

SITE DEVELOPMENT PLAN APPROVAL DRAWINGS

AMS BUCHANAN

TAX MAP SECTION 43.16 | BLOCK 3 | LOT 16
WESTCHESTER COUNTY
ALBANY POST ROAD & CRAFT LANE
VILLAGE OF BUCHANAN, NEW YORK

Applicant:
BUCHANAN DEV AMS LLC
ONE BRIDGE PLAZA NORTH, SUITE 840
FORT LEE, NJ 07024
(212) 695-7585

Owner:
GUSTI REALTY LLC
33 CROTON POINT AVE
CROTON ON THE HUDSON, NY 10520

**Civil Engineer,
Surveyor and Landscape Architect:**
JMC
120 BEDFORD ROAD
ARMONK, NY 10504
(914) 273-5225

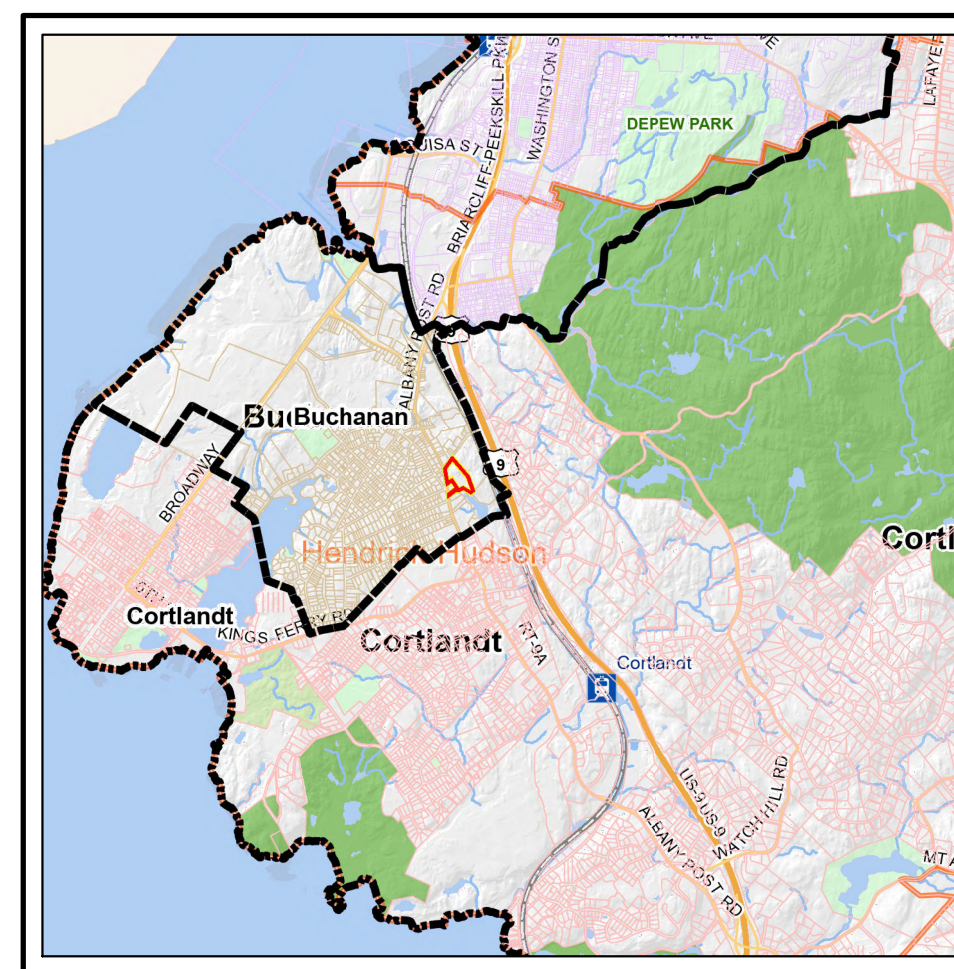
Attorney:
DeiBello Donnellan Weingarten Wise & Wederker, LLP
1 NORTH LEXINGTON AVENUE
WHITE PLAINS, NY 10601
(914) 681-0200

Architect:
PERKINS EASTMAN
677 WASHINGTON BOULEVARD, SUITE 101
STAMFORD, CT 06901
(203) 251-7400

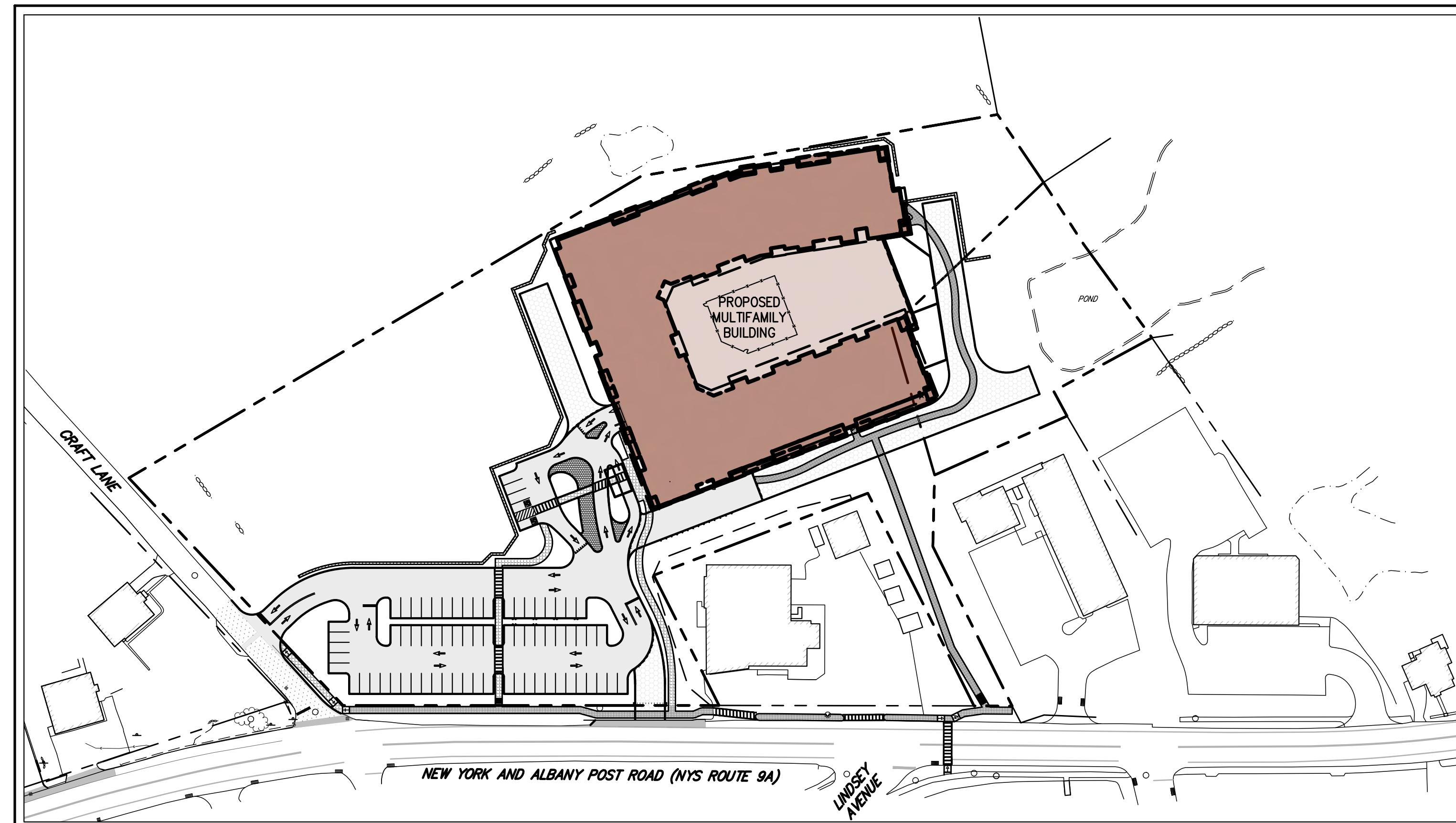
Geotechnical Engineer:
CARLIN-SIMPSON ASSOCIATES, LLC
61 MAIN STREET
SAYREVILLE, NJ 08872
(732) 432-5717

Mechanical and Plumbing Engineer:
STANTEC
30 OAK STREET SUITE 400
STAMFORD, CT 06901
(203) 536-5489

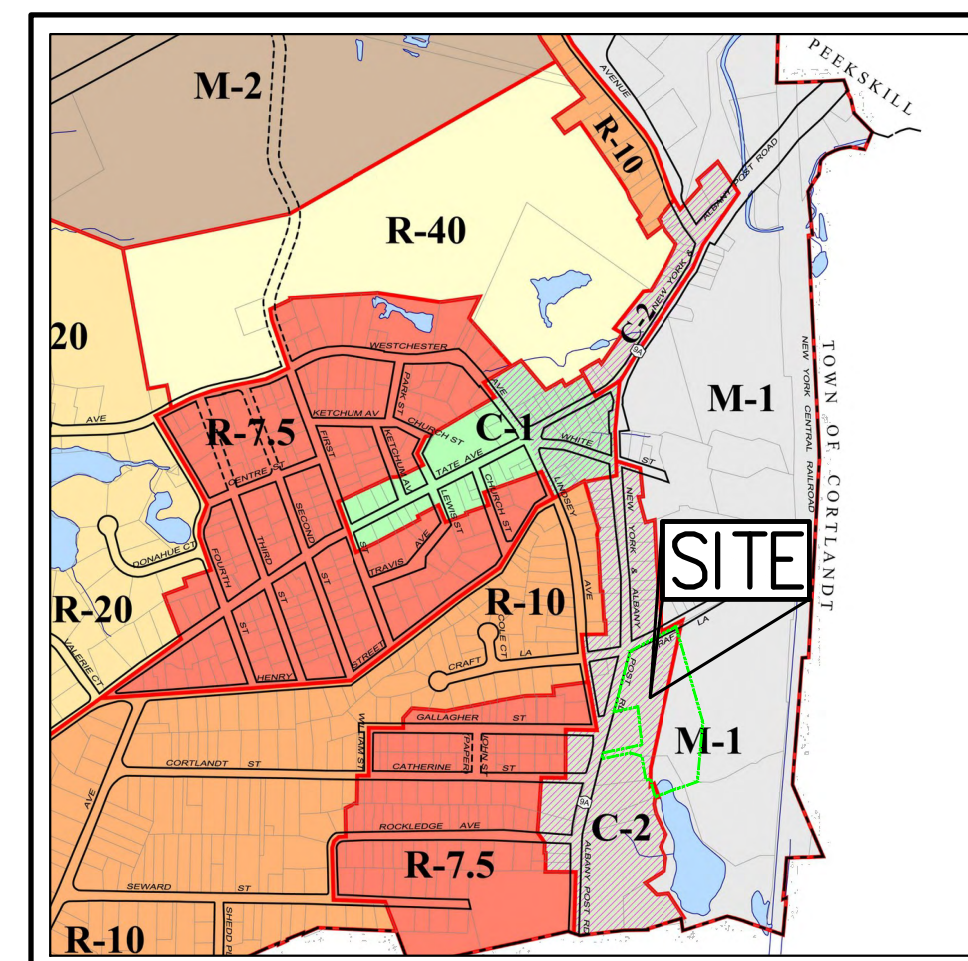
Structural Engineer:
VEITAS ENGINEERS
639 GRANITE STREET
BRAINTREE, MA 02184
(781) 843-2863



