

NO.	DATE	REVISED PER TOWNSHIP ENGINEER COMMENTS	BY
1	02/05/21		

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OWNER: DJS
 DESIGNER: JCS
 CHECKED BY: JCS

PROJECT: ELITE PROPERTIES
 PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 624 VALLEY ROAD (C.R. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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JOSEPH G. JAWORSKI
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 36618

BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 41985

TITLE: GRADING PLAN

SCALE: (H) 1" = 30'
 (V) 1" = 10'
 DATE: 06/07/2020
 PROJECT NO: 0555-99-010

SHEET NO: 6 OF 21

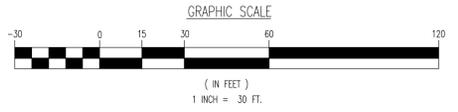
BUILDING HEIGHT SUMMARY TABLE

POINT #	GRADE ELEVATION
BLDG 1	221.00
BLDG 2	222.50
BLDG 3	222.50
BLDG 4	222.50
BLDG 5	222.50
BLDG 6	222.50
BLDG 7	220.00
BLDG 8	220.00
BLDG 9	225.00
BLDG 10	225.00
BLDG 11	224.04
BLDG 12	220.00
BLDG 13	219.00
BLDG 14	220.00
BLDG 15	220.50
BLDG 16	220.00
BLDG 17	220.00
BLDG 18	220.00
BLDG 19	220.00
BLDG 20	220.00

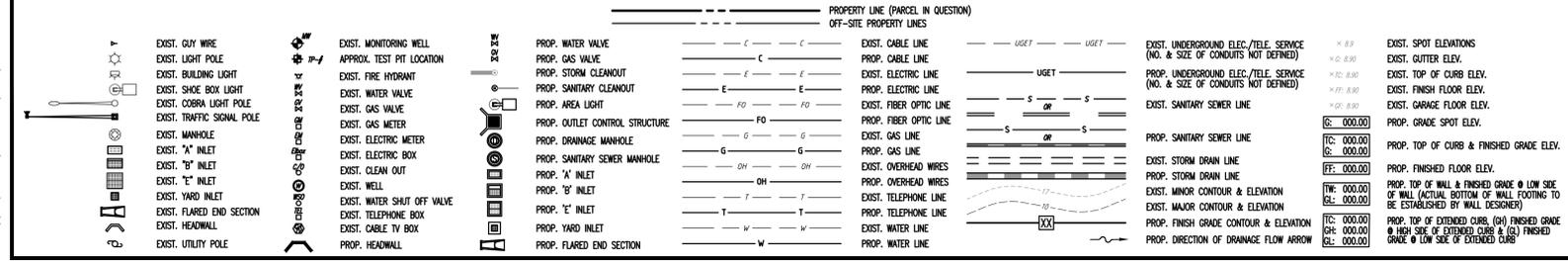
BUILDING AVERAGE GRADE: 221.56
 FINISH FLOOR ELEV.: 220.00
 BUILDING ROOF MIDPOINT: 221.50
 BUILDING HEIGHT: (221.50-221.56) 49.94

SEE SHEET 6 OF 21 FOR ADA GRADING INSETS

SEE SHEET 3 OF 21 FOR GRADING NOTES

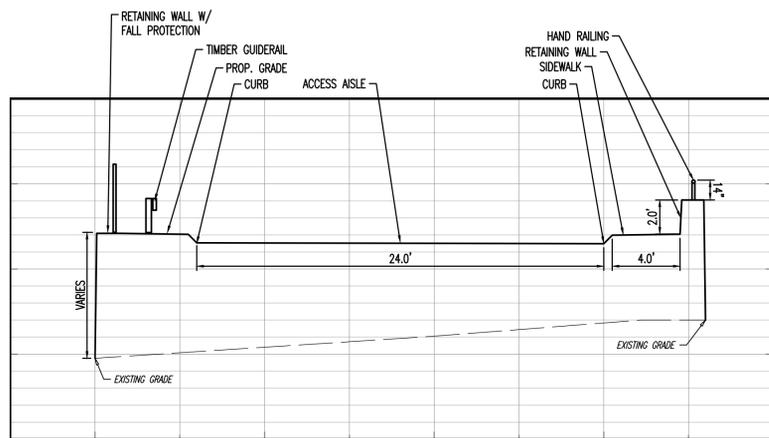


GRADING/UTILITY GRAPHIC LEGEND

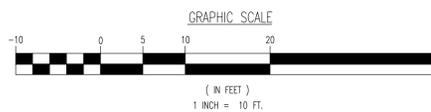
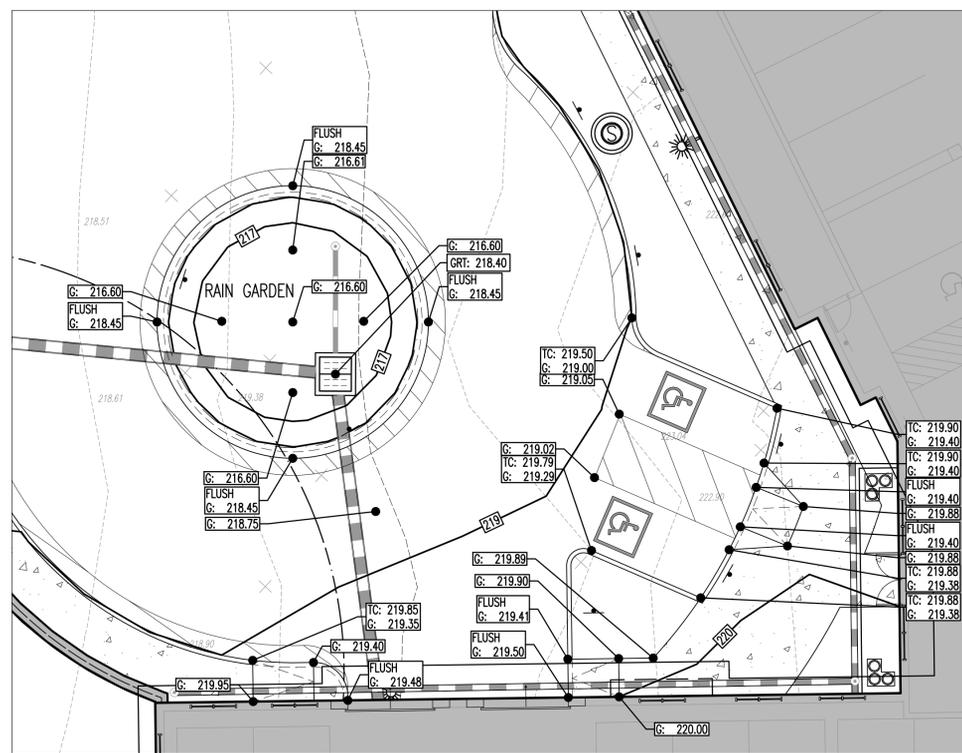
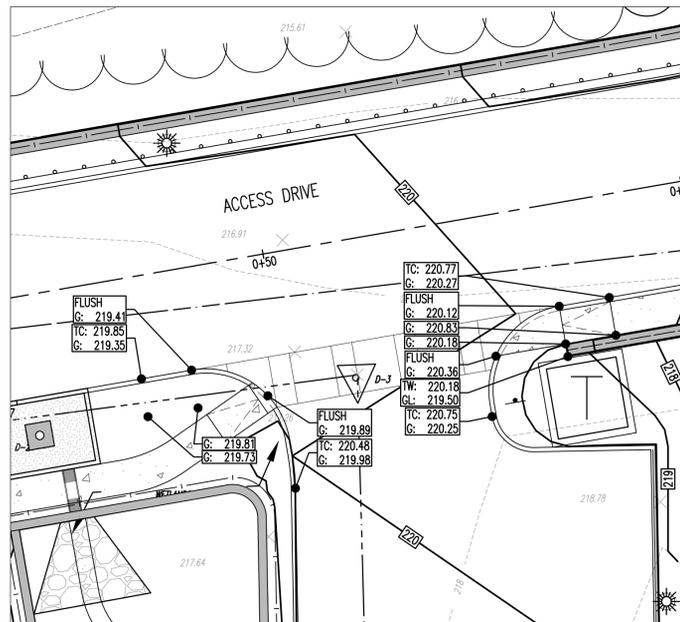


Plotted: 02/05/21 - 12:04 PM, By: dsanderson
 File: \\desp-local\desp-local\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\0555990105X.dwg, --- 06 GRADING PLAN
 COPYRIGHT © 2021 - DYNAMIC ENGINEERING CONSULTANTS, PC - ALL RIGHTS RESERVED

Plotted: 02/05/21 - 12:04 PM, By: dsanderson
 File: \\deepa\local\defolders\data\DEEPC PROJECTS\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\0555990\OSDP.dwg, -----> 07 ADA GRADING & ACCESS DRIVE SECTION



TYPICAL ACCESS DRIVE SECTION
 HORIZONTAL SCALE: 1"=5'
 VERTICAL SCALE: 1"=5'



GRADING/UTILITY GRAPHIC LEGEND

- PROPERTY LINE (PARCEL IN QUESTION)
- OFF-SITE PROPERTY LINES
- C --- C --- EXIST. CABLE LINE
- E --- E --- PROP. CABLE LINE
- E --- E --- EXIST. ELECTRIC LINE
- E --- E --- PROP. ELECTRIC LINE
- FO --- FO --- EXIST. FIBER OPTIC LINE
- FO --- FO --- PROP. FIBER OPTIC LINE
- G --- G --- EXIST. GAS LINE
- G --- G --- PROP. GAS LINE
- OH --- OH --- EXIST. OVERHEAD WIRES
- OH --- OH --- PROP. OVERHEAD WIRES
- T --- T --- EXIST. TELEPHONE LINE
- T --- T --- PROP. TELEPHONE LINE
- W --- W --- EXIST. WATER LINE
- W --- W --- PROP. WATER LINE
- UGET --- UGET --- EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- UGET --- UGET --- PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- S --- S --- EXIST. SANITARY SEWER LINE
- S --- S --- PROP. SANITARY SEWER LINE
- SD --- SD --- EXIST. STORM DRAIN LINE
- SD --- SD --- PROP. STORM DRAIN LINE
- --- --- EXIST. MINOR CONTOUR & ELEVATION
- --- --- EXIST. MAJOR CONTOUR & ELEVATION
- --- --- PROP. FINISH GRADE CONTOUR & ELEVATION
- --- --- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- --- --- EXIST. SPOT ELEVATIONS
- --- --- EXIST. TOP OF CURB ELEV.
- --- --- EXIST. FINISH FLOOR ELEV.
- --- --- EXIST. GARAGE FLOOR ELEV.
- --- --- PROP. GRADE SPOT ELEV.
- --- --- PROP. TOP OF CURB & FINISHED GRADE ELEV.
- --- --- PROP. FINISHED FLOOR ELEV.
- --- --- PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
- --- --- PROP. TOP OF EXTENDED WALL (FIN. FINISHED GRADE @ HIGH SIDE OF WALL (C) & FINISHED GRADE @ LOW SIDE OF WALL (G) (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
- --- --- PROP. TOP OF EXTENDED CURB (TC), FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB (G) & FINISHED GRADE @ LOW SIDE OF EXTENDED CURB (LA)
- --- --- EXIST. GUY WIRE
- --- --- EXIST. LIGHT POLE
- --- --- EXIST. BUILDING LIGHT
- --- --- EXIST. SHOE BOX LIGHT
- --- --- EXIST. COBRA LIGHT POLE
- --- --- EXIST. TRAFFIC SIGNAL POLE
- --- --- EXIST. MANHOLE
- --- --- EXIST. "A" INLET
- --- --- EXIST. "B" INLET
- --- --- EXIST. "E" INLET
- --- --- EXIST. YARD INLET
- --- --- EXIST. FLARED END SECTION
- --- --- EXIST. HEADWALL
- --- --- EXIST. MONITORING WELL
- --- --- APPROX. TEST PIT LOCATION
- --- --- EXIST. FIRE HYDRANT
- --- --- EXIST. WATER VALVE
- --- --- EXIST. GAS VALVE
- --- --- EXIST. GAS METER
- --- --- EXIST. ELECTRIC METER
- --- --- EXIST. ELECTRIC BOX
- --- --- EXIST. CLEAN OUT
- --- --- EXIST. WELL
- --- --- EXIST. WATER SHUT OFF VALVE
- --- --- EXIST. TELEPHONE BOX
- --- --- EXIST. CABLE TV BOX
- --- --- EXIST. UTILITY POLE
- --- --- PROP. WATER VALVE
- --- --- PROP. GAS VALVE
- --- --- PROP. STORM CLEANOUT
- --- --- PROP. SANITARY CLEANOUT
- --- --- PROP. AREA LIGHT
- --- --- PROP. OUTLET CONTROL STRUCTURE
- --- --- PROP. DRAINAGE MANHOLE
- --- --- PROP. SANITARY SEWER MANHOLE
- --- --- PROP. "A" INLET
- --- --- PROP. "B" INLET
- --- --- PROP. "E" INLET
- --- --- PROP. YARD INLET
- --- --- PROP. FLARED END SECTION
- --- --- PROP. HEADWALL



NO.	DATE	REVISIONS	COMMENTS
1	02/05/21	REVISED PER TOWNSHIP ENGINEER COMMENTS	

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY: JCSJ
 CHECKED BY: JCSJ
 DRAWN BY: A/LW
 REVISION BY: WEB

PROJECT: **ELITE PROPERTIES**
PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 62A VALLEY ROAD (C.R. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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JOSEPH G. JAWORSKI
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE No. 36618

