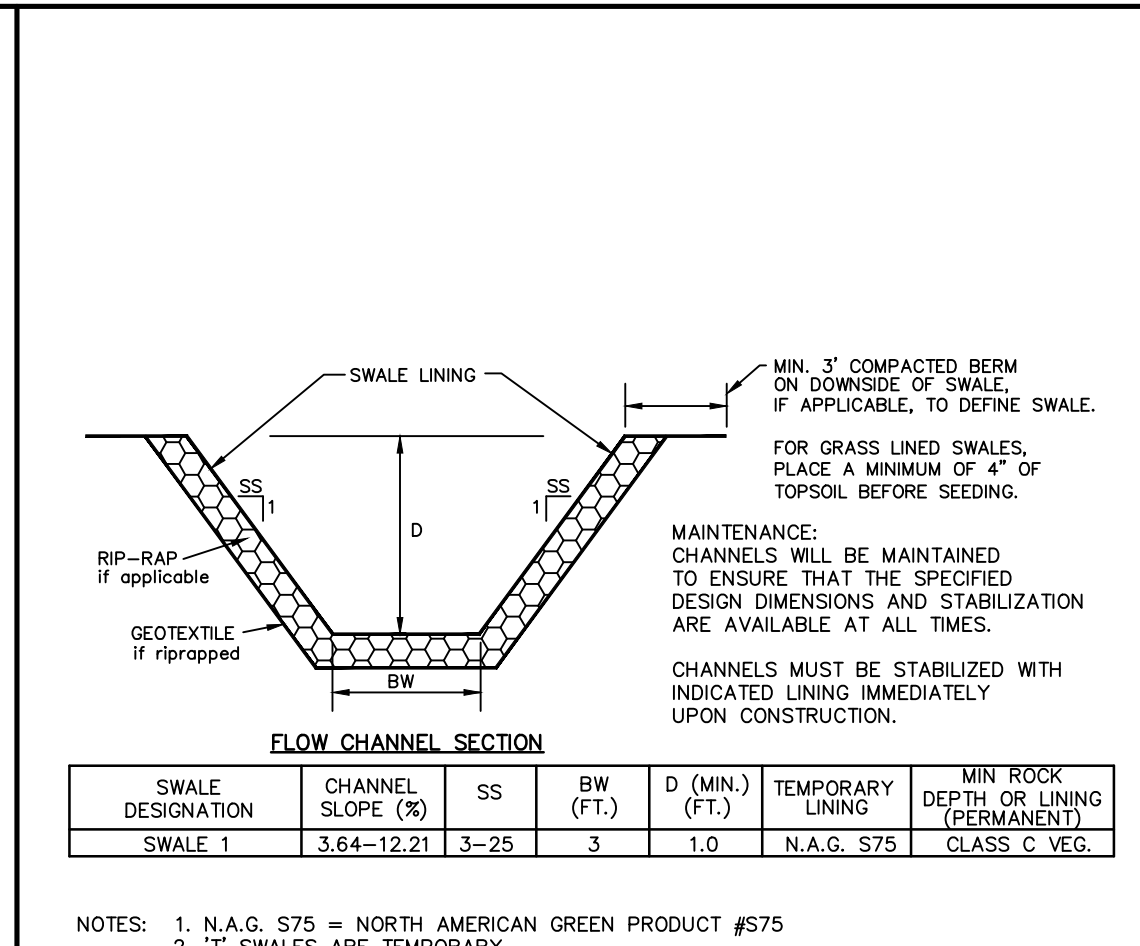
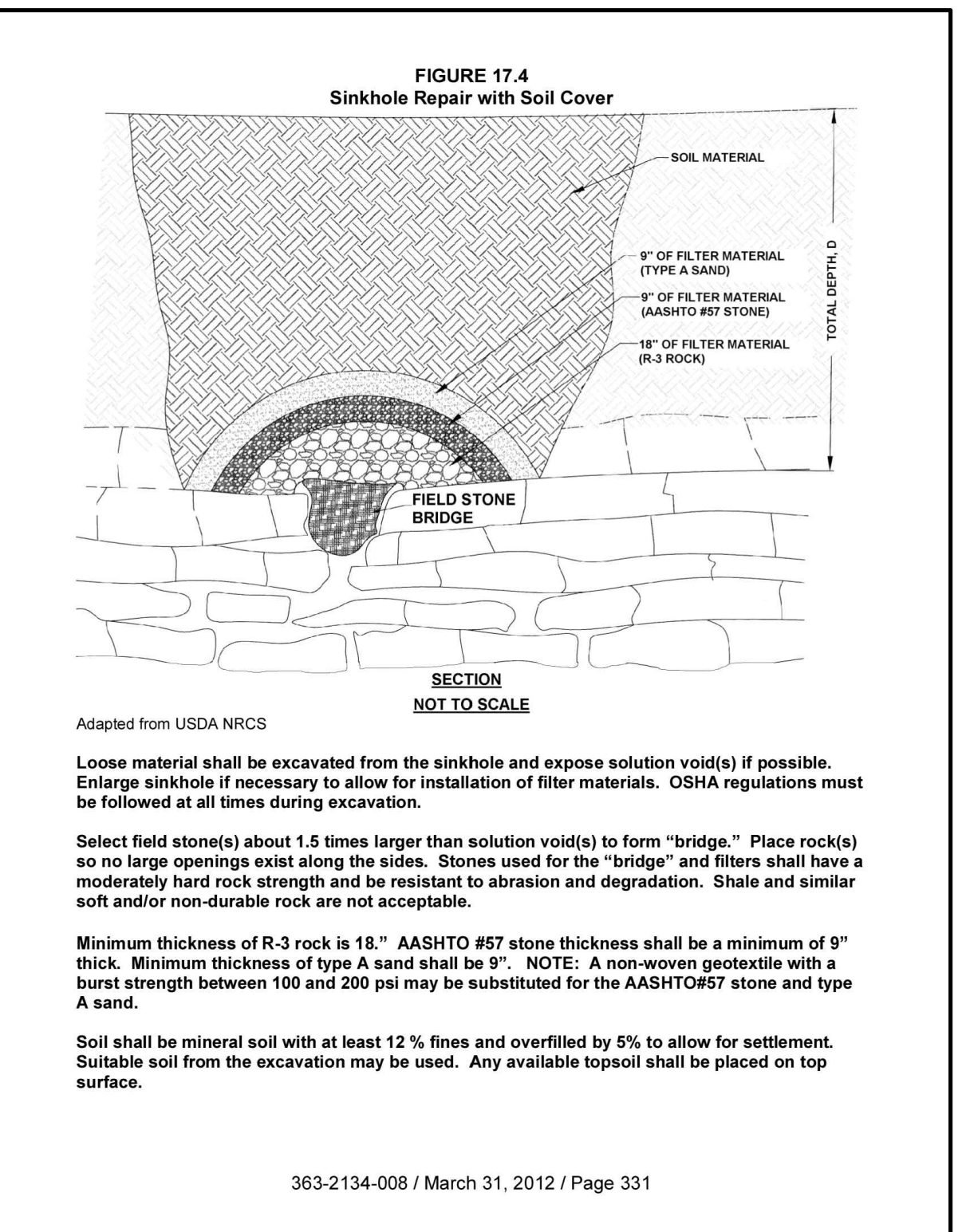
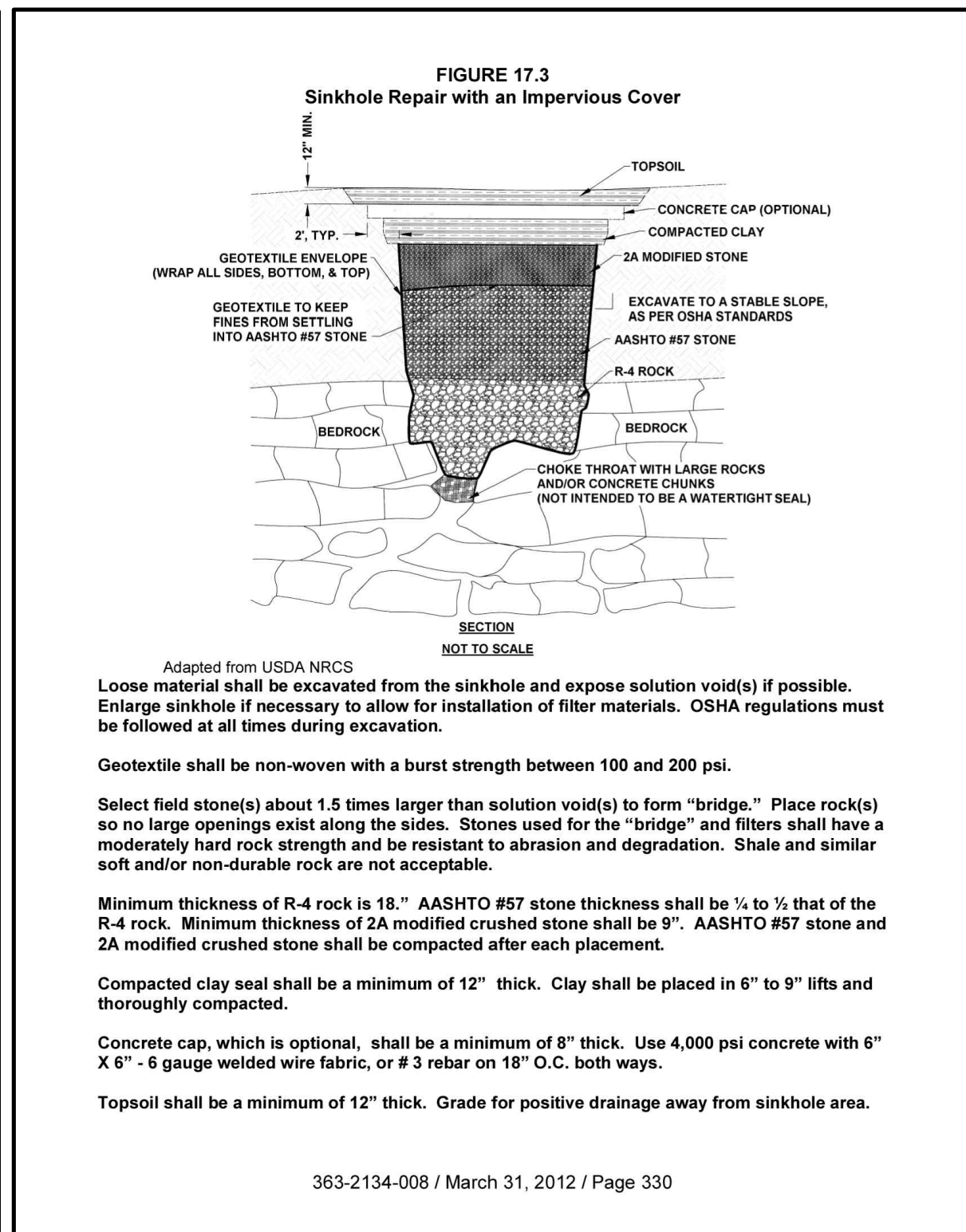
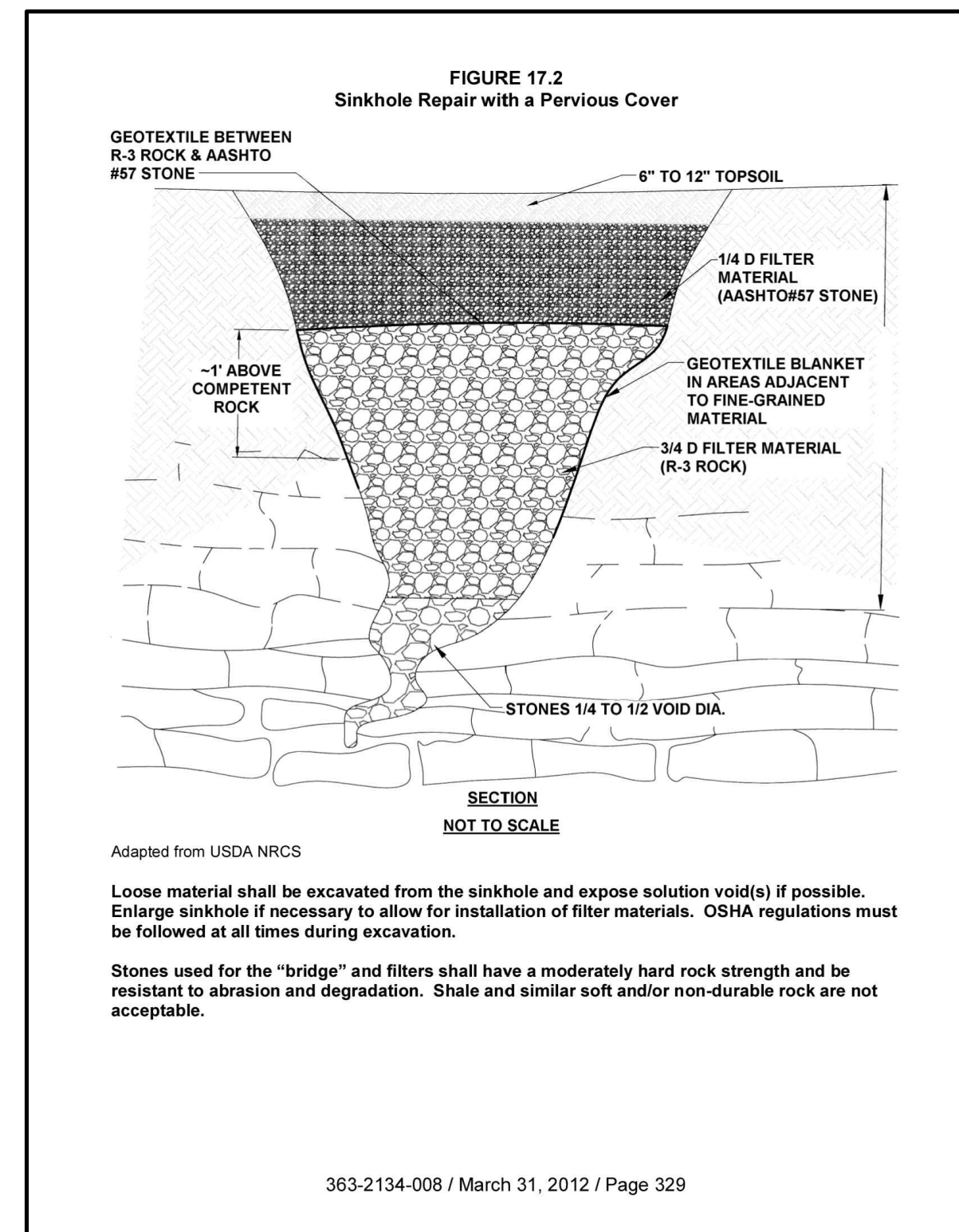
RAIN GARDEN GRASS MIX