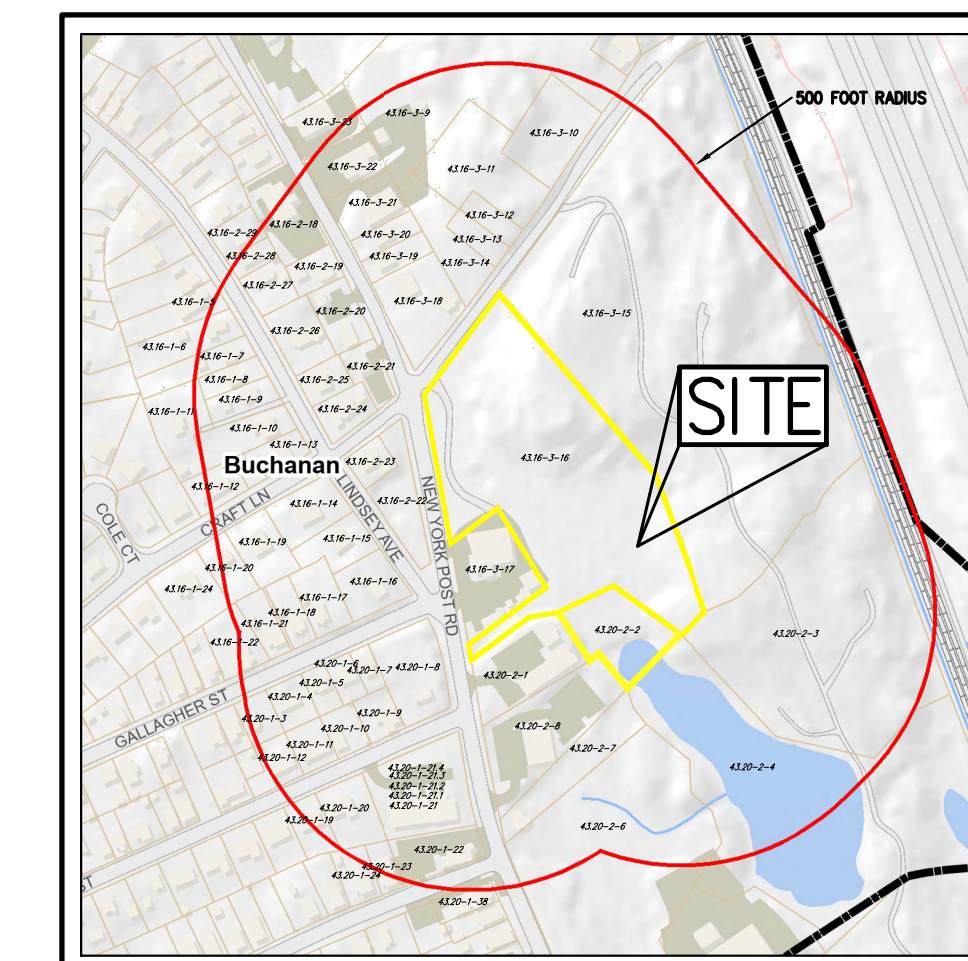
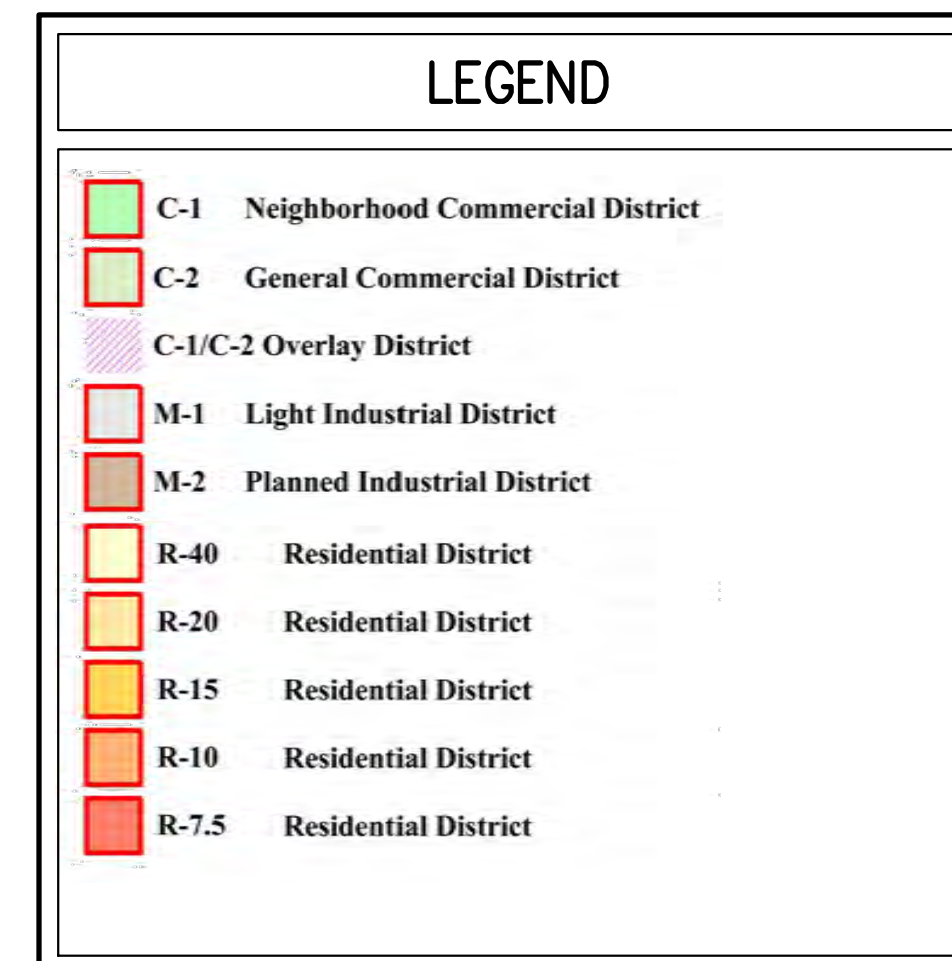
SCHOOL DISTRICT MAP
SCALE: 1" = 50,000'
SOURCE: WESTCHESTER GIS



AREA MAP
SCALE: 1" = 80'



ZONING MAP
SCALE: 1" = 1000'
SOURCE: ZONING MAP
VILLAGE OF BUCHANAN/ 2021



VICINITY MAP
SCALE: 1" = 900'
SOURCE: WESTCHESTERGIS

JMC Drawing List:

- C-000 COVER SHEET
- C-010 EXISTING CONDITIONS MAP
- C-020 SLOPE DISTURBANCE PLAN
- C-030 TREE REMOVAL PLAN
- C-100 SITE LAYOUT PLAN
- C-110 SIGHT DISTANCE ANALYSIS (SITE DRIVEWAY & CRAFT LANE)
- C-111 SIGHT DISTANCE ANALYSIS (CRAFT LANE & ALBANY POST ROAD)
- C-112 SIGHT DISTANCE ANALYSIS (PEDESTRIAN CROSSING)
- C-200 SITE GRADING PLAN
- C-300 SITE UTILITIES PLAN
- C-310 SANITARY SEWER AND WATER MAIN PROFILES
- C-400 SITE EROSION AND SEDIMENT CONTROL PLAN
- C-500 SITE LIGHTING PLAN
- C-700 TRUCK TURNING PLAN (SU-30)
- C-701 TRUCK TURNING PLAN (FIRETRUCK)
- C-900 CONSTRUCTION DETAILS
- C-901 CONSTRUCTION DETAILS
- C-902 CONSTRUCTION DETAILS
- C-903 CONSTRUCTION DETAILS
- C-904 CONSTRUCTION DETAILS
- C-905 CONSTRUCTION DETAILS
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- C-912 CONSTRUCTION DETAILS
- C-913 CONSTRUCTION DETAILS
- C-914 CONSTRUCTION DETAILS
- L-100 SITE LANDSCAPING PLAN

TABLE OF LAND USE			
ZONING DISTRICT: "C-2" - "GENERAL COMMERCIAL OVERLAY DISTRICT"			
SCHOOL DISTRICT: HENDRICK HUDSON			
PROPOSED USE: MULTIFAMILY APARTMENT BUILDING & RETAIL			
DESCRIPTION	REQUIRED / PERMITTED	PROVIDED	
REGULATION			
MINIMUM LOT AREA (SQUARE FEET)	20,000	259,667	
MINIMUM LOT WIDTH (FEET)	100	328	
MINIMUM LOT FRONTAGE STREET LINE (FEET)	100	328	
MINIMUM LOT DEPTH (FEET)	100	304	
MAXIMUM LOT COVERAGE (PERCENT)	50 ⁽¹⁾	42	
MULTIFAMILY APARTMENT BUILDING			
DWELLING UNITS (UNIT)	-	148	
MINIMUM FRONT YARD (FEET)	30	314	
MINIMUM ONE SIDE YARD (FEET)	5	7	
MINIMUM BOTH SIDE YARDS (FEET)	15	64	
MINIMUM REAR YARD (FEET)	10	86	
MAXIMUM HEIGHT (STORIES/FEET)	5/65	5/180	
PARKING & LOADING			
MINIMUM FRONT YARD (FEET)	10	10	
MINIMUM SIDE YARD (FEET)	3	33	
MINIMUM REAR YARD (FEET)	3	61	
MINIMUM OFF-STREET PARKING SPACES			
RESIDENCE (1.5 SPACES PER DWELLING UNIT)	222	223 ⁽²⁾	
MINIMUM OFF-STREET LOADING			
RESIDENCE	0	0	

NOTES:
(1) PER SECTION 211-241.0(1) OF THE VILLAGE ZONING CODE, THE PERMITTED LOT COVERAGE MAY BE INCREASED TO 75% AT THE DISCRETION OF THE PLANNING BOARD.
(2) PROPOSED RESIDENTIAL PARKING PROVIDED INCLUDES 74 SURFACE PARKING SPACES AND 149 PARKING SPACES WITHIN THE BUILDING.

GENERAL CONSTRUCTION NOTES APPLY TO ALL WORK HEREIN:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED. EXPLORATORY EXCAVATIONS SHALL COMPLY WITH CODE 753 REQUIREMENTS. NO WORK SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE NOTIFIED THE CONTRACTOR THAT THEIR UTILITIES HAVE BEEN LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, INsofar AS THEY MAY BE ENDANGERED BY THE CONTRACTOR'S OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, IMMEDIATELY REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION OF UTILITY SERVICE.
- CONTRACTOR SHALL HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING UTILITIES DEPTHS AND ADVISE OF ANY CONFLICTS WITH PROPOSED UTILITIES. IF CONFLICTS ARE PRESENT, THE OWNER'S FIELD REPRESENTATIVE, JMC, PLLC AND THE APPLICABLE MUNICIPALITY OR AGENCY SHALL BE NOTIFIED IN WRITING. THE EXISTING/PROPOSED UTILITIES RELOCATION SHALL BE DESIGNED BY JMC, PLLC.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL LOCAL PERMITS REQUIRED.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERETO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA); AND APPLICABLE SAFETY, HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107-05 (SAFETY AND HEALTH REQUIREMENTS) OF THE NYS DOT STANDARD SPECIFICATIONS. IF THE CONTRACTOR PERFORMS ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE APPROVAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY THE SCOPE OF WORK SHOWN HEREON AT ALL TIMES TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING PAVEMENT TO REMAIN.
- THE BUILDING INSPECTOR OR VILLAGE ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF DEEMED APPROPRIATE TO MITIGATE UNFORESEEN SILTATION AND EROSION OF DISTURBED SOILS.
- "AS-BUILT" DRAWINGS OF THE SITE IMPROVEMENTS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER FOR REVIEW PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY.
- PROPOSED SOIL SLOPES EXCEEDING 1:2 (V:H) SHALL BE RIP-RAPPED AND SHALL NOT EXCEED 1:1 (V:H).
- IMPORTED FILL MUST BE CERTIFIED AND APPROVED BY THE VILLAGE BUILDING INSPECTOR OR ENGINEER.
- THE RESTORATION WORK FOR THE ROADWAY AND SHOULDER CONSTRUCTION WITHIN THE VILLAGE RIGHT-OF-WAY SHALL BE PERFORMED TO THE SATISFACTION OF THE VILLAGE ENGINEER AND NYS DOT.

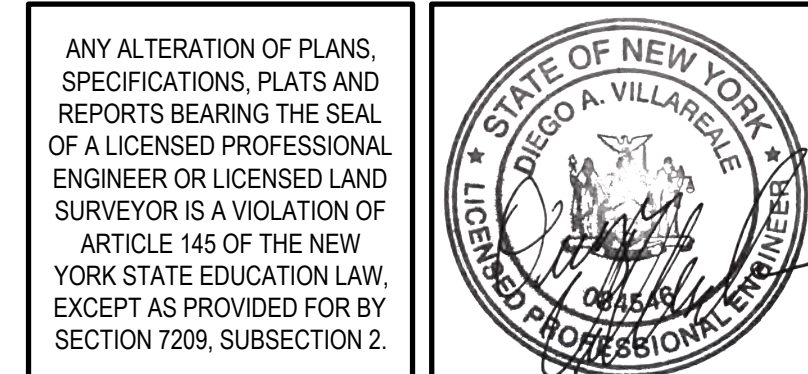
SUBSURFACE UTILITY LOCATIONS ARE BASED ON A COMPILATION OF FIELD EVIDENCE, AVAILABLE RECORD PLANS AND/OR UTILITY MARK-OUTS. THE LOCATION OR COMPLETENESS OF UNDERGROUND INFORMATION CANNOT BE GUARANTEED. VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.