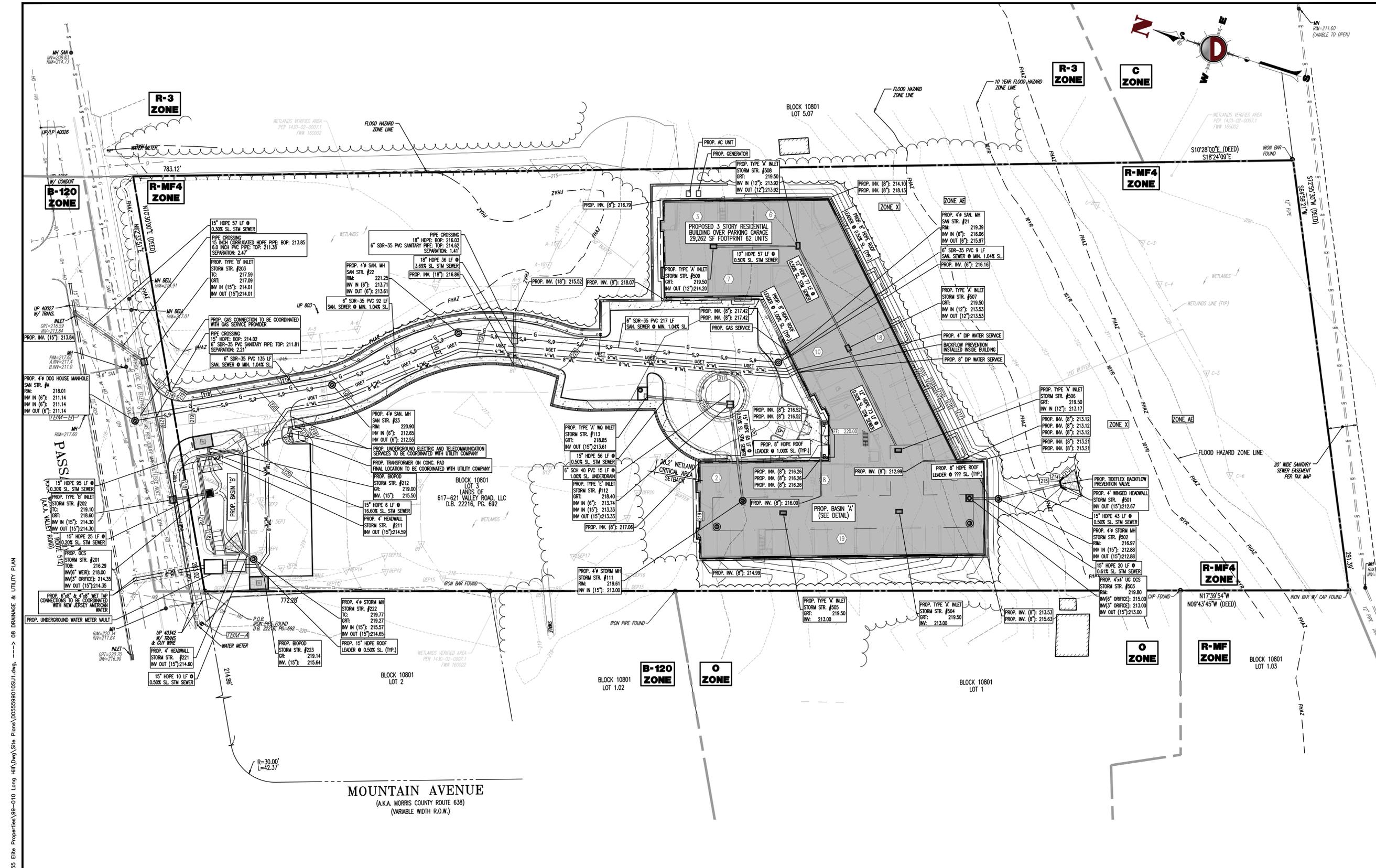
BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE No. 41985

TITLE: **ADA GRADING & ACCESS DRIVE SECTION**

SCALE: (H) AS SHOWN DATE: 08/07/2020
 PROJECT No: 0555-99-010

SHEET No: **7** OF 21
 Rev. #: 1

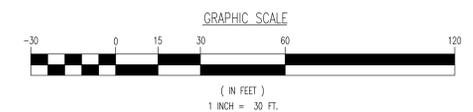
SEE SHEET 6 OF 21 FOR ADA GRADING NOTES



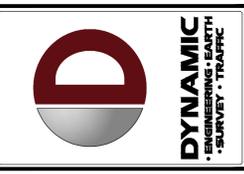
MOUNTAIN AVENUE
 (A.K.A. MORRIS COUNTY ROUTE 638)
 (VARIABLE WIDTH R.O.W.)

GRADING/UTILITY GRAPHIC LEGEND

<p>EXIST. GUY WIRE</p> <p>EXIST. LIGHT POLE</p> <p>EXIST. BUILDING LIGHT</p> <p>EXIST. SHOE BOX LIGHT</p> <p>EXIST. COBRA LIGHT POLE</p> <p>EXIST. TRAFFIC SIGNAL POLE</p> <p>EXIST. MANHOLE</p> <p>EXIST. "A" INLET</p> <p>EXIST. "B" INLET</p> <p>EXIST. "C" INLET</p> <p>EXIST. YARD INLET</p> <p>EXIST. FLARED END SECTION</p> <p>EXIST. HEADWALL</p> <p>EXIST. UTILITY POLE</p>	<p>EXIST. MONITORING WELL</p> <p>APPROX. TEST PIT LOCATION</p> <p>EXIST. FIRE HYDRANT</p> <p>EXIST. WATER VALVE</p> <p>EXIST. GAS VALVE</p> <p>EXIST. ELECTRIC METER</p> <p>EXIST. ELECTRIC BOX</p> <p>EXIST. CLEAN OUT</p> <p>EXIST. WELL</p> <p>EXIST. WATER SHUT OFF VALVE</p> <p>EXIST. TELEPHONE BOX</p> <p>EXIST. CABLE TV BOX</p> <p>PROP. HEADWALL</p>	<p>PROP. WATER VALVE</p> <p>PROP. GAS VALVE</p> <p>PROP. STORM CLEANOUT</p> <p>PROP. SANITARY CLEANOUT</p> <p>PROP. AREA LIGHT</p> <p>PROP. OUTLET CONTROL STRUCTURE</p> <p>PROP. DRAINAGE MANHOLE</p> <p>PROP. SANITARY SEWER MANHOLE</p> <p>PROP. "A" INLET</p> <p>PROP. "B" INLET</p> <p>PROP. "C" INLET</p> <p>PROP. YARD INLET</p> <p>PROP. FLARED END SECTION</p>	<p>EXIST. CABLE LINE</p> <p>PROP. CABLE LINE</p> <p>EXIST. ELECTRIC LINE</p> <p>EXIST. FIBER OPTIC LINE</p> <p>EXIST. GAS LINE</p> <p>EXIST. GAS LINE</p> <p>EXIST. OVERHEAD WIRES</p> <p>PROP. OVERHEAD WIRES</p> <p>EXIST. TELEPHONE LINE</p> <p>EXIST. WATER LINE</p> <p>PROP. WATER LINE</p>	<p>EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)</p> <p>PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)</p> <p>EXIST. SANITARY SEWER LINE</p> <p>PROP. SANITARY SEWER LINE</p> <p>EXIST. STORM DRAIN LINE</p> <p>PROP. STORM DRAIN LINE</p> <p>EXIST. MINOR CONTOUR & ELEVATION</p> <p>EXIST. MAJOR CONTOUR & ELEVATION</p> <p>PROP. FINISH GRADE CONTOUR & ELEVATION</p> <p>PROP. DIRECTION OF DRAINAGE FLOW ARROW</p>	<p>EXIST. SPOT ELEVATIONS</p> <p>EXIST. GUTTER ELEV.</p> <p>EXIST. TOP OF CURB ELEV.</p> <p>EXIST. FINISH FLOOR ELEV.</p> <p>EXIST. GARAGE FLOOR ELEV.</p> <p>PROP. GRADE SPOT ELEV.</p> <p>PROP. TOP OF CURB & FINISHED GRADE ELEV.</p> <p>PROP. FINISHED FLOOR ELEV.</p> <p>PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)</p> <p>PROP. TOP OF EXTENDED CURB (H) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB & (L) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB</p>
--	--	---	--	--	---



SEE SHEET 3 OF 21 FOR DRAINAGE & UTILITY PLAN NOTES



NO.	DATE	REVISIONS	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

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OWNER: AJ
 DESIGNER: JCS
 CHECKED BY: JCS

PROJECT: ELITE PROPERTIES
 PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 624 VALLEY ROAD (CR. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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 Delray Beach, Florida • T: 561.921.8570

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JOSEPH G. JAWORSKI
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 36618

BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 41985

TITLE: **DRAINAGE & UTILITY PLAN**

SCALE: (H) 1" = 30'
 (V) 1" = 10'

DATE: 08/07/2020

PROJECT NO: 0555-99-010

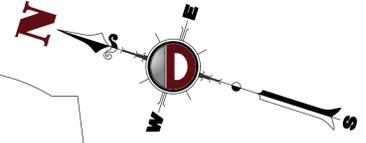
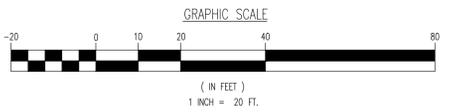
SHEET NO: **8** OF 21

Plotted: 02/05/21 - 12:04 PM, By: dsanderson
 File: \\server\local\deciders\Data\VEPC\PROJECTS\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\055599010SU.dwg, ---> 08 DRAINAGE & UTILITY PLAN