% of # of seeds	Scientific Name	Common Name
45%	Schizachyrium scoparium	Little Bluestem 'Camper'
20%	Elymus virginicus	Virginian Wildrye, PA Ecotype
11%	Panicum clandestinum	Doerflinger, Tioga
10%	Panicum sphaerocarpon	Roundseed Panicgrass
8%	Panicum rigidulum	Redtop Panicgrass
5%	Carex vulpinoidea	Fox Sedge
4.5%	Juncus effusus	Soft Rush
1.0%	Carex scoparia	Blunt Broom Sedge
0.5%		

Seeding rate: 15 pounds per acre with cover crop of grain rye at 30lb. The above mix can be obtained from ERNST Seeds; an equal of similar mix can be substituted from another company depending on availability and price.

Maintenance procedure:

- If a washout, slope failure or similar disturbance occurs, correct drainage problem if necessary, then reapply soil to the proper grade, seed and mulch.



GENERAL SINKHOLE REPAIR POLICIES:

- THE AREA OF THE SINKHOLE SHOULD BE EXCAVATED UNTIL THE "THROAT" OF THE SINKHOLE IS DISCOVERED.
- ALL LOOSE SOIL OR MATERIAL SHOULD BE REMOVED.
- THE THROAT OF THE SINKHOLE SHOULD BE EVALUATED FOR STABILITY AND/OR THE PRESENCE OF ADDITIONAL FRACTURES.
- THE SINKHOLE SHOULD THEN BE BACKFILLED USING A GEOTEXTILE FILTER FABRIC FIRST, NO6 GEOTEXTILE CLASS 1 TYPE B, THEN USE R-5 STONE UP TO ABOUT 36\"/>