No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/30/2023	EKG
2.	NYS DOT SUBMISSION	12/01/2023	EKG
3.	VILLAGE SUBMISSION	12/06/2023	EKG
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EKG

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
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www.jmcpllc.com

Drawn: EKG Approved: AN
Scale: AS SHOWN
Date: 10/17/2023
Project No: 22062
22062-COVER COVER COVER.dwg
Drawing No: **C-000**

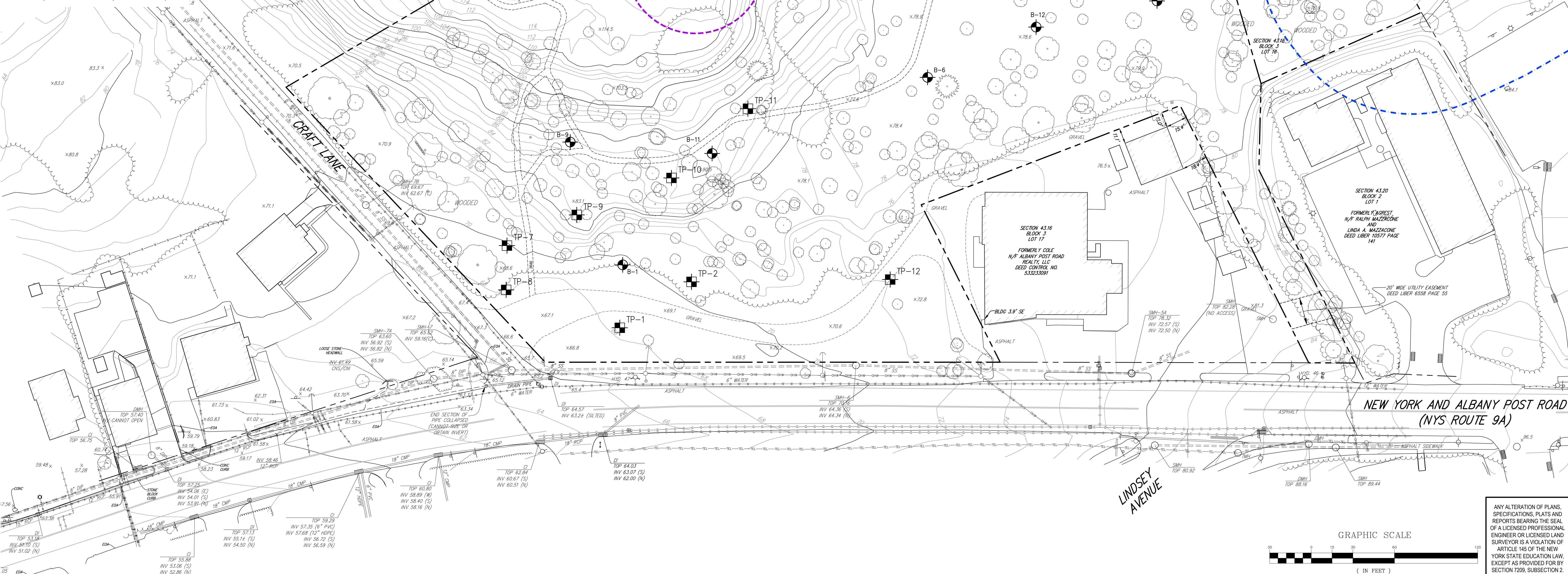


NOT FOR CONSTRUCTION

LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING TREE AND DESIGNATION
	EXISTING TREE LINE
	EXISTING DIRECTIONAL ARROWS
	EXISTING PAINT
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES
	EXISTING PEDESTRIAN CROSSING
	EXISTING STORM DRAIN LINE AND SIZE
	EXISTING SANITARY LINE AND SIZE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	BORING LOCATION AND DESIGNATION
	TEST PIT LOCATION AND DESIGNATION
	100 FT. WETLAND BUFFER
	50 FT. HILL TOP BUFFER

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM A SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY JMC, PLLC, REVISED 12/01/2023.
- WETLANDS SHOWN HEREON AS FLAGGED BY ECOLOGISCIENCES, INC. ON NOVEMBER 28, 2023 AND SURVEYED BY JMC, PLLC ON DECEMBER 1, 2023.



NOT FOR CONSTRUCTION

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	WORK SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

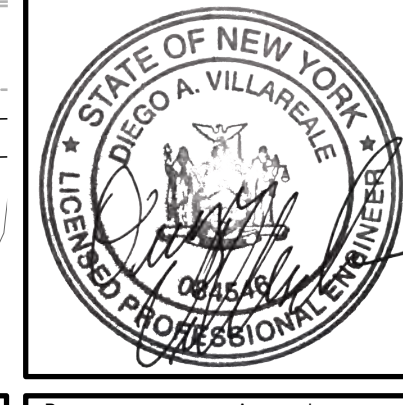
APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

ARCHITECT: **PERKINS EASTMAN**
 677 WASHINGTON BOULEVARD, SUITE 101
 STAMFORD, CT 06901

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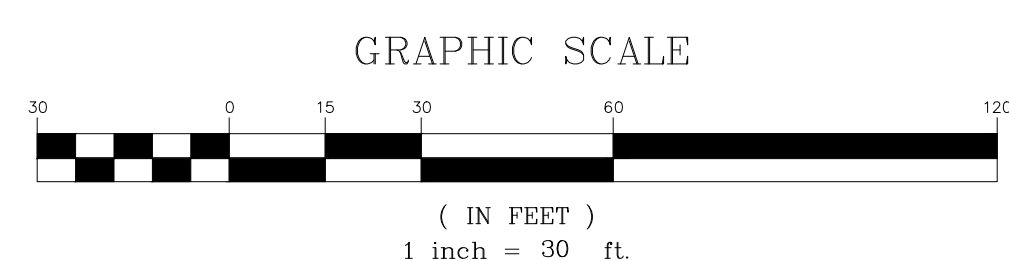


EXISTING CONDITIONS MAP
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: EXIST
C-010

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.



STEEP SLOPES IMPACT (ON-SITE)

EXISTING SITE AREA: ±259,667 S.F. / ±5.96 A.C.
 EXISTING STEEP SLOPES: 85,655.75 S.F. (±33% OF SITE)
 PROPOSED IMPACTED 15-30% STEEP SLOPES: **22,148 S.F.(±8.5% OF SITE)**
(±50.3% OF EXISTING 15-30% STEEP SLOPES)
 PROPOSED IMPACTED 30% > STEEP SLOPES: **19,236 (±7.4% OF SITE)**
(±35.4% OF EXISTING 30% > STEEP SLOPES)

WETLAND BUFFER IMPACT

EXISTING BUFFER ON PROPERTY: 25,558 S.F. (9.8% OF SITE)
 PROPOSAL IMPACTS BUFFER: 13,295 S.F. (5.1% OF SITE)

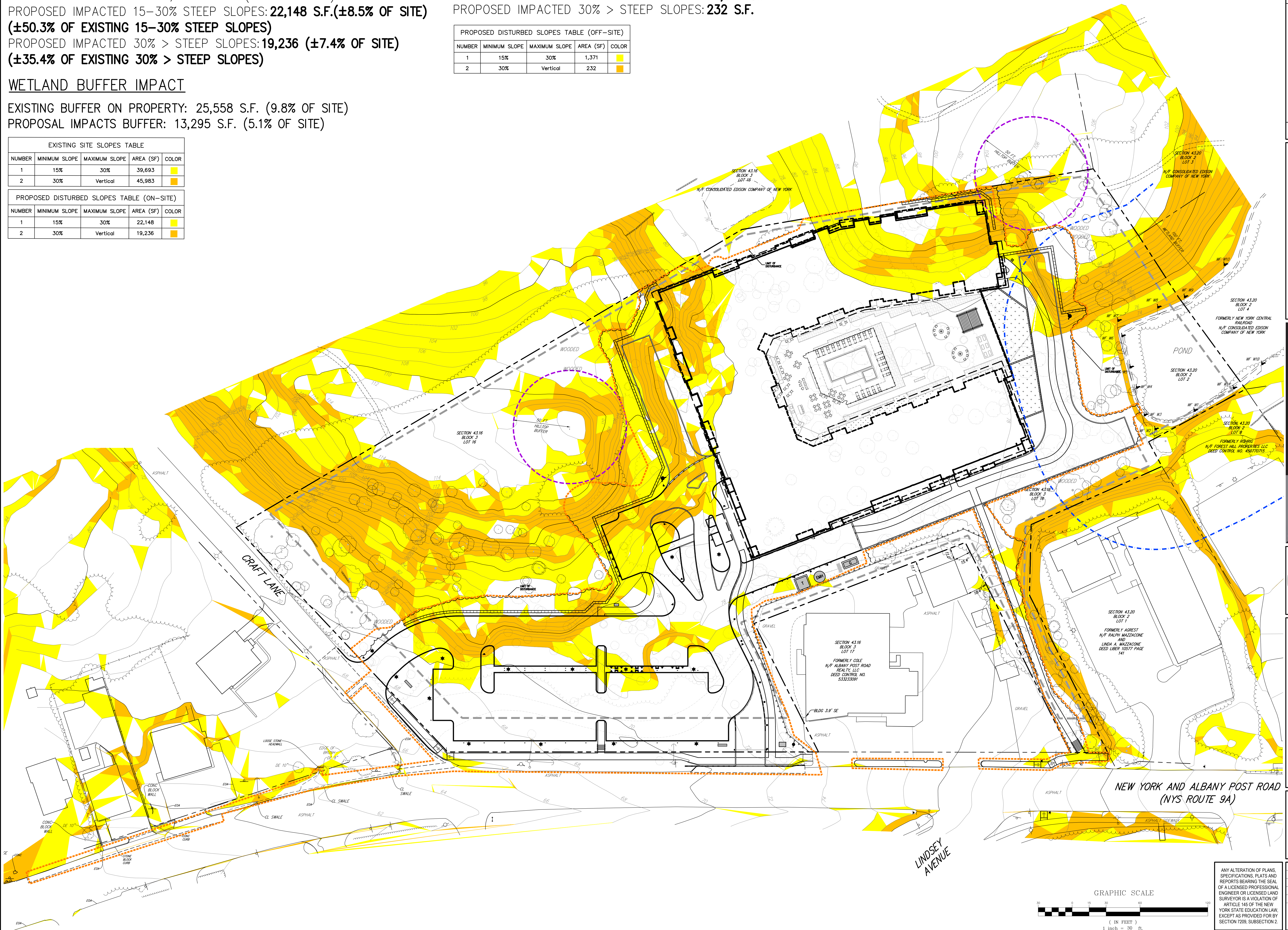
EXISTING SITE SLOPES TABLE				
NUMBER	MINIMUM SLOPE	MAXIMUM SLOPE	AREA (SF)	COLOR
1	15%	30%	39,693	Yellow
2	30%	Vertical	45,983	Orange

PROPOSED DISTURBED SLOPES TABLE (ON-SITE)				
NUMBER	MINIMUM SLOPE	MAXIMUM SLOPE	AREA (SF)	COLOR
1	15%	30%	22,148	Yellow
2	30%	Vertical	19,236	Orange

STEEP SLOPES IMPACT (OFF-SITE)

OFF-SITE DISTURBANCE AREA: ±13,600 S.F. / ±0.31 A.C.
 PROPOSED IMPACTED 15-30% STEEP SLOPES: **1,371 S.F.**
 PROPOSED IMPACTED 30% > STEEP SLOPES: **232 S.F.**

PROPOSED DISTURBED SLOPES TABLE (OFF-SITE)				
NUMBER	MINIMUM SLOPE	MAXIMUM SLOPE	AREA (SF)	COLOR
1	15%	30%	1,371	Yellow
2	30%	Vertical	232	Orange



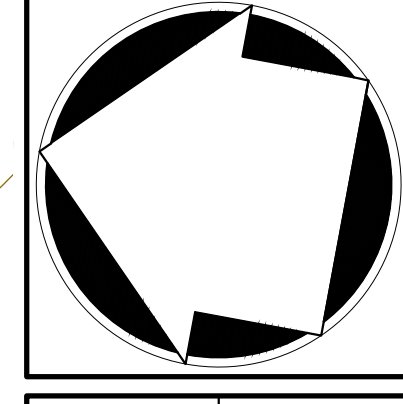
NOT FOR CONSTRUCTION

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	VILLAGE SUBMISSION	12/06/2023	EJK
3.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

