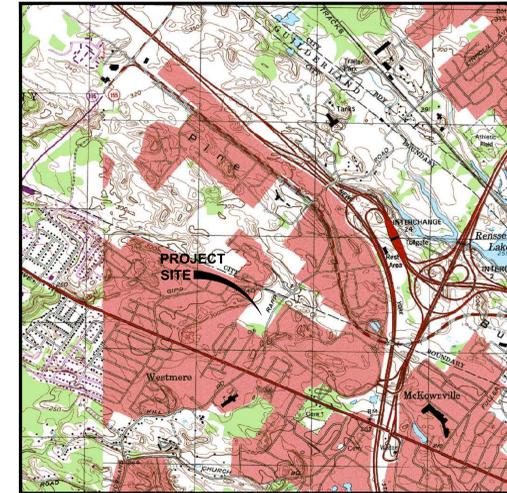


THE APEX AT CROSSGATES

TOWN OF GUILDERLAND, ALBANY COUNTY, NY

JULY 29, 2022

INDEX OF DRAWINGS				
PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION
1	0	G001	07/29/22	TITLE SHEET
2	0	C100	07/29/22	EXISTING CONDITIONS & DEMOLITION PLAN
3	0	C110	07/29/22	OVERALL SITE PLAN
4	0	C130	07/29/22	SITE PLAN
5	0	C140	07/29/22	GRADING & DRAINAGE PLAN
6	0	C150	07/29/22	EROSION & SEDIMENT CONTROL PLAN
7	0	C160	07/29/22	UTILITY PLAN
8	0	C180	07/29/22	LANDSCAPE & LIGHTING PLAN
9	0	C181	07/29/22	DETAILED LANDSCAPE PLAN
10	0	C530	07/29/22	SITE DETAILS
11	0	C531	07/29/22	SITE DETAILS
12	0	C540	07/29/22	STORM SEWER DETAILS
13	0	C541	07/29/22	STORM SEWER DETAILS
14	0	C550	07/29/22	EROSION & SEDIMENT CONTROL DETAILS
15	0	C560	07/29/22	WATER SYSTEM DETAILS
16	0	C570	07/29/22	SANITARY SEWER SYSTEM DETAILS
17	0	C580	07/29/22	LANDSCAPE DETAILS & NOTES



LOCATION MAP
SCALE: 1"=1200'

DEVELOPER / APPLICANT:

UG FAMILY, LLC
300 JORDAN ROAD
TROY, NY 12180

SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:

LaBella Associates
4 BRITISH AMERICAN BOULEVARD
LATHAM, NY 12110

TAX MAP INFORMATION:

TOWN OF GUILDERLAND
SECTION 52.01, BLOCK 3, LOT 3
SECTION 52.01, BLOCK 3, LOT 4.1
SECTION 52.01, BLOCK 3, LOT 4.2
SECTION 52.01, BLOCK 3, LOT 5.1
SECTION 52.10, BLOCK 1, LOT 25

AREA:

TOTAL ACREAGE : 19.68 ACRES

UG FAMILY, LLC

AN AFFILIATE OF THE UNITED GROUP OF COMPANIES
300 JORDAN ROAD, TROY, NY 12180



THE APEX AT CROSSGATES

RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2222678		
DRAWN BY:		
REVIEWED BY:		
ISSUED FOR: SITE PLAN APPROVAL		
DATE: 07/29/22		
DRAWING NAME:		

TITLE SHEET

DRAWING NUMBER:

G001

DEVELOPER / APPLICANT:

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JEFFERY SMETANA
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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2222678

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ISSUED FOR: SITE PLAN APPROVAL

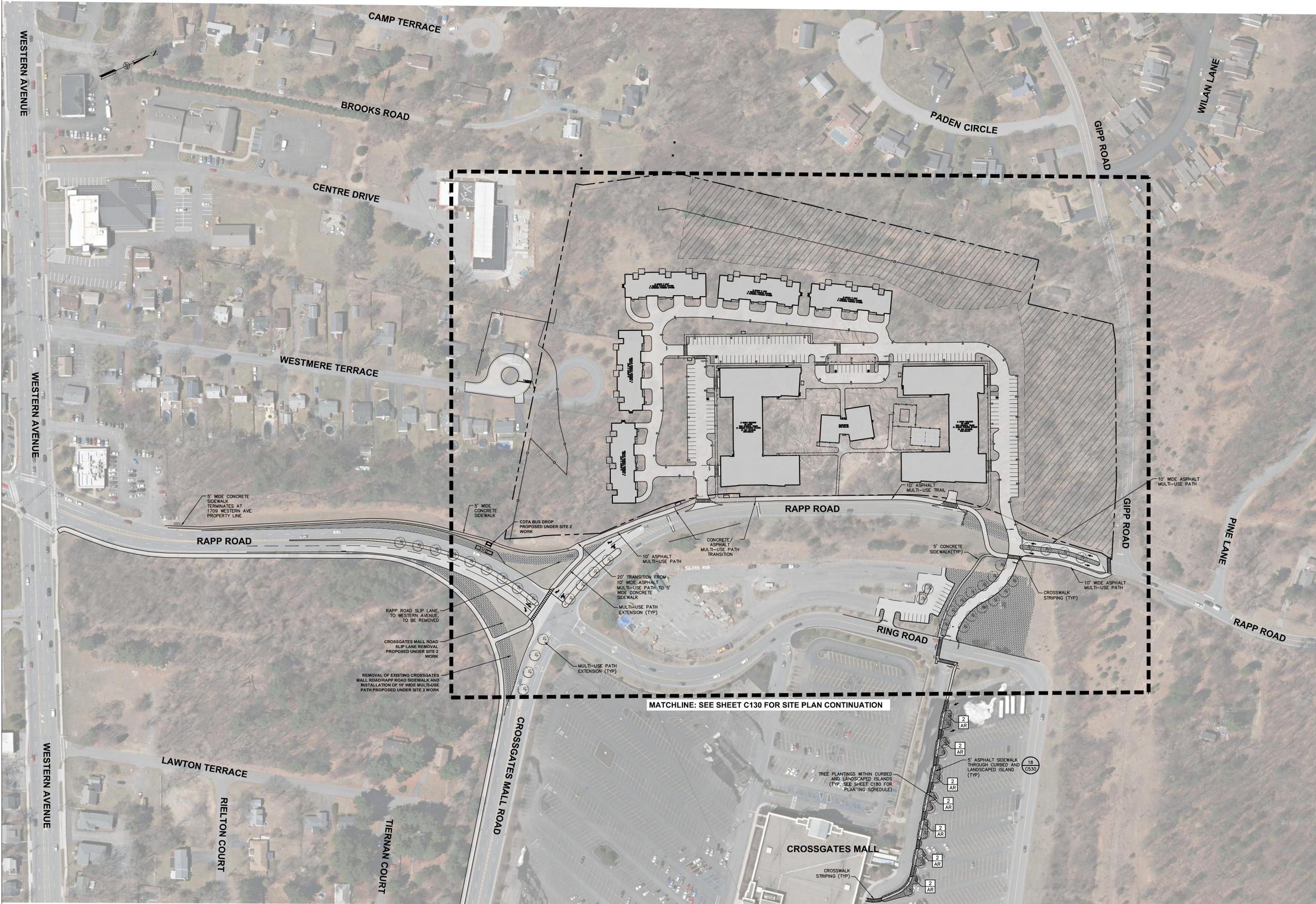
DATE: 07/29/22

DRAWING NAME:

OVERALL SITE PLAN

DRAWING NUMBER:

C110



1
OVERALL SITE PLAN
SCALE: 1" = 80'

DEVELOPER / APPLICANT:
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THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

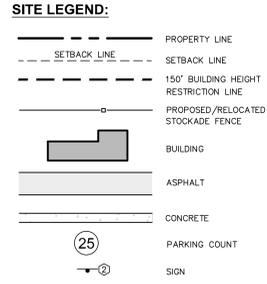
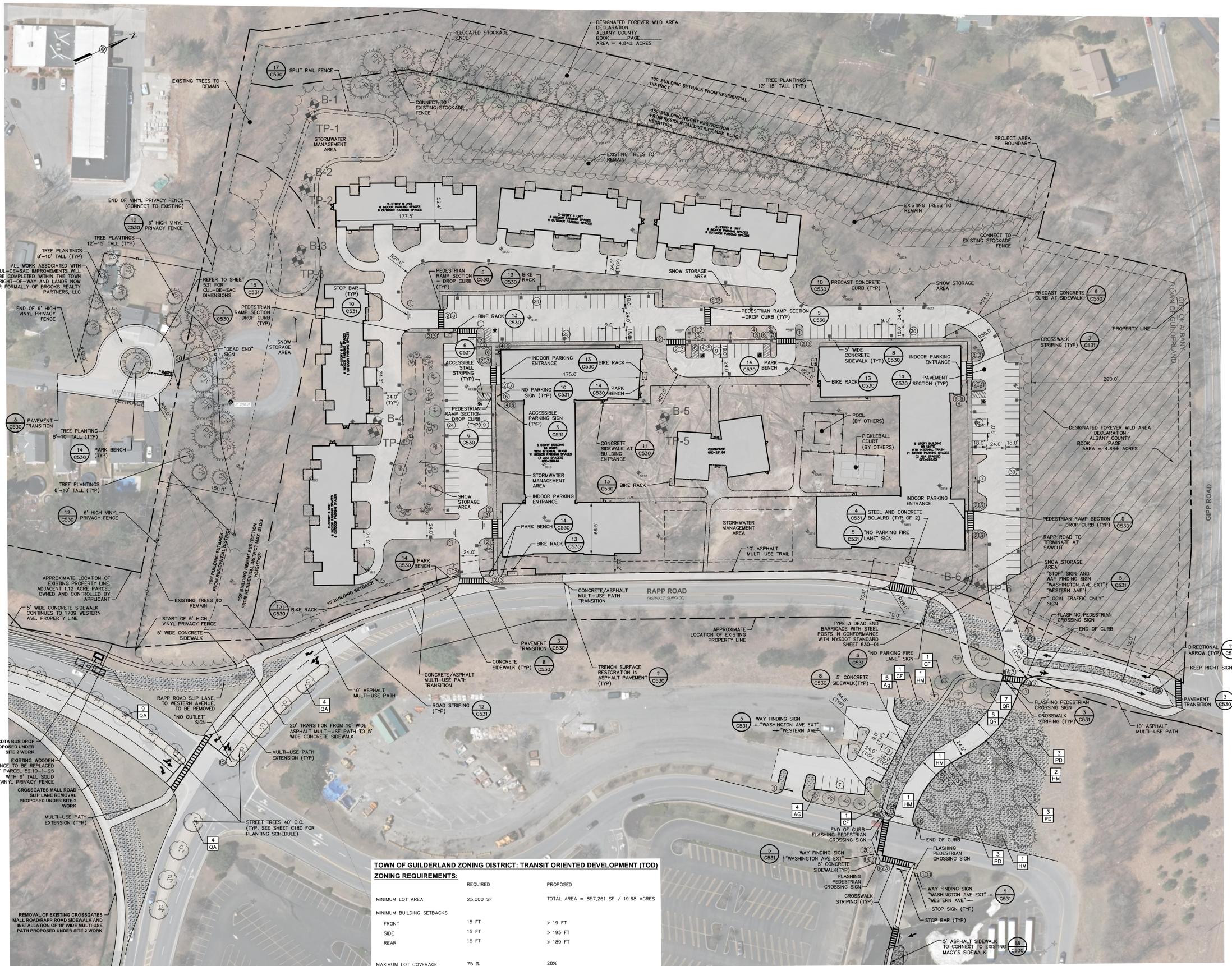
NO.	DATE	DESCRIPTION
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SITE PLAN



TOWN OF GUILDERLAND ZONING DISTRICT: TRANSIT ORIENTED DEVELOPMENT (TOD)

ZONING REQUIREMENTS:

	REQUIRED	PROPOSED
MINIMUM LOT AREA	25,000 SF	TOTAL AREA = 857,261 SF / 19.68 ACRES
MINIMUM BUILDING SETBACKS		
FRONT	15 FT	> 19 FT
SIDE	15 FT	> 195 FT
REAR	15 FT	> 189 FT
MAXIMUM LOT COVERAGE	75 %	28%
PARKING SPACES	1.5 SPACES PER DWELLING 1.5 SPACES X 222 DWELLINGS 333 SPACES REQUIRED	182 SURFACE PARKING SPACES 172 INDOOR PARKING SPACES 354 TOTAL PARKING SPACES (1.804 PER DWELLING)
DENSITY	16 UNITS/ACRE	PROPOSED TOTAL SITE = 19.68 ACRES UNIT COUNT = 222 UNITS PROPOSED DENSITY = 222 UNITS/19.68 ACRES PROPOSED DENSITY = 11.3 UNITS/ACRE

SITE PLAN NOTES:

- 1- SEE SHEET C180 FOR PLANTING SCHEDULE
- TOTAL SITE LESS FOREVER WILD AREA
PROPOSED TOTAL SITE = 19.68 ACRES
UNIT COUNT = 222 UNITS
- FOREVER WILD AREA = 5.22 ACRES
PREVIOUSLY DEVELOPED TOWN LAND WITHIN FOREVER WILD = 0.4 ACRES
- TOTAL FOREVER WILD AREA TO REMAIN = 4.84 ACRES
TOTAL PROJECT AREA (TOTAL SITE - FOREVER WILD REMAIN) = 14.84 ACRES
- PROPOSED DENSITY = 222 UNITS/14.84 ACRES PROPOSED DENSITY = 15.0 UNITS/ACRE

1 SITE PLAN
SCALE: 1" = 50'

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THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

NO.	DATE	DESCRIPTION
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REVIEWED BY:		
ISSUED FOR:		SITE PLAN APPROVAL
DATE:		07/29/22
DRAWING NAME:		

GRADING & DRAINAGE PLAN

DEVELOPER / APPLICANT:
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C140

DEEP TEST RESULTS:

TEST HOLE #1 (TP-1)
TEST DEPTH = 8'-0"
0.0' - 0.5' = TOPSOIL
0.5' - 7' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
7' - 8' = MOSTLY FINE SAND, GREY, MOIST

TEST HOLE #2 (TP-2)
TEST DEPTH = 8'-0"
0.0' - 0.5' = TOPSOIL
0.5' - 7' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
7' - 8' = MOSTLY FINE SAND, GREY, MOIST

TEST HOLE #3 (TP-3)
TEST DEPTH = 8'-0"
0.0' - 1.0' = TOPSOIL
1.0' - 5.5' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
5.5' - 8.0' = MOSTLY FINE SAND, GREY, MOIST

TEST HOLE #4 (TP-4)
TEST DEPTH = 8'-0"
0.0' - 0.5' = TOPSOIL
0.5' - 5.0' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
5.0' - 8.0' = MOSTLY FINE SAND, GREY, MOIST

TEST HOLE #5 (TP-5)
TEST DEPTH = 8'-0"
0.0' - 0.5' = TOPSOIL
0.5' - 6.0' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
6.0' - 8.0' = MOSTLY FINE SAND, GREY, MOIST

TEST HOLE #6 (TP-6)
TEST DEPTH = 8'-0"
0.0' - 1.0' = TOPSOIL
1.0' - 7.0' = POORLY GRADED SAND;
MOSTLY FINE, BROWN/ORANGE, MOIST
7.0' - 8.0' = MOSTLY FINE SAND, GREY, MOIST

SOIL TESTING WAS PERFORMED BY THE CHAZEN COMPANIES ON 08/07/2020.