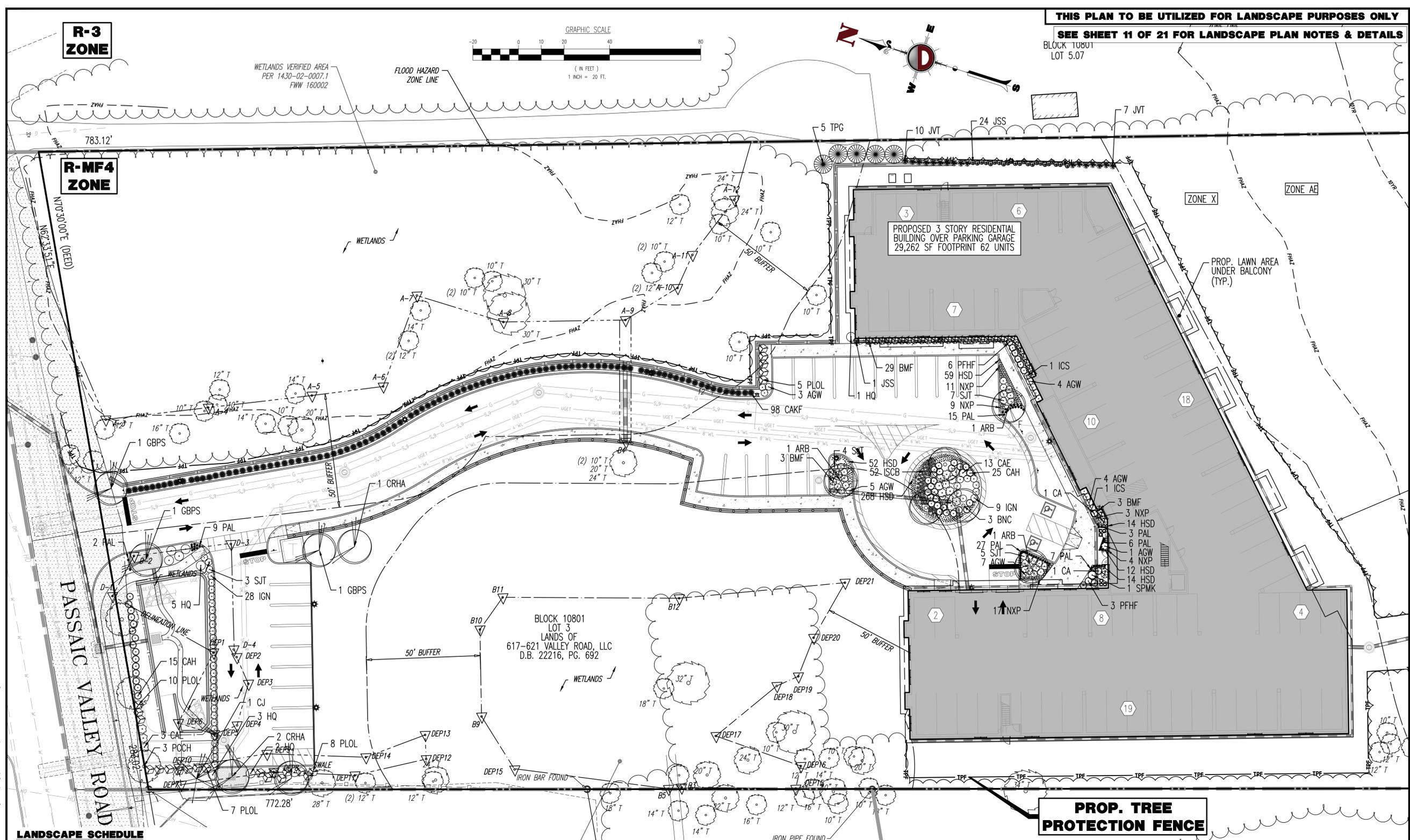
R-3 ZONE

R-MF4 ZONE

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY
SEE SHEET 11 OF 21 FOR LANDSCAPE PLAN NOTES & DETAILS



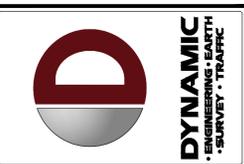
BLOCK 10801
LOT 5.07



LANDSCAPE SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREE(S)																	
ARB	3	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	3-3 1/2" CAL.	B+B	ARB	3	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	3-3 1/2" CAL.	B+B	ARB	3	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	3-3 1/2" CAL.	B+B
CJ	1	CERCIDIPHYLLUM JAPONICUM	JAPANESE KATSURA TREE	3-3 1/2" CAL.	B+B	CJ	1	CERCIDIPHYLLUM JAPONICUM	JAPANESE KATSURA TREE	3-3 1/2" CAL.	B+B	CJ	1	CERCIDIPHYLLUM JAPONICUM	JAPANESE KATSURA TREE	3-3 1/2" CAL.	B+B
GBPS	3	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY BRAND GINKGO	3-3 1/2" CAL.	B+B	GBPS	3	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY BRAND GINKGO	3-3 1/2" CAL.	B+B	GBPS	3	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY BRAND GINKGO	3-3 1/2" CAL.	B+B
POCH	3	PYRUS CALLERYANA 'CHANTICLEER'	CHANTICLEER CALLERY PEAR	3-3 1/2" CAL.	B+B	POCH	3	PYRUS CALLERYANA 'CHANTICLEER'	CHANTICLEER CALLERY PEAR	3-3 1/2" CAL.	B+B	POCH	3	PYRUS CALLERYANA 'CHANTICLEER'	CHANTICLEER CALLERY PEAR	3-3 1/2" CAL.	B+B
ORNAMENTAL TREE(S)																	
BNC	3	BETULA NIGRA 'CULLY'	HERITAGE RIVER BIRCH, MULTI-STEM	8-10'	B+B	BNC	3	BETULA NIGRA 'CULLY'	HERITAGE RIVER BIRCH, MULTI-STEM	8-10'	B+B	BNC	3	BETULA NIGRA 'CULLY'	HERITAGE RIVER BIRCH, MULTI-STEM	8-10'	B+B
CRHA	3	CORNUS RUTBANA 'A'	AURORA DOGWOOD HYBRID	8-10'	B+B	CRHA	3	CORNUS RUTBANA 'A'	AURORA DOGWOOD HYBRID	8-10'	B+B	CRHA	3	CORNUS RUTBANA 'A'	AURORA DOGWOOD HYBRID	8-10'	B+B
EVERGREEN SHRUB(S)																	
JVT	17	JUNIPERUS VIRGINIANA 'TAYLOR'	TAYLOR JUNIPER	8-8 1/2'	B+B	JVT	17	JUNIPERUS VIRGINIANA 'TAYLOR'	TAYLOR JUNIPER	8-8 1/2'	B+B	JVT	17	JUNIPERUS VIRGINIANA 'TAYLOR'	TAYLOR JUNIPER	8-8 1/2'	B+B
EVERGREEN SHRUB(S)																	
CA	2	CLETHRA ALNIFOLIA 'RUBY SPICE'	RUBY SPICE SUMMERSWEET CLETHRA	24-30"	#5 CAN	CA	2	CLETHRA ALNIFOLIA 'RUBY SPICE'	RUBY SPICE SUMMERSWEET CLETHRA	24-30"	#5 CAN	CA	2	CLETHRA ALNIFOLIA 'RUBY SPICE'	RUBY SPICE SUMMERSWEET CLETHRA	24-30"	#5 CAN
CAE	16	CORNUS ALBA 'ELEGANTISSIMA'	VARIEGATED RED TWIG DOGWOOD	2-3'	#5 CAN	CAE	16	CORNUS ALBA 'ELEGANTISSIMA'	VARIEGATED RED TWIG DOGWOOD	2-3'	#5 CAN	CAE	16	CORNUS ALBA 'ELEGANTISSIMA'	VARIEGATED RED TWIG DOGWOOD	2-3'	#5 CAN
CAH	40	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	18-24"	#3 CAN	CAH	40	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	18-24"	#3 CAN	CAH	40	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	18-24"	#3 CAN
HQ	9	HYDRANGEA QUERCIFOLIA 'BRIDO'	SNOWFLAKE OAKLEAF HYDRANGEA	24-30"	#5 CAN	HQ	9	HYDRANGEA QUERCIFOLIA 'BRIDO'	SNOWFLAKE OAKLEAF HYDRANGEA	24-30"	#5 CAN	HQ	9	HYDRANGEA QUERCIFOLIA 'BRIDO'	SNOWFLAKE OAKLEAF HYDRANGEA	24-30"	#5 CAN
PFHF	9	POTENTILLA FRUTICOSA 'KUPINPA'	HAPPY FACE PINK PARADISE CINQUEFOIL	18-24"	#3 CAN	PFHF	9	POTENTILLA FRUTICOSA 'KUPINPA'	HAPPY FACE PINK PARADISE CINQUEFOIL	18-24"	#3 CAN	PFHF	9	POTENTILLA FRUTICOSA 'KUPINPA'	HAPPY FACE PINK PARADISE CINQUEFOIL	18-24"	#3 CAN
SJT	19	SPIREA JAPONICA 'TRACY'	DOUBLE PLAY BIG BANG SPIREA	18-24"	#3 CAN	SJT	19	SPIREA JAPONICA 'TRACY'	DOUBLE PLAY BIG BANG SPIREA	18-24"	#3 CAN	SJT	19	SPIREA JAPONICA 'TRACY'	DOUBLE PLAY BIG BANG SPIREA	18-24"	#3 CAN
SPMK	1	SYRINGA PATTULA 'MISS KIM'	MISS KIM LILAC	24-30"	#5 CAN	SPMK	1	SYRINGA PATTULA 'MISS KIM'	MISS KIM LILAC	24-30"	#5 CAN	SPMK	1	SYRINGA PATTULA 'MISS KIM'	MISS KIM LILAC	24-30"	#5 CAN
PERENNIAL(S)																	
HSD	419	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILY	1 GAL.	CONTAINER	HSD	419	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILY	1 GAL.	CONTAINER	HSD	419	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILY	1 GAL.	CONTAINER
ISCB	52	IRIS SIBIRICA 'CAESAR'S BROTHER'	CAESAR'S BROTHER SIBERIAN IRIS	1 GAL.	CONTAINER	ISCB	52	IRIS SIBIRICA 'CAESAR'S BROTHER'	CAESAR'S BROTHER SIBERIAN IRIS	1 GAL.	CONTAINER	ISCB	52	IRIS SIBIRICA 'CAESAR'S BROTHER'	CAESAR'S BROTHER SIBERIAN IRIS	1 GAL.	CONTAINER
NXP	44	NEPETA X 'PSITIKE'	LITTLE TRUDY CATMINT	1 GAL.	CONTAINER	NXP	44	NEPETA X 'PSITIKE'	LITTLE TRUDY CATMINT	1 GAL.	CONTAINER	NXP	44	NEPETA X 'PSITIKE'	LITTLE TRUDY CATMINT	1 GAL.	CONTAINER
ORNAMENTAL GRASS(ES)																	
CAKGF	98	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL.	CONTAINER	CAKGF	98	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL.	CONTAINER	CAKGF	98	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL.	CONTAINER
PAL	69	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	1 GAL.	CONTAINER	PAL	69	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	1 GAL.	CONTAINER	PAL	69	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	1 GAL.	CONTAINER

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICATE.



NO.	DATE	REV.	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

PROJECT: ELITE PROPERTIES PROPOSED RESIDENTIAL DEVELOPMENT
BLOCK 10801, LOT 3
62A VALLEY ROAD (CR. 512)
TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

DESIGNED BY: JCS
CHECKED BY: JCS
REVISION BY: JCS
DATE: 02/05/21

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LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21A500053700

BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

TITLE: LANDSCAPE PLAN

SCALE: (H) 1" = 20'
(V) 1" = 20'

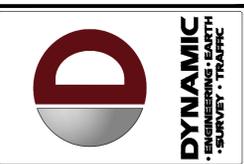
DATE: 06/07/2020

PROJECT No: 0555-99-010

SHEET No: 9 OF 21

Plotted: 02/05/21 - 12:05 PM, By: dsanderson
File: \\desp\local\deciders\Data\DEPC\PROJECTS\0505 Elite Properties\09-010 Long Hill\Div Site Plans\050599010SL1.dwg, -----> 09 LANDSCAPE PLAN

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY
SEE SHEET 11 OF 21 FOR LIGHTING DETAILS



NO.	DATE	REV.	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

PROJECT: ELITE PROPERTIES PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 624 VALLEY ROAD (C.R. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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 NEW JERSEY LICENSE NO. 36618

BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 41985

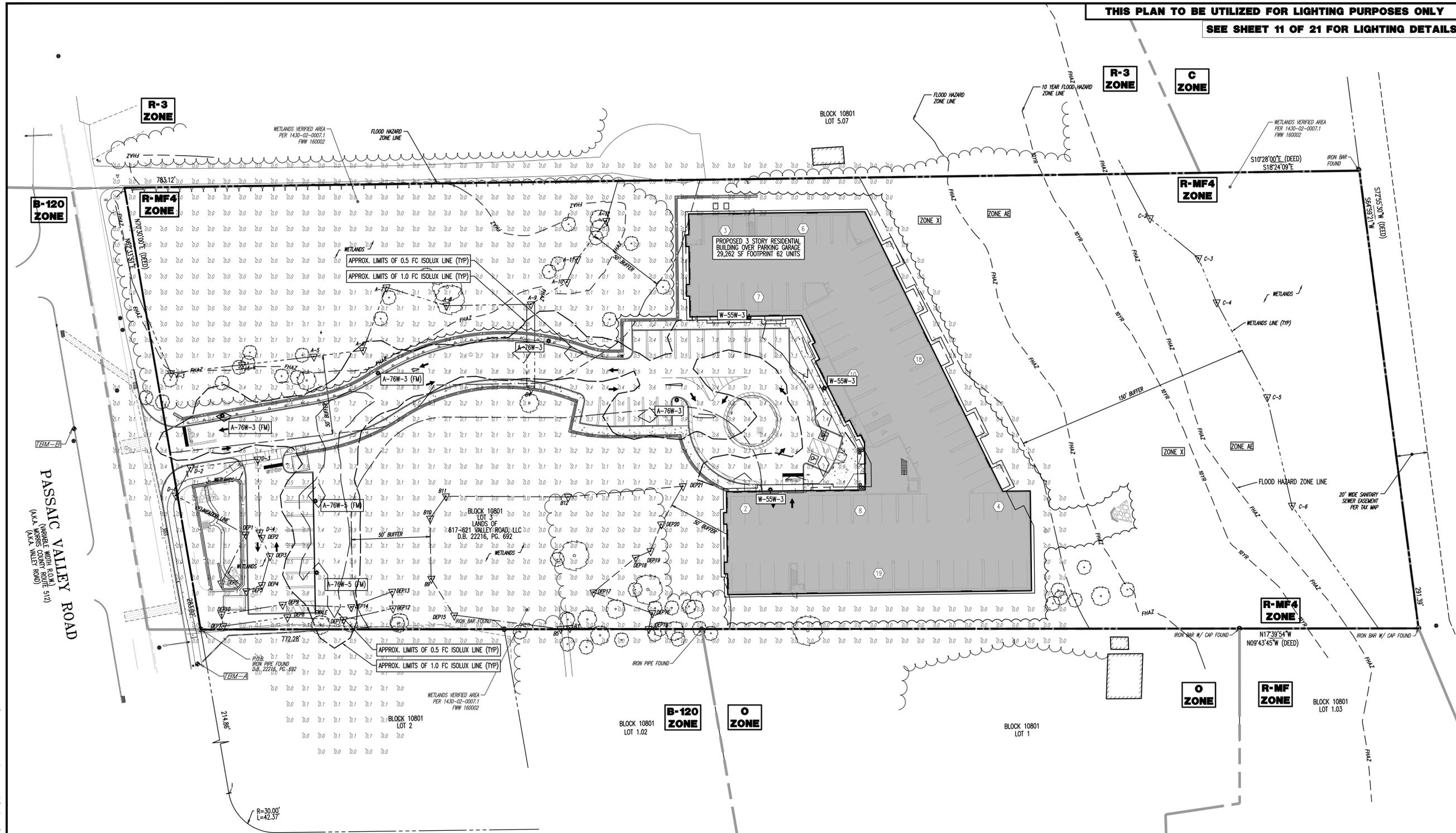
TITLE:
LIGHTING PLAN

SCALE: (H) 1" = 30'
 (V) 1" = 10'

DATE: 06/07/2020

PROJECT No: 0555-99-010

SHEET No: **10** OF 21



MOUNTAIN AVENUE
 (A.K.A. MORRIS COUNTY ROUTE 638)
 (VARIABLE WIDTH R.O.W.)