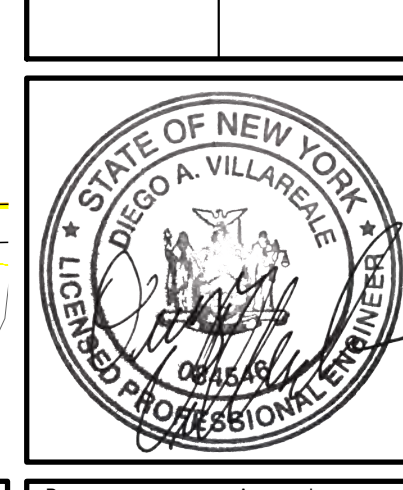
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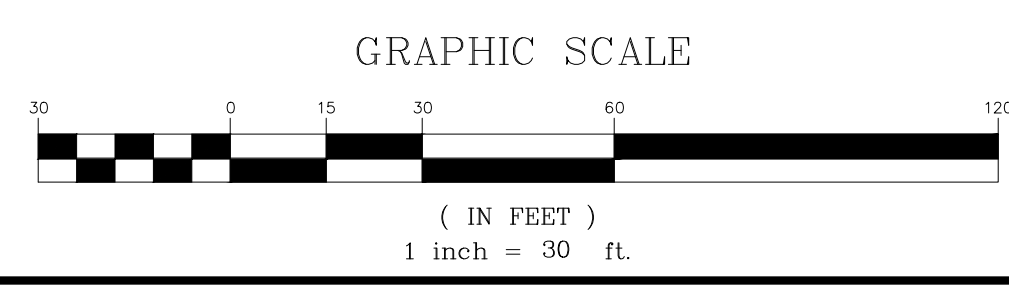
SLOPE DISTURBANCE PLAN

AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: **C-020**

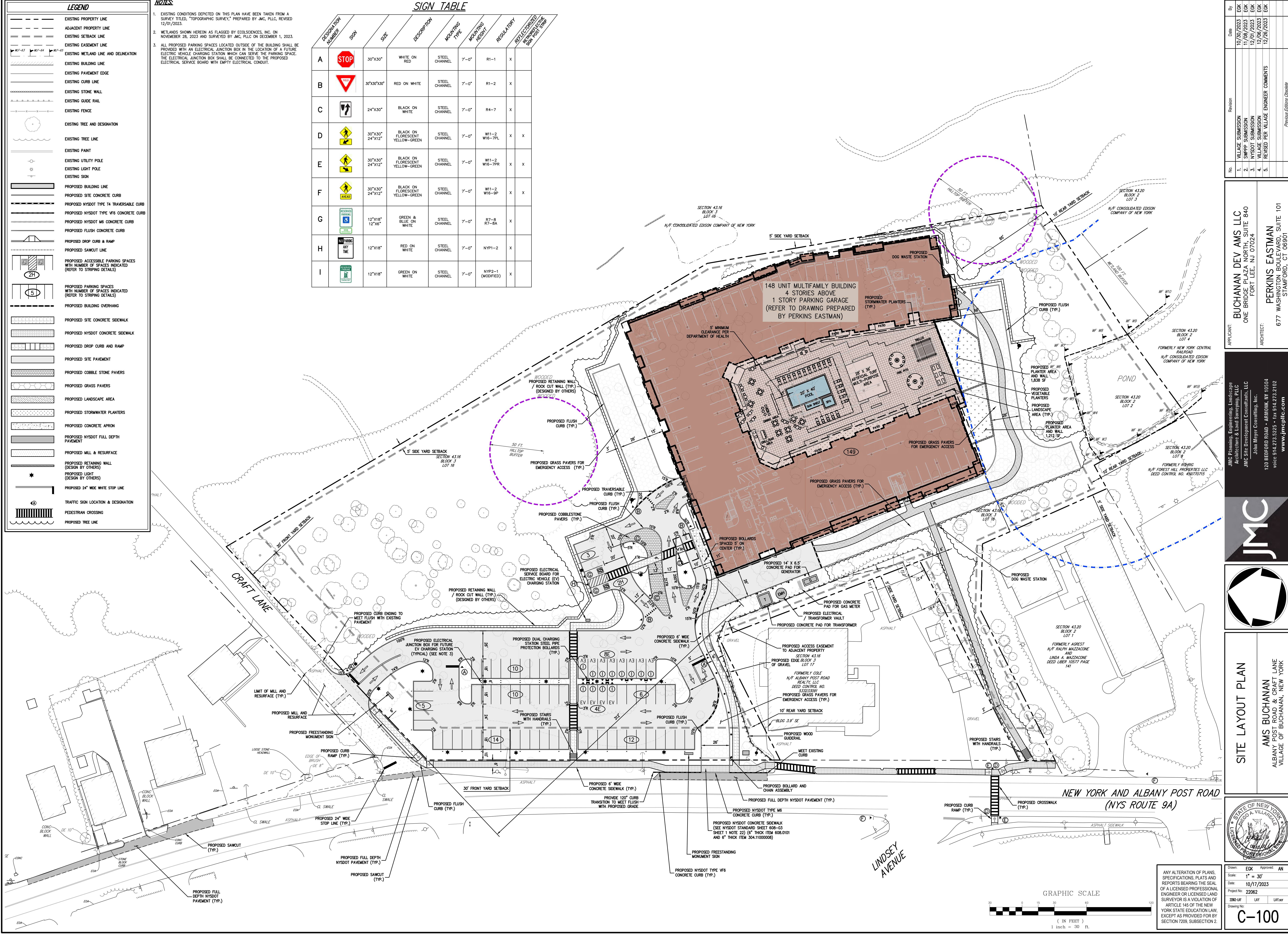
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LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING SETBACK LINE
	EXISTING EASEMENT LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING TREE AND DESIGNATION
	EXISTING TREE LINE
	EXISTING PAINT
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED SITE CONCRETE CURB
	PROPOSED NYSOT TYPE T4 TRAVERSABLE CURB
	PROPOSED NYSOT TYPE V6 CONCRETE CURB
	PROPOSED NYSOT M6 CONCRETE CURB
	PROPOSED FLUSH CONCRETE CURB
	PROPOSED DROP CURB & RAMP
	PROPOSED SAWCUT LINE
	PROPOSED ACCESSIBLE PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
	PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
	PROPOSED BUILDING OVERHANG
	PROPOSED SITE CONCRETE SIDEWALK
	PROPOSED NYSOT CONCRETE SIDEWALK
	PROPOSED DROP CURB AND RAMP
	PROPOSED SITE PAVEMENT
	PROPOSED COBBLE STONE PAVERS
	PROPOSED GRASS PAVERS
	PROPOSED LANDSCAPE AREA
	PROPOSED STORMWATER PLANTERS
	PROPOSED CONCRETE APRON
	PROPOSED NYSOT FULL DEPTH PAVEMENT
	PROPOSED MILL & RESURFACE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED LIGHT (DESIGN BY OTHERS)
	PROPOSED 24" WIDE WHITE STOP LINE
	TRAFFIC SIGN LOCATION & DESIGNATION
	PEDESTRIAN CROSSING
	PROPOSED TREE LINE

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM A SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY JMC, PLLC, REVISED 12/01/2023.
 - WETLANDS SHOWN HEREON AS FLAGGED BY ECOSYSTEMS, INC. ON NOVEMBER 28, 2023 AND SURVEYED BY JMC, PLLC ON DECEMBER 1, 2023.
 - ALL PROPOSED PARKING SPACES LOCATED OUTSIDE OF THE BUILDING SHALL BE PROVIDED WITH AN ELECTRICAL JUNCTION BOX IN THE LOCATION OF A FUTURE ELECTRIC VEHICLE CHARGING STATION WHICH CAN SERVE THE PARKING SPACE. THE ELECTRICAL JUNCTION BOX SHALL BE CONNECTED TO THE PROPOSED ELECTRICAL SERVICE BOARD WITH EMPTY ELECTRICAL CONDUIT.

DESIGNATION NUMBER	SIGN	SIZE	DESCRIPTION	MONITORING TYPE	MONITORING HEIGHT	REGULATORY	REFLECTORIZED
A		30"x30"	WHITE ON RED	STEEL CHANNEL	7'-0"	R1-1	X
B		30"x30"x30"	RED ON WHITE	STEEL CHANNEL	7'-0"	R1-2	X
C		24"x30"	BLACK ON WHITE	STEEL CHANNEL	7'-0"	R4-7	X
D		30"x30" 24"x12"	BLACK ON FLORESCENT YELLOW-GREEN	STEEL CHANNEL	7'-0"	W11-2 W16-7PL	X X
E		30"x30" 24"x12"	BLACK ON FLORESCENT YELLOW-GREEN	STEEL CHANNEL	7'-0"	W11-2 W16-7PR	X X
F		30"x30" 24"x12"	BLACK ON FLORESCENT YELLOW-GREEN	STEEL CHANNEL	7'-0"	W11-2 W16-9P	X X
G		12"x18" 12"x6"	GREEN & BLUE ON WHITE	STEEL CHANNEL	7'-0"	R7-8 R7-8A	X
H		12"x18"	RED ON WHITE	STEEL CHANNEL	7'-0"	NYP1-2	X
I		12"x18"	GREEN ON WHITE	STEEL CHANNEL	7'-0"	NYP2-1 (MODIFIED)	X



NOT FOR CONSTRUCTION

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1.	VILLAGE SUBMISSION	10/30/2023	EJK
2.	SWPPP SUBMISSION	11/09/2023	EJK
3.	NYSOT SUBMISSION	12/07/2023	EJK
4.	VILLAGE SUBMISSION	12/06/2023	EJK
5.	REVISED PER VILLAGE ENGINEER COMMENTS	12/29/2023	EJK

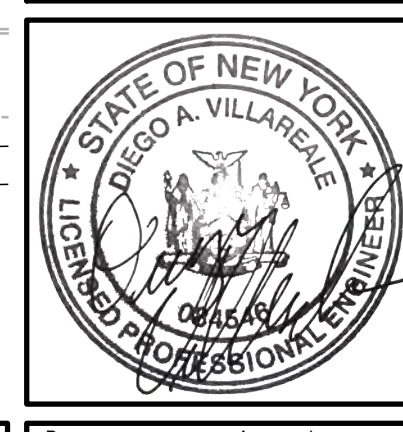
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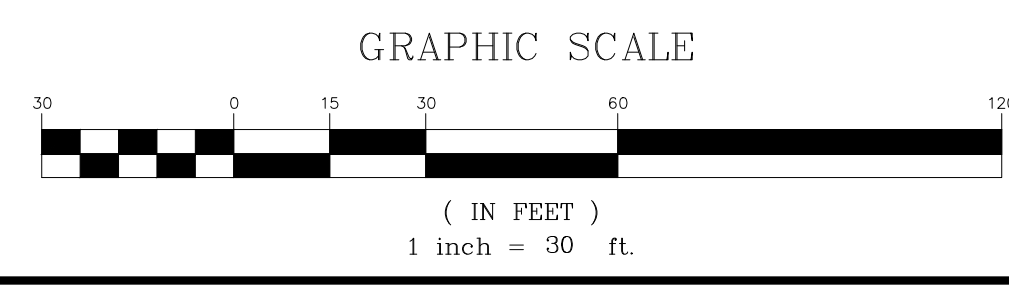