FALLING HEAD TEST RESULTS:

TEST #1 (B-1)
TEST DEPTH = 6'-0"
AVERAGE RATE = 24.00 IN/HR

TEST #2 (B-2)
TEST DEPTH = 6'-0"
AVERAGE RATE = 14.33 IN/HR

TEST #3 (B-3)
TEST DEPTH = 6'-0"
AVERAGE RATE = 20.33 IN/HR

TEST #4 (B-4)
TEST DEPTH = 6'-0"
AVERAGE RATE = 19.08 IN/HR

TEST #5 (B-5)
TEST DEPTH = 6'-0"
AVERAGE RATE = 11.17 IN/HR

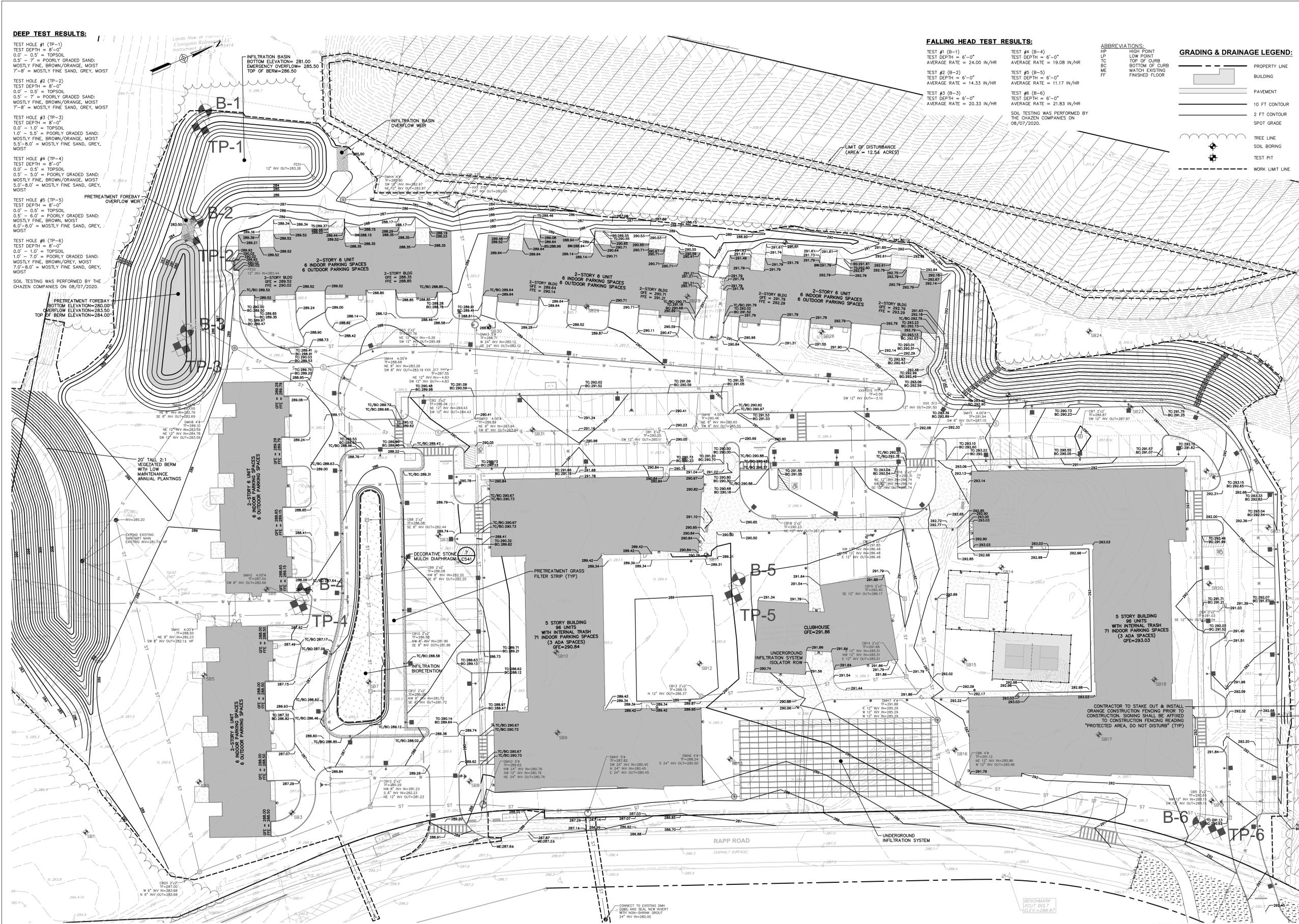
TEST #6 (B-6)
TEST DEPTH = 6'-0"
AVERAGE RATE = 21.83 IN/HR

SOIL TESTING WAS PERFORMED BY THE CHAZEN COMPANIES ON 08/07/2020.

ABBREVIATIONS:
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB
BC BOTTOM OF CURB
ME MATCH EXISTING
FF FINISHED FLOOR

GRADING & DRAINAGE LEGEND:

- PROPERTY LINE
- BUILDING
- PAVEMENT
- 10 FT CONTOUR
- 2 FT CONTOUR
- SPOT GRADE
- SPOT GRADE
- TREE LINE
- SOIL BORING
- TEST PIT
- WORK LIMIT LINE



1 GRADING & DRAINAGE PLAN
SCALE 1" = 30'

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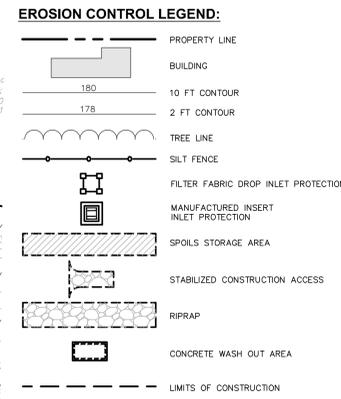
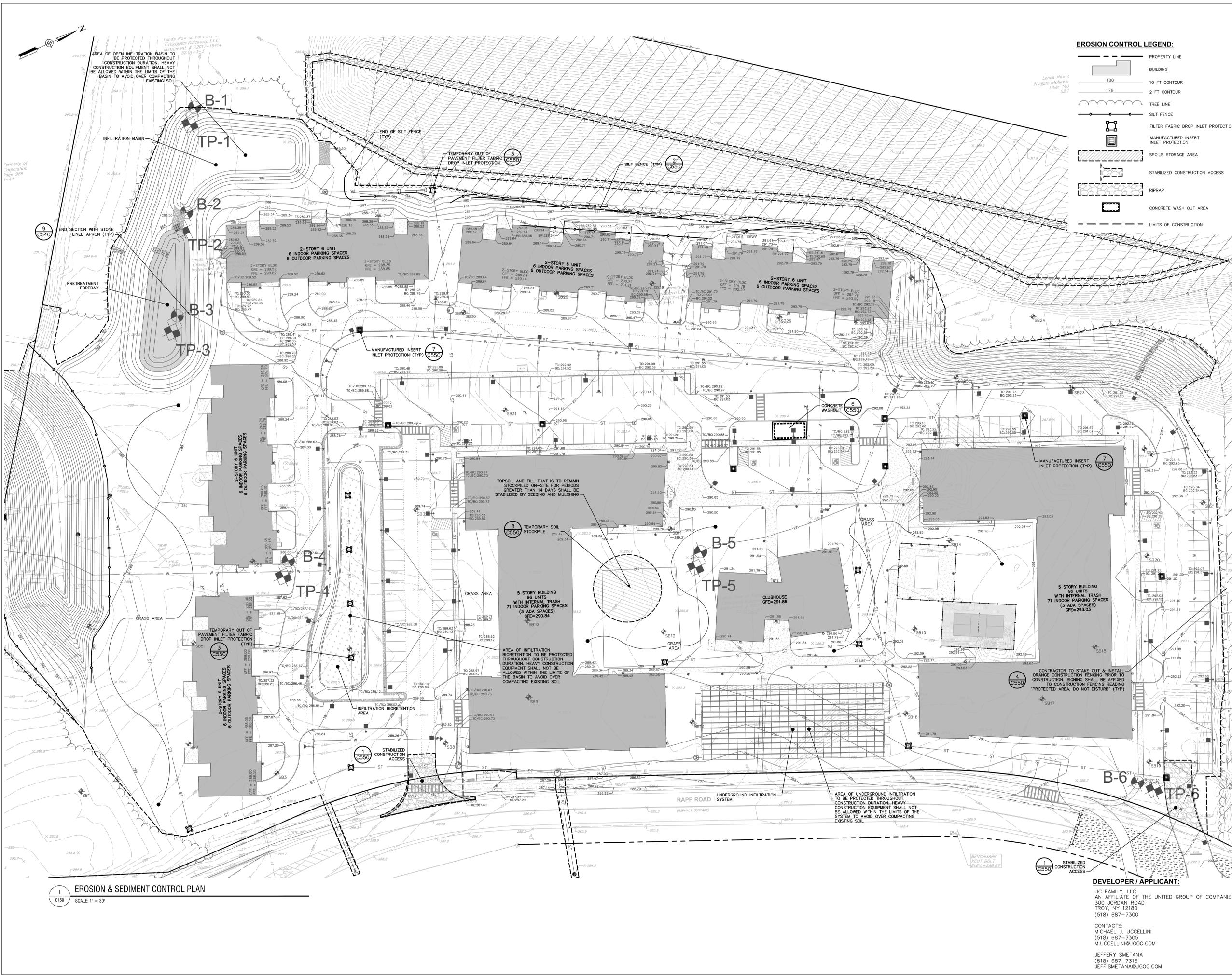
THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2222678
DRAWN BY:		
REVIEWED BY:		
ISSUED FOR:		SITE PLAN APPROVAL
DATE:		07/29/22
DRAWING NAME:		

EROSION & SEDIMENT CONTROL PLAN

DRAWING NUMBER:

C150



1 EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

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THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

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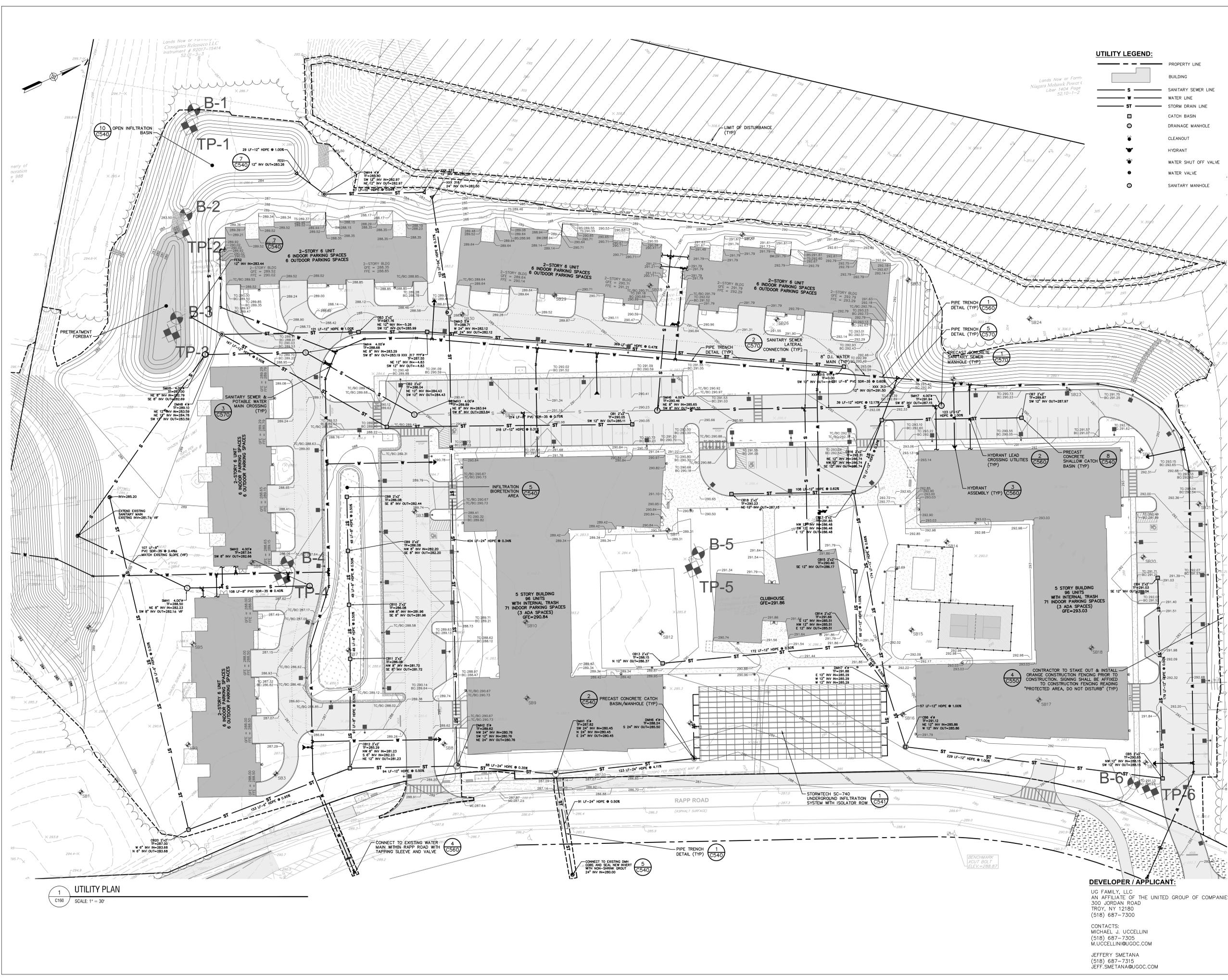
UTILITY PLAN

DEVELOPER / APPLICANT:
UG FAMILY, LLC
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DRAWING NUMBER:
C160



8/16/2022 10:56:54 AM: Mike J. Uccellini (mju) / 2222678 - Rapp Rd
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THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

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DATE: 07/29/22

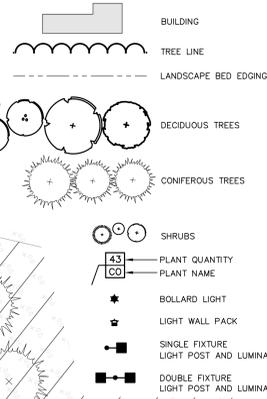
DRAWING NAME:

LANDSCAPE & LIGHTING PLAN

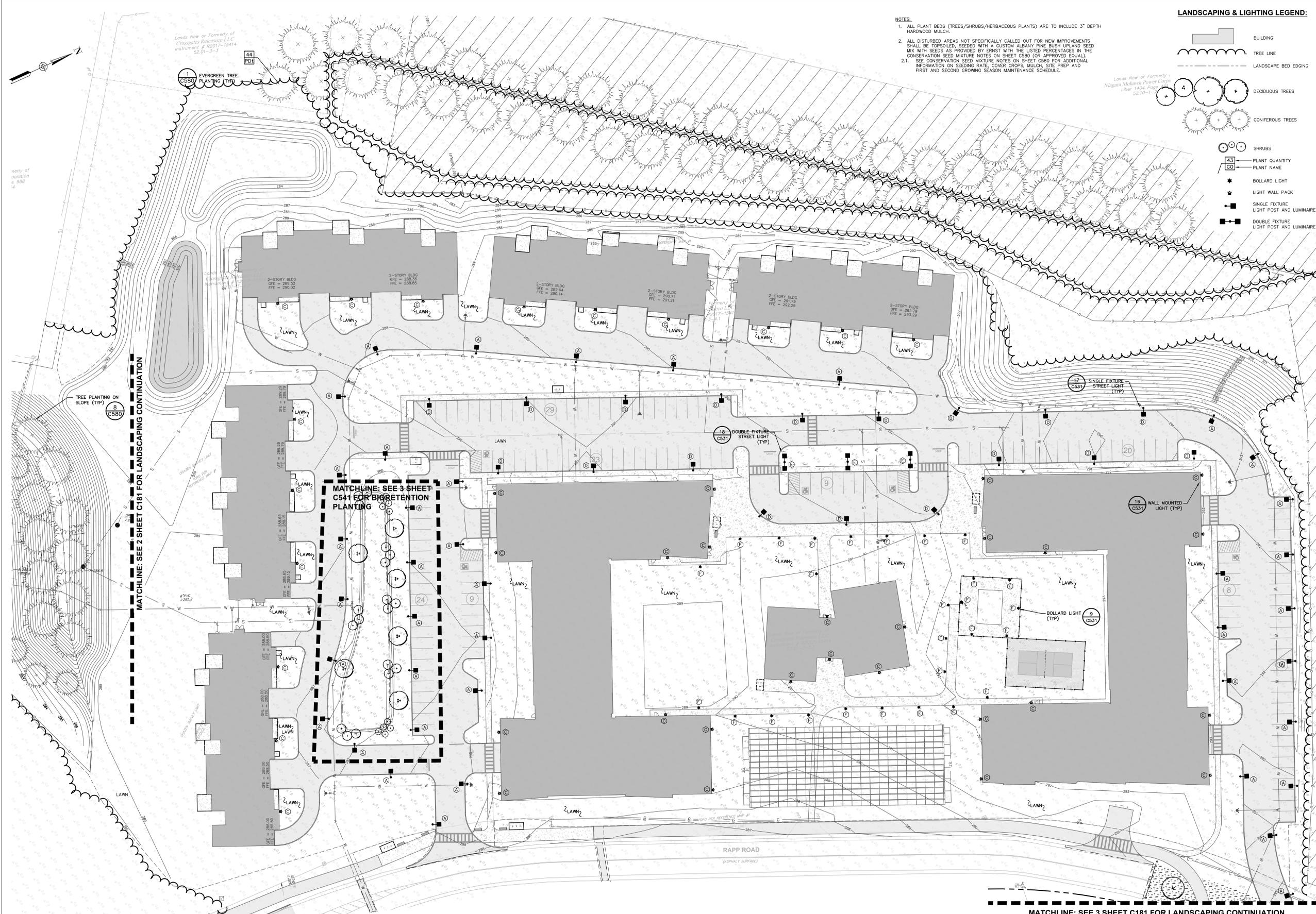
DRAWING NUMBER:

C180

LANDSCAPING & LIGHTING LEGEND:



- NOTES:**
- ALL PLANT BEDS (TREES/SHRUBS/HERBACEOUS PLANTS) ARE TO INCLUDE 3" DEPTH HARDWOOD MULCH.
 - ALL DISTURBED AREAS NOT SPECIFICALLY CALLED OUT FOR NEW IMPROVEMENTS SHALL BE TOPSOILED, SEEDED WITH A CUSTOM ALBANY PINE BUSH UPLAND SEED MIX WITH SEEDS AS PROVIDED BY ERNST WITH THE LISTED PERCENTAGES IN THE CONSERVATION SEED MIXTURE NOTES ON SHEET C580 (OR APPROVED EQUAL).
 - SEE CONSERVATION SEED MIXTURE NOTES ON SHEET C580 FOR ADDITIONAL INFORMATION ON SEEDING RATE, COVER CROPS, MULCH, SITE PREP AND FIRST AND SECOND GROWING SEASON MAINTENANCE SCHEDULE.



PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
TREES							
9	Ag	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5"-2" cal.	B&B	As Shown	Single Stem Clump
14	AR	Acer rubrum 'October Glory'	Red Maple	1.75"-2" cal.	B&B	As Shown	
5	CF	Cornus florida	Flowering Dogwood	1.75"-2" cal.	B&B	As Shown	
10	HM	Hornemansia virginiana	Witchhazel	8"-10" HL	B&B	As Shown	
22	PD	Pinus rigida	Pitch Pine	1.75"-2" cal.	B&B	As Shown	
55	PDI	Pinus rigida	Pitch Pine	12"-15' HT.	B&B	As Shown	
21	QA	Quercus alba	White Oak	12"-15' HT.	B&B	As Shown	
13	QR	Quercus rubra	Red Oak	12"-15' HT.	B&B	As Shown	

LIGHTING SCHEDULE

KEY	QTY	FIXTURE - MANUFACTURER & MODEL #	WATTAGE	HT.	REMARKS	LOADOUT
(A)	40	LINEAR LIGHT PT 3 - LIGMAN LIGHTING	50W	10'	TYPE IV	ULI-21171-54WLED-T4-W30-01-10'-120V
(B)	40	LINEAR LIGHT PT 12 - SURFACE - LIGMAN LIGHTING	35W	10'	WALL MOUNT - TYPE III	ULI-30011-37WLED-T3-W30-01-10'-120V
(C)	18	LINEAR LIGHT PT 4 - LIGMAN LIGHTING	152W	12'	SINGLE FIXTURE - TYPE III	ULI-21291-152WLED-T3-W30-01-12'-120V
(D)	3	LINEAR LIGHT PT 5 - LIGMAN LIGHTING	2x50W	10'	DOUBLE FIXTURE - TYPE III	ULI-21181-2x54WLED-T3-W30-01-10'-120V
(E)	28	LINEAR LIGHT PT 1 BOLLARD - LIGMAN LIGHTING	29W	3.5'	TYPE III	ULI-10021-29WLED-T3-W30-01-120V

DEVELOPER / APPLICANT:
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MATCHLINE: SEE 2 SHEET C181 FOR LANDSCAPING CONTINUATION

MATCHLINE: SEE 3 SHEET C181 FOR LANDSCAPING CONTINUATION

1 LANDSCAPE & LIGHTING PLAN
SCALE: 1" = 30'

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NOTE:
SEE SHEET C180 FOR PLANT SCHEDULE & LEGEND

4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

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THE APEX AT CROSSGATES
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TOWN OF GUILDERLAND, NY 12203

NO.	DATE	DESCRIPTION
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PROJECT NUMBER:		2222678
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ISSUED FOR:		SITE PLAN APPROVAL
DATE:		07/29/22
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DETAILED LANDSCAPE PLAN

DEVELOPER / APPLICANT:
UG FAMILY, LLC
AN AFFILIATE OF THE UNITED GROUP OF COMPANIES
300 JORDAN ROAD
TROY, NY 12180
(518) 687-7300

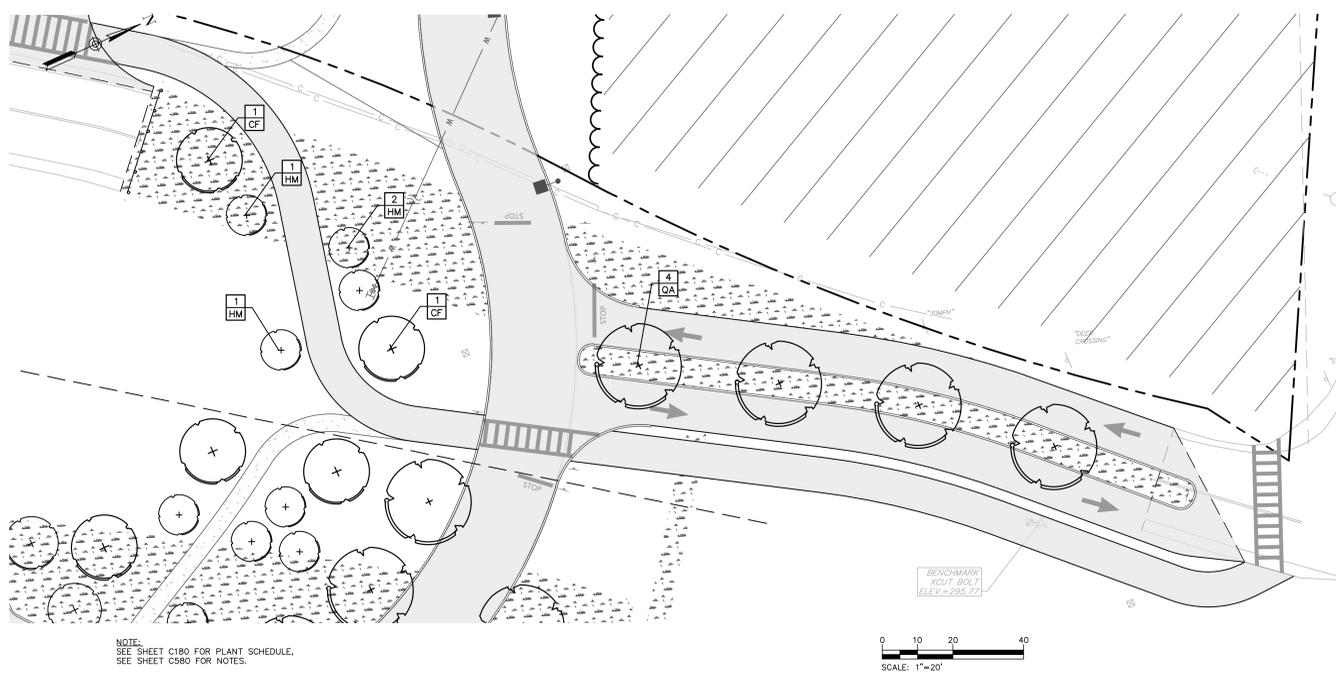
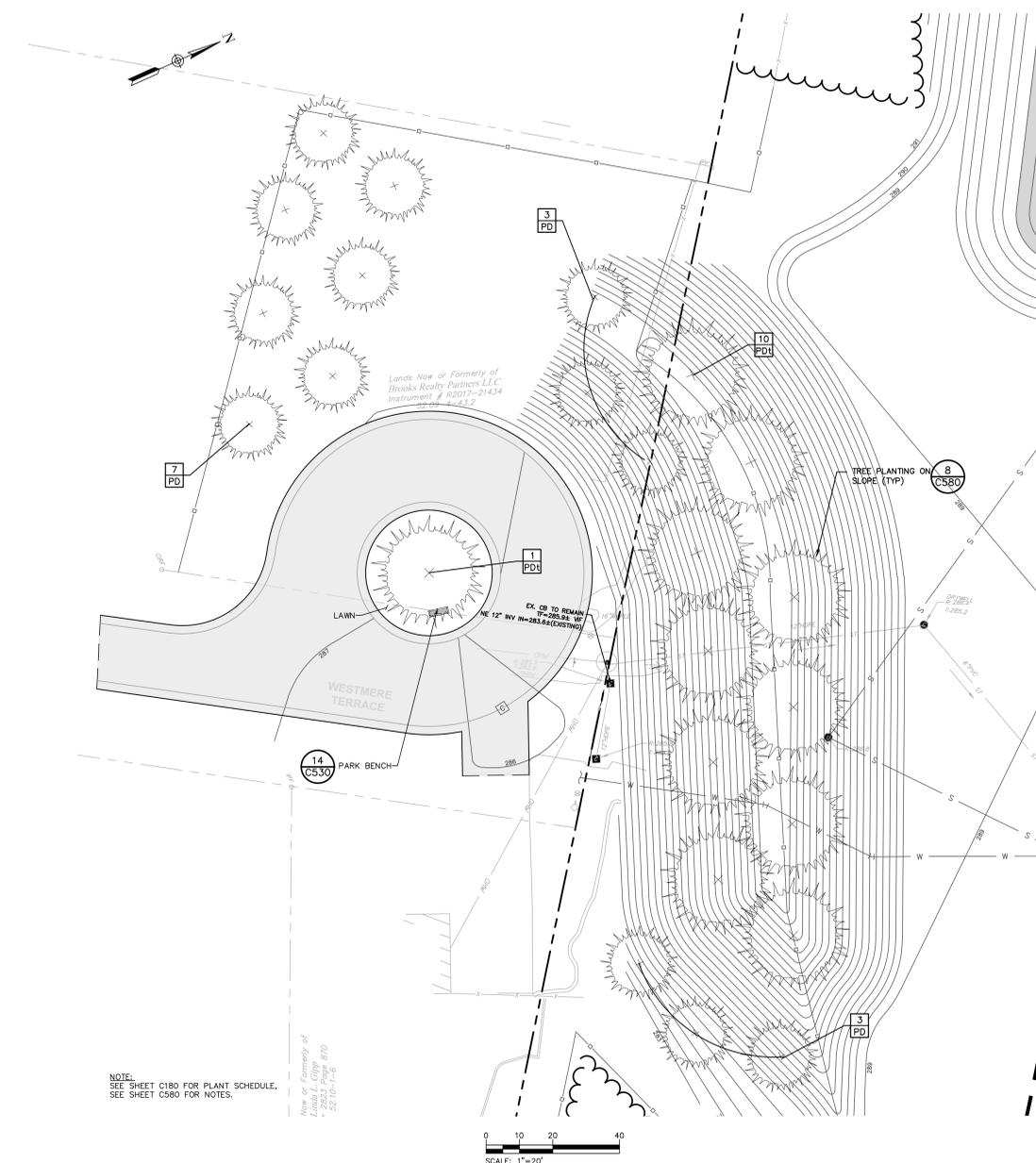
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JEFF.SMETANA@UGOC.COM

DRAWING NUMBER:

C181

MATCHLINE: SEE SHEET C180 FOR LANDSCAPING CONTINUATION



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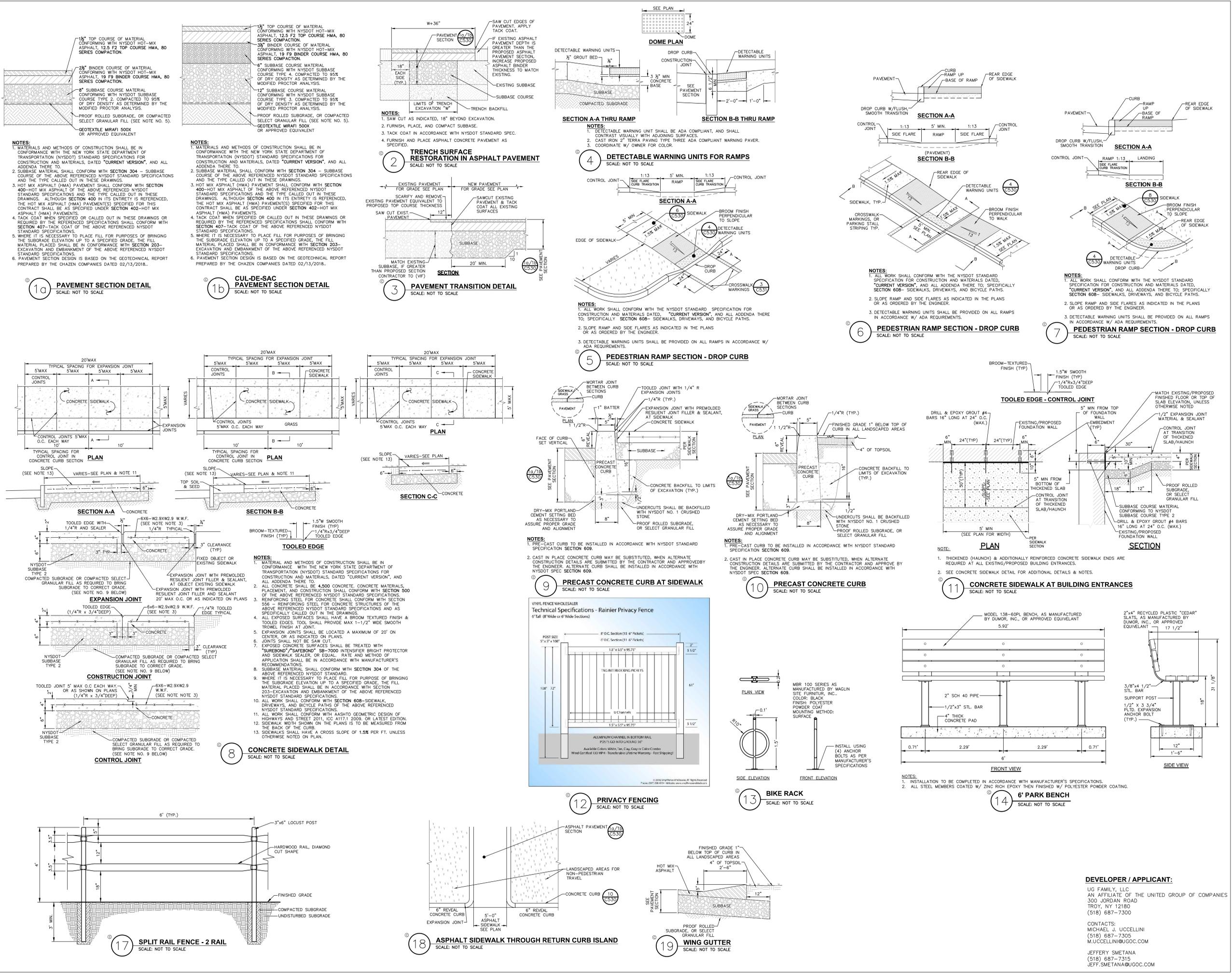
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ISSUED FOR:	SITE PLAN APPROVAL	
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SITE DETAILS

DEVELOPER / APPLICANT:
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C530



NOTES:
1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
6. PAVEMENT SECTION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY THE CHAZEN COMPANIES DATED 02/13/2018.

NOTES:
1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO.
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6. PAVEMENT SECTION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY THE CHAZEN COMPANIES DATED 02/13/2018.

NOTES:
1. SAW CUT AS INDICATED, 18" BEYOND EXCAVATION.
2. FURNISH PLACE, AND COMPACT SUBGRADE.
3. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
4. FURNISH AND PLACE ASPHALT CONCRETE PAVEMENT AS SPECIFIED.

NOTES:
1. DETECTABLE WARNING UNIT SHALL BE ADA COMPLIANT, AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
2. CAST IRON 2" TERRA PAVING TYPE THREE ADA COMPLIANT WARNING PAVEMENT.
3. COORDINATE W/ OWNER FOR COLOR.

NOTES:
1. ALL WORK SHALL CONFORM WITH THE NYSDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO, SPECIFICALLY SECTION 608- SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS.
2. SLOPE RAMP AND SIDE FLARES AS INDICATED IN THE PLANS OR AS ORDERED BY THE ENGINEER.
3. DETECTABLE WARNING UNITS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE W/ ADA REQUIREMENTS.

NOTES:
1. ALL WORK SHALL CONFORM WITH THE NYSDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO, SPECIFICALLY SECTION 608- SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS.
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2. SLOPE RAMP AND SIDE FLARES AS INDICATED IN THE PLANS OR AS ORDERED BY THE ENGINEER.
3. DETECTABLE WARNING UNITS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE W/ ADA REQUIREMENTS.