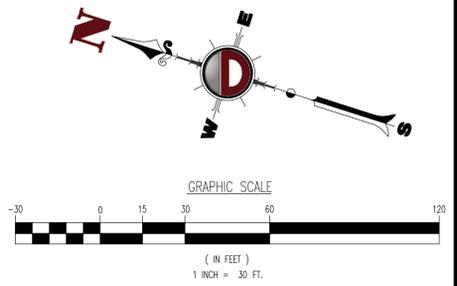
SYMBOL	QUANTITY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	LIGHT LOSS FACTOR	MANUFACTURER	DESCRIPTION	IES FILE
☼	6	A-55W-3	14.0'	SINGLE	0.9	HOLOPHANE LIGHTING	55 WATT TYPE 3 PATTERN HOLOPHANE POSTOP LED SERIES AREA LIGHT	PTE2_P20_30K_XX_A33.ses
☼	3	W-55W-3	14.0'	SINGLE	0.9	HOLOPHANE LIGHTING	55 WATT TYPE 3 PATTERN HOLOPHANE POSTOP LED SERIES WALL LIGHT	PTE2_P20_30K_XX_A33.ses

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.
 (FM) - FLUSH MOUNT FOUNDATION (PEF) - PEDESTAL FOUNDATION
 THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN	DESCRIPTION
PARKING NORTH	0.40	1.10	0.10	4.00	11.00	LIGHT LEVELS WITHIN NORTH PARKING AREA
PAVEMENT	0.69	1.50	0.30	2.30	5.00	LIGHT LEVELS WITHIN DRIVE ASLE & PARKING
DRIVEWAY & WALK ACCESS	0.65	1.50	0.20	3.25	7.5	LIGHT LEVELS WITHIN SIDEWALK ALONG ACES ASLE
WALK EAST	0.74	1.40	0.20	3.70	7.00	LIGHT LEVELS WITHIN SIDEWALK ALONG EAST PARKING AND BUILDING
WALK WEST	0.59	0.90	0.30	1.97	3.00	LIGHT LEVELS WITHIN SIDEWALK WEST OF PARKING

GENERAL NOTES

- THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
- CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUARDRAIL POSTS.
- ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
- ALL LIGHTING PLANS SHALL BE SUBJECT TO POST DEVELOPMENT LIGHTING INSPECTION BY THE TOWNSHIP PLANNER AND/OR ENGINEER.
- REFER TO ARCHITECTURAL PLANS FOR LIGHTING DIAGRAM.
- HEIGHT TO TOP OF POLE MOUNTED AND BUILDING MOUNTED LIGHT FIXTURES SHALL BE 15 FEET MAXIMUM.



Plotted: 02/05/21 - 12:05 PM, By: danderson
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FEATURES & SPECIFICATIONS

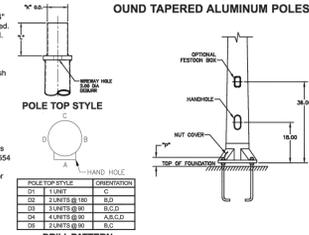
CONSTRUCTION - Poles shall be fabricated to meet AASHTO 2009 requirements. Weeds conform to applicable AWS structural welding code. Pole shall be one piece, 6063 aluminum alloy, heat treated to a T6 temper. Pole base shall be 36" or ASSE aluminum alloy, heat treated to a T6 temper after welding. Hand hole is 2" x 4" minimum, cover and fasteners are zinc plated. Nut covers shall be provided as standard. Finish shall be powder coated. Non-structural fasteners shall be stainless steel.

FINISH - Anodize, painted, or satin finish. Painted poles shall be semi-gloss powder paint.

GROUNDING - Grounding provision shall be immediately accessible through hand hole, 3/8-16 threads.

ANCHOR BOLTS - Steel anchor bolts shall be per AASHTO M314 or ASTM F1554 - Grade 55, hot dip galvanized. Nuts and washers shall be per AASHTO M314-90 or ASTM F1554 - hot dip galvanized.

**RTA/AORTA
ROUND TAPERED ALUMINUM POLES**



POLE ORDERING DATA
How to construct a catalog number for RTA poles:
EXAMPLE RTA250E PZ ND BZ 1 Fill in Catalog Number

STEP	CATALOG NUMBER	DESCRIPTION	FINISH	ANCHOR BOLT	ANCHOR BOLT TEMPLATE
1. BASE POLE	RTA	RTA 250E PZ ND BZ 1	1	2	3
2. POLE TOP STYLE	DT	DRILLING FOR 1 LIGHT			
3. POLE TOP ORIENTATION	NO	NO DRILL PATTERN			

RTA Round Tapered Aluminum Poles

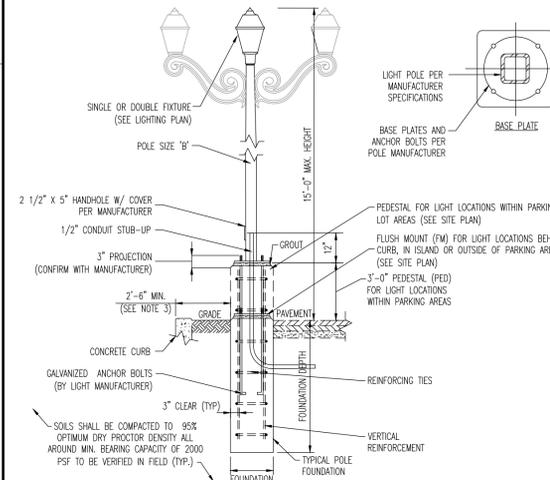
Ref. No.	Base Pole Number	Nominal Pole Height	Nominal Shaft Size & Wall Thickness	2009 AASHTO Rating						Bolt Circ. Dia.	Anchor Bolt Size
				Max. Wt.	Max. Wt.	Max. Wt.	Max. Wt.	Max. Wt.	Max. Wt.		
1	RTA040C	8	4.0 x 3.0 x .125	11.3	263	9.2	230	7.6	190	7.75	.75 x 17 + 3
1	RTA090C	10	4.0 x 3.0 x .125	9.0	176	7.0	175	5.6	140	7.75	.75 x 17 + 3
1	RTA160C	10	5.0 x 3.0 x .125	15.2	260	12.0	250	9.7	243	7.75	.75 x 17 + 3
1	RTA240C	12	4.0 x 3.0 x .125	12.1	225	9.4	230	7.6	190	7.75	.75 x 17 + 3
1	RTA250E	12	5.0 x 3.0 x .156	18.4	276	12.1	275	9.8	245	7.75	.75 x 17 + 3
1	RTA250G	12	5.0 x 3.0 x .156	15.4	325	12.2	305	10.0	250	7.75	.75 x 17 + 3
1	RTA140C	14	4.0 x 3.0 x .125	9.0	175	5.7	180	6.4	150	7.75	.75 x 17 + 3
1	RTA140C	14	5.0 x 3.0 x .125	9.7	200	7.5	188	5.9	148	7.75	.75 x 17 + 3
1	RTA140C	14	5.0 x 3.0 x .156	12.6	225	9.7	245	8.1	175	7.75	.75 x 17 + 3
1	RTA140G	14	5.0 x 3.0 x .156	10.7	225	8.3	208	6.7	168	7.75	.75 x 17 + 3
1	RTA145G	14	5.0 x 3.0 x .188	13.0	275	10.2	255	8.3	208	7.75	.75 x 17 + 3
1	RTA160C	16	4.0 x 3.0 x .125	4.1	103	3.0	75	2.1	83	7.75	.75 x 17 + 3
1	RTA160C	16	5.0 x 3.0 x .125	7.8	175	5.9	148	4.6	115	7.75	.75 x 17 + 3
1	RTA160G	16	5.0 x 3.0 x .156	10.2	225	9.7	245	8.2	155	7.75	.75 x 17 + 3
1	RTA160G	16	5.0 x 3.0 x .188	12.7	250	9.8	245	7.9	188	7.75	.75 x 17 + 3
1	RTA180G	18	5.0 x 3.0 x .125	6.1	153	4.5	113	3.4	85	7.75	.75 x 17 + 3
1	RTA180G	18	5.0 x 3.0 x .156	5.4	138	4.0	100	3.0	75	7.75	.75 x 17 + 3
1	RTA180G	18	5.0 x 3.0 x .188	7.2	180	5.5	138	4.3	108	7.75	.75 x 17 + 3
1	RTA185G	18	5.0 x 3.0 x .188	10.1	253	7.9	198	6.2	155	7.75	.75 x 17 + 3



Item No.	Bolt Dia.	Min. Base Dia.	Min. Base Thick.	Bolt Projection	Anchor Bolt Set	Anchor Bolt Template
1	7/8"	7/8"	0.56"	3.00 - 3.50"	AB-26.4	TMP-113

AREA LIGHT POLE DETAIL

NOT TO SCALE



NOTE: 1. CONTRACTOR TO CONFIRM ALL LIGHT POLE & FIXTURE DIMENSIONS PRIOR TO CONSTRUCTION.
2. PROPOSED POLE IN COMBINATION WITH CONCRETE FOOTING TO EQUAL MOUNTING HEIGHT "A". ACTUAL POLE HEIGHT TO BE ADJUSTED ACCORDINGLY.
3. PROPOSED CONCRETE FOUNDATION AND POLE TO BE CONSTRUCTED WITH SUBJECT PROPERTY UNLESS OTHERWISE NOTED. SETBACK FROM CURB IS PREPARED BUT TO BE ADJUSTED AS NEEDED TO PREVENT ENDEICHMENT OVER PROPERTY LINE.
4. BASE PLATE & ANCHOR BOLTS PER POLE MANUFACTURER. LARGER FOOTING DIAMETER AND/OR ALTERNATE ARRANGEMENT OF REINFORCING STEEL MAY BE REQUIRED TO ACCOMMODATE ANCHOR BOLT CONFIGURATION. CONTRACTOR RESPONSIBLE TO COORDINATE DIMENSIONAL REQUIREMENTS FOR BASE PLATE, ANCHOR BOLTS & REINFORCING STEEL PRIOR TO CONSTRUCTION.

LIGHT POLE FOUNDATION SCHEDULE

HEIGHT ABOVE GRADE "A" TO LIGHT SOURCE	FOOTING
1 - 7.75'	14"
POLE DIA. "B"	4" SQUARE (OR PER MANUFACTURER)
# OF FIXTURES	SINGLE OR DOUBLE

SOIL NOTES

- FOOTING DESIGN BASED ON ASSUMED MINIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 SF PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.
- SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

CONCRETE NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
- ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".
- ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
- REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE AIA AND UNIFORM BUILDING CODE.

DECORATIVE LIGHT DETAIL

NOT TO SCALE

THIS PLAN TO BE UTILIZED FOR LIGHTING & LANDSCAPE PURPOSES ONLY

PLANTING SPECIFICATIONS

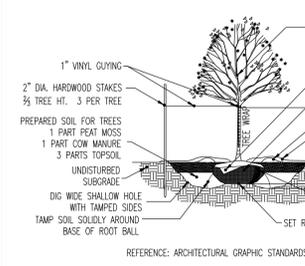
- SCOPE OF WORK
A. THIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- MATERIALS
A. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED BY PLANTS - ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
C. TOPSOIL - LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, pH RANGE BETWEEN 4.5 - 7.0. BE FREE OF DEBRIS, ROCKS LARGER THAN TWO INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLOTS.
D. MULCH - COUR (4" MINIMUM DOUBLE SHREDDED HARDWOOD DARK MULCH).
E. ORGANIC FERTILIZER AND SOIL CONDITIONER - PLANTED AREAS
F. ORGANIC FERTILIZER AND SOIL CONDITIONER - SHALL BE "GRO-POWER" AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POLYESTER OR HUMAN WASTE. GUARANTEED ANALYSIS (5-3-1); NITROGEN 5%, PHOSPHATE 3%, POTASH 1%, 50% HUMUS AND 15% HUMIC ACIDS.
- GENERAL WORK PROCEDURES
A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS SOME PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF. ALL PAVED SURFACES SHALL BE SWEEP CLEAN AT THE END OF EACH DAY'S WORK.
B. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
C. CONTRACTOR TO PROVIDE A 4" THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO PRODUCE A 4" UNSETTLED THICKNESS. TOPSOIL PRESENT AT THE SITE IF ANY MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE MEDIUM.
D. SOIL CONDITIONING
A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AND TILL (2 DIRECTIONS) TO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.:
20 POUNDS "GRO-POWER"
20 POUNDS "AGRICULTURAL CIPSUM"
20 POUNDS "NITROGEN COURSE"
38-0-0 BLUE CHIP
SOIL MODIFICATIONS
A. THROUGHOUT ALL ORGANIC MATTER INTO THE TOP 6" TO 12" IN OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5.
B. MOODY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR CIPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 10% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RIDGES, MOUNDS OR BEDS AND INCLUDING SUBSIDIARY DRAINAGE LINES.
C. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
D. HEAVY SOILS
A. PREPARE AREAS FOR PLANTING BY REMOVING EXCESSIVE SOILS AND REPLACING WITH A PREPARED MEDIUM.
B. POSITION TREES AND SHRUBS AT THEIR INTEREDED LOCATIONS AS PER THE PLANS AND SECURE THE LANDSCAPE ARCHITECT BEFORE EXCAVATING HITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
C. PLANTING HOLE SHALL BE DUG WITH THE DIMENSIONS AS SPECIFIED. THE HOLE SHALL BE 2" DEEPER THAN THE DIAMETER OF THE ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACK FILLED WITH THE FOLLOWING PREPARED MIX (SEE TABLE):
1 PART PEAT MOSS BY VOLUME
1 PART COW MANURE BY VOLUME
3 PARTS TOPSOIL BY VOLUME
21 GRAMS "GRO-POWER" PER 1 GAL. PLANT MIX
4 TABLETS PER 1 GAL. PLANT MIX
LARGER PLANTS (2) TWO TABLETS PER 1/2" DIA. OF TRUNK CALIPER
AT THE SOIL SURFACE AT BOTTOM OF HOLE, 1" OF PREPARED SOIL SHALL BE PLACED IN THE PLANTING HOLE AND INSERT PLANT TABLETS. COMPLETE BACK FILL AND WATER THOROUGHLY.
E. ALL LAMN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO AERIOUS CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDING SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH A PRE-EMERGENT WEEDING AGENT AS PER MANUFACTURER'S RECOMMENDATION.
F. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS 1" FOOT OF FINISH GRADE.
G. ALL LAMN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO AERIOUS CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDING SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH A PRE-EMERGENT WEEDING AGENT AS PER MANUFACTURER'S RECOMMENDATION.
H. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
- FINISH GRADING
A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF TWO (2) YEARS FROM ACCEPTANCE OF JOB OWNER TO SECURE A MAINTENANCE BOND FROM THE CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF THE GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE.
I. CLEANUP
A. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEAN AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
B. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CUTTING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER POSITION AS REQUIRED. RESTORE PLANTING SAUCERS AND SPRAY WITH INSECTICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
C. MAINTAIN LAMNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAMN, FREE OF OBSCURE OR BARE AREAS.
D. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