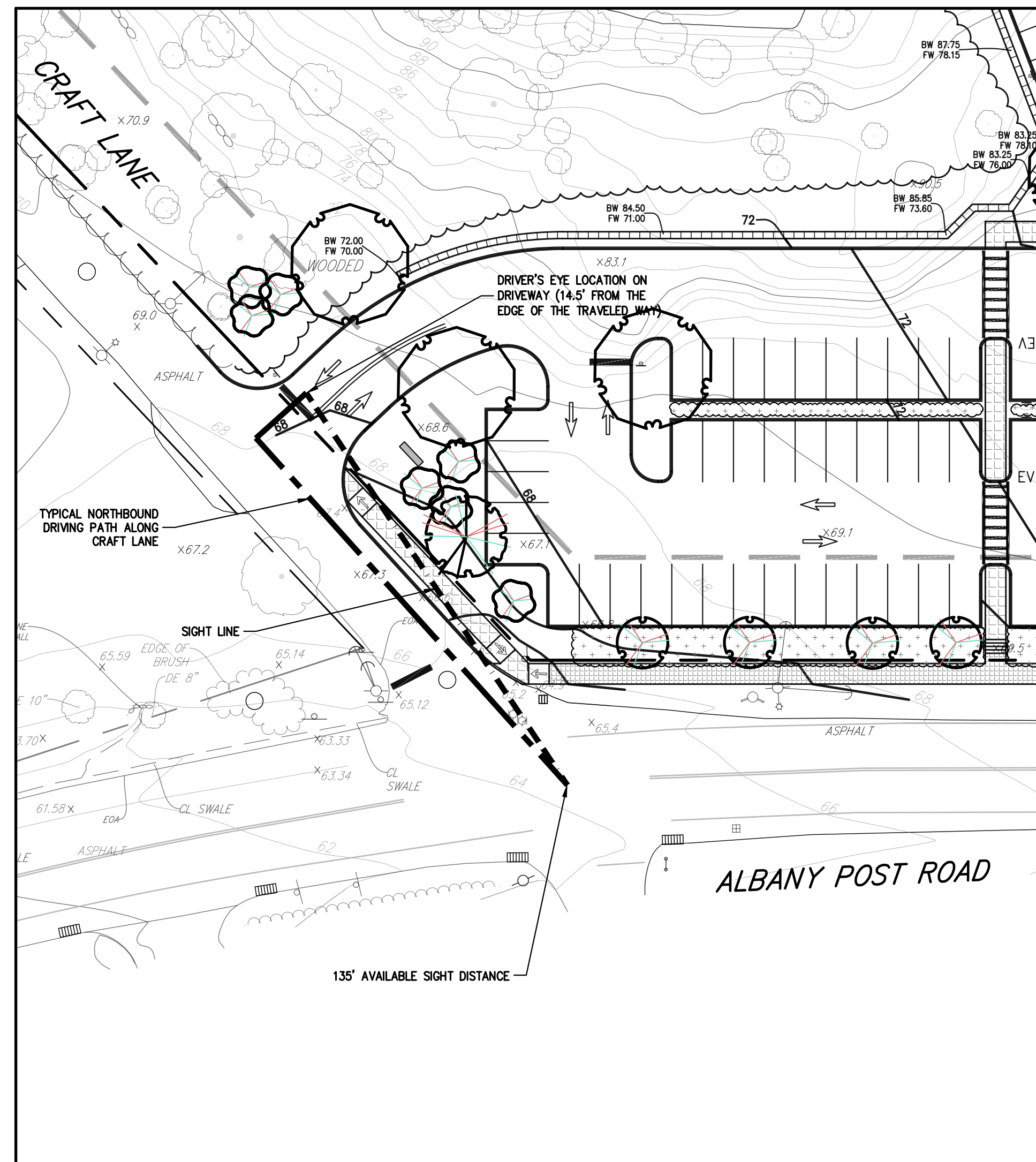
SITE LAYOUT PLAN
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: LAY
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C-100

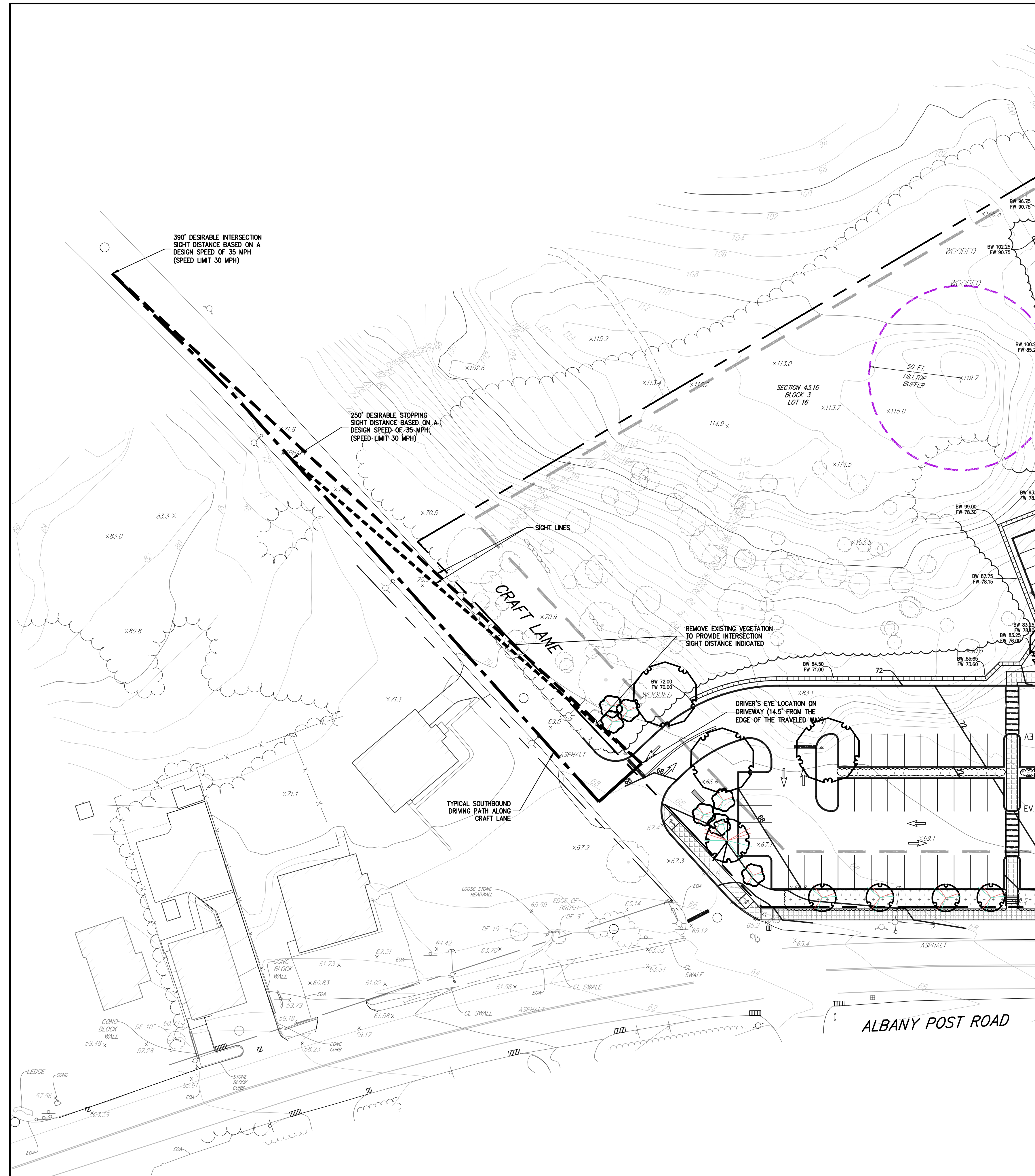
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RIGHT TURN FROM STOP (LOOKING LEFT)

SCALE: 1" = 30'



LEFT TURN FROM STOP (LOOKING RIGHT)

SCALE: 1" = 30'

NOT FOR CONSTRUCTION

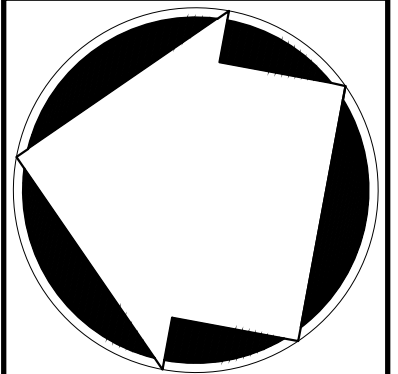
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Client: EGK Approved: AN
 Scale: 1" = 30'
 Date: 12/20/2023
 Project No: 22062
 Drawing No: 30-CL 30-SP
C-110



SIGHT DISTANCE ANALYSIS PLAN
 (SITE DRIVEWAY & CRAFT LANE)
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



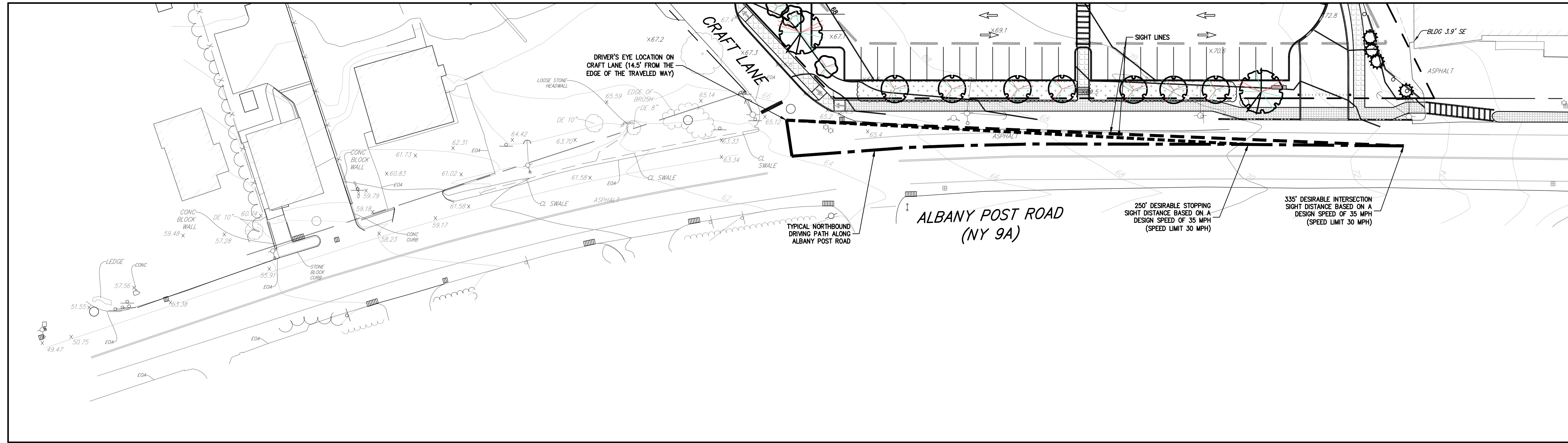
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 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
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 voice 914.273.5225 • fax 914.273.2102
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APPLICANT: BUCHANAN DEV AMS LLC
 ONE BRIDGE PLAZA NORTH, SUITE 840
 FORT LEE, NJ 07024
 ARCHITECT: PERKINS EASTMAN
 677 WASHINGTON BOULEVARD, SUITE 101
 STAMFORD, CT 06901

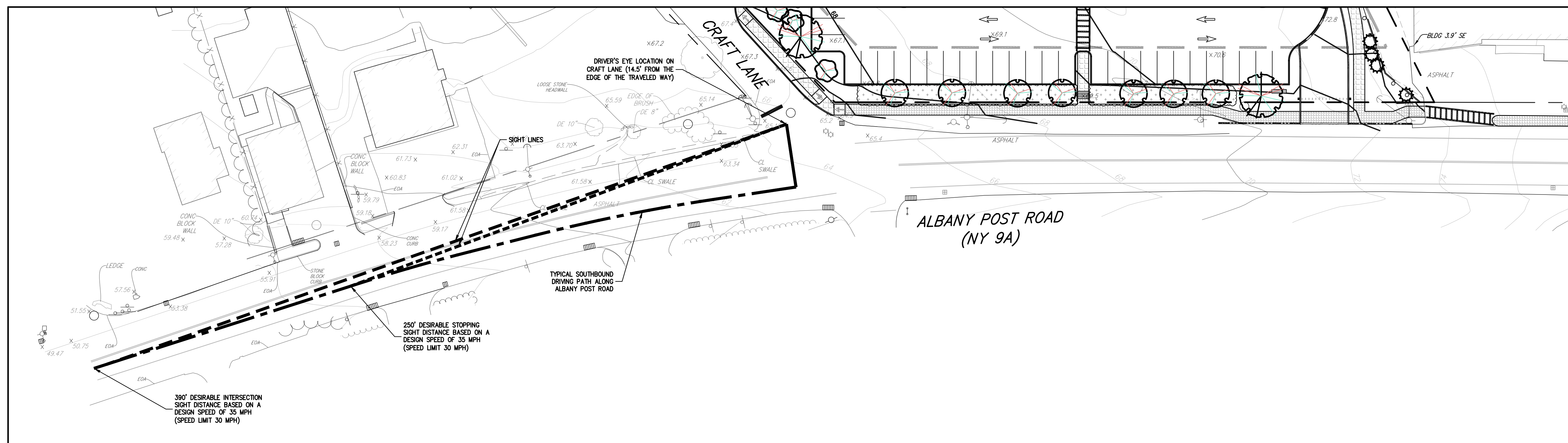
No.	Revision	Date	By

Prepared: Edoardo Villarreal



RIGHT TURN FROM STOP (LOOKING LEFT)