SINKHOLE AND SINKHOLE AREA TREATMENT

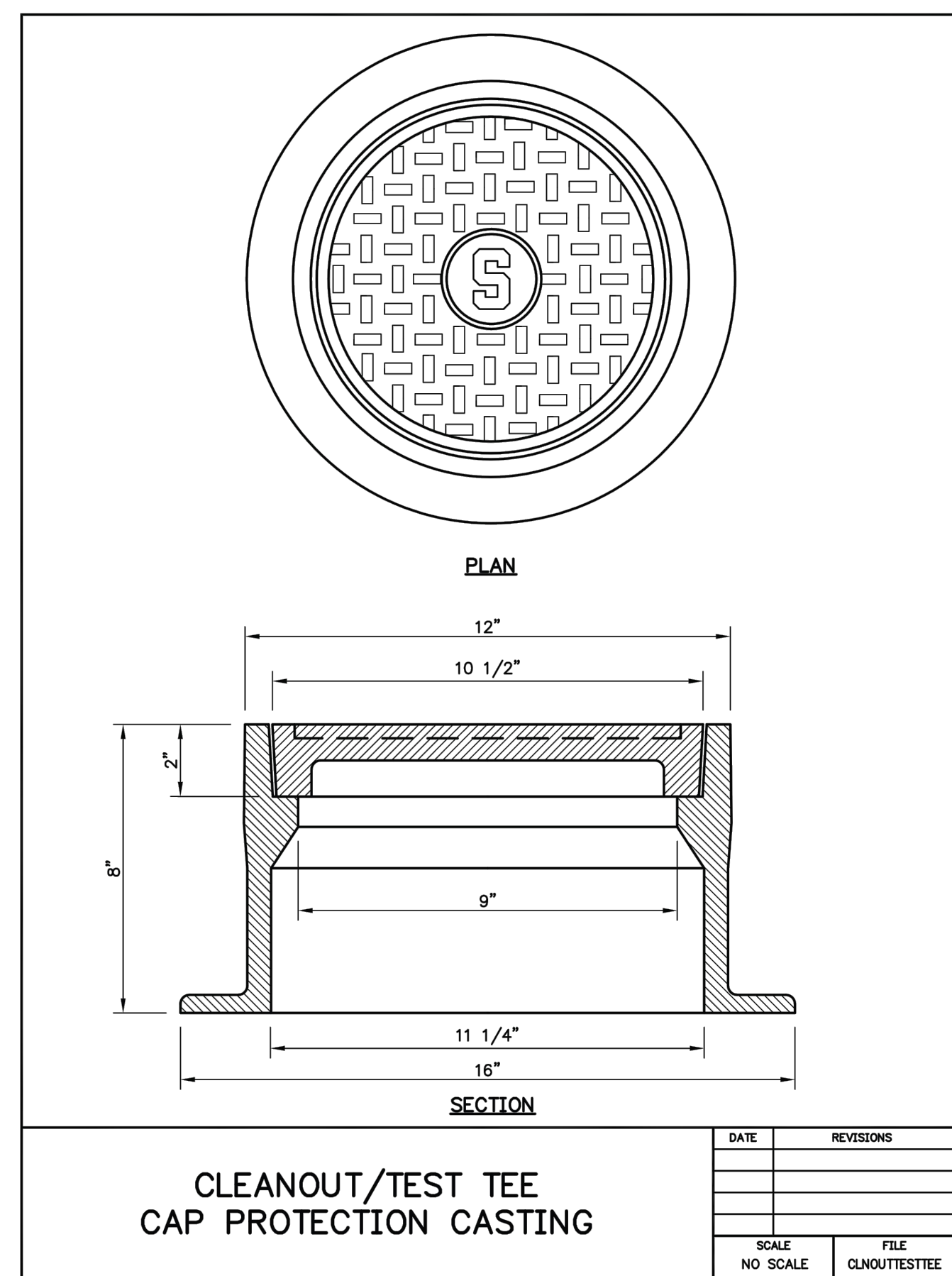
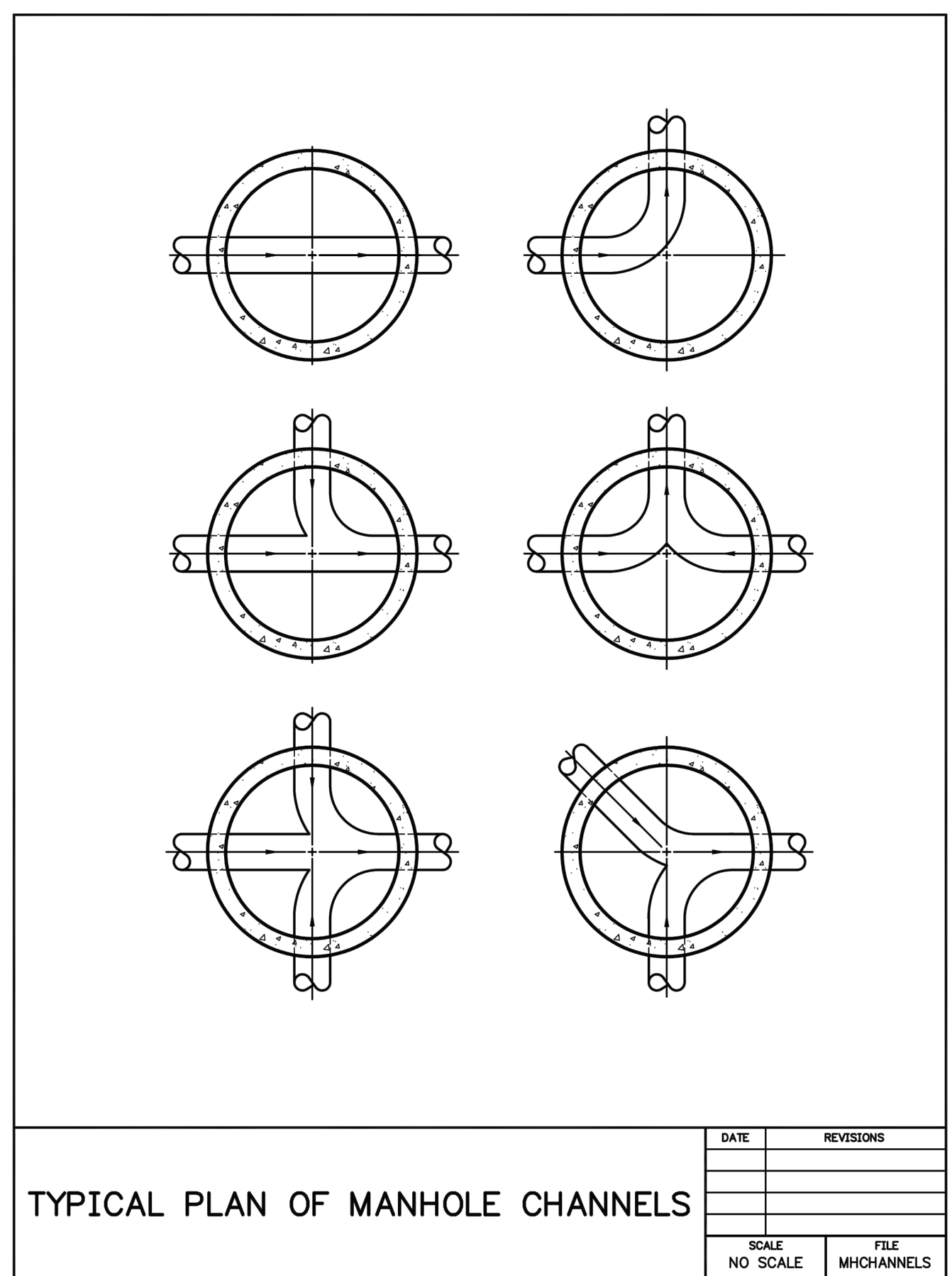
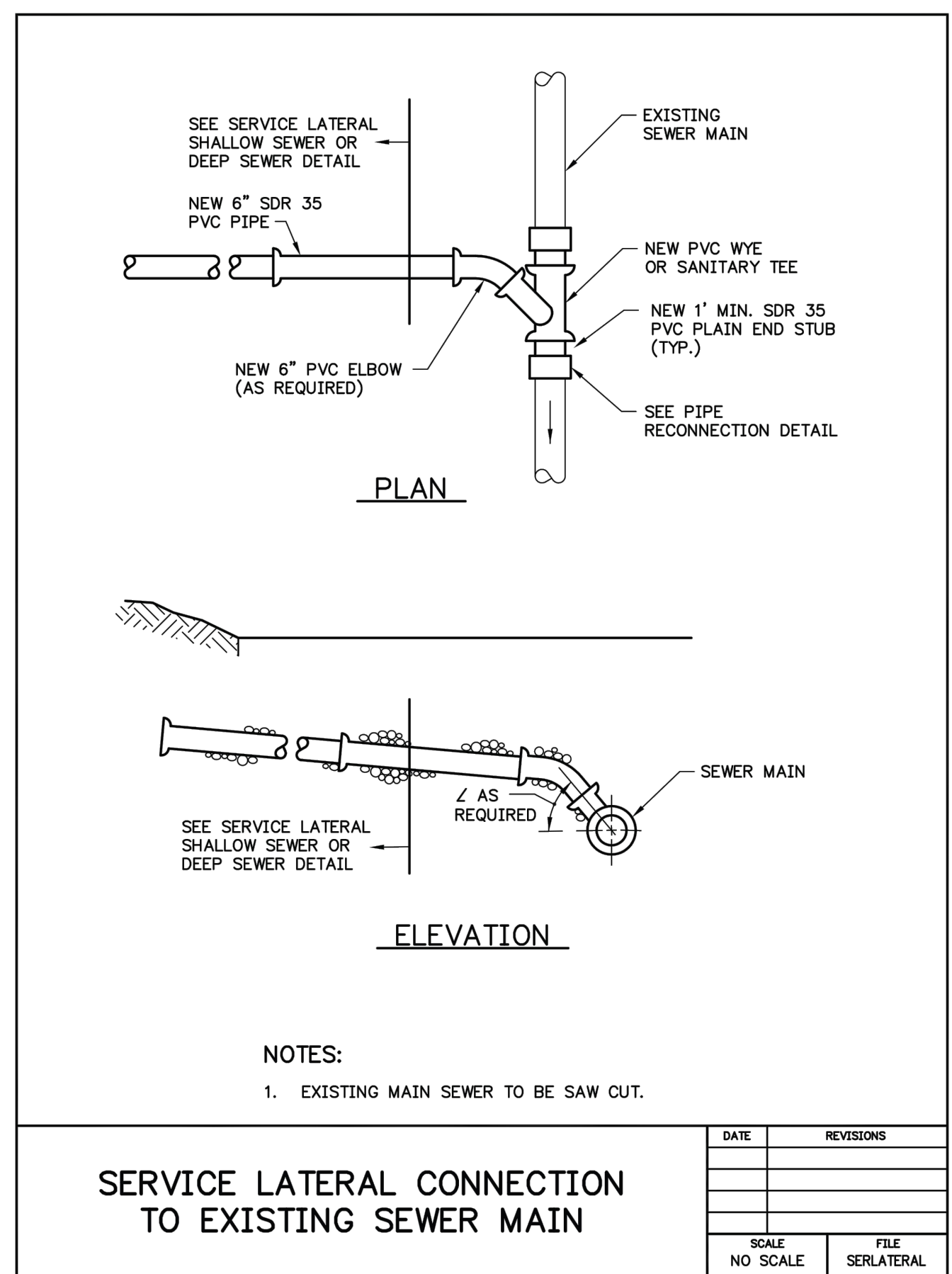
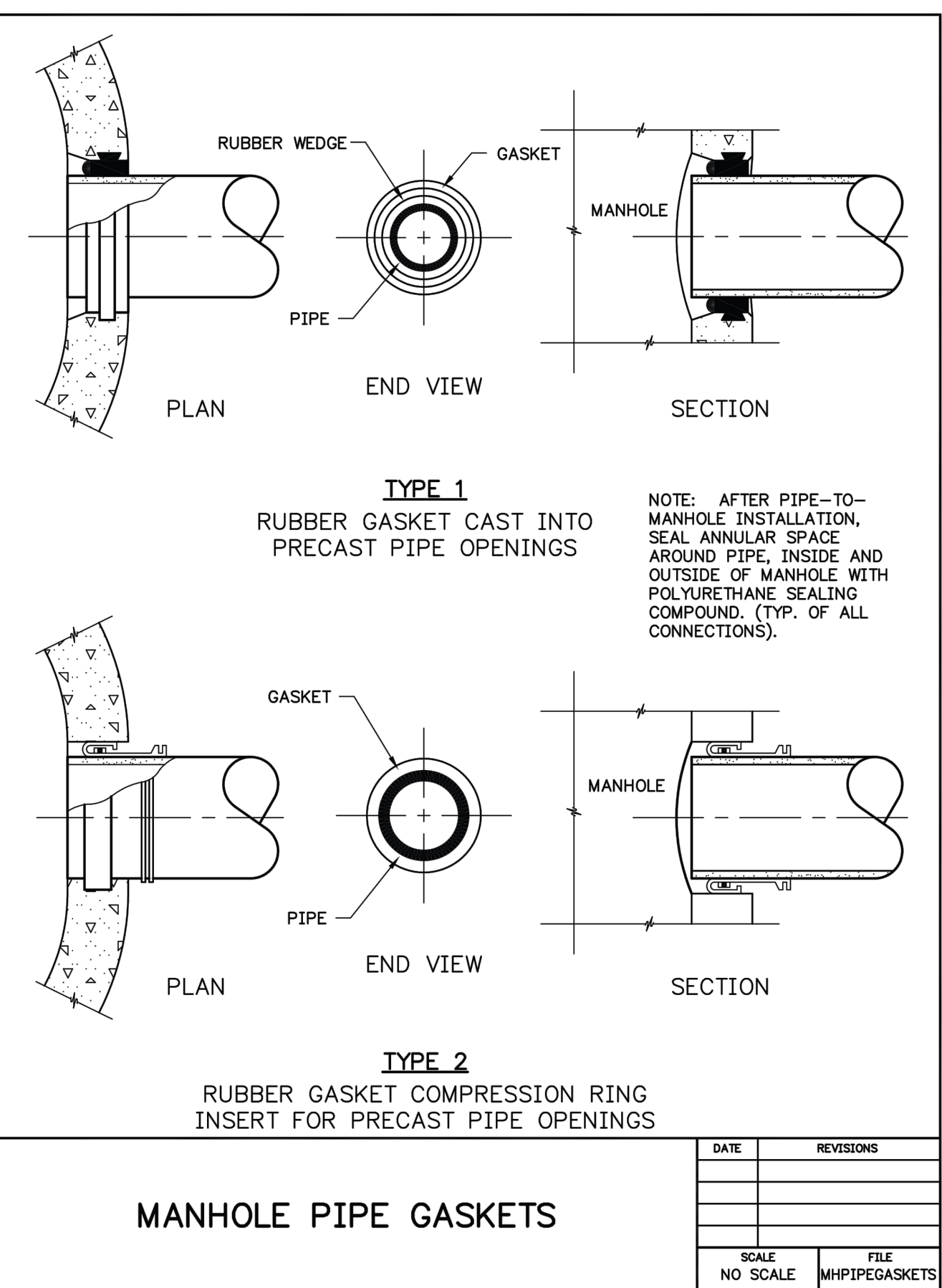
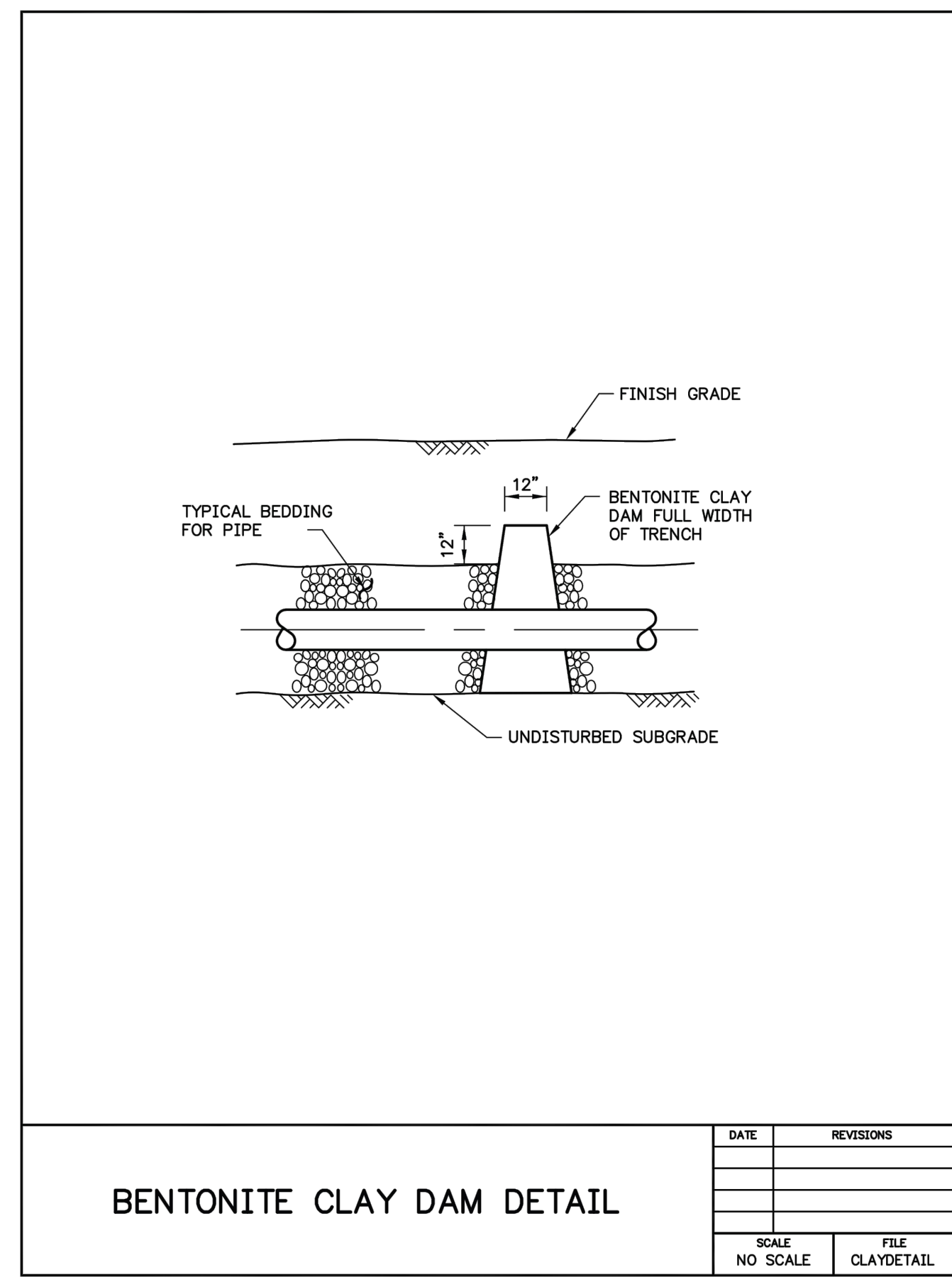
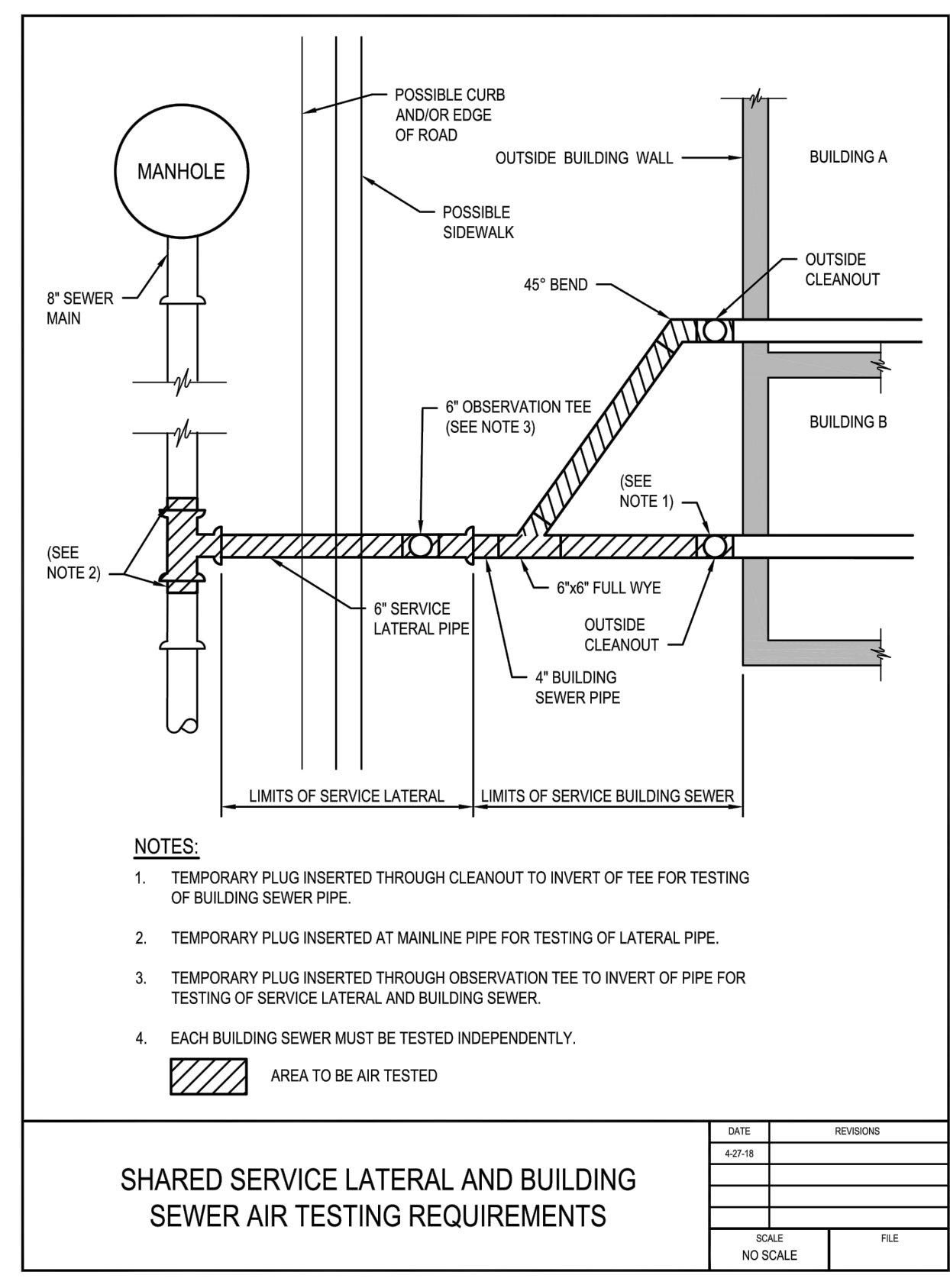
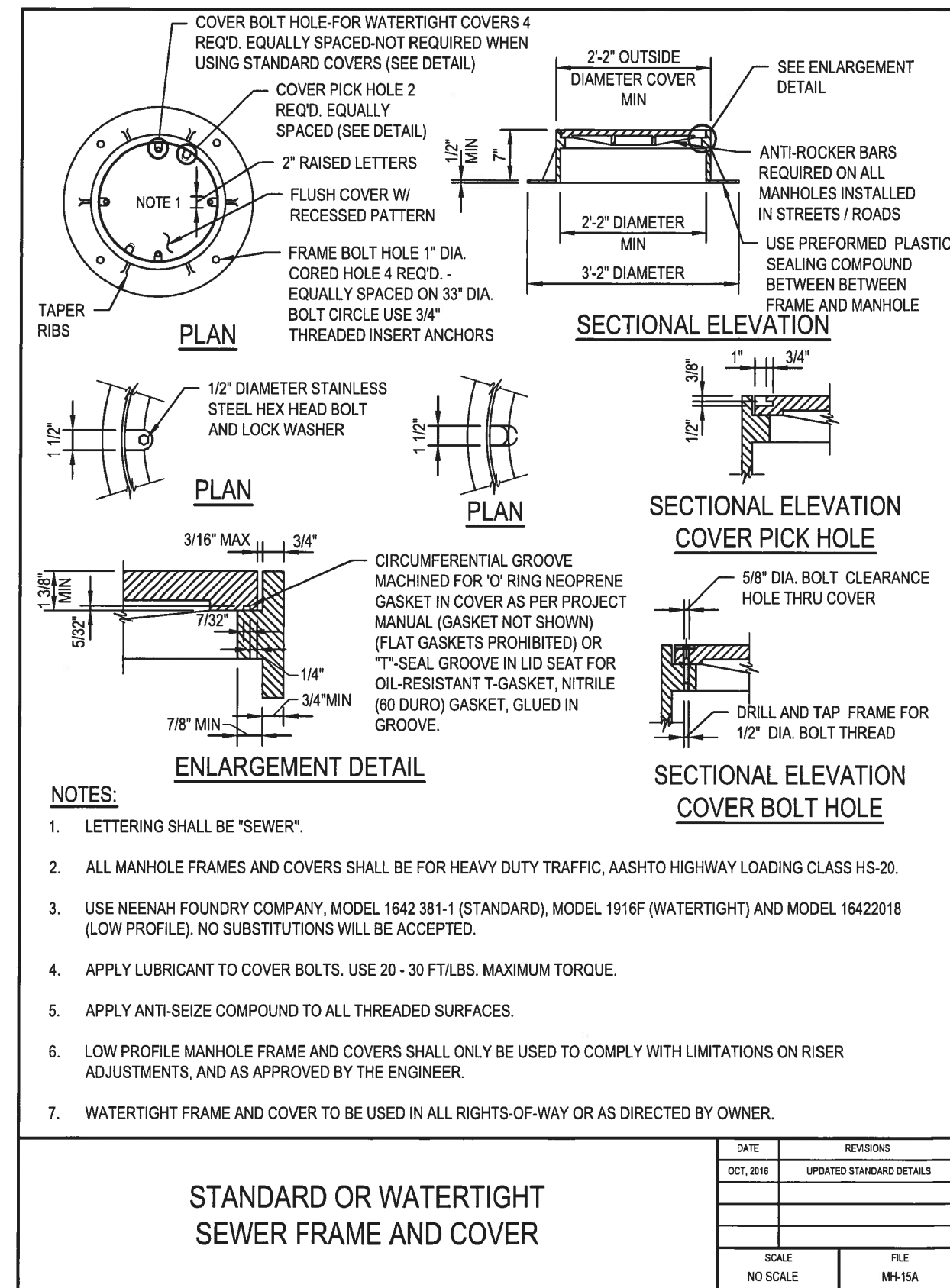
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PCSM DETAILS FOR ENCLAVE AT ELMERTON
 LOCATED IN SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-DTL
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 25 OF 30