PLANTING NOTES

- PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED, INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES; DENSELY FOLIATED; VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
- CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT OF THE ORIGINAL PLANTS.
- INSURANCE - IT IS PRACTICABLE PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.
- QUALITY AND SIZE OF PLANTS, SPECIES OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (REV. 2001) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ARCHITECTS ASSOCIATION.
- ALL PLANTS SHALL BE PLANTED IN AMENDED TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROCEDURES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.
- PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.
- PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH "ANTI-FROST" OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.
- NO PLANTING OPERATIONS SHALL BE PERFORMED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SHRUBS WITHIN THE PLANTING SAUCER.
- SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE GROUND OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PLANTING SAUCER.
- ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT. LONG SLIM BRANCHES, POWER LINES SHALL BE REMOVED.
- EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING TREES SHALL BE FERTILIZED WITH A REGULAR GARDEN FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL. COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE HOUR.
- ALL PLANTS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.
- PLANTS SHALL BE WATERED AND TAMPED AS BACK FILLING PROCEDURES.
- PROTECT THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE PLAN SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT, THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS: THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVED BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:
PLANTS
3/15 TO 12/15
LAWN
3/15 TO 6/15
6/15 TO 12/15
FURTHERMORE, THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE TREES IN THIS SEASON:
ACER RUBRUM
BETULA VARIETES
CARPINUS VARIETES
CRATAEGUS VARIETES
KALDIERIA VARIETES
LIRIODENDRON VARIETES
LIQUIDAMBAR VARIETES
PLATANUS VARIETES
ZELKOVIA VARIETES
POPULUS VARIETES
PRUNUS VARIETES
PUNIC VARIETES
QUERCUS VARIETES
SALIX WEeping VARIETES
TILIA VARIETES
TILIA TOMENTOSA
ZELKOVIA VARIETES
- ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL OF THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.
- ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL, SEED SOIL STABILIZATION METHOD.

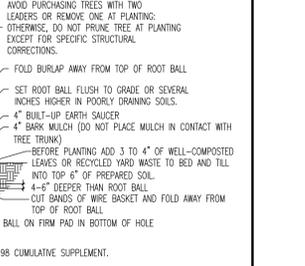
NOTES:

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/2 FROM TOP ROOT BALL.
- PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
- THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.



EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

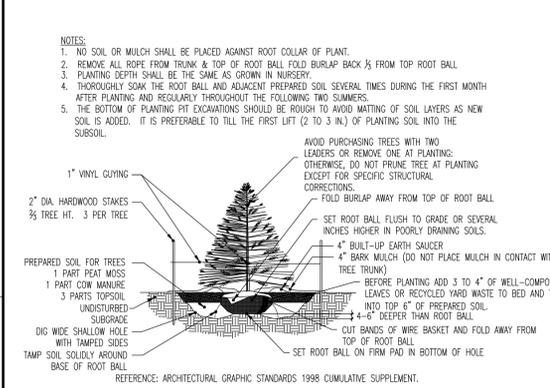


DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

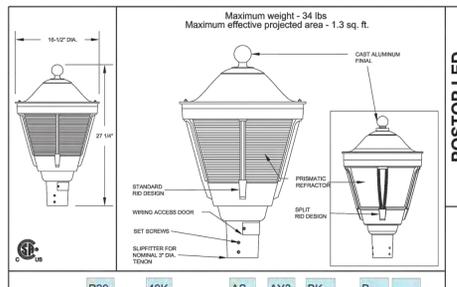
DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



Performance Data

Fixture	Wattage	Beam Angle	Beam Diameter @ 100'	Beam Diameter @ 200'	Beam Diameter @ 300'	Beam Diameter @ 400'	Beam Diameter @ 500'	Beam Diameter @ 600'	Beam Diameter @ 700'	Beam Diameter @ 800'	Beam Diameter @ 900'	Beam Diameter @ 1000'
P20	35	10	3.2	6.4	9.6	12.8	16.0	19.2	22.4	25.6	28.8	32.0
P40	70	15	4.8	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0
P60	105	20	6.4	12.8	19.2	25.6	32.0	38.4	44.8	51.2	57.6	64.0
P80	140	25	8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
P100	175	30	9.6	19.2	28.8	38.4	48.0	57.6	67.2	76.8	86.4	96.0

POSTOP LED Series Luminaire (Formerly RPE)

FPDxx Data Table

Fixture	Wattage	Beam Angle	Beam Diameter @ 100'	Beam Diameter @ 200'	Beam Diameter @ 300'	Beam Diameter @ 400'	Beam Diameter @ 500'	Beam Diameter @ 600'	Beam Diameter @ 700'	Beam Diameter @ 800'	Beam Diameter @ 900'	Beam Diameter @ 1000'
FPD20	35	10	3.2	6.4	9.6	12.8	16.0	19.2	22.4	25.6	28.8	32.0
FPD40	70	15	4.8	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0
FPD60	105	20	6.4	12.8	19.2	25.6	32.0	38.4	44.8	51.2	57.6	64.0
FPD80	140	25	8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
FPD100	175	30	9.6	19.2	28.8	38.4	48.0	57.6	67.2	76.8	86.4	96.0

POSTOP LED Series Luminaire (Formerly RPE)

ORDERING INFORMATION

HOUSING STYLE
PTE2 - POLYESTER
P20 - POLYESTER
P40 - POLYESTER
P60 - POLYESTER
P80 - POLYESTER
P100 - POLYESTER

COLOR TEMPERATURE
3000K - WARM WHITE
4000K - NEUTRAL WHITE
5000K - COOL WHITE

VOLTAGE
120V - 120V
277V - 277V

COLOR
BLK - BLACK
WH - WHITE
GR - GRAY
BR - BRASS
SS - STAINLESS STEEL

RIBS
STANDARD - STANDARD
SPLIT - SPLIT RIB DESIGN

LED PERFORMANCE PACKAGE
P20 - 35W LED
P40 - 70W LED
P60 - 105W LED
P80 - 140W LED
P100 - 175W LED

ACCESSORIES
RECREATIVE FIELD INSTALLER OPTIONS
RFP20 - RECREATIVE FIELD INSTALLER OPTIONS
RFP40 - RECREATIVE FIELD INSTALLER OPTIONS
RFP60 - RECREATIVE FIELD INSTALLER OPTIONS

THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY

SEE SHEET 13 OF 21 FOR SOIL EROSION NOTES & DETAILS



NO.	DATE	REVISIONS	BY
1	02/05/21	REVISED PER TOWNSHIP ENGINEER COMMENTS	SMW

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

PROJECT: ELITE PROPERTIES
PROPOSED RESIDENTIAL DEVELOPMENT
BLOCK 10801, LOT 3
624 VALLEY ROAD (CR. 512)
TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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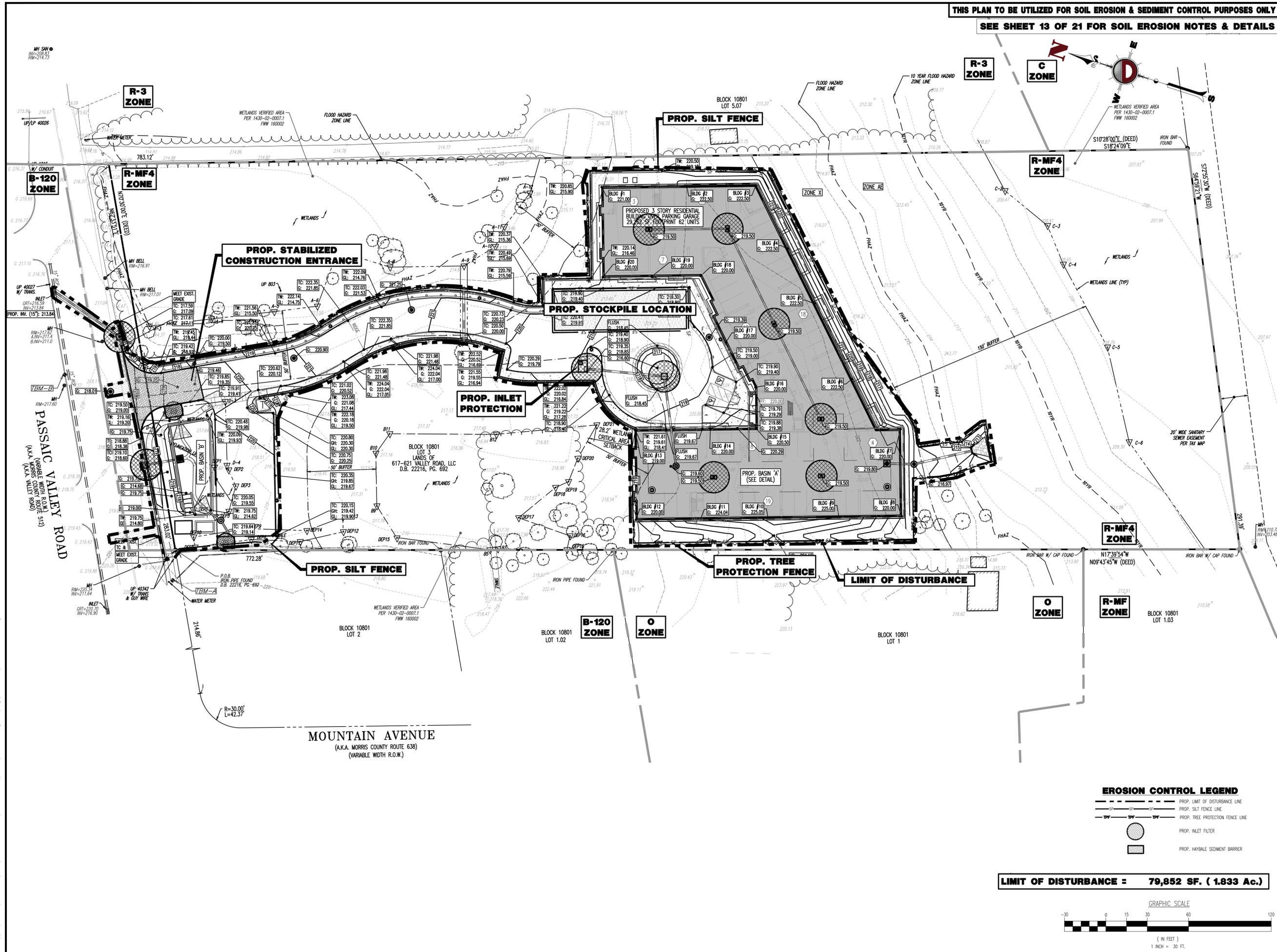
JOSEPH G. JAWORSKI
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 36618

BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

TITLE: **SOIL EROSION & SEDIMENT CONTROL PLAN**

SCALE: (H) 1" = 30'
(V) DATE: 06/07/2020
PROJECT No: 0555-99-010

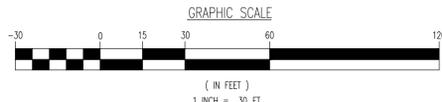
SHEET No: **12** OF 21



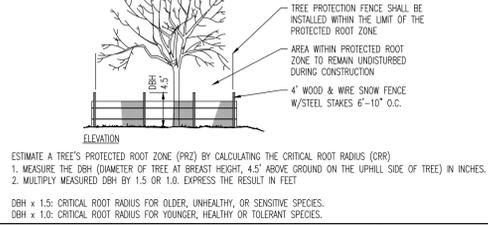
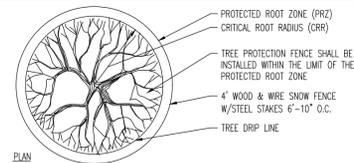
EROSION CONTROL LEGEND

- PROP. LIMIT OF DISTURBANCE LINE
- PROP. SILT FENCE LINE
- PROP. TREE PROTECTION FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER

LIMIT OF DISTURBANCE = 79,852 SF. (1.833 Ac.)



Plotted: 02/05/21 - 12:05 PM, By: danderson
 File: \\despc\local\despc\Data\DEPC\PROJECTS\0555 Elite Properties\09-010 Long Hill\Draw\Site Plans\055599010SEI.dwg, --- 12 SOIL EROSION & SEDIMENT CONTROL PLAN
 COPYRIGHT © 2021 - DYNAMIC ENGINEERING CONSULTANTS, PC - ALL RIGHTS RESERVED



ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR)
 1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
 2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET
 DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.
 DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.