SCALE: 1" = 30'



LEFT TURN FROM STOP (LOOKING RIGHT)

SCALE: 1" = 30'

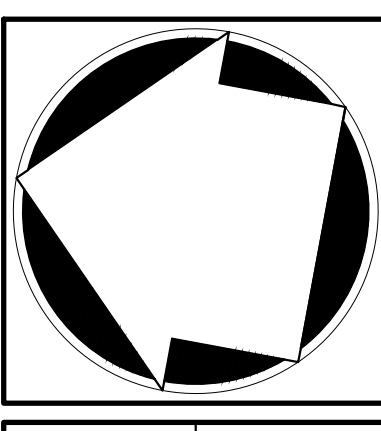
No.	Revision	Date	By

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 840
 FORT LEE, NJ 07024

ARCHITECT: **PERKINS EASTMAN**
 677 WASHINGTON BOULEVARD, SUITE 101
 STAMFORD, CT 06901

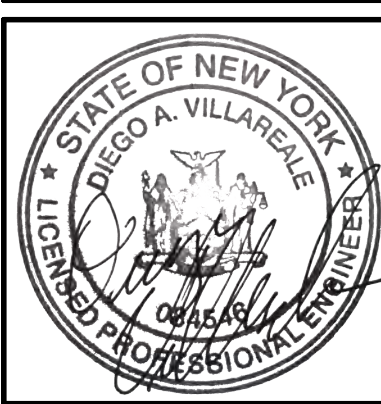
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SIGHT DISTANCE ANALYSIS PLAN
 (CRAFT LANE & ALBANY POST ROAD)

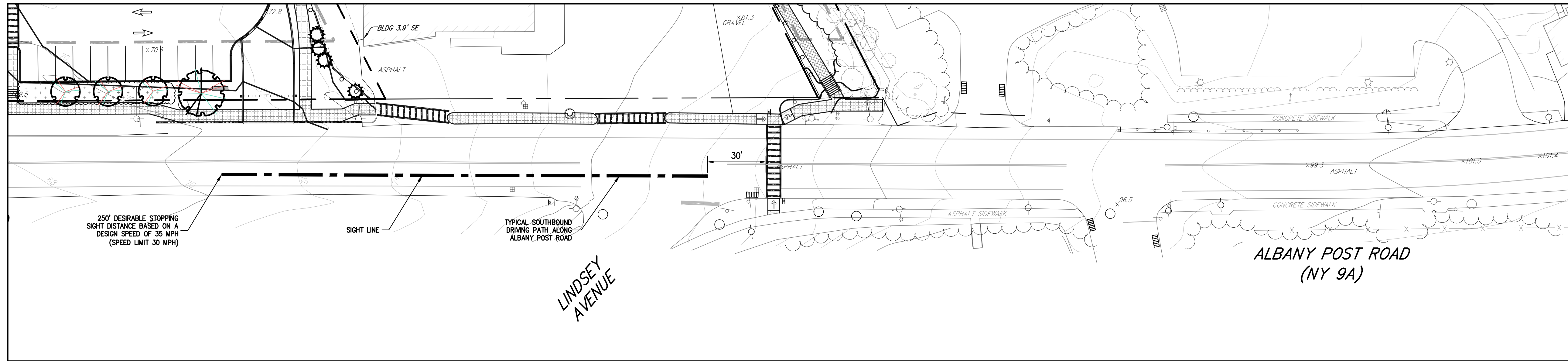
AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



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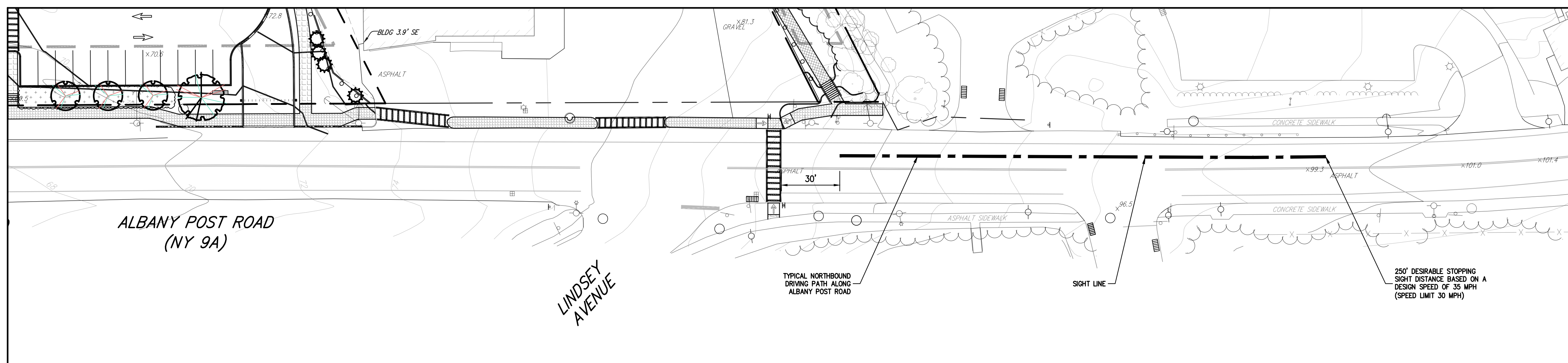
Drawn: **EJK** Approved: **AN**
 Scale: **1" = 30'**
 Date: **12/20/2023**
 Project No: **22062**
 Date: **SD-APR** **SD-APR**
 Drawing No: **C-111**

NOT FOR CONSTRUCTION



RIGHT TURN FROM STOP (LOOKING LEFT)

SCALE: 1" = 30'



LEFT TURN FROM STOP (LOOKING RIGHT)

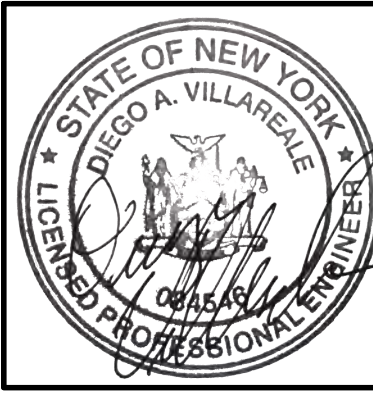
SCALE: 1" = 30'

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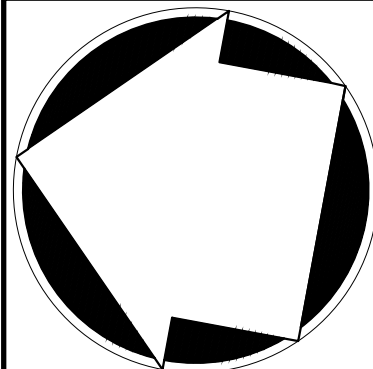
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Drawn: EGK Approved: AN
 Scale: 1" = 30'
 Date: 12/20/2023
 Project No: 22062
 Drawing No: SD-CW SD-SP
C-112



SIGHT DISTANCE ANALYSIS PLAN
 (PEDESTRIAN CROSSING)
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



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APPLICANT: BUCHANAN DEV AMS LLC
 ONE BRIDGE PLAZA NORTH, SUITE 840
 FORT LEE, NJ 07024
 ARCHITECT: PERKINS EASTMAN
 677 WASHINGTON BOULEVARD, SUITE 101
 STAMFORD, CT 06901

No.	Revision	Date	By

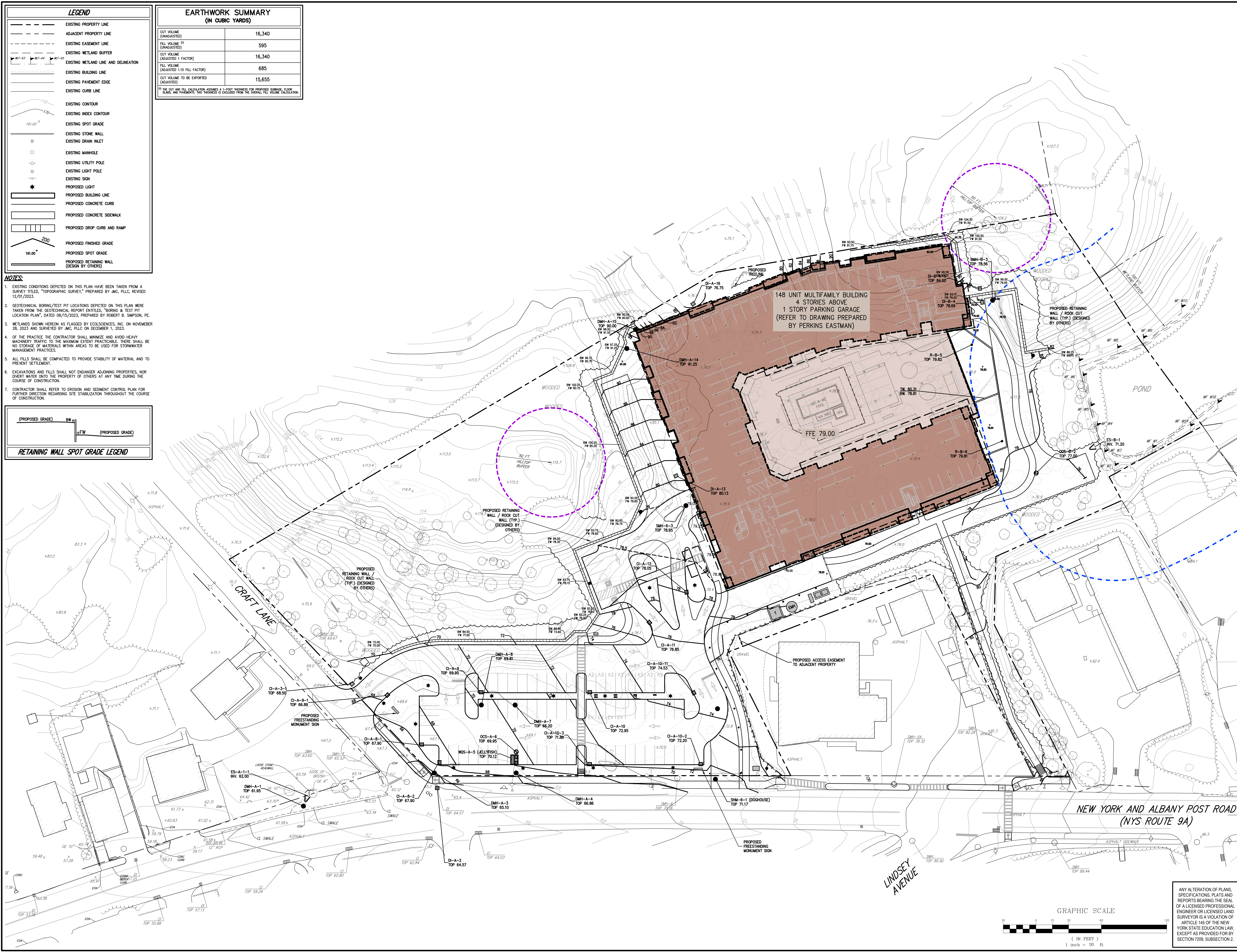
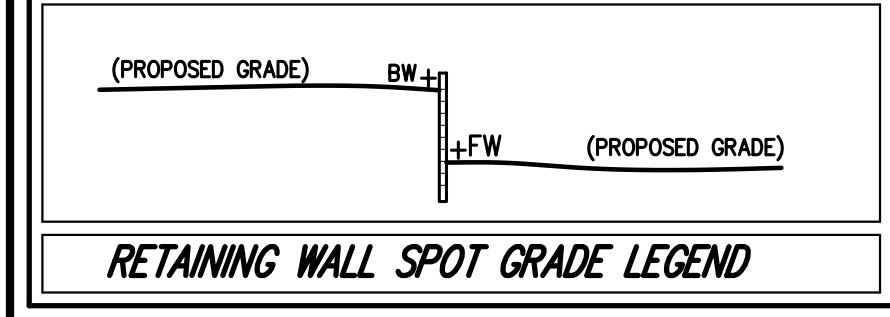
Prepared: Edouard Chabala

LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING WETLAND BUFFER
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING SPOT GRADE
	EXISTING STONE WALL
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED LIGHT
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED CONCRETE SIDEWALK
	PROPOSED DROP CURB AND RAMP
	PROPOSED FINISHED GRADE
	PROPOSED SPOT GRADE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)

EARTHWORK SUMMARY (IN CUBIC YARDS)	
CUT VOLUME (UNADJUSTED)	16,340
FILL VOLUME (UNADJUSTED)	595
CUT VOLUME (ADJUSTED 1 FACTOR)	16,340
FILL VOLUME (ADJUSTED 1.5 FILL FACTOR)	685
CUT VOLUME TO BE EXPORTED (ADJUSTED)	15,655

(1) THE CUT AND FILL CALCULATION ASSUMES A 4" FOOT THICKNESS FOR PROPOSED SURFACE, FLOOR SLAB, AND PAVEMENTS. THIS THICKNESS IS EXCLUDED FROM THE OVERALL FILL VOLUME CALCULATION.