1a PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE

1b CUL-DE-SAC PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE

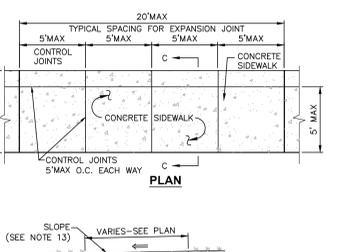
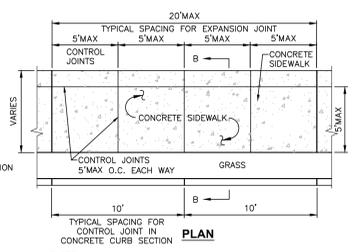
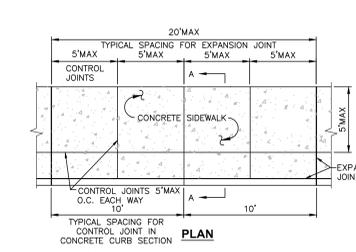
3 PAVEMENT TRANSITION DETAIL
SCALE: NOT TO SCALE

4 DETECTABLE WARNING UNITS FOR RAMPS
SCALE: NOT TO SCALE

5 PEDESTRIAN RAMP SECTION - DROP CURB
SCALE: NOT TO SCALE

6 PEDESTRIAN RAMP SECTION - DROP CURB
SCALE: NOT TO SCALE

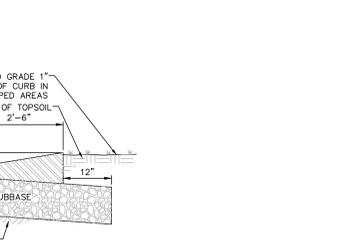
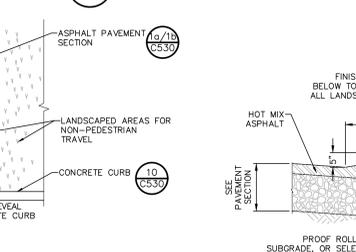
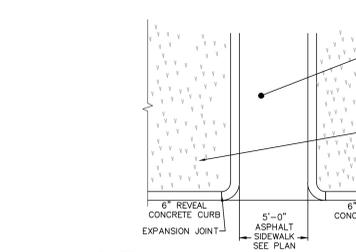
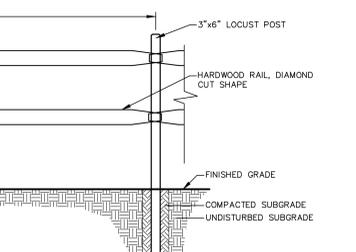
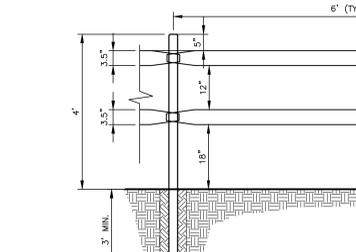
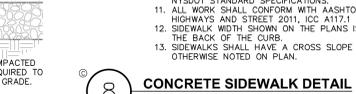
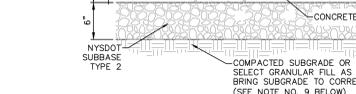
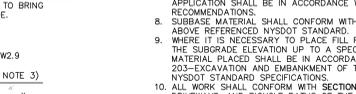
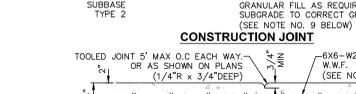
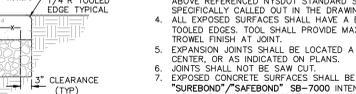
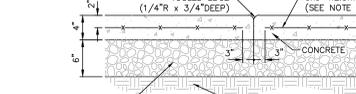
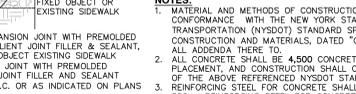
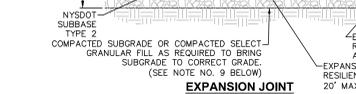
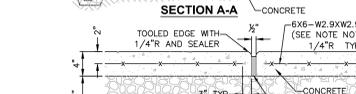
7 PEDESTRIAN RAMP SECTION - DROP CURB
SCALE: NOT TO SCALE



SECTION A-A

SECTION B-B

SECTION C-C



17 SPLIT RAIL FENCE - 2 RAIL
SCALE: NOT TO SCALE

18 ASPHALT SIDEWALK THROUGH RETURN CURB ISLAND
SCALE: NOT TO SCALE

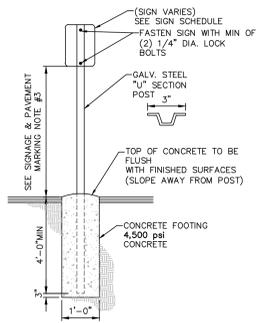
19 WING GUTTER
SCALE: NOT TO SCALE

12 PRIVACY FENCING
SCALE: NOT TO SCALE

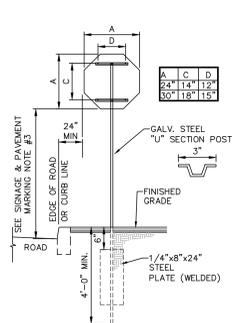
13 BIKE RACK
SCALE: NOT TO SCALE

14 6' PARK BENCH
SCALE: NOT TO SCALE

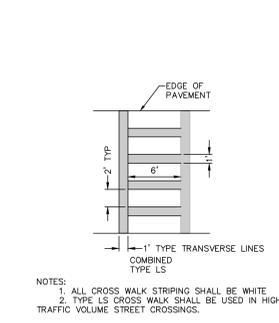
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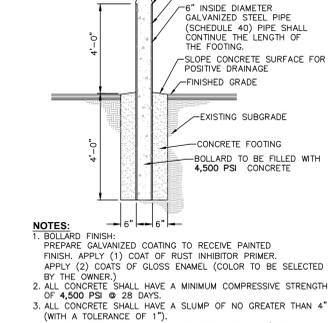
1 SINGLE POST IN CONCRETE SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



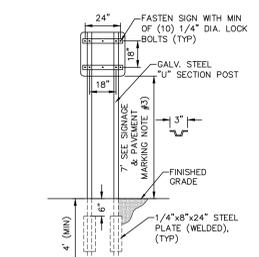
2 SINGLE POST STOP SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



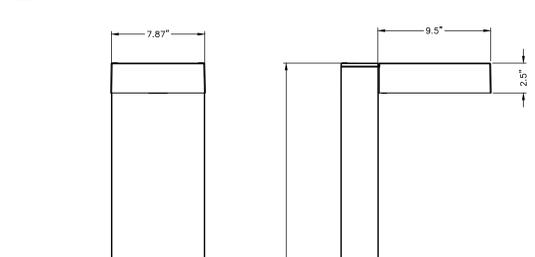
3 PAVEMENT MARKING DETAIL CROSS WALK STRIPING
SCALE: NOT TO SCALE



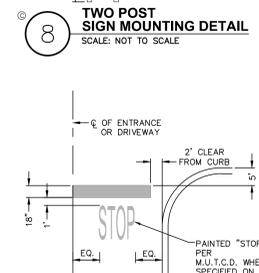
4 STEEL & CONCRETE BOLLARD DETAIL
SCALE: NOT TO SCALE



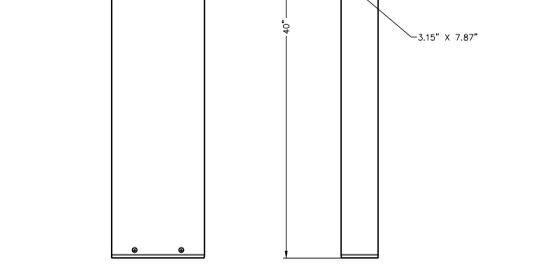
5 TWO POST SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



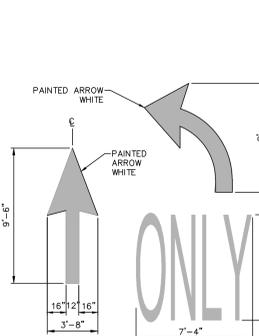
6 BOLLARD LIGHT DETAIL
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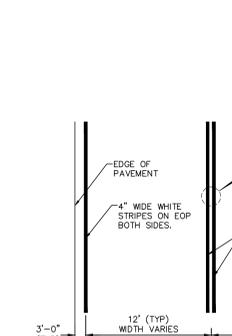
7 PAVEMENT MARKING DETAIL STOP BAR
SCALE: NOT TO SCALE



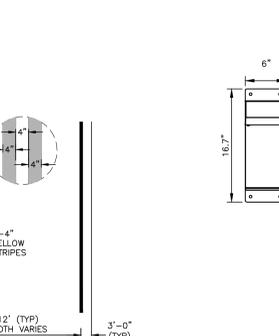
8 WALL MOUNTED LIGHT DETAIL
SCALE: NOT TO SCALE



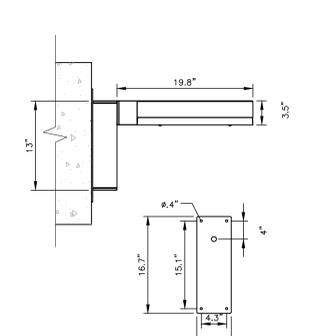
9 PAVEMENT MARKING DETAIL DIRECTIONAL ARROW
SCALE: NOT TO SCALE



10 PAVEMENT MARKING DETAIL TYPICAL ROAD STRIPING
SCALE: NOT TO SCALE



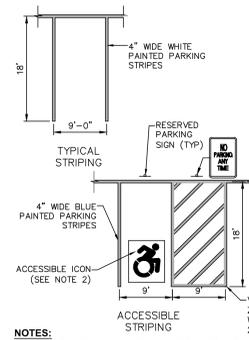
11 DOUBLE HEAD LIGHT DETAIL
SCALE: NOT TO SCALE



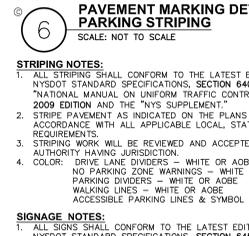
12 TAPCO BLINKERSIGN FLASHING LED SIGN
SCALE: 1\"/>

MUTCD SIGN SCHEDULE						
SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS	LEGEND	MOUNTING
1	STOP	R1-1	30"x30"	RED	WHITE	2 (C53)
2	WALKING	W11-2	24"x24"	YELLOW/FG	BLACK	1 (C53)
3	WALKING	W16-7P	24"x12"	YELLOW/FG	BLACK	1 (C53)
4	WALKING	NY R7-8D	12"x18"	WHITE/BLUE	GREEN/WHITE	1 (C53)
5	VAN ACCESSIBLE	R7-8P	12"x6"	WHITE	BLUE	1 (C53)
6	NO PARKING TIME	R7-1	12"x18"	WHITE	RED	1 (C53)
7	NO PARKING PRELIM		12"x18"	WHITE	RED	1 (C53)
8	ROAD CLOSED TO TRAFFIC	R11-4	60"x30"	WHITE	BLACK	8 (C53)
9	WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
10	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
11	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
12	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
13	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
14	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
15	NO OUTLET	W14-2	24"x24"	YELLOW/FG	BLACK	1 (C53)
16	LOCAL TRAFFIC ONLY	N/A TAPOC MODEL# 2180-01232	36"x36"	YELLOW/FG	BLACK W/LED LIGHTS	1 (C53)
17	LOCAL TRAFFIC ONLY		12"x18"	WHITE	BLACK	1 (C53)
18	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
19	WASHINGTON AVE EXT WESTERN AVE		60"x24"	GREEN	WHITE	8 (C53)
20	DEAD END	W14-1	24"x24"	YELLOW	BLACK	1 (C53)

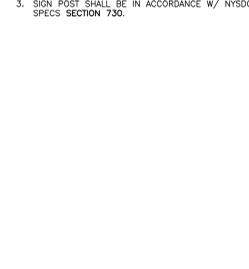
5 MUTCD SIGN SCHEDULE
SCALE: NOT TO SCALE



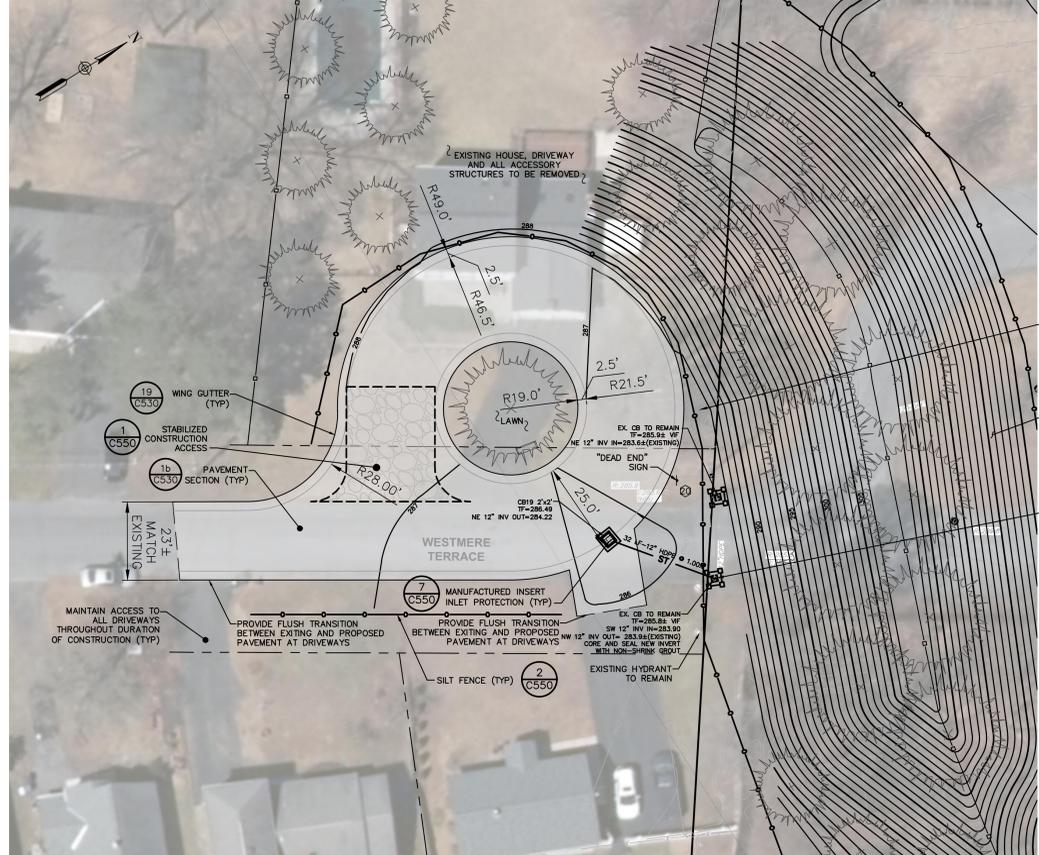
13 TYPICAL STRIPING
SCALE: NOT TO SCALE



14 PAVEMENT MARKING DETAIL PARKING MARKING
SCALE: NOT TO SCALE



15 LOT LIGHTING CONCRETE BASE
SCALE: NOT TO SCALE



19 CUL-DE-SAC ENLARGEMENT
SCALE: 1\"/>

LIGHT POLE FOUNDATIONS				
MOUNTING HEIGHT	DIAM.	DEPTH	REINF BARS	TIES
4'5"	18"	5'-0"	(6)#6	#3@18"
25'	24"	5'-0"	(6)#6	#3@12"
30'	24"	5'-6"	(6)#6	#3@12"
40'	24"	6'-0"	(6)#6	#3@12"
50'	24"	7'-0"	(6)#6	#3@12"

- NOTES:
1. CONDUITS AND GROUNDING SHALL BE AS REQUIRED BY THE ELECTRICAL DESIGN.
 2. ALL CONCRETE SHALL BE 4,500 PSI @ 28 DAYS.
 3. ALL REINFORCING STEEL SHALL BE GRADE 60.
 4. DESIGNED FOR 90 MPH WIND WITH FIXTURE AREA OF 13 SF.
 5. FOUNDATION DIAMETER AND REINFORCING CIRCLE SHALL BE COORDINATED WITH ANCHOR BOLT LIMITS.
 6. FOUNDATIONS SHALL BE AUGERED INTO UNDISTURBED NATURAL SOIL OR COMPACTED FILL PER SITE GRADING PLANS.

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:	2222678	
DRAWN BY:		
REVIEWED BY:		
ISSUED FOR:	SITE PLAN APPROVAL	
DATE:	07/29/22	
DRAWING NAME:		

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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UG FAMILY, LLC
AN AFFILIATE OF THE UNITED GROUP OF COMPANIES
300 JORDAN ROAD, TROY, NY 12180



THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

NO.	DATE	DESCRIPTION:
Revisions		
PROJECT NUMBER: 2222678		
DRAWN BY:		
REVIEWED BY:		
ISSUED FOR: SITE PLAN APPROVAL		
DATE: 07/29/22		
DRAWING NAME:		

STORM SEWER DETAILS

DEVELOPER / APPLICANT:
UG FAMILY, LLC
AN AFFILIATE OF THE UNITED GROUP OF COMPANIES
300 JORDAN ROAD
TROY, NY 12180
(518) 687-7300

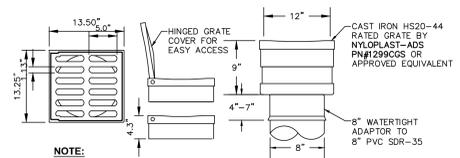
CONTACTS:
MICHAEL J. UCCELLINI
(518) 687-7305
M.UCCCELLINI@UGOC.COM

JEFFERY SMETANA
(518) 687-7315
JEFF.SMETANA@UGOC.COM

C540

STORM SEWER NOTES:

- ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF 1/2 THE AVAILABLE SUMP DEPTH.
- IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (I.A.K.A. SUMP PIT) TO TRAP AND FILTER WATER FOR PUMPING TO A SUITABLE DISCHARGE AREA. THE DEWATERING PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE AS OUTLINED ON THE EROSION AND SEDIMENT CONTROL PLANS, DETAILS AND NOTES.