TREE PROTECTION DURING SITE CONSTRUCTION DETAIL
 NOT TO SCALE

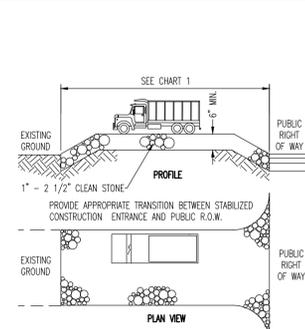
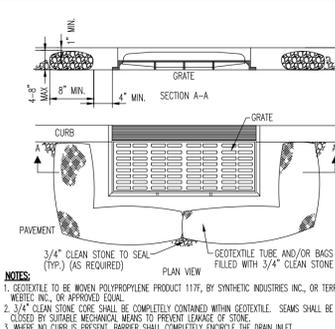


CHART 1

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED
0 TO 2%	50 FT
2% TO 5%	100 FT
5% TO 10%	200 FT
10% TO 15%	300 FT
15% TO 20%	400 FT
20% TO 25%	500 FT
25% TO 30%	600 FT
30% TO 35%	700 FT
35% TO 40%	800 FT
40% TO 45%	900 FT
45% TO 50%	1000 FT
50% TO 55%	1100 FT
55% TO 60%	1200 FT
60% TO 65%	1300 FT
65% TO 70%	1400 FT
70% TO 75%	1500 FT
75% TO 80%	1600 FT
80% TO 85%	1700 FT
85% TO 90%	1800 FT
90% TO 95%	1900 FT
95% TO 100%	2000 FT

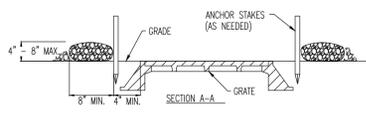
ENTIRE ENTRANCE STABILIZED WITH FABR. BASE COURSE (1)
 (1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ENTRANCE
 NOT TO SCALE



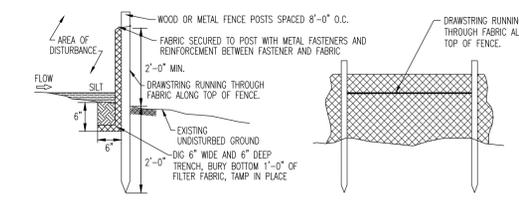
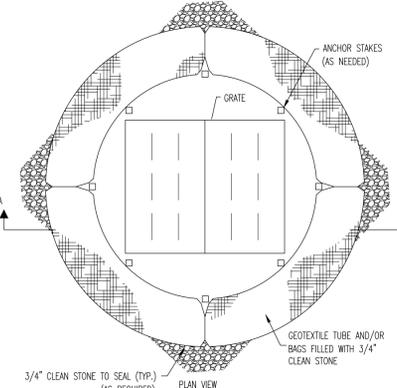
NOTES:
 1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WERTEC INC., OR APPROVED EQUAL.
 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.
 3. WEARS NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCRICLE THE DRAIN INLET.
 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
 7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER DETAIL
 NOT TO SCALE



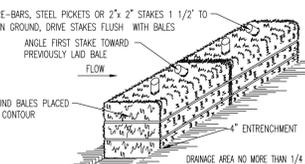
NOTES:
 1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WERTEC INC., OR APPROVED EQUAL.
 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.
 3. ANCHOR STAKES OF WOOD OR METAL SHALL BE INSTALLED WHERE REQUIRED BY FIELD CONDITIONS TO PREVENT MOVEMENT OF BARRIER.
 4. BARRIER SHALL COMPLETELY ENCRICLE THE DRAIN INLET.
 5. GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
 6. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. WHERE SLOPE REQUIRES, AN EARTHEN BERM SHALL BE INSTALLED TO DIRECT STORM FLOW INTO THE INLET, BUT NOT OVER THE CURB.
 7. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
 8. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

TYPE 'E' AND YARD INLET FILTER DETAIL
 NOT TO SCALE



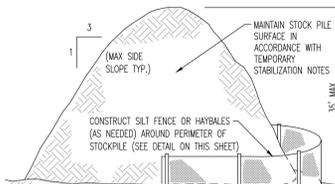
NOTES:
 1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
 2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT.
 3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
 5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT.
 6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.
 8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GRAMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR EASIER REMOVAL.

SILT FENCE DETAIL
 NOT TO SCALE



NOTES:
 1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE PLACED SO THE BINOMAS ARE HORIZONTAL.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAYBALE SEDIMENT BARRIER DETAIL
 NOT TO SCALE



NOTES:
 1. MAINTAIN STOCK PILE SURFACE IN ACCORDANCE WITH TEMPORARY STABILIZATION NOTES.
 2. CONSTRUCT SILT FENCE OR HAYBALES (AS NEEDED) AROUND PERIMETER OF STOCKPILE (SEE DETAIL ON THIS SHEET).

TEMPORARY STOCKPILE DETAIL
 NOT TO SCALE

THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY

SEQUENCE OF CONSTRUCTION:

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER (2 WEEKS) HAY BALES AND SILT FENCING.
- PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 WEEKS)
- PHASE 3: EXCAVATION, CONSTRUCTION AND STABILIZATION OF DETENTION BASIN(S), EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES. (3 WEEKS)
- PHASE 4: EXCAVATE FOR BUILDING FOUNDATION. (3 WEEKS)
- PHASE 5: COMPLETE BUILDING CONSTRUCTION. (8 MONTHS)
- PHASE 6: EXCAVATE AND INSTALL ON SITE IMPROVEMENTS INCLUDING CURBING. (4 WEEKS)
- PHASE 7: FINAL GRADING ON SITE. (4 WEEKS)
- PHASE 8: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (4 WEEKS)

MORRIS COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 21 BELOW.
- PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREA WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS ESTABLISHED. SEE NOTE 22 BELOW.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, AND WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 21 BELOW.
- TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL.
- PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASINS SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED AT THE TOE OF THE SLOPE.
- STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.
- ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUB-BASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
- ALL DRAINAGE OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DRAINAGE DETAIL.
- ALL SEDIMENT BASINS WILL BE CLEARED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE.
- DURING AND AFTER CONSTRUCTION THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON-SITE OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE AND A PRE-CONSTRUCTION MEETING HELD.
- TOPSOIL STOCKPILE PROTECTION
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1,000 SF.
 - APPLY PERENNIAL PREGRASS SEED AT 1 LB. PER 1,000 SF AND ANNUAL PREGRASS AT 1 LB. PER 1,000 SF.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
 - PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
- TEMPORARY STABILIZATION SPECIFICATIONS
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1,000 SF.
 - APPLY PERENNIAL PREGRASS SEED AT 1 LB. PER 1,000 SF AND ANNUAL PREGRASS AT 1 LB. PER 1,000 SF.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
- PERMANENT STABILIZATION SPECIFICATIONS
 - APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF AND WORK FOUR INCHES INTO SOIL.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1,000 SF.
 - APPLY HARD FESCUE SEED AT 2.7 LBS. PER 1,000 SF AND CREEPING RED FESCUE SEED AT 0.7 LBS. PER 1,000 SF AND PERENNIAL PREGRASS SEED AT 0.25 LBS. PER 1,000 SF.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.



NO.	DATE	REV.	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

ELITE PROPERTIES
 PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 62A VALLEY ROAD (CR. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

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 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DIGGING THE EARTH'S SURFACE ANYWHERE IN ANY STATE

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JOSEPH G. JAWORSKI
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE No. 36618

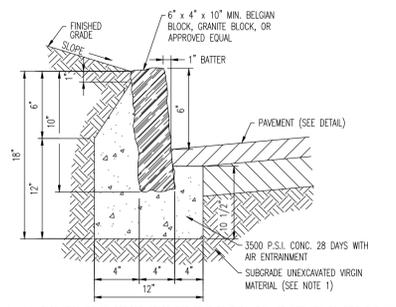
BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE No. 41985

TITLE: SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

SCALE: (H) AS SHOWN	DATE: 08/07/2020
PROJECT No: 0555-99-010	

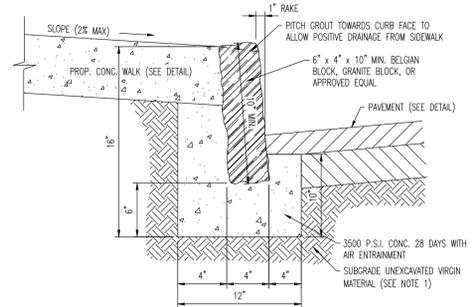
SHEET No: **13** OF 21

Plotted: 02/05/21 - 12:08 PM, By: dsanderson
 File: \\despc\local\despc\data\DECEP\PROJECTS\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\055599010SE1.dwg



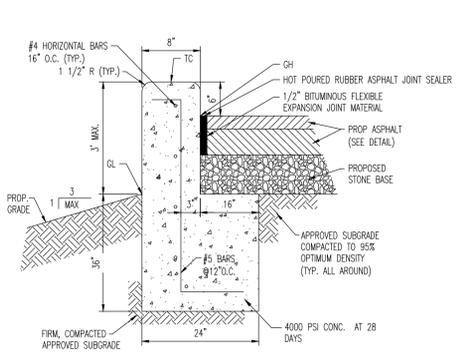
NOTES:
 1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
 2. JOINTS SHALL BE NOT MORE THAN 1/4" WIDE FOR DRESSED BLOCK AND 3/8" WIDE FOR QUARRY SPLIT BLOCK. THE JOINTS SHALL BE POINTED WITH 1:1 CEMENT-SAND MORTAR.

BELGIAN BLOCK CURB DETAIL
 NOT TO SCALE



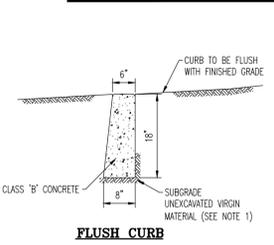
NOTES:
 1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
 2. JOINTS SHALL BE NOT MORE THAN 1/4" WIDE FOR DRESSED BLOCK AND 3/8" WIDE FOR QUARRY SPLIT BLOCK. THE JOINTS SHALL BE POINTED WITH 1:1 CEMENT-SAND MORTAR.

BELGIAN BLOCK CURB DETAIL (@ CONCRETE WALK)
 NOT TO SCALE



NOTES:
 1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
 2. JOINTS SHALL BE NOT MORE THAN 1/4" WIDE FOR DRESSED BLOCK AND 3/8" WIDE FOR QUARRY SPLIT BLOCK. THE JOINTS SHALL BE POINTED WITH 1:1 CEMENT-SAND MORTAR.

EXTENDED CURB W/ 6" CURB DETAIL
 NOT TO SCALE



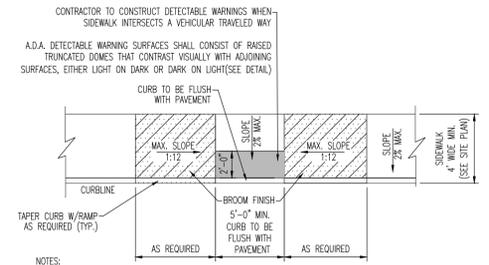
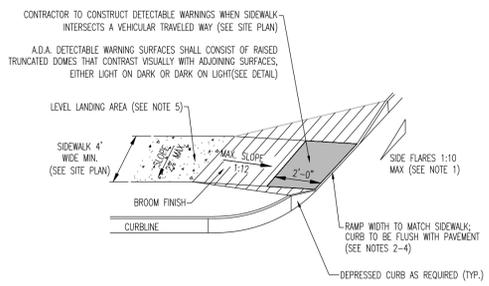
NOTES:
 1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
 2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHOTM-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB.
 3. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
 4. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS 1/2".
 5. THESE SPECIFICATIONS ALSO MEET RGS DESIGN STANDARDS.

CONCRETE CURB DETAIL
 NOT TO SCALE



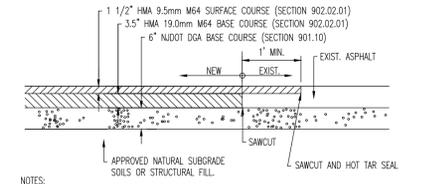
NOTES:
 SIGN MUST COMPLY WITH ALL LOCAL FIRE DEPT. REQUIREMENTS.

FIRE ZONE SIGN DETAIL
 NOT TO SCALE



NOTES:
 1. CURB RAMP MAY NOT EXTEND INTO ANY PORTION OF THE PARKING SPACE OR ASSOCIATED STRIPED ISLAND.
 2. COUNTER SLOPES OF ADJOINING GUTTERS AND PAVEMENT SHALL NOT BE STEEPER THAN 1:20 WITH A MAX. CROSS SLOPE OF 2%.
 3. A LEVEL LANDING AREA (MAX. SLOPE 2% IN ANY DIRECTION) SHALL BE PROVIDED AT THE TOP OF THE RAMP. THE LANDING CLEAR LENGTH SHALL BE 36" MIN AND THE CLEAR WIDTH SHALL BE AS WIDE AS THE RAMP.
 4. CURB RAMP, PAVEMENT MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

A.D.A. PARALLEL CURB RAMP DETAIL
 NOT TO SCALE



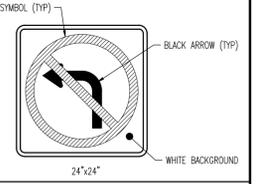
NOTES:
 1. ALL PAVEMENT SECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2007.
 2. OWNER SHALL CONTACT AND ENGAGE DYNAMIC EARTH, LLC. TO INSPECT AND TEST SUBGRADE SOILS. CONTRACTOR SHALL CONTACT DYNAMIC EARTH, LLC. AT (908) 879-7095 (WWW.DYNAMIC-EARTH.COM) AT ONSET OF CONSTRUCTION TO CONFIRM REQUIREMENTS AND COORDINATE INSPECTIONS.
 3. SUBGRADE SOILS SHALL BE APPROVED BY DYNAMIC EARTH, LLC. APPROVED NATURAL SOILS SHALL BE COMPACTED AND PROOFROLLED WITH A LOADED TANDUM AXLE TRUCK TO A FIRM AND UNWEAVING CONDITION. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL OR STABILIZED AS DIRECTED BY DYNAMIC EARTH, LLC. ANY STRUCTURAL FILL AT OR BELOW PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM-D1557.
 4. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT, PREPARED BY DYNAMIC EARTH, DATED APRIL 16, 2020 FOR FINAL PAVEMENT SECTION DESCRIPTION.