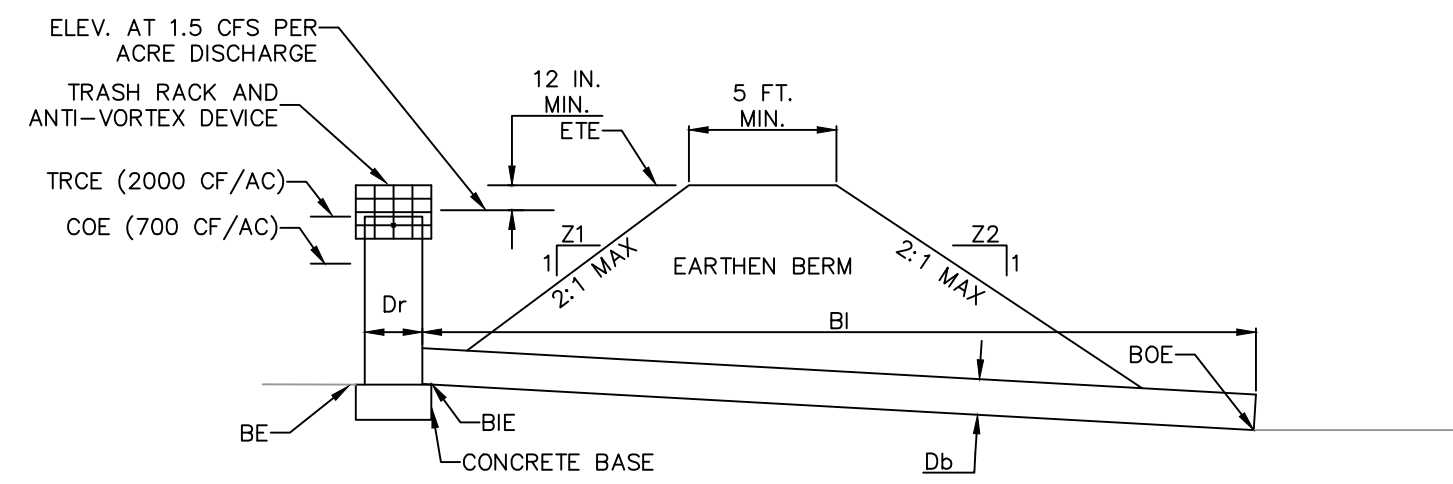
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	ERC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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SANITARY SEWER DETAILS
 FOR
ENCLAVE AT ELMERTON
 LOCATED IN
 SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-DTL
 PROJECT: 220021
 DATE: 06/11/21
 SHEET: 27 OF 30