NOTE:

- CASTINGS RATED STANDARD HS20-44
- MATERIAL SHALL CONFORM TO ASTM A48-CLASS 308
- PAINT, CASTINGS TO BE FINISHED WITH A BLACK PAINT
- IN-LINE DRAIN BY NYLOPLAST OR APPROVED EQUIVALENT
- DRAIN AREA = 62.7 SQ. INCH

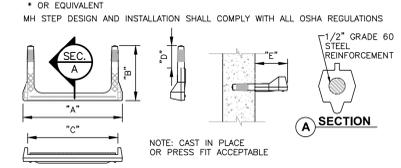
12" IN-LINE DRAIN & GRATE
SCALE: NOT TO SCALE

IN-LINE DRAIN DIMENSIONS

BODY ADAPTOR	B	C	E	MIN INV. DEPTH
8"	8"	5.25"	4.21"	12.75"
8"	8"	7.25"	5.20"	13.25"
10"	8"	8.75"	4.21"	12.75"
10"	8"	6.50"	3.25"	13.25"
10"	10"	7.75"	6.08"	21.75"
12"	8"	11.50"	4.21"	12.75"
12"	8"	11.50"	3.25"	13.25"
12"	10"	11.25"	6.08"	21.75"
12"	12"	6.00"	6.45"	23.50"

ACCEPTABLE MANHOLE STEPS

MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" CLEAR	"D" EMBEDMENT	"E" RUNG CLEAR
M.A. INDUSTRIES INC*	PS2-PP	14 3/4	9 1/4	13 3/4	3 3/8	5 7/8
M.A. INDUSTRIES INC*	PS2-PFS	14 3/4	8 1/4	13 3/4	3 3/8	4 7/8



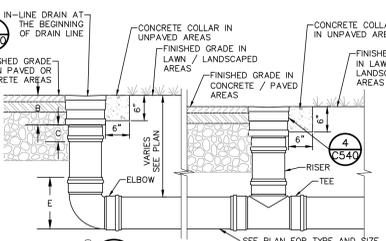
6 COPOLYMER POLYPROPYLENE MH STEP
SCALE: NOT TO SCALE

TYPICAL HDPE END SECTION

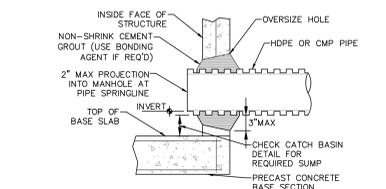
PIPE DIA.	A	B	C	D
12"	42"	14"	34"	6"
15"	42"	17"	34"	6"



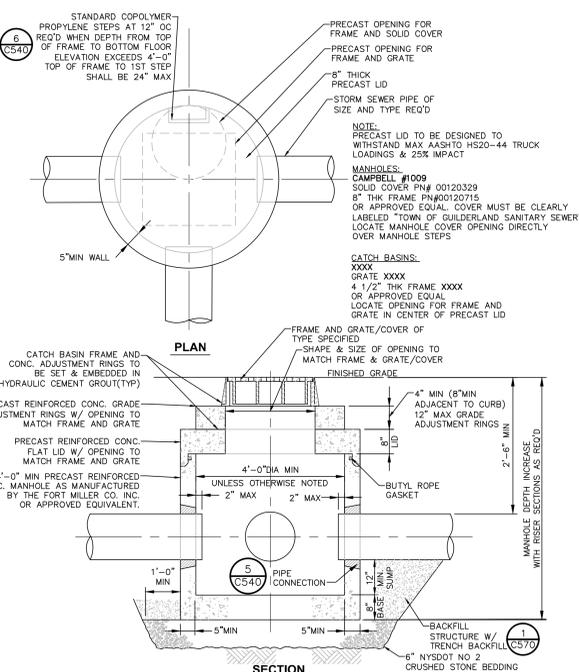
7 TYPICAL END SECTION - HDPE
SCALE: NOT TO SCALE



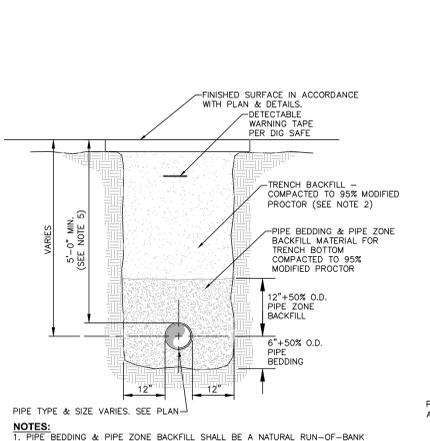
3 YARD IN-LINE DRAIN
SCALE: NOT TO SCALE



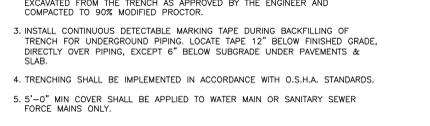
5 PIPE CONNECTION TO DRAINAGE STRUCTURE - CMP OR HDPE CEMENT GROUT SEAL JOINT
SCALE: NOT TO SCALE



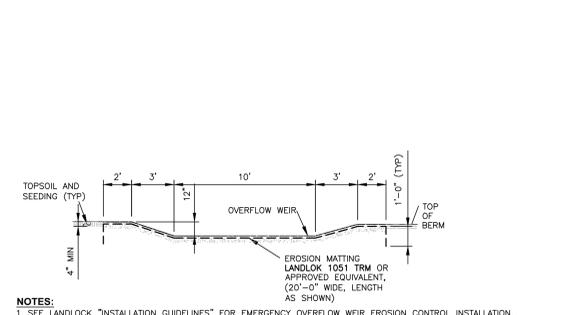
2 PRECAST CONCRETE CATCH BASIN/MANHOLE DETAIL
SCALE: NOT TO SCALE



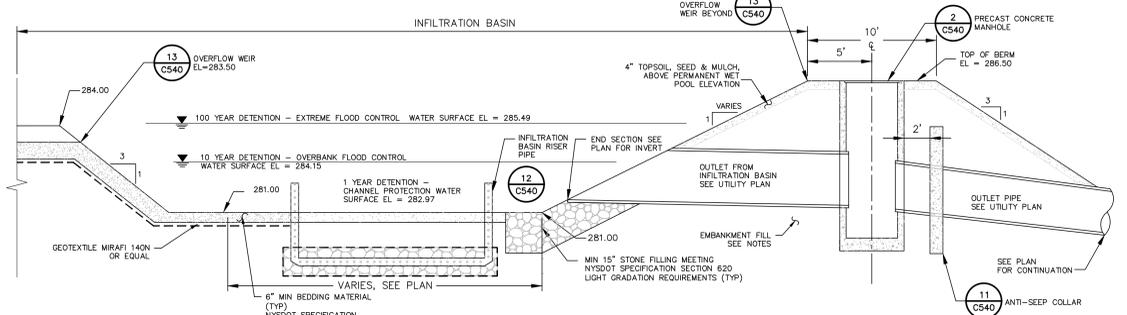
1 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE



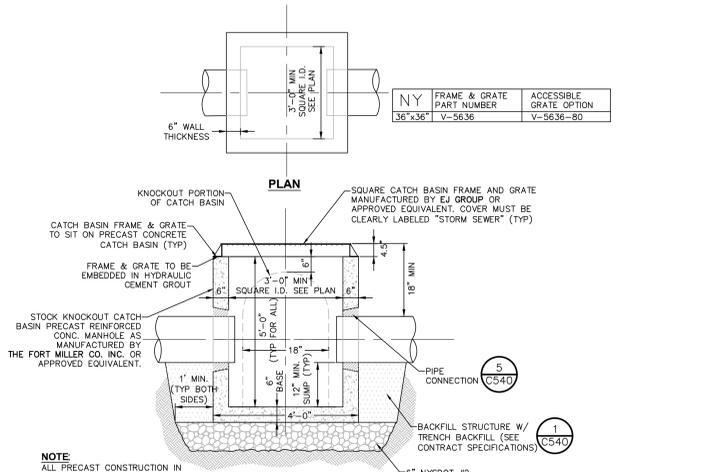
8 PRECAST CONCRETE SHALLOW CATCH BASIN DETAIL
SCALE: NOT TO SCALE



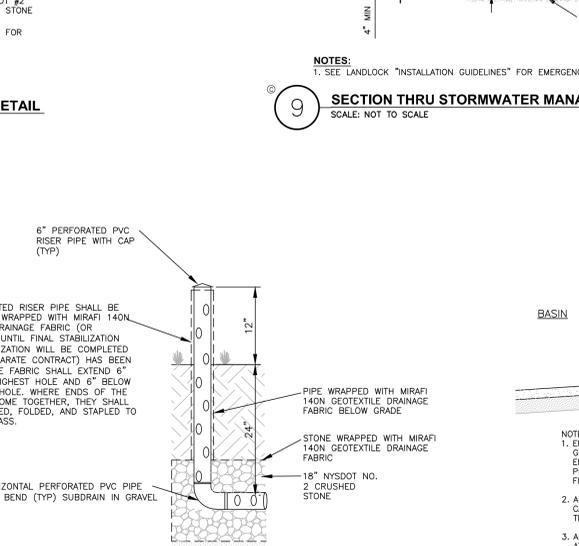
9 SECTION THRU STORMWATER MANAGEMENT BASIN OVER FLOW WEIR
SCALE: NOT TO SCALE



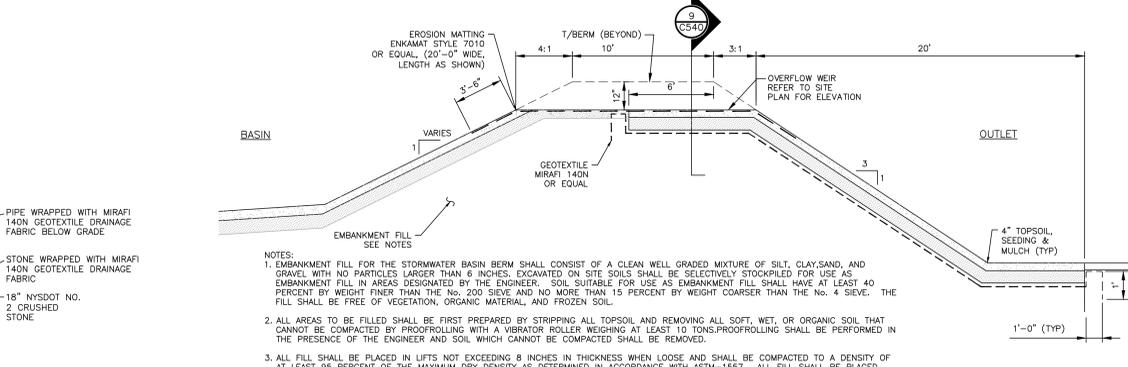
10 TYPICAL SECTION THRU STORM WATER INFILTRATION BASINS (TYPE I-2 POND)
SCALE: NOT TO SCALE



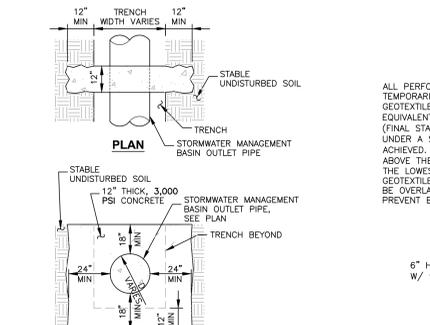
11 ANTI-SEEP COLLAR
SCALE: NOT TO SCALE



12 INFILTRATION BASINS RISER PIPE
SCALE: NOT TO SCALE

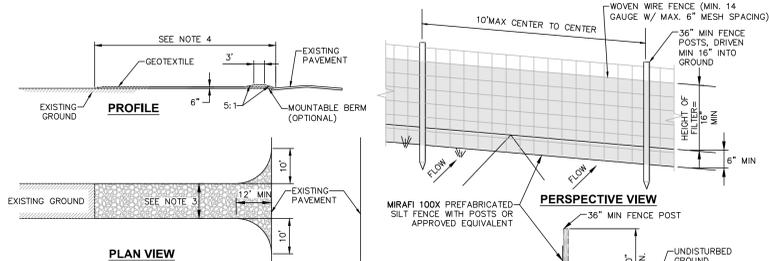


13 TYPICAL SECTION THRU STORM WATER BASIN OVERFLOW WEIR
SCALE: NOT TO SCALE



11 ANTI-SEEP COLLAR
SCALE: NOT TO SCALE

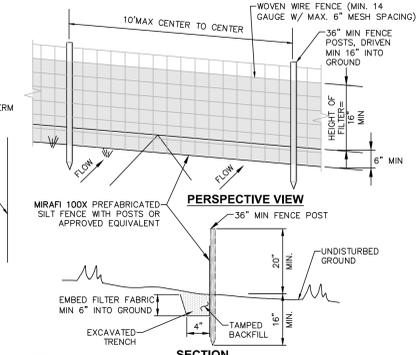
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CONSTRUCTION ACCESS SPECIFICATIONS:

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ACCESS DETAIL
SCALE: NOT TO SCALE

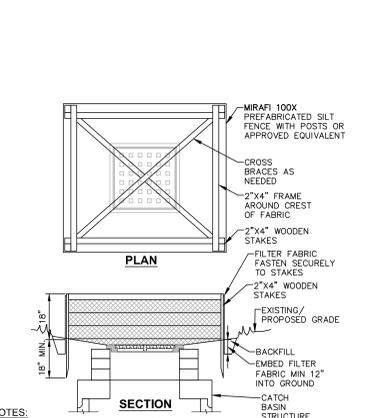


NOTES:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL 1" OR 1 1/2" TYPE OR HARDWOOD.
- FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH OPENING.
- WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
- SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
- SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
- MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE: SLOPE STEEPNESS MAXIMUM SLOPE LENGTH(FEET)

2:1	25
3:1	50
4:1	100

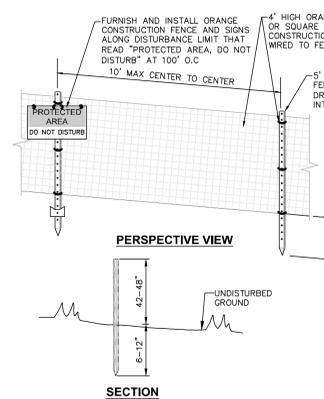
2 SILT FENCE INSTALLATION DETAIL
SCALE: NOT TO SCALE



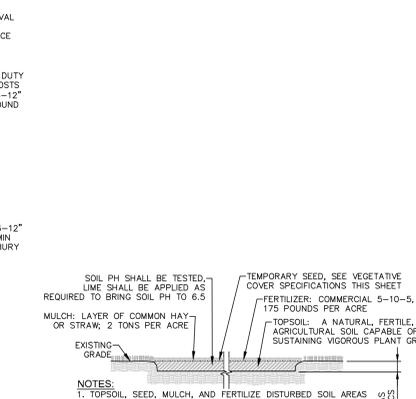
NOTES:

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
- CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 18" DEEP. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED.
- IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAMING.
- A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
- MAXIMUM DRAINAGE AREA IS 1 ACRE.
- INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

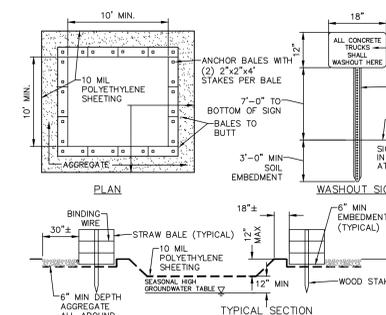
3 TEMPORARY OUTLET OF PAVEMENT FILTER FABRIC DROP INLET PROTECTION DETAIL
SCALE: NOT TO SCALE



4 TEMPORARY ORANGE CONSTRUCTION FENCE DETAIL
SCALE: NOT TO SCALE



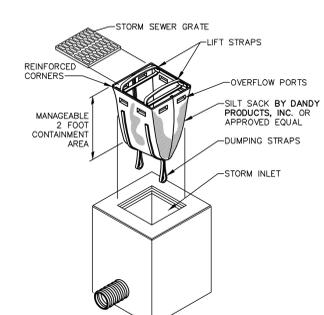
5 TEMPORARY TOPSOIL FERTILIZER, SEED & MULCH DETAIL
SCALE: NOT TO SCALE



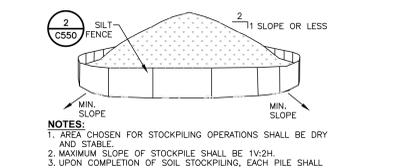
NOTES:

- CONTAINMENT DEVICES MUST BE STRUCTURALLY SOUND AND LEAK FREE TO CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. THIS INCLUDES REPLACEMENT OF THE 10 MIL POLYETHYLENE SHEETING.
- WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- AT LEAST WEEKLY, REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

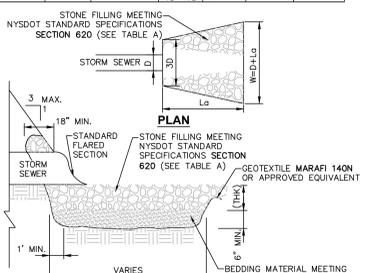
6 CONCRETE WASHOUT AREA DETAIL
SCALE: NOT TO SCALE



7 MANUFACTURED INSERT INLET PROTECTION DETAIL
SCALE: NOT TO SCALE



8 TEMPORARY SOIL STOCKPILE DETAIL
SCALE: NOT TO SCALE



9 END SECTION WITH STONE LINED APRON DETAIL
SCALE: NOT TO SCALE

STONE APRON SIZING REQUIREMENT - TABLE "A"

CULVERT DIA. (D)	CULVERT SLOPE, %	NYSDOT STANDARD STONE FILLING MATERIAL	d50	dMAX	MINIMUM APRON THICKNESS (IN)	MINIMUM OUTLET APRON LENGTH (FT)
12"	< 8	LIGHT	6"-12"	9"	18	10
18"	8-10	MEDIUM	9"-12"	14"-18"	24	24
24"	< 4	LIGHT	6"-9"	9"	18	10
30"	4-6	MEDIUM	9"-12"	14"-18"	24	12
36"	6-8	HEAVY	15"-18"	22"-27"	36	12
42"	8-10	HEAVY	15"-18"	22"-27"	36	18
48"	< 3	LIGHT	6"-9"	9"	18	12
54"	3-4	MEDIUM	9"-12"	14"-18"	24	16
60"	4-6	HEAVY	15"-18"	22"-27"	36	24
66"	< 1	LIGHT	6"-9"	9"	18	15
72"	1-2	MEDIUM	9"-12"	14"-18"	24	20
78"	2-3	HEAVY	15"-18"	22"-27"	36	25
84"	4-6	HEAVY	15"-18"	22"-27"	36	30
90"	< 2	MEDIUM	9"-12"	14"-18"	24	24
96"	2-3	HEAVY	15"-18"	22"-27"	36	30
102"	3-5	HEAVY	15"-18"	22"-27"	36	36
108"	< 1	MEDIUM	9"-12"	14"-18"	24	28
114"	1-2	HEAVY	15"-18"	22"-27"	36	35
120"	2-3	HEAVY	15"-18"	22"-27"	36	42
126"	< 1	MEDIUM	9"-12"	14"-18"	24	32
132"	1-2	HEAVY	15"-18"	22"-27"	36	40
138"	2-3	HEAVY	15"-18"	22"-27"	36	48

SPDES GENERAL PERMIT GP-0-15-002 COMPLIANCE NOTES:

THIS PLAN SET AND THE ACCOMPANYING SWPPP ENTITLED "THE APEX AT CROSSGATES" HAVE BEEN SUBMITTED AS A SET. THESE ENGINEERING DRAWINGS ARE CONSIDERED AN INTEGRAL PART OF THE SWPPP. THEREFORE THE PLAN SET IS NOT CONSIDERED COMPLETE WITHOUT THE SWPPP.