PAVING DETAIL
 NOT TO SCALE

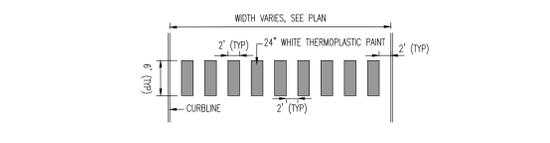


NOTES:
 ALL STRIPING SHALL CONFORM WITH LOCAL FIRE CODE STANDARD REQUIREMENTS. ALL PAINT TO BE THERMOPLASTIC.

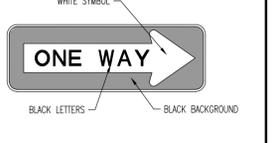
FIRE ZONE STRIPING DETAIL
 NOT TO SCALE



R3-2 SIGN DETAIL
 NOT TO SCALE



PAINTED CROSSWALK STRIPING DETAIL
 NOT TO SCALE

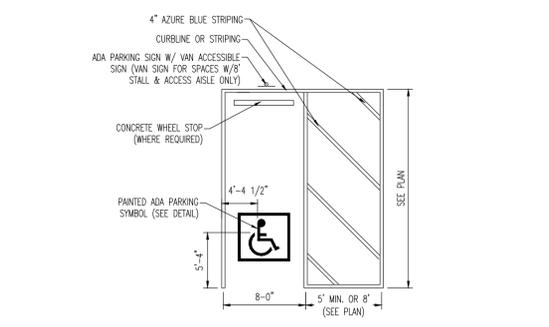


R6-1R SIGN DETAIL
 NOT TO SCALE

Plotted: 02/05/21 - 12:08 PM, By: danderson
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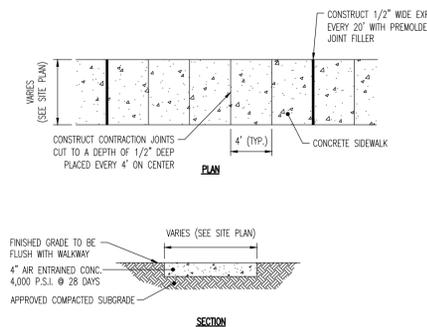
NOTES:
 1. WHERE A PEDESTRIAN CIRCULATION PATH CROSSED THE CURB RAMP, FLARE SIDES SHALL BE PROVIDED AT A SLOPE NO STEEPER THAN 1:10.
 2. CONSTRUCT DEPRESSION CURB FOR CURB RAMP FLUSH TO ADJACENT PAVEMENT GRADE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL TURNING SPACES BEHIND DEPRESSION CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE.
 3. CURB RAMP MAY NOT EXTEND INTO ANY PORTION OF THE PARKING SPACE OR ASSOCIATED STRIPED ISLAND.
 4. COUNTER SLOPES OF ADJOINING GUTTERS AND PAVEMENT SHALL NOT BE STEEPER THAN 1:20 WITH A MAX. CROSS SLOPE OF 2%.
 5. A LEVEL LANDING AREA (MAX. SLOPE 2% IN ANY DIRECTION) SHALL BE PROVIDED AT THE TOP OF THE RAMP. THE LANDING CLEAR LENGTH SHALL BE 36" MIN AND THE CLEAR WIDTH SHALL BE AS WIDE AS THE RAMP.
 6. CURB RAMP, PAVEMENT MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

A.D.A. PERPENDICULAR CURB RAMP DETAIL (W/ FLARE SIDES)
 NOT TO SCALE



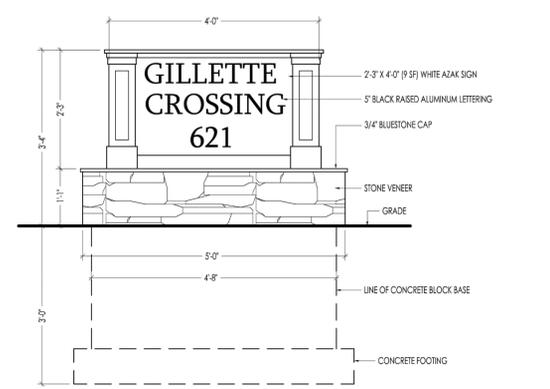
NOTES:
 1. PAVEMENT STRIPING FOR ALL ADA PARKING SPACES SHALL BE PAINTED AZURE BLUE.
 2. WHERE AN ADA PARKING STALL MEETS A STANDARD PARKING STALL, AN AZURE BLUE AND WHITE PAVEMENT STRIPE SHALL BE PAINTED.
 3. ALL PAVEMENT STRIPING, MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA ACCESSIBILITY GUIDELINES.

ADA STALL MARKINGS DETAIL
 NOT TO SCALE

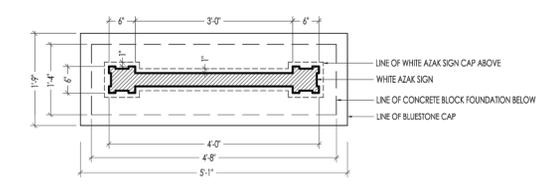


NOTES:
 1. MAX. CROSS SLOPE 1/4" PER FOOT PITCHED TOWARDS ROADWAY.
 2. PROVIDE 1/2" WIDE, PREFORMED BITUMINOUS EXPANSION JOINT AT 20' INTERVALS.
 3. REFER TO SITE PLAN FOR SIDEWALK WIDTH.
 4. PROVIDE A BROOM FINISH TO PROVIDE A SLIP RESISTANT WEARING SURFACE IN ACCORDANCE WITH A.D.A. REGULATIONS. FINISH THE EDGES OF THE GROOVES USING AN EDGING TOOL WITH A 1/4" RADIUS.

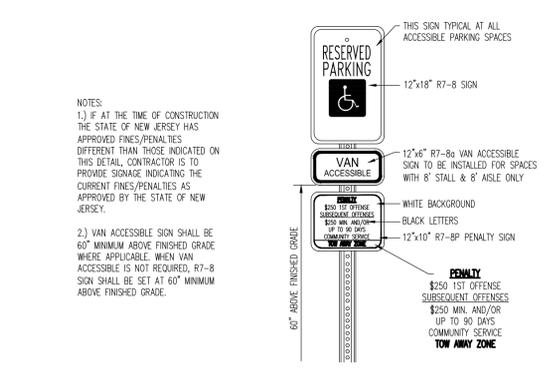
SIDEWALK DETAIL
 NOT TO SCALE



SIGN ELEVATION
 3/4" = 1'-0"

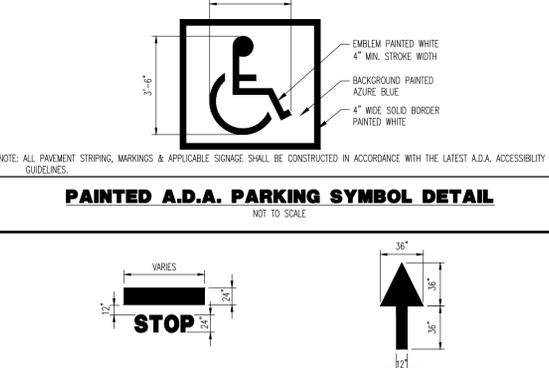


SIGN PLAN-SECTION
 3/4" = 1'-0"



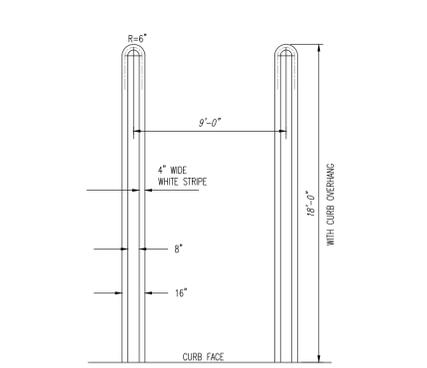
NOTES:
 1. IF AT THE TIME OF CONSTRUCTION THE STATE OF NEW JERSEY HAS APPROVED FINES/PENALTIES DIFFERENT THAN THOSE INDICATED ON THIS DETAIL, CONTRACTOR IS TO PROVIDE SIGNAGE INDICATING THE CURRENT FINES/PENALTIES AS APPROVED BY THE STATE OF NEW JERSEY.
 2. VAN ACCESSIBLE SIGN SHALL BE 60" MINIMUM ABOVE FINISHED GRADE WHERE APPLICABLE. WHEN VAN ACCESSIBLE IS NOT REQUIRED, R7-8 SIGN SHALL BE SET AT 60" MINIMUM ABOVE FINISHED GRADE.
POINTY
 \$250 1ST OFFENSE
 SUBSEQUENT OFFENSES
 \$250 MIN. AND/OR
 UP TO 90 DAYS
 COMMUNITY SERVICE
TOW AWAY ZONE

ADA PARKING SIGN W/ VAN ACCESSIBLE SIGN
 NOT TO SCALE

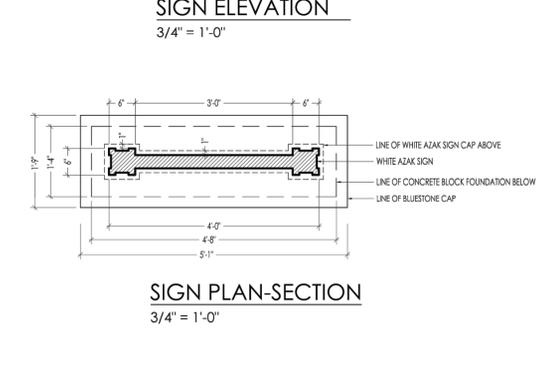


NOTES:
 ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT. ALL PAINT TO BE THERMOPLASTIC.

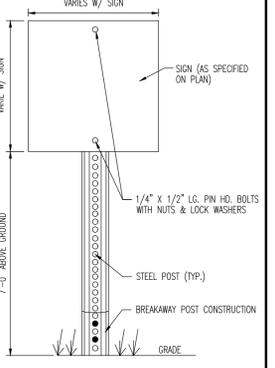
PAINTED MARKING DETAILS
 NOT TO SCALE



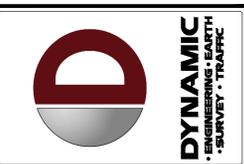
HAIRPIN PARKING STALL STRIPING DETAIL
 NOT TO SCALE



ID SIGN DETAIL (FREE STANDING)
 NOT TO SCALE



SIGN POST DETAIL
 NOT TO SCALE



NO.	DATE	REV.	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

PROJECT: ELITE PROPERTIES PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 624 VALLEY ROAD (C.R. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

DESIGNED BY: JCSJ
 CHECKED BY: JCSJ
 DRAWN BY: A/JW
 REVISIONS: WEB

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JOSEPH G. JAWORSKI
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 36618

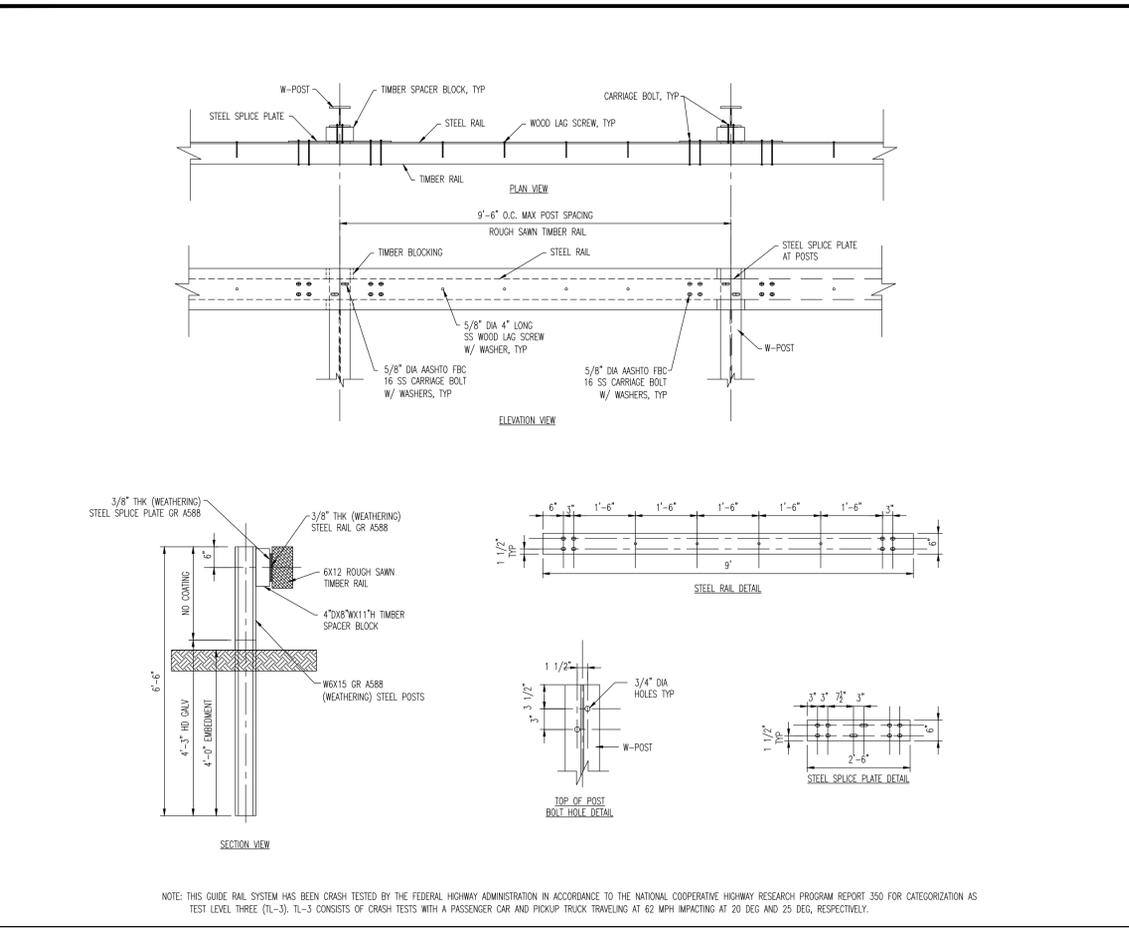
BRETT W. SKAPINETZ
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 41985