TRAP NO.	OUTLET STRUC.	Z1 (FT)	Z2 (FT)	RISER			BARREL			EMBANKMENT		CLEAN OUT ELEV COE (FT)	BOTTOM ELEV BE (FT)			
				MAT'L	DIA DR (IN)	CREST ELEV RCE (FT)	BOT PERF ELEV (FT)	MAT'L	DIA DB (IN)	LENGTH BI (FT)	OUTLET ELEV BOE (FT)			TOP ELEV ETE (FT)	TOP WIDTH Etw (FT)	
1	B	3	3	Conc.	24"	442.2	440.0	HDPE	18	439.0	39	432.31	449.0	5.0	440.0	439.0
2	C	3	3	Conc.	24"	446.0	N/A	HDPE	18	433.8	48	429.01	444.0	5.0	446.0	445.0

NOTES:

FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS.

UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.

ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.

ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

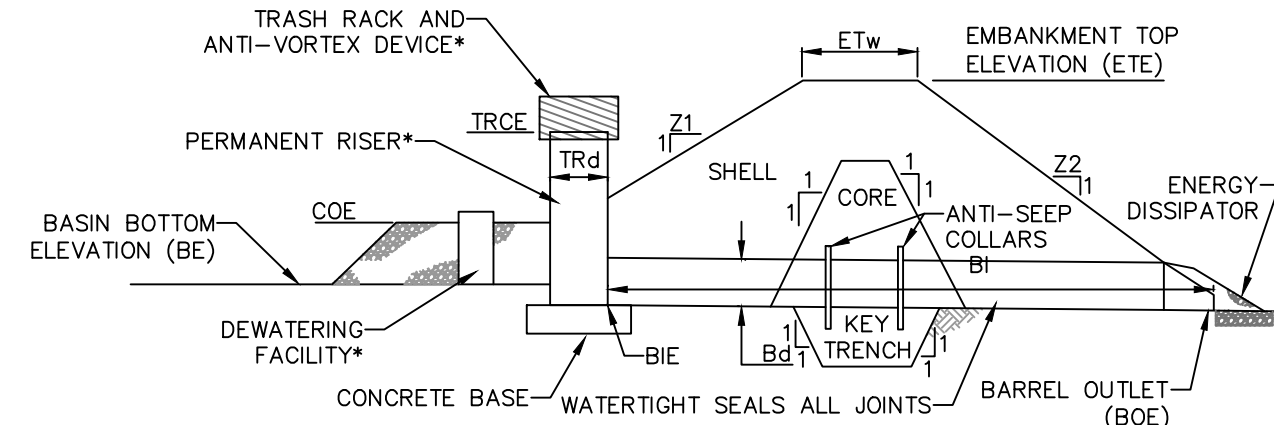
A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.

CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS. DISPLACED RIPRAP WITHIN THE OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. TO ASSIST IN REMOVING SEDIMENT, WHICH MAY BE SATURATED, A DEVICE SUCH AS IS SHOWN IN STANDARD CONSTRUCTION DETAIL #7-18 MAY BE USED TO DEWATER THE SEDIMENT PRIOR TO ITS REMOVAL.

**STANDARD CONSTRUCTION DETAIL #8-2
BARREL/RISER SEDIMENT TRAP**

NOT TO SCALE



* ALSO REFER TO EMERGENCY SPILLWAY, ENERGY DISSIPATOR, TRASH RACK AND ANTI-VORTEX DEVICE, AND SEDIMENT STORAGE DEWATERING FACILITY DETAILS.

TRAP NO.	OUTLET STRUC.	Z1 (FT)	Z2 (FT)	RISER			BARREL			EMBANKMENT		CLEAN OUT ELEV COE (FT)	BOTTOM ELEV BE (FT)			
				MAT'L	DIA DR (IN)	CREST ELEV RCE (FT)	BOT PERF ELEV (FT)	MAT'L	DIA DB (IN)	LENGTH BI (FT)	OUTLET ELEV BOE (FT)			TOP ELEV ETE (FT)	TOP WIDTH Etw (FT)	
1	A	3	3	CMP	18	435.0	432.0	HDPE	18	427.0	68.9	418.48	436.0	5.0	432.0	431.0

NOTES:

SEDIMENT BASINS, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.

AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

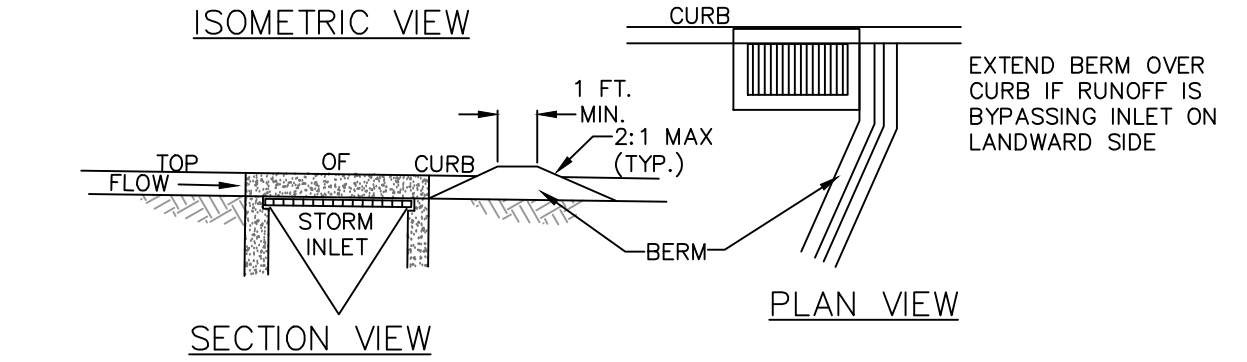
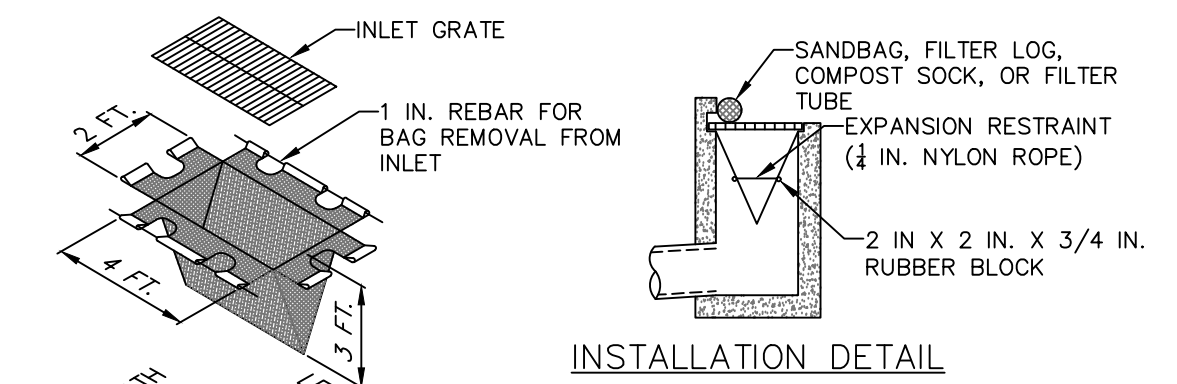
ACCESS SHALL BE PROVIDED FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES.

A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.

INSPECT ALL SEDIMENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CHECK BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATOR SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE BASIN BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. THE DEVICE SHOWN IN STANDARD CONSTRUCTION DETAIL #7-16 MAY BE USED TO DEWATER SATURATED SEDIMENT PRIOR TO ITS REMOVAL. ROCK FILTERS SHALL BE ADDED AS NECESSARY.

**STANDARD CONSTRUCTION DETAIL #7-6
SEDIMENT BASIN EMBANKMENT AND SPILLWAY DETAILS**

NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

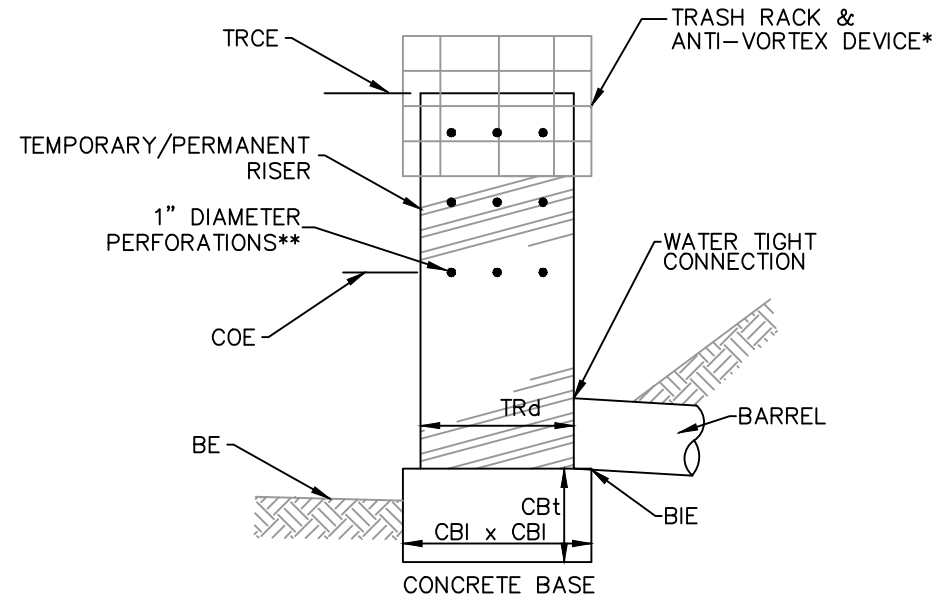
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-15
FILTER BAG INLET PROTECTION - TYPE C INLET**

N.T.S.