- THIS PROJECT HAS NOT RECEIVED WRITTEN APPROVAL FROM THE TOWN OF GUILDERLAND, ALLOWING THE DISTURBANCE OF MORE THAN FIVE (5) ACRES OF LAND AT ANY ONE TIME. THEREFORE, IF THE CONTRACTOR'S CONSTRUCTION SEQUENCE REQUIRES THE DISTURBANCE OF MORE THAN FIVE ACRES AT ANY ONE TIME, WRITTEN APPROVAL MUST BE OBTAINED FROM NYSDC PRIOR TO EXCEEDING THE 5 ACRE LIMIT.

CONSTRUCTION SEQUENCING NOTES:

- PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL, BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE AREA OF THE STORMWATER MANAGEMENT FACILITIES. THIS AREA SHALL NOT EXCEED FIVE (5) ACRES IN EXTENT WITHOUT TEMPORARY STABILIZATION.
- PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RRAP OVERFLOW WEIR(S), CULVERT INLET/OUTLET PROTECTION, ETC.) AND SHALL STABILIZE THE AREAS DISTURBED DURING THE CONSTRUCTION OF THE SEDIMENT BASIN.
- TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ASSURE THAT THE AREA TRIBUTARY TO EACH DIVERSION DOES NOT EXCEED FIVE (5) ACRES. THESE TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED/STABILIZED AS NECESSARY TO MINIMIZE EROSION.
- THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
- CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RRAP AT LOCATIONS SHOWN ON THE PLANS.
- FINALIZE PAVEMENT SUB-GRADE PREPARATION.
- REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
- INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
- PRIOR TO FINALIZING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
- AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- CONSTRUCTION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
- PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES: PERMANENT AND TEMPORARY VEGETATION:

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND REESTABLISHED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE:

INSPECT THE ENTRANCE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE:

INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED OFF THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCKPILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

STORM DRAIN INLET PROTECTION:

INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

DEWATERING PITS:

(IF REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND RECONSTRUCT NEW PITS AS NEEDED.

SNOW AND ICE CONTROL:

PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," NOVEMBER 2016.
- EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
- APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE. FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
- SEEDING AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
- WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

TOPSOIL SPECIFICATIONS:

- EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.
- SITE PREPARATION:**
- COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
 - SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
 - REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

APPLICATION AND GRADING:

- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER SNOW, OR STANDING WATER.
- TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.
- FOR TEMPORARY AND PERMANENT COVER, SEE LANDSCAPING DETAILS AND NOTES.

COMPACTION REQUIREMENTS

LOCATION	COMPACTION	TESTING FREQUENCY
PIPE TRENCH BACKFILL (IN PAVED AREAS)	95% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE TRENCH BACKFILL (IN UNPAVED AREAS)	90% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE BEDDING AND PIPE ZONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
PAVEMENT SUBBASE AND LAST LIFT OF SELECT GRANULAR FILL (FILL BETWEEN SHEET PILES)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT. OF LIFT AREA BUT NO FEWER THAN TWO TESTS PER LIFT

It is a violation of New York Education Law Article 145 Sec. 7709, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2222678
DRAWN BY:		
REVIEWED BY:		
ISSUED FOR:		SITE PLAN APPROVAL
DATE:		07/29/22
DRAWING NAME:		

EROSION & SEDIMENT CONTROL DETAILS

DEVELOPER / APPLICANT:

UG FAMILY, LLC
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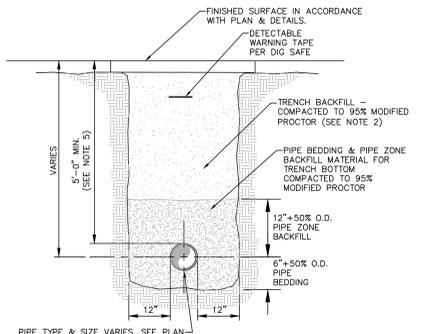
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OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

- INTENTION: THE DECLARED AND ACKNOWLEDGED INTENTION TO SECURE A NEW WATER DISTRIBUTION SYSTEM, COMPLETE, IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "RECOMMENDED STANDARDS FOR WATER WORKS."
- GENERAL: ALL MATERIALS SHALL BE NEW AND UNUSED. MATERIALS SHALL BE WARRANTED BY THE CONTRACTOR AS TO MATERIALS, WORKMANSHIP, AND ACCURACY OF AS-BUILT DRAWINGS FOR A PERIOD OF ONE YEAR FROM THE DATE OF BENEFICIAL USE. FIELD CONDITIONS AND DIMENSIONS CHANGED TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE OWNER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
- SURVEYS: THE UTILITY CONTRACTOR SHALL PROVIDE ALL SURVEYS NECESSARY FOR THE LAYOUT AND CONSTRUCTION OF THE WORK OF HIS CONTRACT.
- EARTHWORK: EARTHWORK SHALL INCLUDE ALL EXCAVATION, FILL AND BACKFILL (MACHINE), COMPACTION AND ROUGH GRADING OF MATERIALS ENCOUNTERED. NO UNSUITABLE MATERIAL INCLUDING, BUT NOT LIMITED TO, CLAY, MUCK, OR PEAT, REMOVED FROM PIPE TRENCHES ARE TO BE USED FOR BACKFILL. ALL FILL OR BACKFILL SHALL BE SAND OR SANDY CLAY, FREE FROM ORGANIC MATERIALS, TRASH, OR OTHER DEBRIS. ALL OTHER BACKFILL SHALL BE COMPACTED BY MACHINE OPERATION CAREFULLY TO 95% (OUTSIDE OF PAVING), 98% (UNDER PAVING) OF ITS OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698, LATEST.
- JOINT RESTRAINT: ALL DIP FITTINGS SHALL BE PROPERLY AND ADEQUATELY RESTRAINED AGAINST LATERAL MOVEMENT AT ALL WATER MAIN TEES, CROSSES, VALVES, BENDS, AND FIRE HYDRANTS. RESTRAINTS SHALL BE MEQ-LUG TYPE FOR MECHANICAL JOINTS AND FIELD LOCK GASKETS FOR PUSH JOINTS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- DUCTILE IRON PIPE: DUCTILE IRON PIPES SHALL CONFORM TO ANSI SPECIFICATION A21.50 (AWWA C150) LATEST, CLASS 52 MINIMUM AND SHALL BE ANSI A21.51 (AWWA C151), LATEST CENTRIFUGALLY CAST PIPE. WHEN PIPING RATING IS REDUCED BY THREADING, INCREASE PIPE WEIGHT TO CLASS 53. LAYING LENGTHS SHALL BE 20 FEET, EACH LENGTH CLEARLY MARKED WITH PRESSURE RATING, THICKNESS CLASS, HEIGHT OF PIPE WITHOUT LINING, LENGTH, AND MANUFACTURER. THE PIPE SHALL HAVE DESIGN VALVES OF 60,000 PSI MINIMUM TENSILE STRENGTH, AND 42,000 PSI MINIMUM YIELD STRENGTH. ALL PIPE SHALL BE POLYETHYLENE ENGAGED.
- DUCTILE IRON FITTINGS: DUCTILE IRON FITTINGS SHALL BE C153 CEMENT LINED AND SUITABLE FOR THE TYPE AND CLASS OF PIPE TO WHICH CONNECTED. GASKETS SHALL BE SUITABLE FOR POTABLE AND DOMESTIC WATER SERVICE.
- HIGH DENSITY POLYETHYLENE PIPE: POLYETHYLENE PIPES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING STANDARDS. STANDARD FOR POLYETHYLENE WATER MAINS (ASTM F714) LATEST, STANDARD SPECIFICATION FOR POLYETHYLENE PLASTIC PIPES AND FITTING MATERIALS (ASTM D3350) LATEST, DIP MMU ADAPTERS (AWWA C906-99) LATEST, AND (AWWA C906) AND (NSF 61). HIGH DENSITY POLYETHYLENE PIPING COMPONENTS SHALL BE MADE FROM PRESSURE-RATED PE 3408, EXTRA-HIGH MOLECULAR WEIGHT, HIGH-DENSITY POLYETHYLENE. PIPE OUTER DIAMETER (OD) SHALL BE COMPATIBLE WITH STANDARD DUCTILE IRON PIPE SIZES. HDPE PIPES FOR WATER SHALL BE DR 11 AND MANUFACTURED WITH A BLUE LONGITUDINAL COLOR STRIPE PATTERN OF THREE EQUALLY SPACED PARS OF COLOR STRIPES EXTENDING INTO THE PIPE WITH TRACER WIRE. ALL HDPE WATER SERVICE PIPES SHALL BE DR 9 WITH SS STIFFENER INSERTS AND TRACER WIRE, CURB STOP, CORP STOP, AND CURB BOX COMPATIBLE WITH HDPE WATER SERVICES.
- STEEL CASING PIPE: STEEL CASING PIPE, WHEN REQUIRED, SHALL BE OF SIZE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO ASTM A139, WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
- GATE VALVES AND BOXES: GATE VALVES SHALL BE NON-RISING STEM TYPE AND SHALL BE SUITABLE FOR 175 PSI (5"-12") AND 150 PSI (14"-48") WORKING PRESSURE GATE VALVE, WHICH, SHALL BE MECHANICAL JOINT. GATE VALVES SHALL HAVE A 2" OPERATING NUT AND OPEN COUNTER-CLOCKWISE. GATE VALVES SHALL BE 1/2" OPERATING NUT. VALVES SHALL BE OF DOMESTIC (AMERICAN) MANUFACTURE AND SHALL BE CLOW, KENNEDY VALVE, MUELLER, OR APPROVED EQUAL. VALVE BOXES SHALL BE 5 1/4" DIAMETER, CAST IRON, SLUING TYPE WITH CENTERING DEVICE, ADJUSTABLE WITH THE WORD "WATER" CAST IN THE COVER. ALL SECTIONS OF THE VALVE BOX SHALL BE INTERCHANGEABLE WITH OLD BUFFALO FOUNDRY BOXES: STYLE #5001. VALVE BOXES SHALL BE BINGHAM AND TAYLOR OR APPROVED EQUAL.
- CURB STOPS: CURB VALVES SHALL HAVE A COMPRESSION NUT CONNECTION AT THE INLET AND OUTLET AND SHALL BE BALL STYLE CURB STOP FOR HOPE WATER SERVICES. MODEL B44-XXX-TW-Q AS MANUFACTURED BY FORD BALLCORP CORPORATION OR APPROVED EQUAL.
- CORP STOPS: CORPORATION STOPS SHALL HAVE A COMPRESSION CONNECTION AT THE OUTLET AND SHALL BE COMPLETE WITH A TRACER WIRE HOLE AS MANUFACTURED BY FORD BALLCORP CORPORATION MODEL FB1000-X-TW-Q OR APPROVED EQUAL.
- CURB BOXES: CURB BOXES SHALL BE TELESCOPIC WITH OPERATING ROD AND SHALL BE MANUFACTURED BY FORD COMPANY MODEL EM2-XX-XX-TW WITH PL LID OR APPROVED EQUAL. FOOT PIECE SHALL BE PROVIDED FOR ALL SERVICES 1.5" AND LARGER. COVERS SHALL HAVE "WATER" CAST IN.
- FIRE HYDRANTS: FIRE HYDRANTS SHALL BE MANUFACTURED BY CLOW EDDY MODEL F-2640. HYDRANTS SHALL HAVE HOSE NOZZLE WITH NPT THREADS WITH 2 1/2" DIAMETER NOZZLES, A 1/2" PLUMBER NOZZLE WITH NPT THREADS AND 5 1/4" MAIN VALVE OPENING. LEAD PIPE FROM HYDRANT SHALL BE CONNECTED TO A GATE VALVE WHICH IS CONNECTED TO AN ANCHOR TEE. FIRE HYDRANTS SHALL BE PAINTED RED WITH 1 1/2" PENTAGON NUT OPENING COUNTER-CLOCKWISE. ALL HYDRANTS SHALL BE EQUIPPED WITH HYDRANT MARKER MANUFACTURED BY CARSONITE COMPOSITES MODEL #CBM209602. 96" YELLOW WITH ANCHOR ATTACHED WITH DECAL (MODEL #123FH).
- INSTALLATION: THE MINIMUM COVER OVER TOP OF A POTABLE WATER MAIN SHALL BE 60" MINIMUM. ALL WATER LINES AND APPURTENANCES SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH AND SHALL BE KEPT CLEAN DURING LAYING OPERATIONS BY MEANS OF FLUGS OR OTHER APPROVED METHODS. ALL PIPES SHALL BE CHECK FOR DEFECTS BEFORE BEING LOWERED INTO THE TRENCH. DEFECTIVE PIPES SHALL NOT BE USED. PIPES FOUND TO BE DEFECTIVE AFTER INSTALLATION, SHALL BE REMOVED AND REPLACED WITH A SOUND PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER. THE FULL LENGTH OF EACH SECTION OF PIPE SHALL REST SOLIDLY ON THE PIPE BED, WITH RECESSES EXCAVATED TO ACCOMMODATE THE BELLS AND JOINTS. ALL PIPES THAT HAVE THEIR GRADES OR JOINTS DISTURBED AFTER INSTALLATION, SHALL BE TAKEN UP AND REINSTALLED. THE PIPE SHALL NOT BE LAID IN WATER, OR WHEN TRENCH OR WEATHER CONDITIONS ARE UNSUITABLE FOR THE WORK. ALL JOINTS SHALL BE CLEANED OF ALL FOREIGN MATTER BEFORE MAKING THE JOINT. FITTINGS AT BENDS IN THE PIPE SHALL BE PROPERLY RESTRAINED WITH JOINT RESTRAINTS ADEQUATELY SIZED TO PREVENT MOVEMENT OR DISLOCATING OR BLOWING OFF WHEN THE LINE IS UNDER PRESSURE. SERVICE LATERALS SHALL TERMINATE AT THE POINT WHERE NOTED IN THE DETAILS. CONTRACTOR MUST FIELD VERIFY EXISTING UTILITIES AND INSTALL NEW WATER MAINS OVER OR UNDER THEM MAINTAINING PROPER SEPARATION DISTANCES AND 60" MINIMUM COVER. THERE WILL BE NO ADDITIONAL COMPENSATION TO AVOID EXISTING UTILITIES.
- PRESSURE TESTING: AFTER ALL PRESSURE PIPE (WATER MAINS, SERVICES, AND FORCE MAINS) ARE LAID, THE JOINTS COMPLETED, AND THE TRENCHES BACKFILLED, THE NEWLY LAID PIPES AND APPURTENANCES SHALL BE SUBJECTED TO A PRESSURE TEST OF 150 PSI OR 1.5 TIMES WORKING PRESSURE (WHICH EVER IS GREATER) FOR A PERIOD OF AT LEAST 2 HOURS. THE ENGINEER MUST BE NOTIFIED AT LEAST 24 HOURS BEFORE A TEST IS TO BE PERFORMED. ANY LEAKS DETECTED SHALL BE CORRECTED AND THE SECTIONS OF THE PIPELINE RETESTED. THE 2 HOUR TEST PERIOD SHALL BEGIN WHEN ALL JOINTS HAVE BEEN DETERMINED TO BE WATER TIGHT. LEAKAGE SHALL BE LIMITED TO THAT ALLOWANCE SET FORTH IN SECTION 4 OF AWWA STANDARD C600. HYDROSTATIC TEST, LEAKAGE TEST, AND BLOW-DOWN (ZEROING OF GAUGE) MUST OCCUR BEFORE SAMPLING FOR BACTERIOLOGICAL TEST. THE MAXIMUM ALLOWABLE PRESSURE LOSS IS 5 PSI REGARDLESS OF THE LENGTH OF PIPE. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE PROJECT ENGINEER.
- DISINFECTION: AFTER COMPLETION OF CONSTRUCTION AND TESTING, THE WATER SYSTEM SHALL BE DISINFECTED WITH CHLORINE IN ACCORDANCE WITH AWWA STANDARD C651. THE AMOUNT OF CHLORINE APPLIED SHALL BE SUFFICIENT TO PROVIDE A DOSAGE OF 25 mg/l OR MORE. THE CHLORINE SOLUTION SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF AT LEAST 24 HOURS, DURING WHICH TIME EVERY VALVE IN THE SYSTEM SHALL BE OPENED AND CLOSED SEVERAL TIMES TO ASSURE CONTACT WITH EVERY SURFACE OF THE SYSTEM. AFTER A 24 HOUR RETENTION PERIOD, FLUSH THE MAIN UNTIL THE MAXIMUM CHLORINE CONCENTRATION IS 1 mg/l. THE CONTRACTOR SHALL OBTAIN ALL BACTERIOLOGICAL CLEARANCES AS REQUIRED BY THE NEW YORK STATE DEPARTMENT OF HEALTH. AFTER BACTERIOLOGICAL CLEARANCES, THE PRESSURE IN THE MAIN SHALL NOT DROP BELOW 20 PSI. A CLEARANCE REPORT SHALL BE SUBMITTED TO THE ENGINEER. IN ANY PROJECT WHERE THE BACTERIOLOGICAL CLEARANCES ARE GREATER THAN 30 DAYS OLD PRIOR TO PLACING A WATER MAIN INTO SERVICE, THE CONTRACTOR MAY BE REQUIRED TO PULL MORE SAMPLES AND OBTAIN MORE BACTERIOLOGICAL CLEARANCES. PRIOR TO INTRODUCING THE CHLORINE SOLUTION, THE LINES SHALL BE THOROUGHLY FLUSHED WITH CLEAN WATER UTILIZING FULL PIPE DIAMETER FLUSHING FOR PIPE UP TO AND INCLUDING 4" TO AND INCLUDING 8" TO AND INCLUDING 12" AND BE RESPONSIBLE FOR DECHLORINATION OF THE DISINFECTANT WATER PRIOR TO ANY DISCHARGE TO ANY DITCH OR SURFACE WATERS.
- BACTERIOLOGICAL SAMPLING: CONTRACTOR SHALL ASSURE THE PROJECT CONSTRUCTION IS COMPLETELY FINISHED PRIOR TO ANY BACTERIOLOGICAL SAMPLING AND TESTING.
- ABANDONMENT OF EXISTING MAINS AND APPURTENANCES: EXISTING WATER MAINS TO BE ABANDONED IN PLACE SHALL BE PHYSICALLY SEPARATED BY A MINIMUM OF 12" AND A 24" LONG 2500 PSI CONCRETE PLUG INSTALLED. ALL VALVES TO BE ABANDONED SHALL BE CLOSED AND THE ENTIRE VALVE BOX REMOVED.