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM A SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY JMC, PLLC, REVISED 12/07/2023.
 - GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "BORING & TEST PIT LOCATION PLAN," DATED 08/15/2023, PREPARED BY ROBERT B. SIMPSON, PE.
 - WETLANDS SHOWN HEREON AS FLAGGED BY ECOSCIENCES, INC. ON NOVEMBER 28, 2023 AND SURVEYED BY JMC, PLLC ON DECEMBER 1, 2023.
 - OF THE PRACTICE THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES.
 - ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT SETTLEMENT.
 - EXCAVATIONS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTIES, NOR DIVERT WATER ONTO THE PROPERTY OF OTHERS AT ANY TIME DURING THE COURSE OF CONSTRUCTION.
 - CONTRACTOR SHALL REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR FURTHER DIRECTION REGARDING SITE STABILIZATION THROUGHOUT THE COURSE OF CONSTRUCTION.



No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	SWPPP SUBMISSION	11/09/2023	EJK
3.	IN/SOIT SUBMISSION	12/07/2023	EJK
4.	VILLAGE SUBMISSION	12/06/2023	EJK
5.	REVISED PER VILLAGE ENGINEER COMMENTS	12/29/2023	EJK

BUCHANAN DEV AMS LLC
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 FORT LEE, NJ 07024

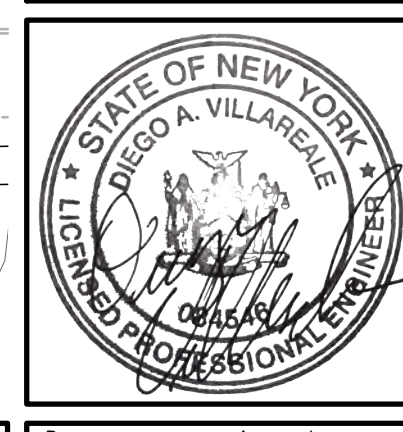
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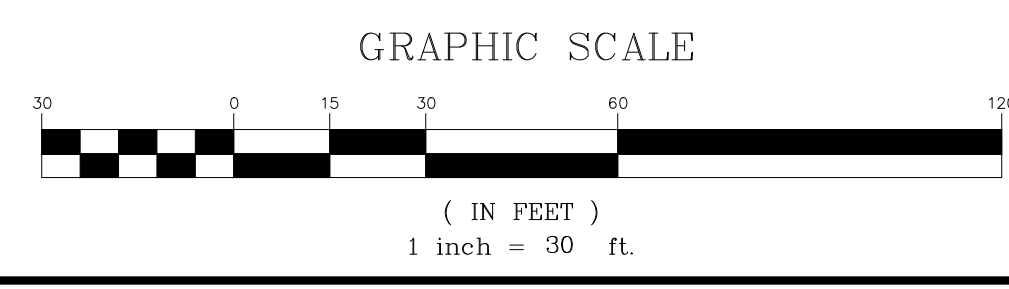
SITE GRADING PLAN

AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: C-200

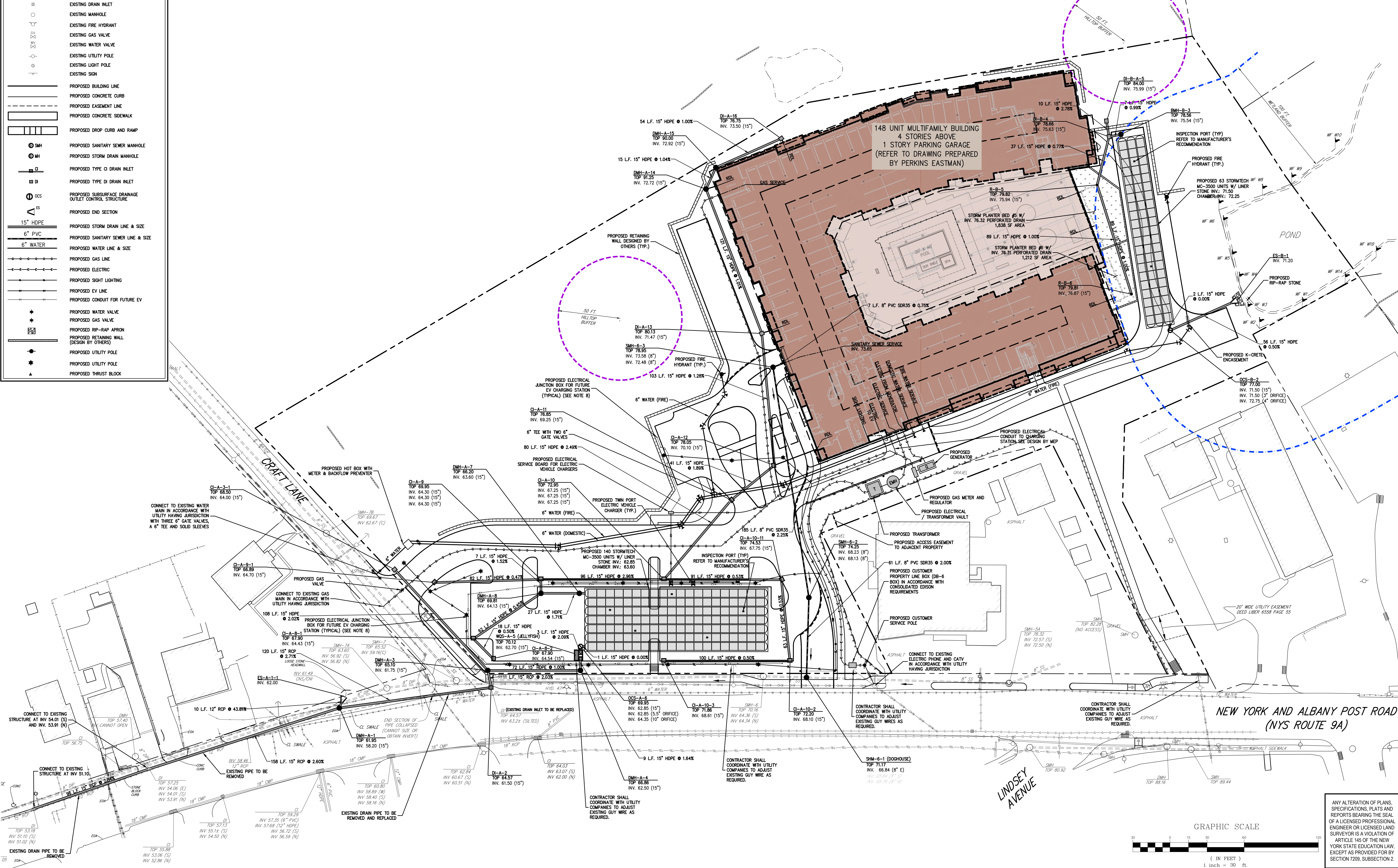
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NOT FOR CONSTRUCTION

LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING WETLAND BUFFER
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING STORM DRAIN LINE AND SIZE
	EXISTING SANITARY LINE AND SIZE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED EASEMENT LINE
	PROPOSED CONCRETE SIDEWALK
	PROPOSED DROP CURB AND RAMP
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED TYPE CI DRAIN INLET
	PROPOSED TYPE DI DRAIN INLET
	PROPOSED TYPE OCS DRAIN INLET
	PROPOSED END SECTION
	PROPOSED STORM DRAIN LINE & SIZE
	PROPOSED SANITARY SEWER LINE & SIZE
	PROPOSED WATER LINE & SIZE
	PROPOSED GAS LINE
	PROPOSED ELECTRIC
	PROPOSED SIGHT LIGHTING
	PROPOSED EV LINE
	PROPOSED CONDUIT FOR FUTURE EV
	PROPOSED WATER VALVE
	PROPOSED GAS VALVE
	PROPOSED RP-RAP APRON
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED UTILITY POLE
	PROPOSED UTILITY POLE
	PROPOSED THRUST BLOCK

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY JMC, PLLC, REVISED 12/01/2023.
 - WETLANDS SHOWN HEREON AS FLAGGED BY ECOSCIENCES, INC. ON NOVEMBER 28, 2023 AND SURVEYED BY JMC, PLLC ON DECEMBER 1, 2023.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER, DURING CONSTRUCTION OF THE PRACTICE, THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS IN ACCORDANCE WITH ASTM F-2648. JOINTS SHALL BE WATER-TIGHT IN ACCORDANCE WITH ASTM D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE POLYVINYL CHLORIDE PIPE (PVC), SDR-35, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CEMENT-LINED DUCTILE IRON PIPE (DIP), CLASS 52, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ANNA C-150, C-151, C-104 AND C-111.
 - ELECTRIC, TELEPHONE, FIRE ALARM AND CABLE TELEVISION LINES SHALL BE INSTALLED UNDERGROUND IN CONDUIT IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.
 - ALL PROPOSED PARKING SPACES LOCATED OUTSIDE OF THE BUILDING SHALL BE PROVIDED WITH AN ELECTRICAL JUNCTION BOX IN THE LOCATION OF A FUTURE ELECTRIC VEHICLE CHARGING STATION WHICH CAN SERVE THE PARKING SPACE. THE ELECTRICAL JUNCTION BOX SHALL BE CONNECTED TO THE PROPOSED ELECTRICAL SERVICE BOARD WITH EMPTY ELECTRICAL CONDUIT.



No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	SWPPP SUBMISSION	11/09/2023	EJK
3.	WDOH SUBMISSION	12/07/2023	EJK
4.	VILLAGE SUBMISSION	12/06/2023	EJK
5.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

ARCHITECT: **PERKINS EASTMAN**
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SITE UTILITIES PLAN

AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK

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Scale: 1" = 30'

Date: 10/17/2023

Project No: 22062

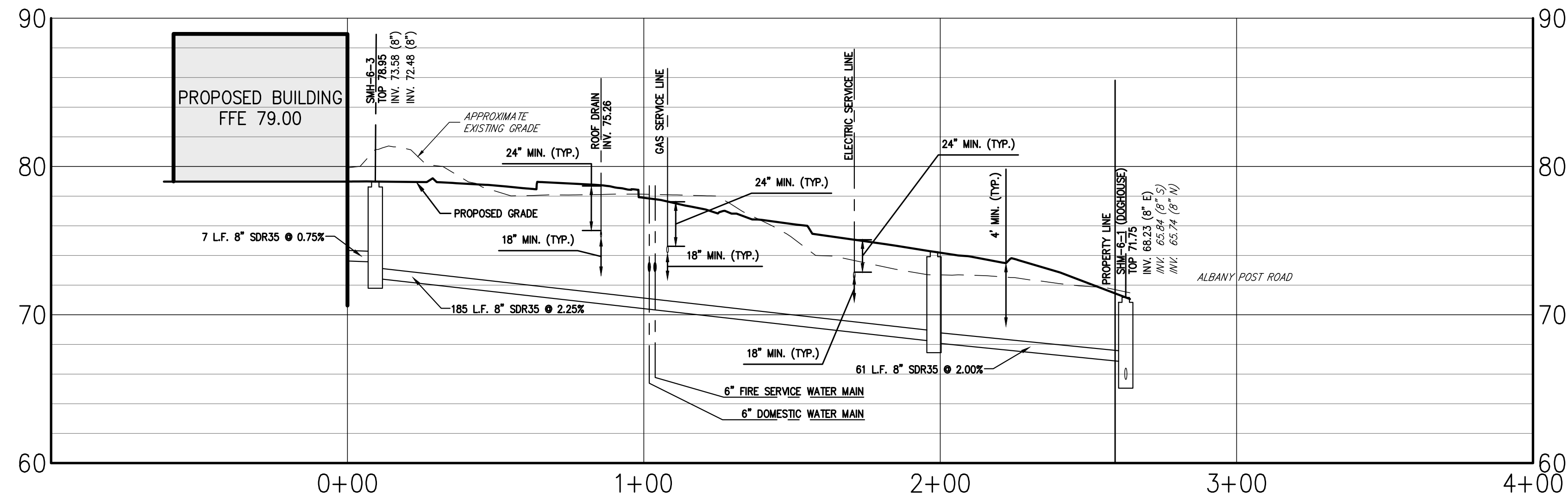
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Approved: EJK