* SEE STANDARD CONSTRUCTION DETAIL #7-5, TRASH RACK AND ANTI-VORTEX DEVICE
** LOWEST ROW OF HOLES AT SEDIMENT CLEAN-OUT ELEVATION

BASIN NO.	OUTLET STRUC.	DIA TRG (IN)	TEMPORARY RISER		PERFORATIONS			CONCRETE BASE		BARREL
			CREST ELEV TRCE (FT)	MAT'L	NO. ROWS**	NO. HOLES PER ROW	VERT. SPACING OF ROWS (FT)	LENGTH AND WIDTH CBI (IN)	THICKNESS CBI (IN)	
1	A	18	435.0	CMP	1	10	N/A	60x60	12	427.0

NOTES:

A MINIMUM OF 2-#8 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

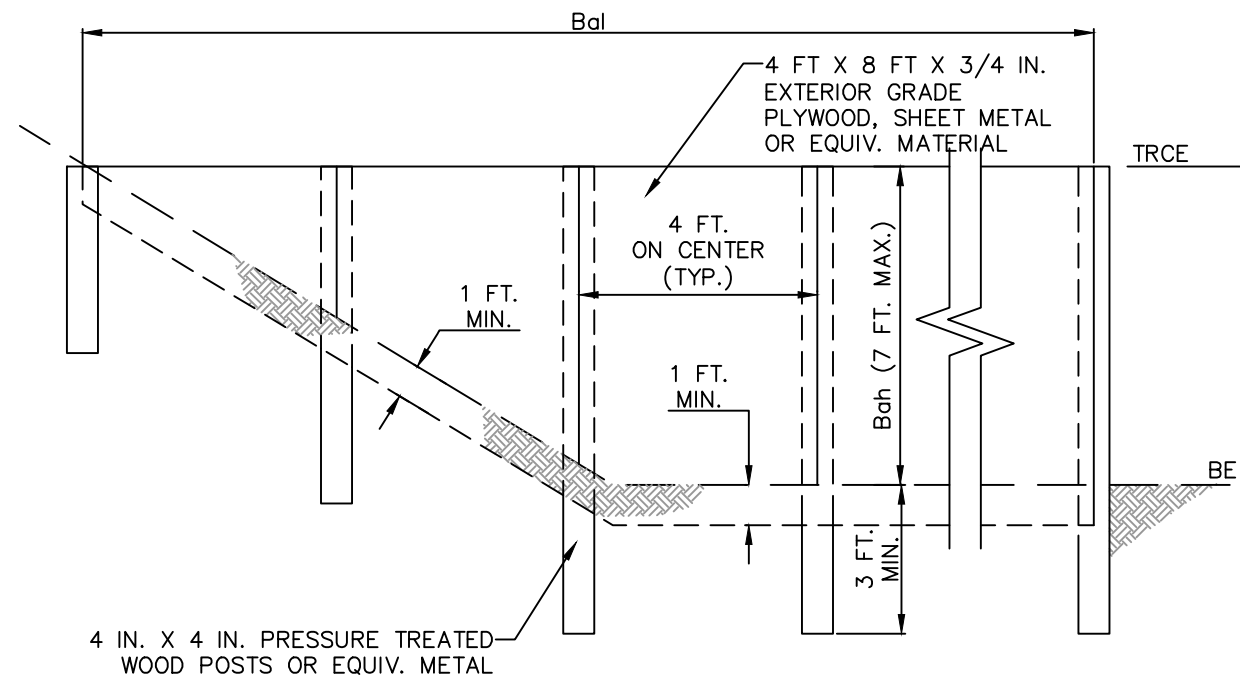
CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.

EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

**STANDARD CONSTRUCTION DETAIL #7-7
SEDIMENT BASIN TEMPORARY RISER WITH PERFORATIONS**

NOT TO SCALE



BASIN OR TRAP NO.	BAFFLE		RISER	BOTTOM
	LENGTH Baf (FT)	HEIGHT Baf (FT)		
TRAP 1	594	1.0	446.0	445.0
TRAP 2	153	3.2	442.2	439.0

NOTES:

SEE APPROPRIATE BASIN DETAIL FOR PROPER LOCATION AND ORIENTATION.

AN ACCEPTABLE ALTERNATIVE IS TO INSTALL A SUPER SILT FENCE AT THE BAFFLE LOCATION

IN POOLS WITH DEPTHS EXCEEDING 7', THE TOP OF THE PLYWOOD BAFFLE DOES NOT NEED TO EXTEND TO THE TEMPORARY RISER CREST. SUPER SILT FENCE BAFFLES NEED NOT EXTEND TO TRCE ELEVATION.

BAFFLES SHALL BE TIED INTO ONE SIDE OF THE BASIN UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.

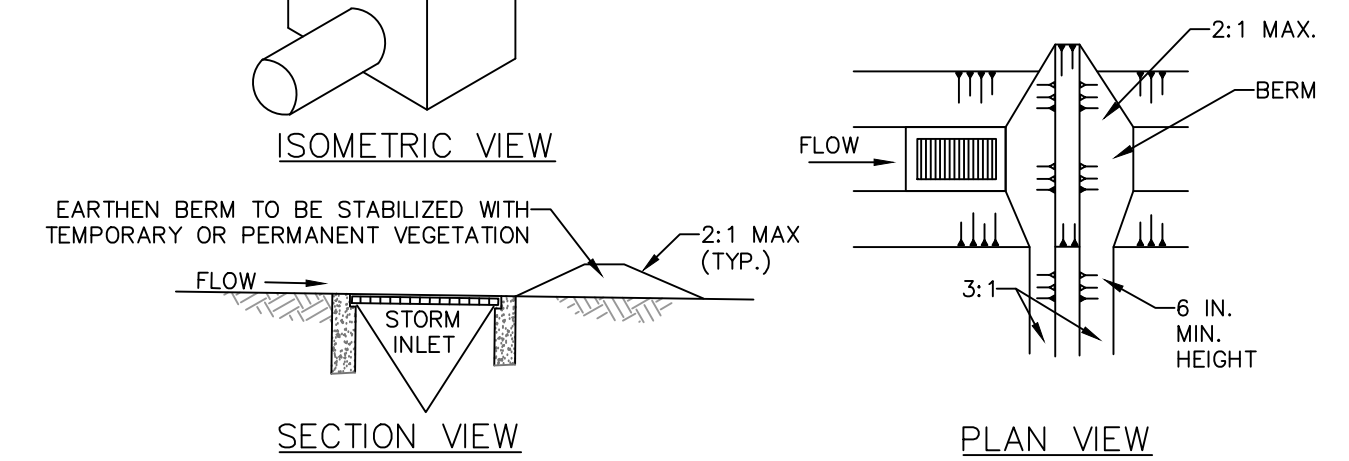
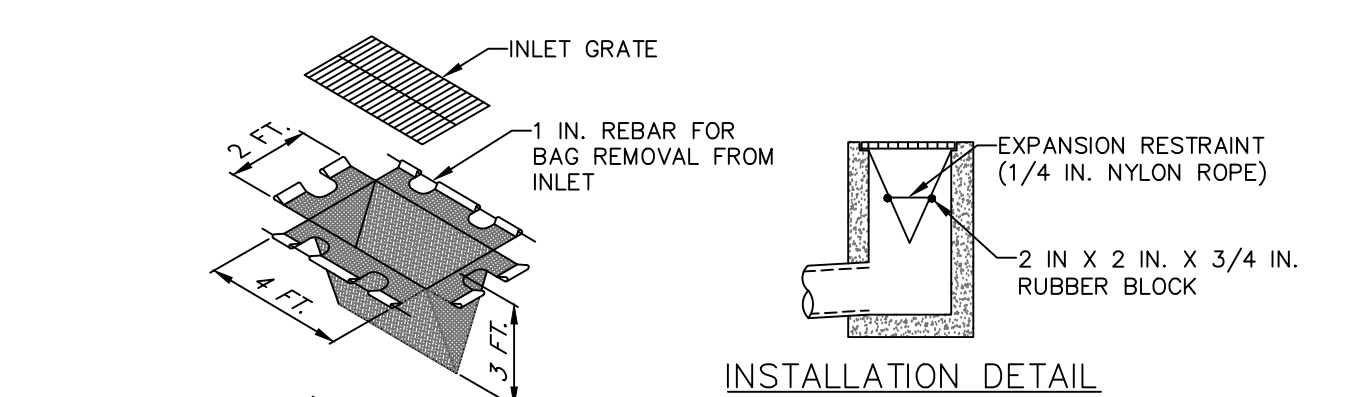
SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY THE DEPARTMENT OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.

DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.

BAFFLES REQUIRING SUPPORT POSTS SHALL NOT BE INSTALLED IN BASINS REQUIRING IMPERVIOUS LINERS.

**STANDARD CONSTRUCTION DETAIL #7-14
BAFFLE**

NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET**

N.T.S.

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RJFISHERENGINEERING.COM



E&S POLLUTION CONTROL DETAILS
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID: 220021-DTL
PROJECT: 220021
DATE: 06/11/21
SHEET: 28 OF 30

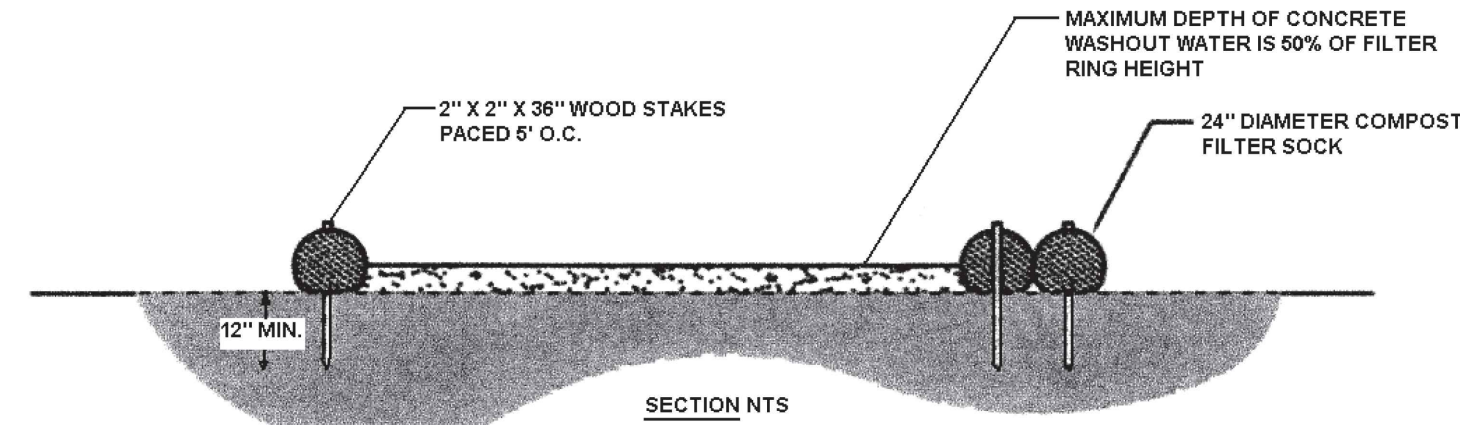
NO.	REVISION	DATE
1	TOWNSHIP COMMENTS	07/16/21
2	ERC COMMENTS	08/06/21
3	TOWNSHIP COMMENTS	08/13/21
4		
5		