CONSTRUCTION DETAILS

SCALE: (H) AS SHOWN DATE: 08/07/2020
 PROJECT NO: 0555-99-010

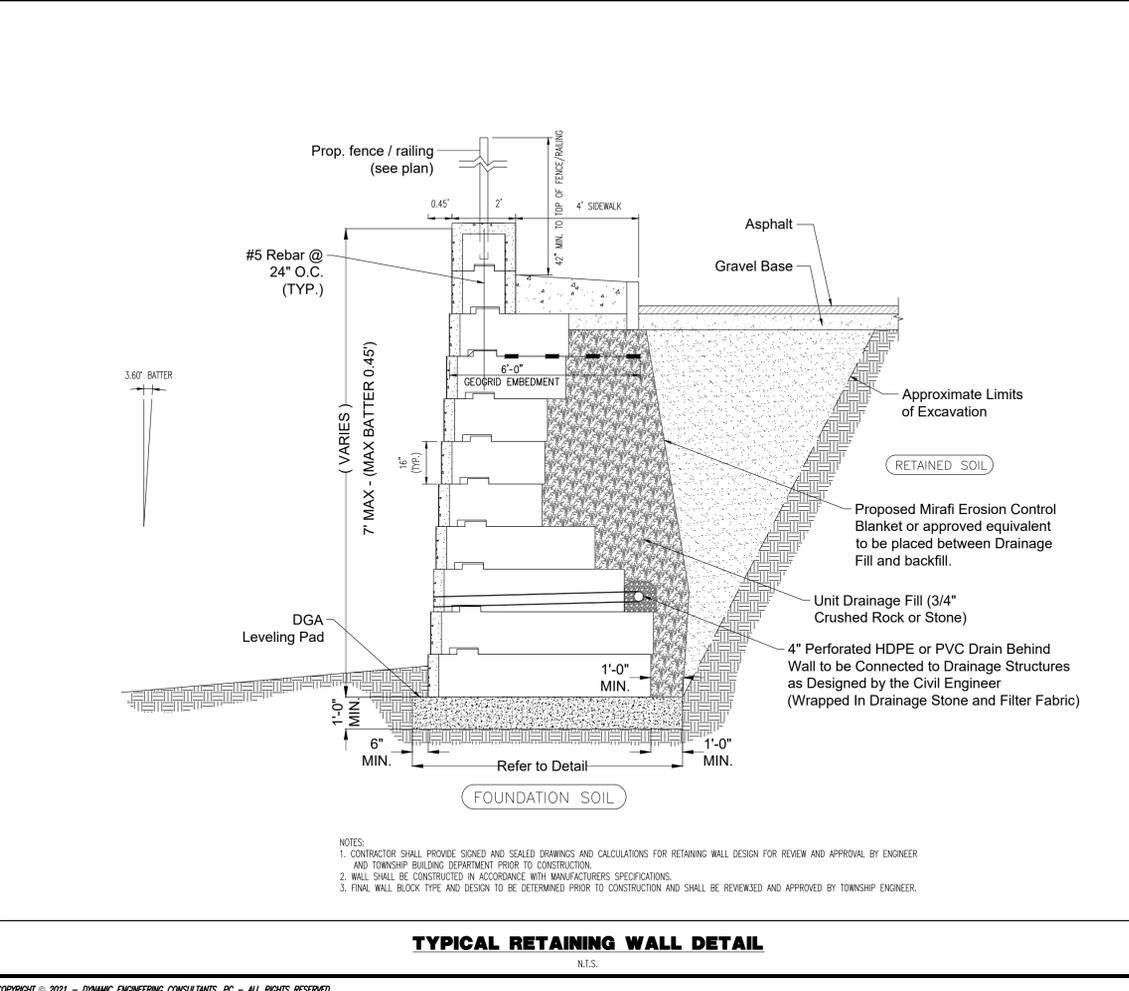
SHEET NO: 14 OF 21

Plotted: 02/05/21 - 12:06 PM, By: danderson
 File: \\s:\projects\local\defenders\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\0555990\0501.dwg, --- 15 CONSTRUCTION DETAILS



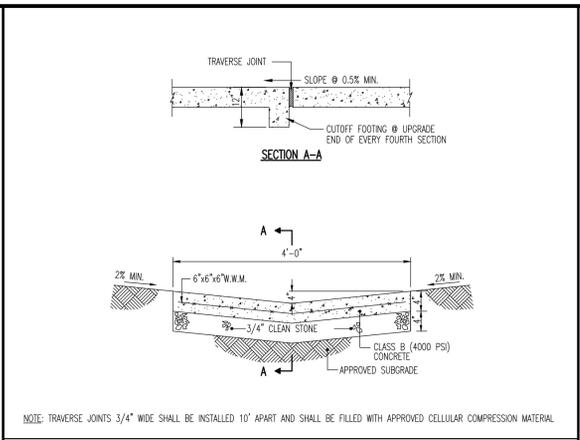
AESTHETIC GUIDERAIL DETAIL

NOT TO SCALE



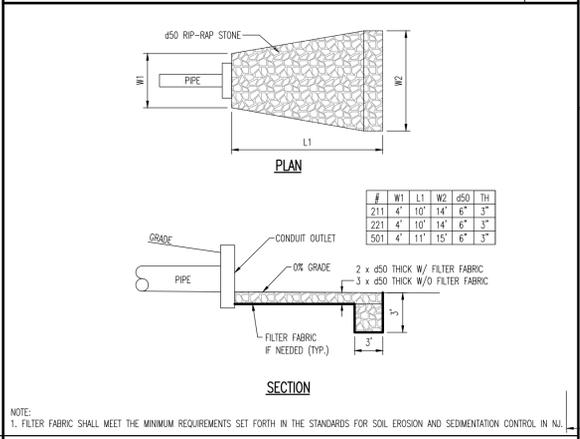
TYPICAL RETAINING WALL DETAIL

N.T.S.



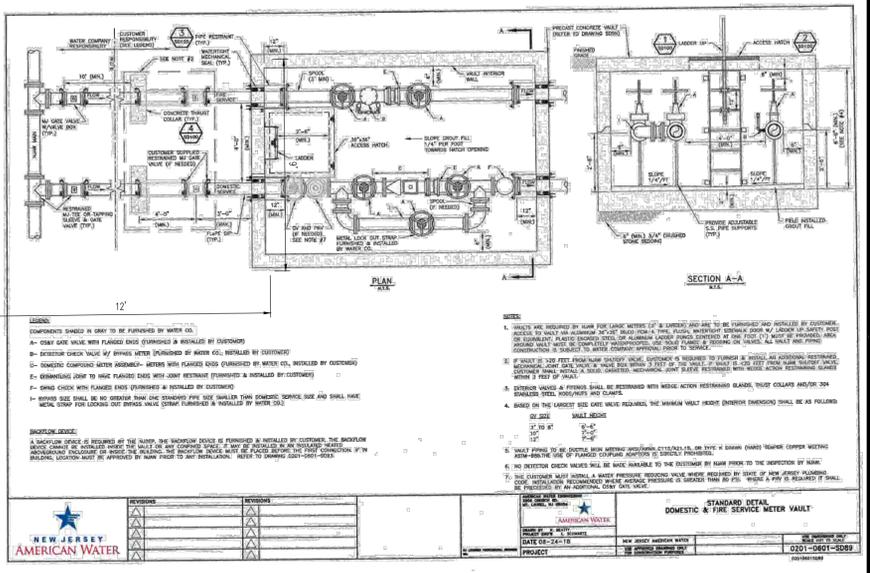
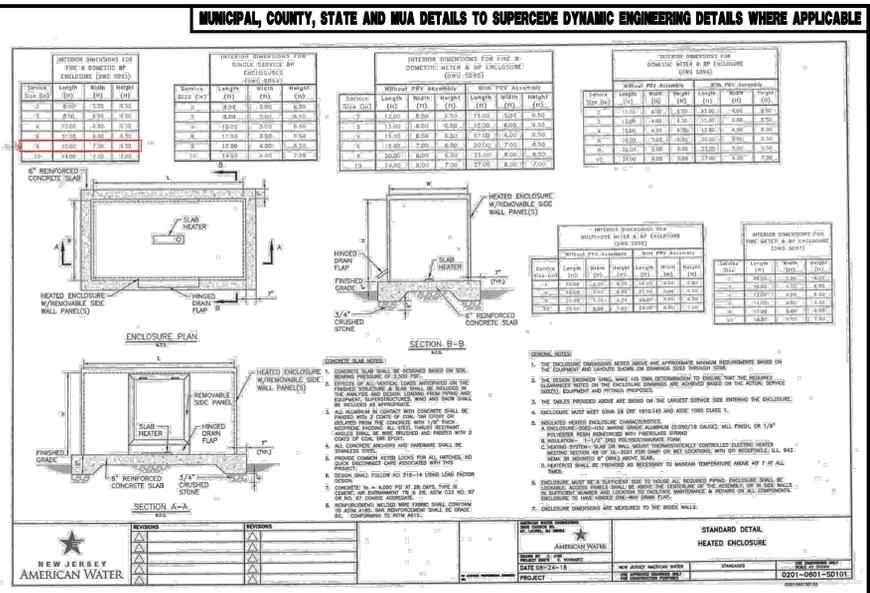
CONCRETE LOW FLOW CHANNEL

NOT TO SCALE



RIP RAP DETAIL

NOT TO SCALE



STANDARD DETAIL HEATED ENCLOSURE

CheckMate® Configurations and Custom Designs

Downstream Clamp

Downstream Flanged

Downstream Flanged Thimble Insert

Upstream Clamp

Upstream Flanged

Upstream Flanged Thimble Insert

Elliptical, Arch and Rectangular Pipes

Elliptical, arch and rectangular pipes for drainage and flood prevention projects have become popular, particularly in high water table areas with shallow surface gradients. CheckMate® Inline Check Valves are the perfect solution for backflow prevention in elliptical, arch and rectangular pipes.

Rubber Flanged

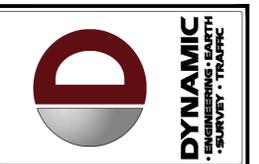
Rubber Flanged CheckMate® Valves can be manufactured with an integral rubber upstream or downstream flange. The flanged CheckMate® gets inserted into the host pipe then can be bolted to a mating flange or anchored to a concrete headwall. The flange can be circular with standard drilling or circular, square or rectangular with custom flange drilling. The valve is supplied with retaining rings for mounting.

Thimble Inserts

A CheckMate® Thimble Insert is a CheckMate® Valve that is factory-installed, clamped, and pinned into flanged or plain end pipe. The thimble insert assembly can either be inserted into the I.D. of the host pipe, or can be mounted to a mating flange or concrete headwall and extend beyond the pipe. Plain end thimble inserts are inserted into the host pipe and non-shrink grout is placed between the thimble insert O.D. and host pipe I.D. to form the seal.

Pipe Size (Inches)	OVERALL LENGTH		NUMBER OF CLAMPS	DIFF. DEPTH		BACK PRESSURE RATING		WEIGHT	
	Inches	Millimeters		Inches	Millimeters	Feet	Meters		Lbs
3	75	190	1	1.5	38	5	1.5	1.5	0.7
4	100	254	1	1.5	38	5	1.5	1.5	0.7
5	125	318	1	1.5	38	5	1.5	1.5	0.7
6	150	382	1	2.0	51	83	25.3	9	4
7	175	446	1	2.0	51	79	24.1	11	5
8	200	510	1	2.0	51	79	24.1	13	6
9	225	574	1	2.0	51	75	22.9	17	8
10	250	638	1	2.0	51	71	21.6	20	10
12	300	762	1	2.0	51	68	20.1	37	17
14	350	886	1	4.0	102	64	20.0	110	50
16	400	1010	1	4.0	102	60	18.3	133	52
18	450	1134	1	4.0	102	56	17.1	155	61
20	500	1258	2	8.0	203	53	16.2	223	102
24	600	1514	2	8.0	203	45	13.7	304	137
30	750	1905	2	8.0	203	38	11.6	500	227
36	900	2296	2	8.0	203	30	9.1	828	376
42	1050	2687	2	8.0	203	26	7.9	1423	646
48	1200	3078	2	8.0	203	23	7.0	1801	817
54	1350	3469	2	8.0	203	17	5.2	2700	1225
60	1500	3860	2	8.0	203	15	4.6	3515	1594
72	1800	4552	3	12.0	305	13	4.0	6100	2767
78	1950	4943	3	12.0	305	13	4.0	7000	3176

*Back pressure measured from pipe thimble. Higher back pressure ratings available. Consult factory.



NO.	DATE	REV.	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

PROJECT: ELITE PROPERTIES PROPOSED RESIDENTIAL DEVELOPMENT
 BLOCK 10801, LOT 3
 62A VALLEY ROAD (C.R. 512)
 TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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CONSTRUCTION DETAILS

SCALE: (H) AS SHOWN DATE: 08/07/2020
 PROJECT: 0555-99-010
 SHEET No: 15 Rev. #1