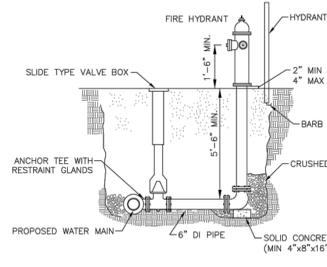
GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION OR SUBSEQUENT REHABILITATION DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE OWNER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
- THERE SHALL BE NO CLAIM AGAINST THE OWNER MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS, AS MAY BE REQUIRED, DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT. THE CONTRACTOR SHALL NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES, WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR, AS ORDERED BY THE ENGINEER, AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF REPLACEMENT PROJECTS, THE EXACT EXTENT OF REPLACEMENT WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING STRUCTURES CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THIS WORK. ALL DAMAGE TO THE EXISTING STRUCTURES WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL CONDUCT HIS REMOVAL OPERATIONS TO THE SATISFACTION OF THE ENGINEER SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A LEGAL DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE PRICE BID.
- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING, TO BECOME FAMILIAR WITH THE FIELD CONDITIONS AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO INCLUDE IN THEIR BID ALL ITEMS AND MATERIALS WHICH THEY ARE REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL WORK AREAS AT THE SITE SHALL BE COMPLETELY SECURED, CONFORMING WITH OSHA REGULATIONS, TO THE SATISFACTION OF THE ENGINEER, TO PROTECT THE PUBLIC AND PREVENT UNAUTHORIZED ENTRY. THE COST OF THIS WORK IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITHIN THE TIME FRAME STIPULATED IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKE OUT FOR THIS PROJECT. THE COST FOR THE SURVEY AND STAKE OUT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THE CONTRACT.
- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO, THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, THEY SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE THE WORK OPERATION UNTIL SERVICE IS RESTORED.
- THE CONTRACTOR SHALL CALL DIG SAFELY NEW YORK (DSNY) (1-800-962-7962) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION TO HAVE EXISTING UNDERGROUND UTILITIES LOCATED IN THE FIELD. CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ALL UTILITY LOCATIONS THROUGHOUT PROJECT.
- AREAS DISTURBED BY THE CONTRACTOR AS PART OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO PRECONSTRUCTION STANDARDS AND TO THE SATISFACTION OF THE ENGINEER. ALL THE DISTURBED GRASS AREAS SHALL BE GRADED AND SEEDED IN A MANNER APPROVED BY THE ENGINEER.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION AND DUST CONTROL AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT, IF REQUIRED, FOR REVIEW TO THE ENGINEER A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- AS-BUILT DRAWINGS: DURING THE DAILY PROGRESS OF WORK, THE CONTRACTOR'S JOB SUPERINTENDENT SHALL RECORD ON THE FIELD SET OF DRAWINGS ALL WORK INSTALLED. ALL PIPING, VALVES, FITTINGS, FIRE HYDRANTS, ETC. SHALL BE LOCATED IN TWO DIRECTIONS. ONE LOCATION SHALL BE REFERENCED PERPENDICULAR TO THE RIGHT OF WAY LINES AND/OR PROPERTY LINES (PREFERABLY BOTH). SIZE, TYPE, AND CLASS OF WATER MAINS, VALVES, FITTINGS, FIRE HYDRANTS, ETC. SHALL BE SHOWN (I.E. 8" CL 52 D.I.P., 6" GATE VALVE). ALL LOCATIONS WHERE THE TOP OF THE WATER MAIN IS LESS THAN 60" DEEP OR MORE THAN 96" DEEP SHALL BE NOTED ON THE AS-BUILTS.
- CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD: CONTRACTOR SHALL WARRANTY OWNER AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. THE CONTRACTOR SHALL PROVIDE A WRITTEN AND FULLY ASSIGNABLE WARRANTY THAT THE SYSTEM INSTALLED WILL BE AND REMAIN FREE FROM ALL DEFECTS, LATENT OR OTHERWISE WITH RESPECT TO WORKMANSHIP, MATERIALS, INSTALLATION, AND ACCURACY OF THE AS-BUILT DRAWINGS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE BENEFICIAL USE OF THE FACILITIES.
- CLEAN-UP: ALL SURPLUS MATERIALS OF CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AS PART OF THE PRECONTRACT WITH THE OWNER.
- PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR PERFORMING WORK UNDER HIS CONTRACT, EXCEPT THAT THE NYSDOT PERMITS, NYSDOH PERMITS, AND METLAND PERMITS, IF REQUIRED, WILL BE SECURED BY THE OWNER.
- DEWATERING: THE CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AMPLE MEANS AND EQUIPMENT WITH WHICH TO PROMPTLY REMOVE AND DISPOSE OF ALL WATER ENTERING THE TRENCH AND STRUCTURE EXCAVATIONS AND SHALL KEEP SAID EXCAVATIONS ACCEPTABLY DRY, UNTIL THE PIPING AND/OR STRUCTURES TO BE BUILT THEREIN ARE COMPLETED. ALL WATER PUMPED OR DRAINED FROM THE WORK AREA SHALL BE DISPOSED OF IN A MANNER AS TO NOT DAMAGE SEWER, WATER, ELECTRICAL OR ANY OTHER PIPING STRUCTURES OR PROPERTY. NO PIPE SHALL BE LAID IN WATER AND NO WATER SHALL BE ALLOWED TO RISE ABOVE THE BOTTOM OF ANY PIPE WHILE IT IS BEING JOINTED. DEWATERING WITH UP TO A 4" PUMP SHALL BE INCLUDED IN THE CONTRACT PRICE. ADDITIONAL COMPENSATION FOR DEWATERING THAT REQUIRES LARGER PUMPS, WELLPOINTS, OR OTHER METHODS SHALL BE APPROVED BY THE ENGINEER AND THE OWNER PRIOR TO INSTALLATION.
- CONCRETE: ALL PORTLAND CEMENT CONCRETE MIXES SHALL BE APPROVED IN ADVANCE BY THE ENGINEER. ALL CONCRETE SHALL BE PLACED BEFORE THE INITIAL SET HAS TAKEN PLACE. STALE OR RETEMPERED CONCRETE SHALL NOT BE USED. CONCRETE USED FOR PIPE PLUGS SHALL BE 2500 PSI MINIMUM. CONCRETE USED FOR ALL OTHER PURPOSES SHALL BE 4000 PSI MINIMUM.
- SEPARATION OF WATER AND SEWER MAINS: A HORIZONTAL SEPARATION OF A MINIMUM OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER MAINS AND SANITARY SEWERS (INCLUDING FORCE MAINS) WHERE PRACTICAL. THE PROJECT ENGINEER MUST APPROVE ANY CROSSINGS WHERE WATER MAINS AND SANITARY SEWERS CROSS WITH LESS THAN 18" VERTICAL CLEARANCE.
- NEW CONNECTION TO EXISTING MAIN: NEW CONNECTIONS, WHEN NOTED, TO EXISTING MAIN IN SERVICE SHALL BE ACCOMPLISHED BY THE "WET TAP" METHOD UTILIZING FULL CIRCUIT STAINLESS STEEL TAPPING SLEEVE AND MECHANICAL JOINT TAPPING VALVE. TAPPING SLEEVE SHALL BE RATED AT 200 PSI, NON-SHOCK WORKING PRESSURE CONFORMING TO AWWA STANDARD C110, LATEST REVISION. 90MM SS3 OR JCM 432, STAINLESS STEEL TAPPING SLEEVE WITH DUCTILE IRON FLANGE IS PREFERRED. TAPPING VALVE SHALL BE MECHANICAL JOINT ONE END AND STANDARD FLANGED JOINT ON OTHER END.
- JOBSITE SAFETY: WHILE ON THE JOBSITE, THE CONTRACTOR SHALL AT ALL TIMES OBSERVE ALL FEDERAL, STATE, AND LOCAL SAFETY RULES, REGULATIONS AND LAWS.



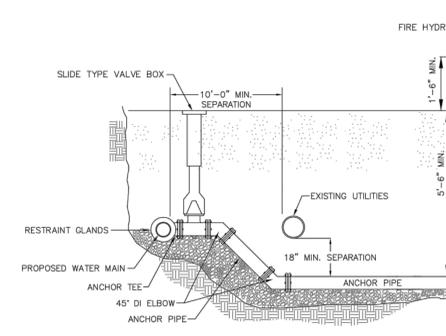
- NOTES:**
- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
- | SIEVE DESIGNATION | % PASSING |
|-------------------|-----------|
| 3/4" | 100% |
| NO. 40 | 0-70% |
| NO. 200 | 0-10% |
- TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
- | SIEVE DESIGNATION | % PASSING |
|-------------------|-----------|
| 4" | 100% |
| NO. 40 | 0-70% |
| NO. 200 | 0-10% |
- IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.
- INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW UNDER UNDER PAVEMENTS & SLAB.
 - TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
 - 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

- NOTES:**
- DUCTILE IRON WATERMAIN PIPE SHALL CONFORM TO ANSI A21.51 OR AWWA 502 CLASS 2 (52) THICKNESS DESIGNATION, CASTINGS, MARKINGS, TESTING AND INSTALLATION STANDARDS.
 - HYDRANT BACKFILL SHALL BE PROVIDED AS NECESSARY AT NO ADDITIONAL COST.
 - AT LOCATIONS OF HIGH GROUNDWATER, HYDRANT DRIP RODS SHALL BE PLUGGED.
 - FIBERGLASS MARKERS SHALL BE 4" WITH HEAVY COIL SPRING AND WITH "L" MOUNTING BRACKET



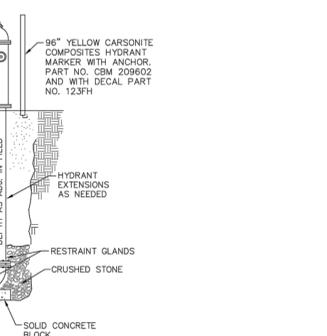
3 TOWN OF GUILDERLAND TYPICAL HYDRANT DETAIL
SCALE: NOT TO SCALE

1 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE



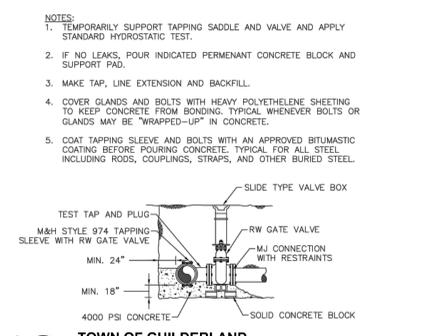
- NOTES:**
- DUCTILE IRON WATERMAIN PIPE SHALL CONFORM TO ANSI A21.51 OR AWWA C502 CLASS 2 (52) THICKNESS DESIGNATION, CASTINGS, MARKINGS, TESTING AND INSTALLATION STANDARDS.
 - HYDRANT EXTENSIONS SHALL BE PROVIDED AS NECESSARY AT NO ADDITIONAL COST.
 - AT LOCATIONS OF HIGH GROUNDWATER, HYDRANT DRIP RODS SHALL BE PLUGGED.

3 TOWN OF GUILDERLAND TYPICAL CROSSING UTILITIES DETAIL
SCALE: NOT TO SCALE

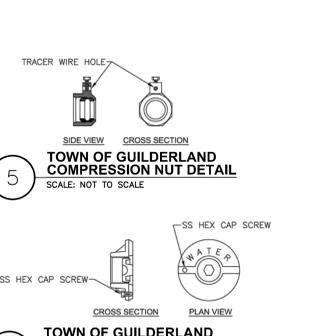


- NOTES:**
- VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
 - USE VALVE BOX ALIGNER.
 - ALL BOLTS AND NUTS SHALL BE 304 SS WITH ANTI-SIZE PER SPECS

5 TOWN OF GUILDERLAND CURB BOX LID DETAIL
SCALE: NOT TO SCALE



4 TOWN OF GUILDERLAND TAPPING SLEEVE AND VALVE DETAIL
SCALE: NOT TO SCALE

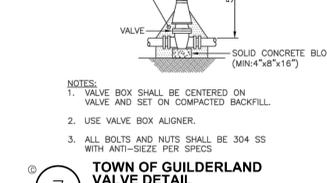


6 TOWN OF GUILDERLAND TEE THRUST BLOCK DETAIL
SCALE: NOT TO SCALE

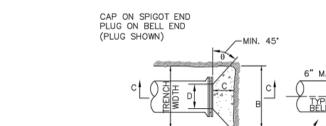


TABLE NO. 1 THRUST BLOCK AREA REQUIRED

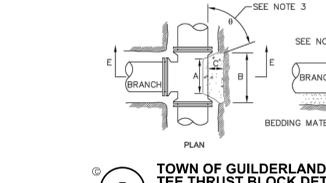
NOMINAL PIPE DIAMETER	DEAD END AND TEES
4	2.0
6	3.0
8	5.0
10	8.0
12	12.0



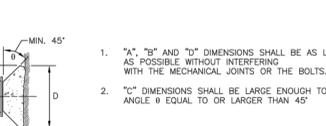
7 TOWN OF GUILDERLAND TEE THRUST BLOCK DETAIL
SCALE: NOT TO SCALE



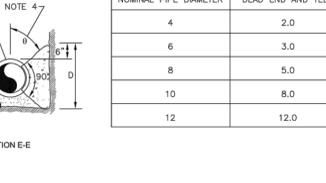
- NOTES:**
- TEMPORARILY SUPPORT TAPPING SADDLE AND VALVE AND APPLY STANDARD HYDROSTATIC TEST.
 - IF NO LEAKS, POUR INDICATED PERMANENT CONCRETE BLOCK AND SUPPORT PAD.
 - MAKE TAP, LINE EXTENSION AND BACKFILL.
 - COVER GLANDS AND BOLTS WITH HEAVY POLYETHYLENE SHEETING TO KEEP CONCRETE FROM BONDING. TYPICAL WHENEVER BOLTS OR GLANDS MAY BE "WRAPPED-UP" IN CONCRETE.
 - COAT TAPPING SLEEVE AND BOLTS WITH AN APPROVED BITUMASTIC COATING BEFORE POURING CONCRETE. TYPICAL FOR ALL STEEL INCLUDING RODS, COUPLINGS, STRAPS, AND OTHER BURIED STEEL.