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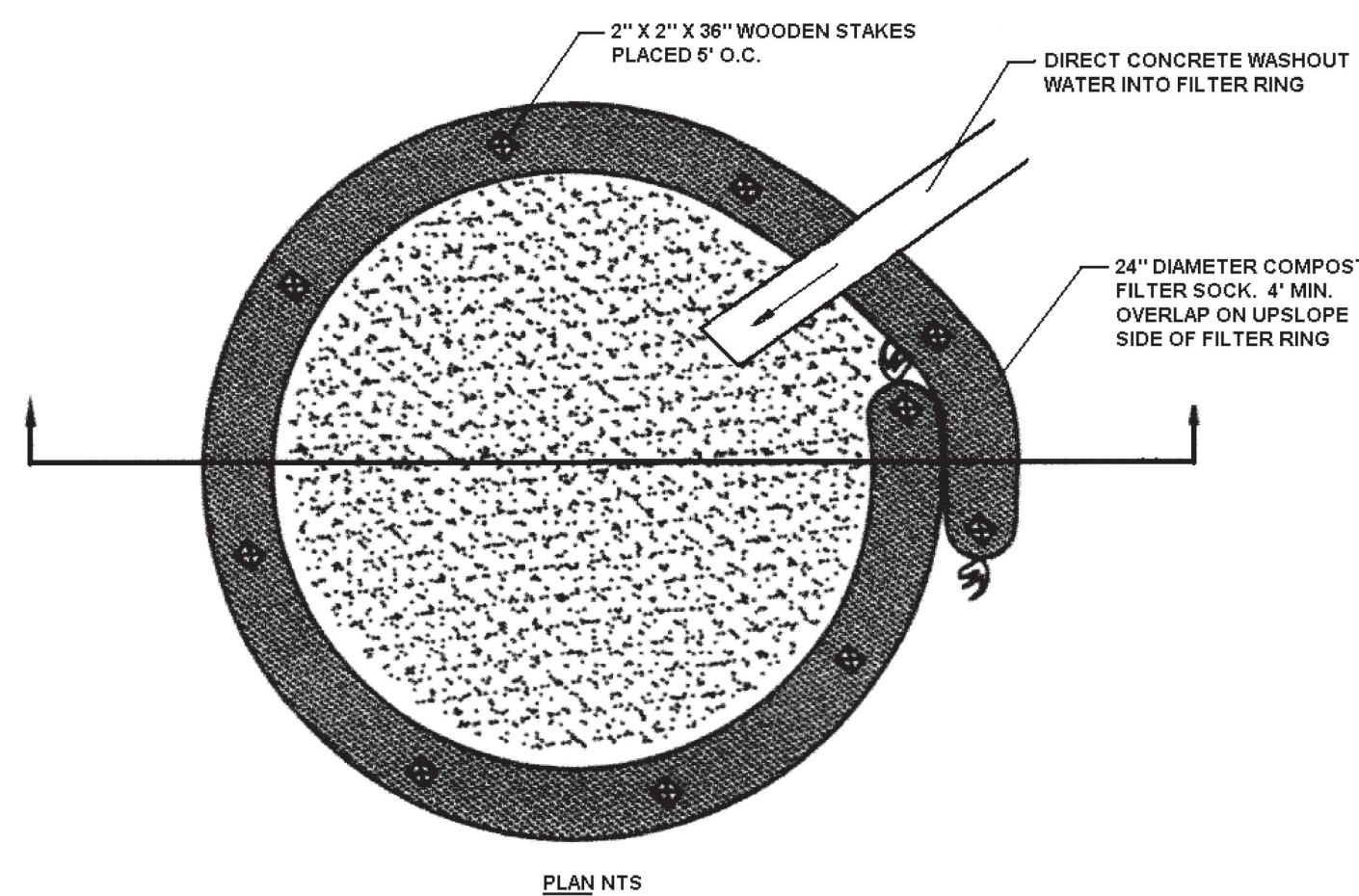


Filtrex

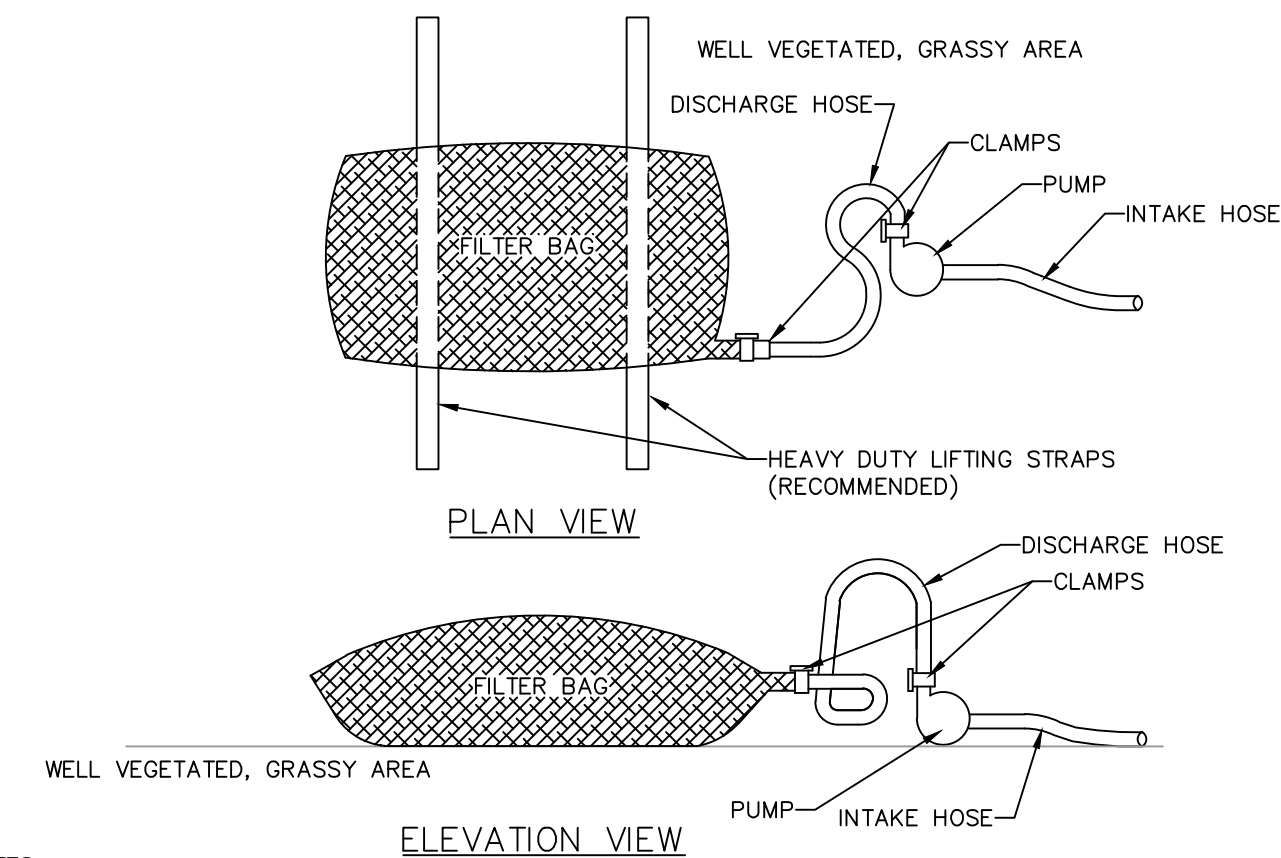
FIGURE 3.18
Typical Compost Sock Washout Installation



- NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks.
Adapted from Filtrex



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG
N.T.S.

NOTES:

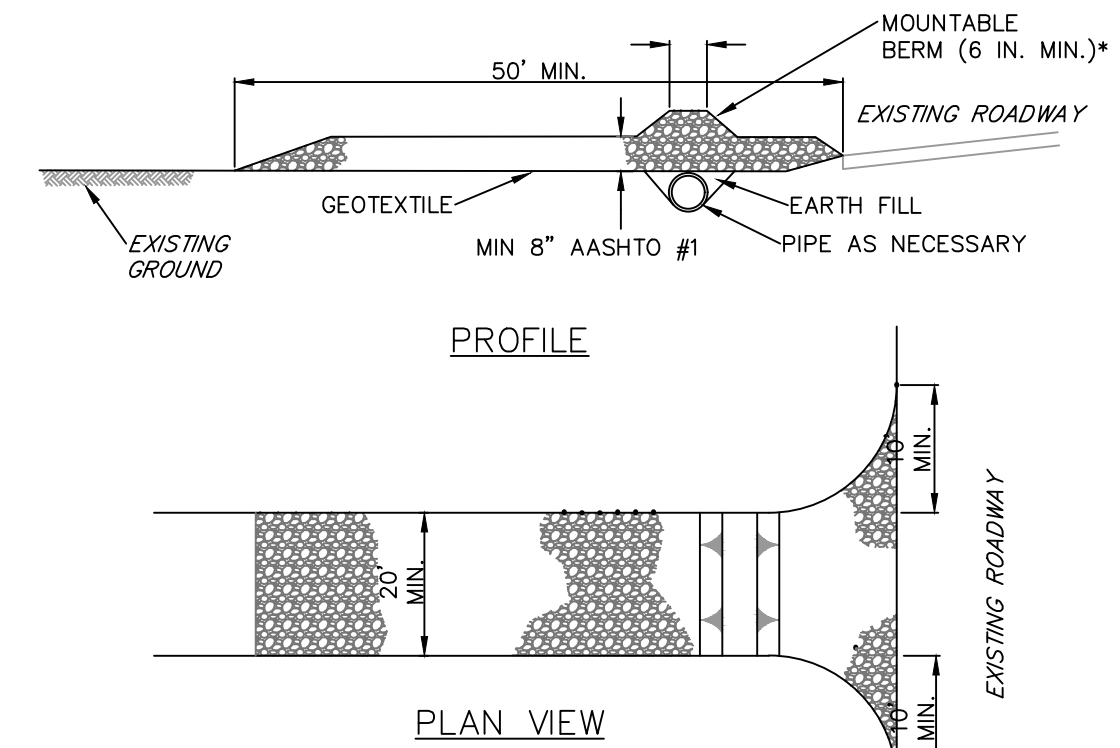
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