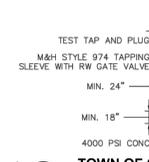
5 TOWN OF GUILDERLAND VALVE DETAIL
SCALE: NOT TO SCALE



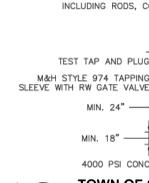
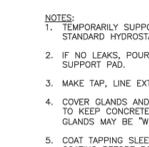
- NOTES:**
- VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
 - USE VALVE BOX ALIGNER.
 - ALL BOLTS AND NUTS SHALL BE 304 SS WITH ANTI-SIZE PER SPECS



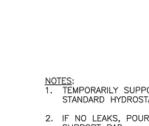
6 TOWN OF GUILDERLAND VALVE DETAIL
SCALE: NOT TO SCALE



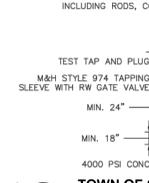
4 TOWN OF GUILDERLAND TAPPING SLEEVE AND VALVE DETAIL
SCALE: NOT TO SCALE



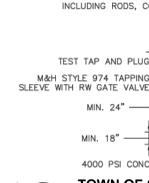
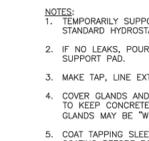
5 TOWN OF GUILDERLAND CURB BOX LID DETAIL
SCALE: NOT TO SCALE



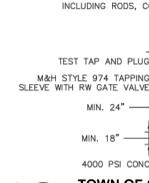
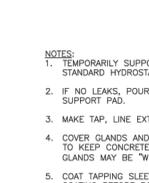
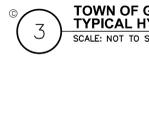
- NOTES:**
- VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
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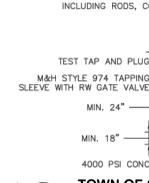
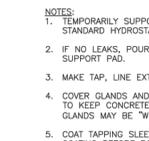
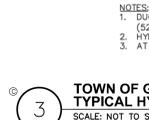
6 TOWN OF GUILDERLAND TEE THRUST BLOCK DETAIL
SCALE: NOT TO SCALE



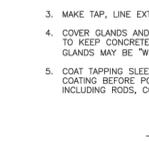
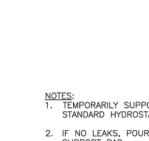
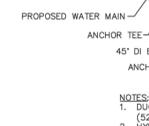
5 TOWN OF GUILDERLAND CURB BOX LID DETAIL
SCALE: NOT TO SCALE



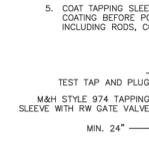
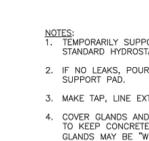
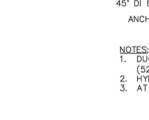
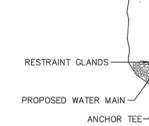
4 TOWN OF GUILDERLAND TAPPING SLEEVE AND VALVE DETAIL
SCALE: NOT TO SCALE



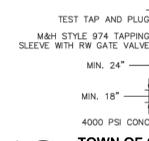
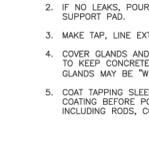
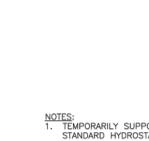
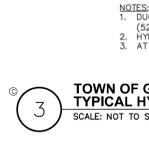
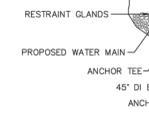
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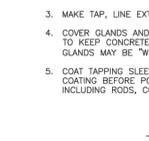
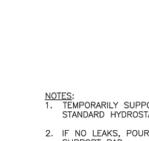
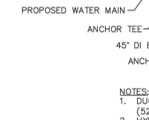
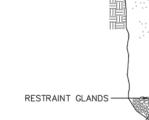
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SCALE: NOT TO SCALE



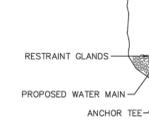
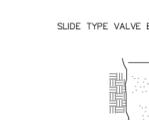
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SCALE: NOT TO SCALE



4 TOWN OF GUILDERLAND TAPPING SLEEVE AND VALVE DETAIL
SCALE: NOT TO SCALE



5 TOWN OF GUILDERLAND CURB BOX LID DETAIL
SCALE: NOT TO SCALE



It is a violation of New York Education Law Article 145 Sec. 7.209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered" followed by their signature and date of such alteration, and a specific description of the alteration.

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UG FAMILY, LLC
AN AFFILIATE OF THE UNITED GROUP OF COMPANIES
300 JORDAN ROAD, TROY, NY 12180



THE APEX AT CROSSGATES
RAPP ROAD
TOWN OF GUILDERLAND, NY 12203

LANDSCAPING DETAILS & NOTES

DEVELOPER / APPLICANT:
UG FAMILY, LLC
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300 JORDAN ROAD
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(518) 687-7300

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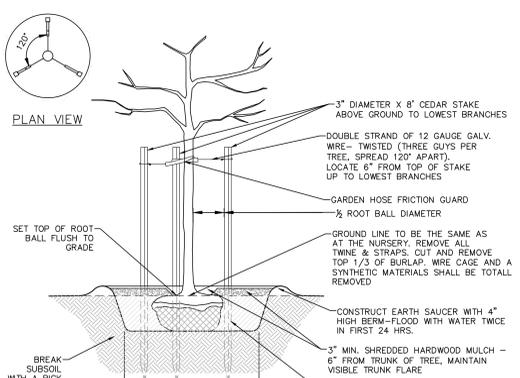
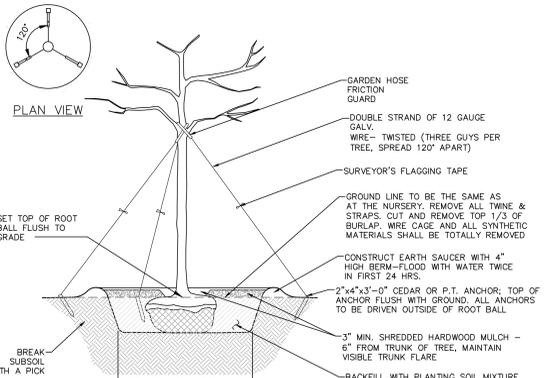
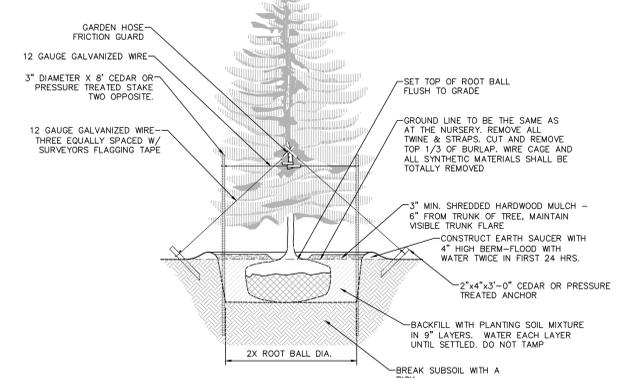
JEFFERY SMETANA
(518) 687-7315
JEFF.SMETANA@GJOC.COM

C580

LANDSCAPING NOTES:

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
- THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND LINES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
- NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- QUALITY ASSURANCE:
 - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
 - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, WOODRUSH PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPORTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEATED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 30.
 - UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
 - AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY RESTORATION ACTIVITIES WHERE SEED MIXES OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PRIOR TO STABILIZING VEGETATION COVER, THE CONTRACTOR SHALL PROVIDE FRESH, CLEAN, NEW-DROP SEED MIXTURE COVER CROPS FOR TYPES AND DATES OF USAGE WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
- CONSERVATION SEED MIXTURE:
 - PROVIDE FRESH, CLEAN, NEW-DROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:

% SPECIES
55% <i>Schizanthus scopolorum</i> (Little Bluestem, Albany Pinebush-NY Ecotype)
25% <i>Andropogon gerardii</i> (Big Bluestem)
10% <i>Agrisotis perennis</i> (Autumn Berggrass, Albany Pinebush-NY Ecotype)
10% <i>Sorghastrum nutans</i> (Indian grass)
 - SEEDING RATE:
 - 20 LB PER ACRE WITH A COVER CROP.
 - COVER CROP:
 - USE ONE OF THE FOLLOWING:
 - (1 SEP TO 30 APR: 30 LBS/ACRE); GRAIN RYE
 - (1 MAY TO 31 AUG; 10 LBS/ACRE); JAPANESE MILLET
 - (1 MAY TO 31 AUG; 10 LBS/ACRE); BARNYARD GRASS
 - SITE PREPARATION:
 - INVASIVE SPECIES, PARTICULARLY THOSE THAT WILL ADAPT TO WET CONDITIONS, SHOULD BE REMOVED OR SPRAYED WITH AN APPROVED HERBICIDE BEFORE BECOMING INCORPORATED INTO THE SITE. PERENNIAL WEEDS NOT ADDRESSED BEFORE ESTABLISHMENT WILL BE DIFFICULT TO REMOVE LATER. NORMAL VEGETATION CAN BE WORKED INTO THE TOPSOIL, WHICH SHOULD BE STOCKPILED UNTIL THE FINAL GRADE HAS BEEN ESTABLISHED.
 - WITH THE SPECIFICATIONS AND DIMENSIONS, ON-SITE CONSTRUCTION OF THE BERM AND OUTLETS MUST BE EXECUTED CAREFULLY TO MAINTAIN STRUCTURAL INTEGRITY, THE INFILTRATION AND PLANT GROWTH AREAS SHOULD BE LOOSE AND FRABLE. HIGH IN ORGANIC MATTER AND COMPLETED WITHOUT COMPACTION FROM HEAVY EQUIPMENT. PRIOR TO USING THE DIG AND "DROP METHOD", ONE CAN USE AN EXCAVATOR TO DIG AND DROP EACH AREA OF THE BOTTOM SOIL IN A LOOSE MANNER. AT THIS POINT, LIMING AND/OR LEAF LITTER AND/OR GRASS CLIPPINGS CAN BE INCORPORATED. THE EXCAVATION MACHINE DOES NOT MOVE OVER THE FINISHED SURFACE. THIS AVOIDS THE UNNECESSARY COMPACTION. NATIVE VEGETATION CAN BE PLANTED OR SEEDED OVER THIS UNEVEN ABSORBENT SURFACE.
 - INVASIVE WEEDS SHOULD BE REMOVED OR SPRAYED WITH AN APPROVED HERBICIDE BEFORE BECOMING INCORPORATED INTO THE SITE. PERENNIAL WEEDS NOT ADDRESSED BEFORE ESTABLISHMENT WILL BE DIFFICULT TO REMOVE LATER. NORMAL VEGETATION CAN BE WORKED INTO THE TOPSOIL, WHICH SHOULD BE STOCKPILED UNTIL THE FINAL GRADE HAS BEEN ESTABLISHED.
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NOTES:
1. SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS.
2. TREES LESS THAN 3\"/>

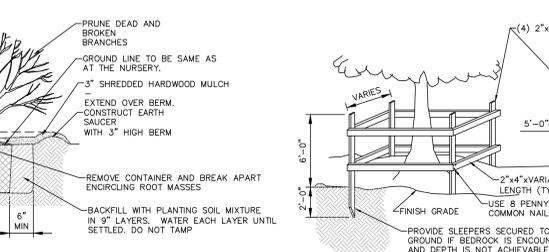
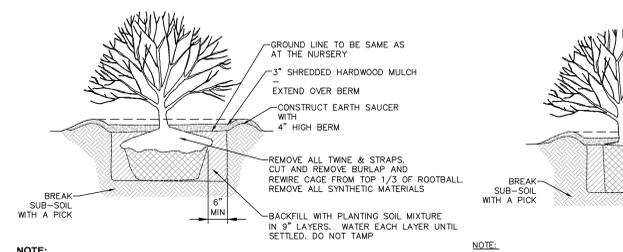
NOTES:
STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING

NOTES:
STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING

1 EVERGREEN PLANTING DETAIL
SCALE: NOT TO SCALE

2 PLANTING AND GUYING DETAILS FOR TREES 3\"/>

3 PLANTING AND GUYING DETAILS FOR TREES SMALLER THAN 3\"/>

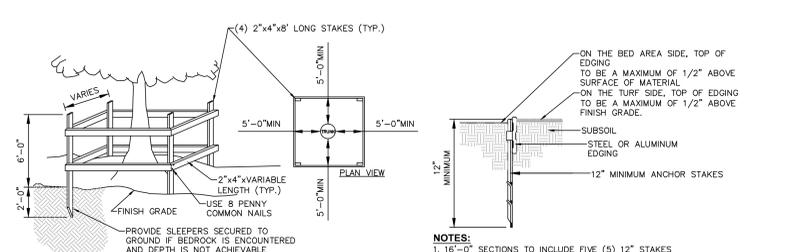


NOTE:
SPRAY WITH ANTI DESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

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SPRAY WITH ANTI DESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

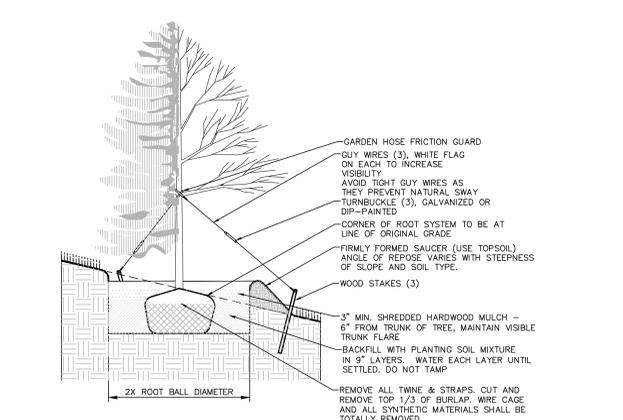
4 SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED
SCALE: NOT TO SCALE

5 SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS
SCALE: NOT TO SCALE



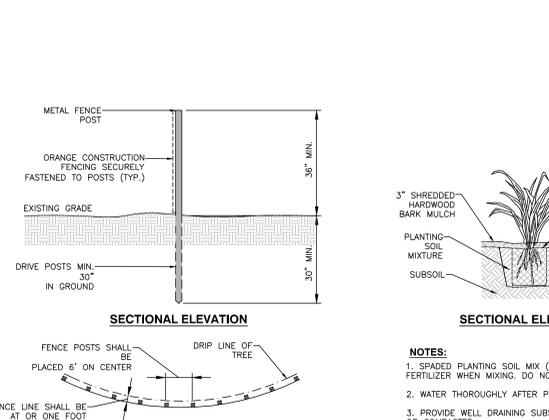
NOTE:
LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

6 TEMPORARY TREE PROTECTION DETAIL
SCALE: NOT TO SCALE



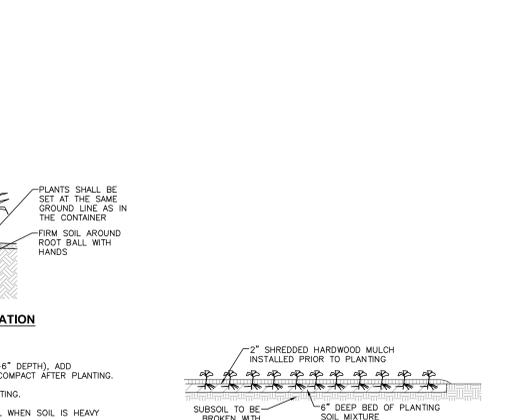
NOTE:
1. 16\"/>

7 LANDSCAPE BED EDGING
SCALE: NOT TO SCALE



NOTE:
DETAIL SHALL BE UTILIZED FOR DECIDUOUS AND CONIFEROUS TREE PLANTING ON SLOPE.

8 TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



NOTE:
SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

9 TREE PROTECTION FENCING DETAIL
SCALE: NOT TO SCALE



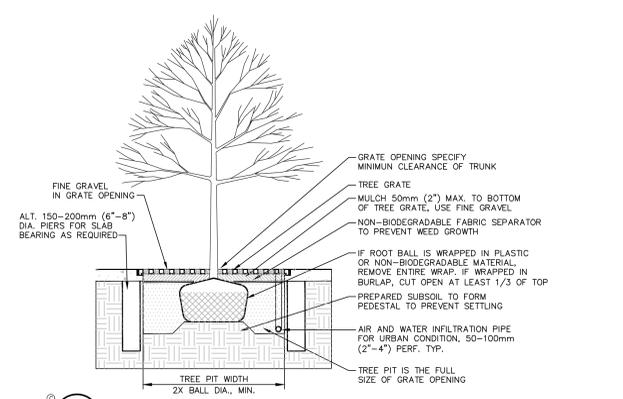
NOTE:
1. SPADED PLANTING SOIL MIX (4\"/>

10 CONTAINERIZED PERENNIAL PLANTING
SCALE: NOT TO SCALE



NOTE:
GROUND COVERS SHOULD BE POT OR CONTAINER GROWN.

11 GROUND COVER/ANNUAL PLUG PLANTING
SCALE: NOT TO SCALE



12 DECIDUOUS TREE PLANTING IN PAVEMENT WITH METAL GRATE
SCALE: NOT TO SCALE

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