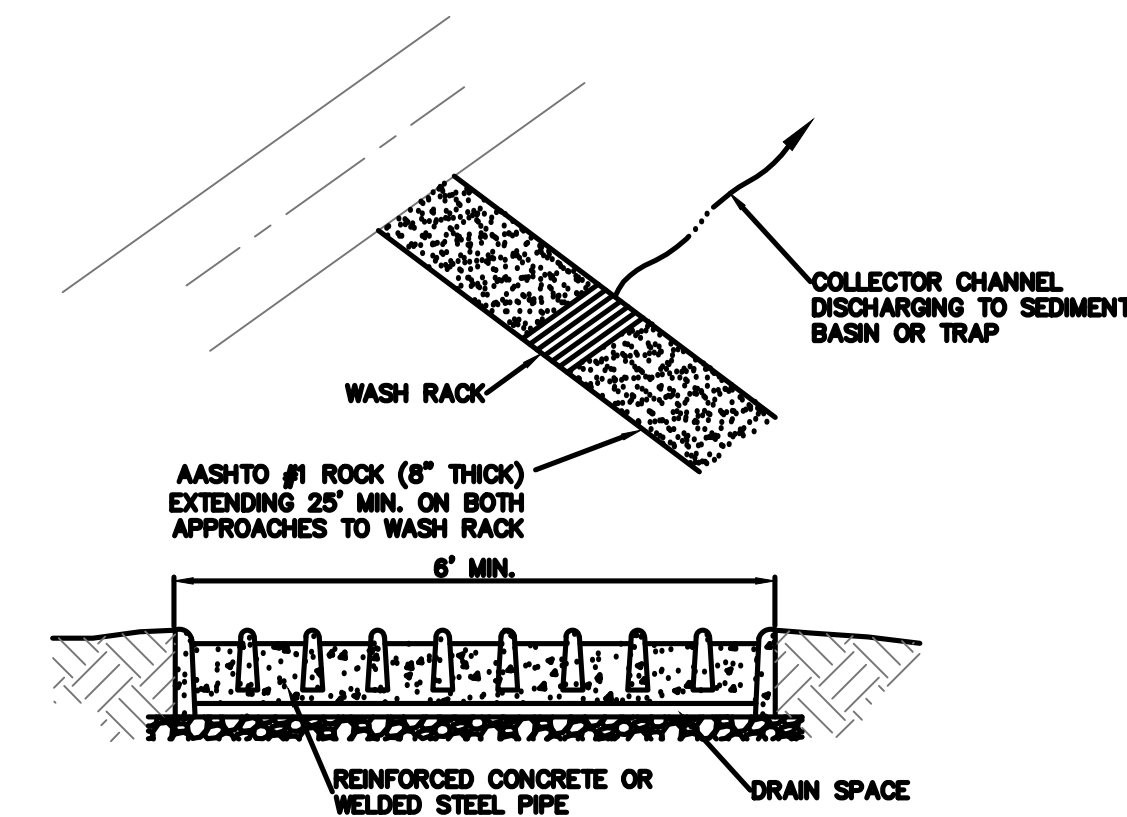
MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE



NOTES:

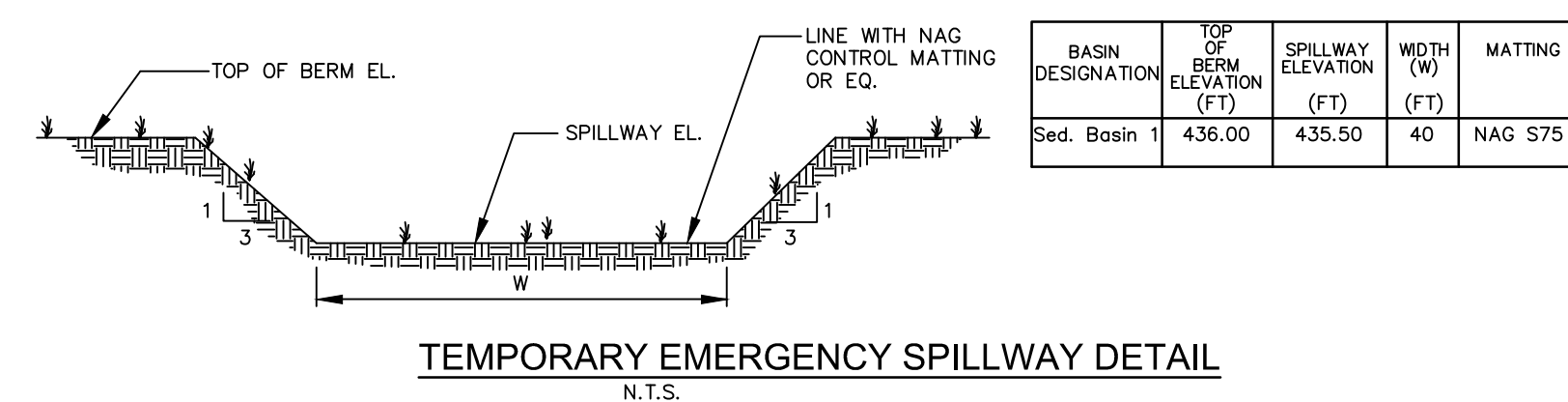
WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

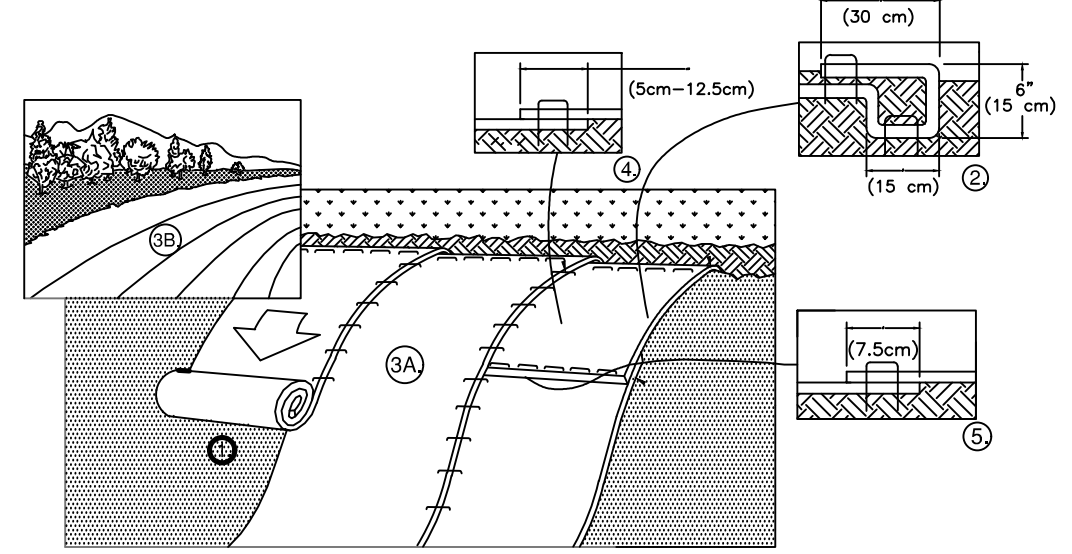
A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK
NOT TO SCALE

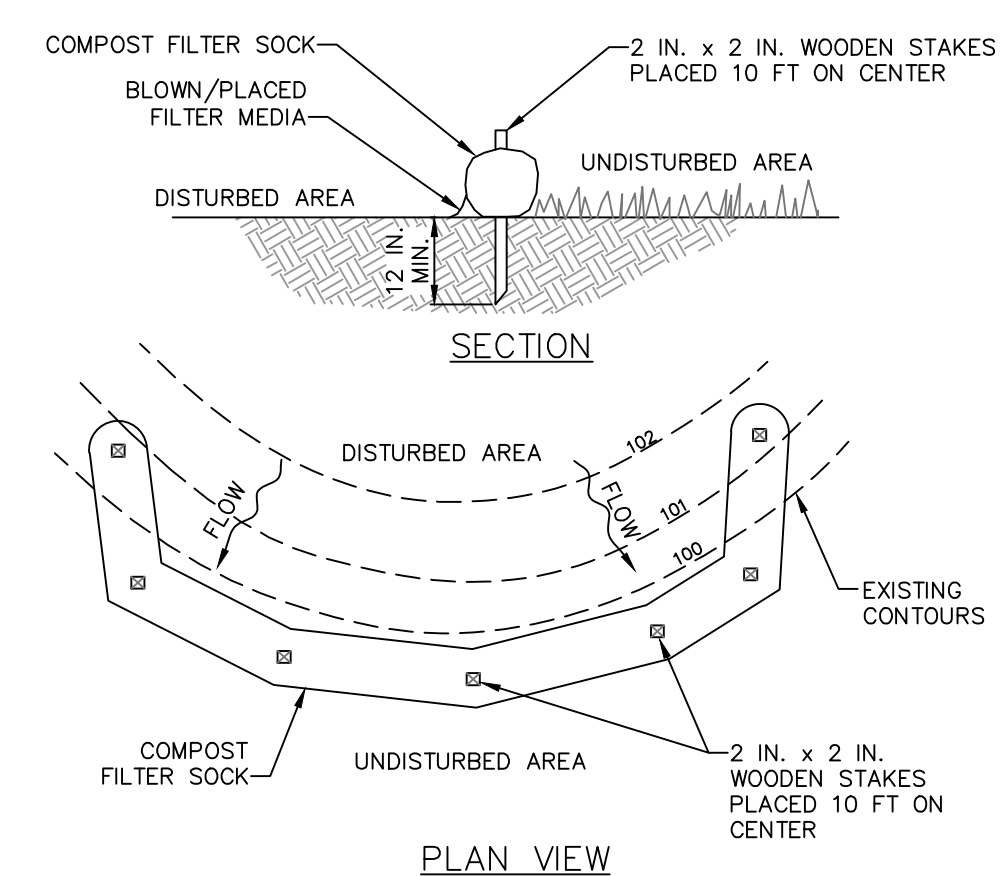


TEMPORARY EMERGENCY SPILLWAY DETAIL
N.T.S.



- NOTE: EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN S75, OR APPROVED EQUAL.
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FILL REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SLIP AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART BETWEEN BLANKET WIDTH.

EROSION CONTROL MATTING ON SLOPE
N.T.S.



COMPOST FILTER SOCK
NOT TO SCALE

NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

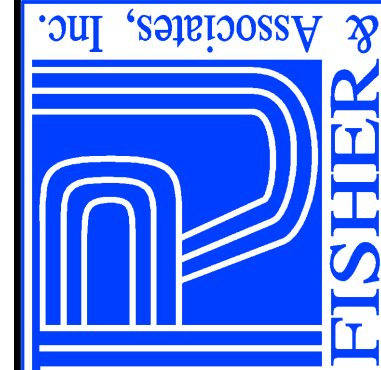
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK TABLE				
SOCK NO.	DIA.(IN)	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
1	24	Shown on E&S Control Plan	5	806
2	12	Shown on E&S Control Plan	30	40
3	24	Shown on E&S Control Plan	27	89
4	18	Shown on E&S Control Plan	29	59
5	24	Shown on E&S Control Plan	29	75
6	18	Shown on E&S Control Plan	20	164
7	32	Shown on E&S Control Plan	9	346
8	32	Shown on E&S Control Plan	9	376
9	24	Shown on E&S Control Plan	13	243
10	24	Shown on E&S Control Plan	17	233
11	24	Shown on E&S Control Plan	17	257
12	32	Shown on E&S Control Plan	15	315
13	32	Shown on E&S Control Plan	14	369
14	32	Shown on E&S Control Plan	14	370

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E&S POLLUTION CONTROL DETAILS
FOR
ENCLAVE AT ELMERTON
LOCATED IN
SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY, PA

DRAWING ID:
220021-DTL
PROJECT: 220021
DATE: 06/11/21
SHEET:
29 OF 30