Checked: AN

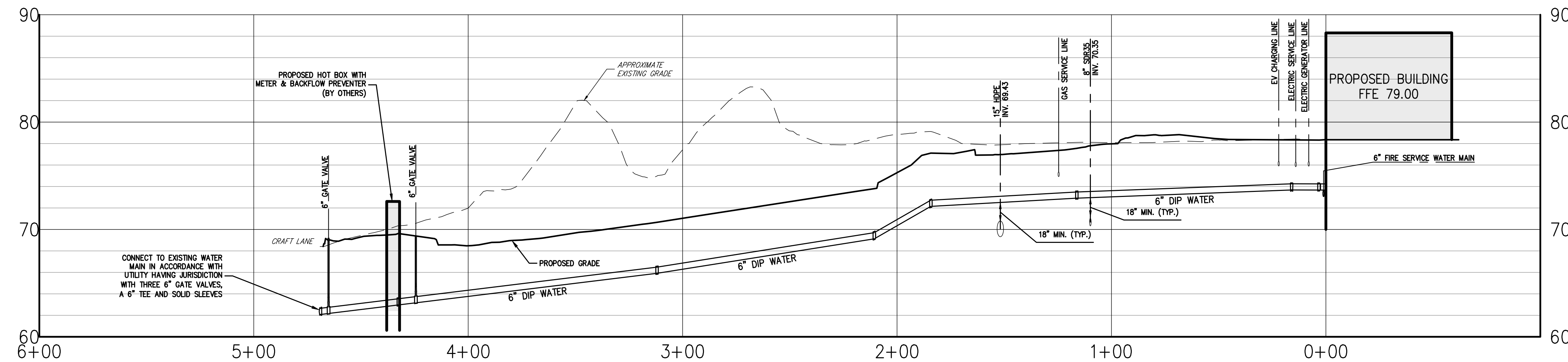
C-300

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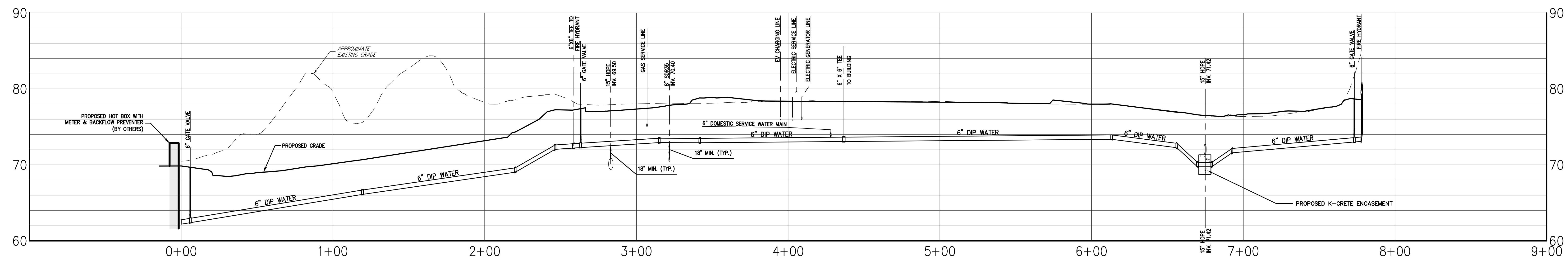
SANITARY SEWER LINE TO ALBANY POST ROAD PROFILE

HORIZONTAL SCALE: 1" = 6'
 VERTICAL SCALE: 1" = 30'



DOMESTIC WATER MAIN (6 INCH) PROFILE

HORIZONTAL SCALE: 1" = 6'
 VERTICAL SCALE: 1" = 30'



FIRE SERVICE WATER MAIN (6 INCH) PROFILE

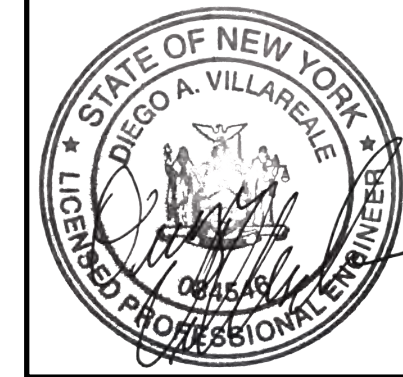
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Drawn: EGK Approved: AN
 Scale: AS SHOWN
 Date: 12/01/2023
 Project No: 22062
 Drawing No: WATER UTILSER
C-310



SANITARY SEWER AND WATER MAIN PROFILES
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



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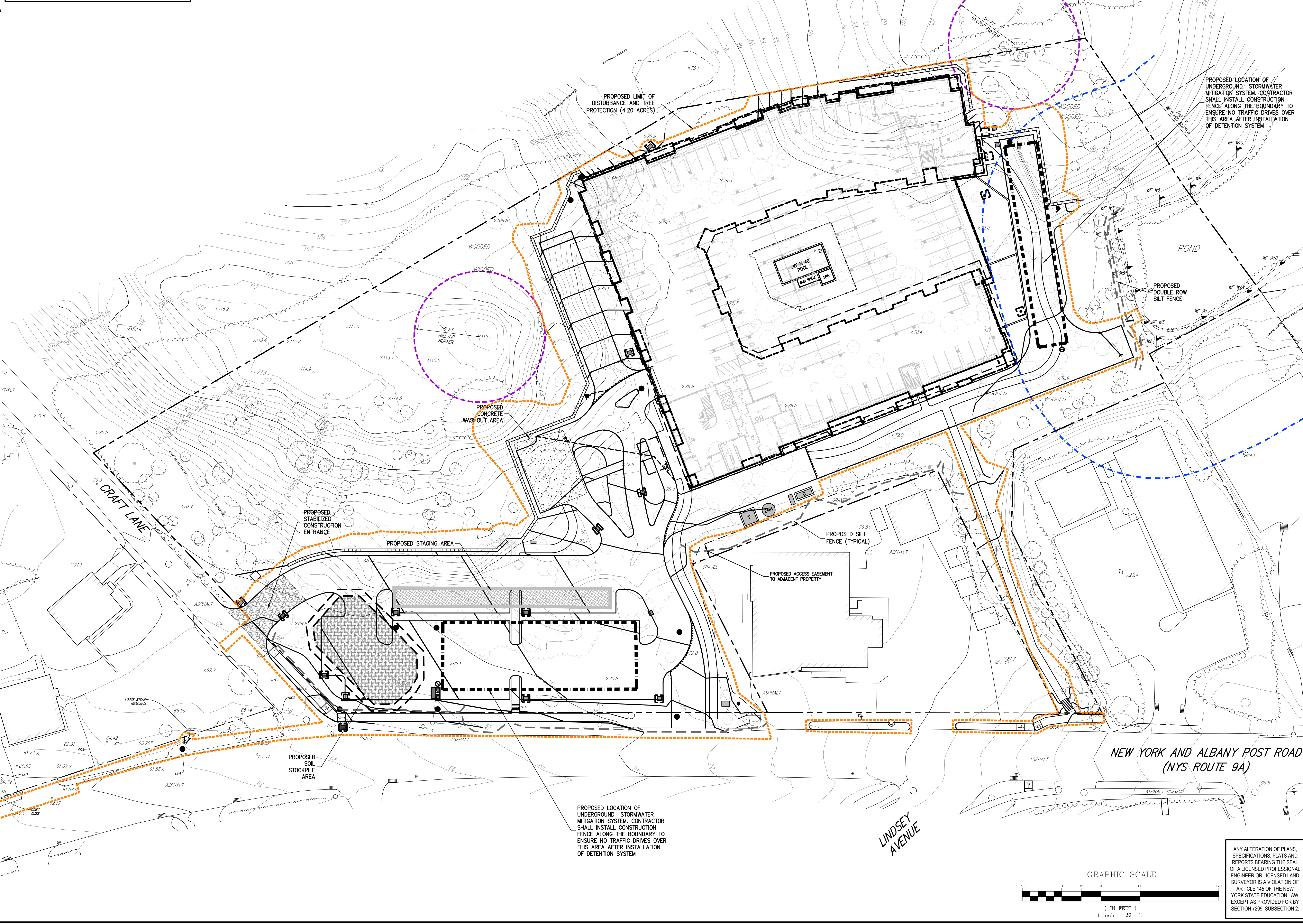
APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 840
 FORT LEE, NJ 07024
 ARCHITECT: **PERKINS EASTMAN**
 677 WASHINGTON BOULEVARD, SUITE 101
 STAMFORD, CT 06901

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	12/06/2023	EKG
2.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EKG

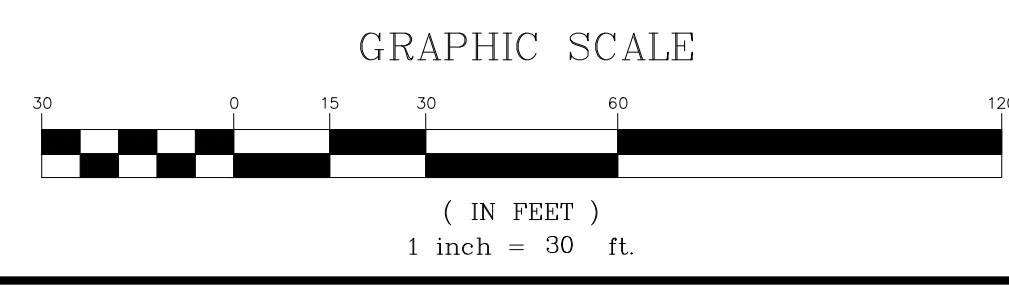
LEGEND	
	PROPOSED INLET PROTECTION
	PROPOSED BALE FILTER
	PROPOSED CONSTRUCTION FENCE
	PROPOSED SILT FENCE
	PROPOSED WASHOUT AREA
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED STAGING AREA
	PROPOSED STOCKPILE AREA

SEQUENCE OF CONSTRUCTION	
1.	PRIOR TO BEGINNING CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE VILLAGE CONSULTING ENGINEER.
2.	INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN. THESE MEASURES ARE TO REMAIN IN PLACE UNTIL WORK IS COMPLETE AND THE SITE IS FULLY STABILIZED.
3.	CLEAR UNDEVELOPED PORTION OF PROPERTY WHICH IS TO BE DEVELOPED.
4.	STRIP AND STOCKPILE TOPSOIL.
5.	BEGIN BUILDING AND PARKING LOT CONSTRUCTION, ROUGH GRADING.
6.	INSTALL STORM DRAIN SYSTEM COMPLETE (IMMEDIATELY INSTALL HAYBALE FILTERS ON ALL INLETS). THE PLANTERS AND SUBSURFACE SYSTEMS SHALL REMAIN OFFLINE UNTIL THE CONTROLLING AREAS ARE FULLY STABILIZED.
7.	INSTALL PUBLIC UTILITIES (GAS, ELECTRIC AND TELEPHONE) AS REQUIRED.
8.	INSTALL CONCRETE AND ASPHALT CONCRETE PAVEMENT COMPLETE.
9.	FINISH GRADING, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION AND/OR LANDSCAPING.
10.	CLEAN PAVEMENTS AND STORM DRAIN SYSTEM OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE REMOVAL OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.
11.	COMPLETE SITE AND BUILDING CONSTRUCTION.

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY JMC, PLLC, REVISED 12/01/2023.
 - WETLANDS SHOWN HEREON AS FLAGGED BY ECOSCIENCES, INC. ON NOVEMBER 28, 2023 AND SURVEYED BY JMC, PLLC ON DECEMBER 1, 2023.
 - THIS PLAN IS FOR TEMPORARY EROSION AND SEDIMENT CONTROL INFORMATION ONLY.
 - PRIOR TO BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE PLANS AND SPECIFICATIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLAN.
 - THE CONTRACTOR SHALL INSPECT AND MAINTAIN ON-SITE EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS. ALL COLLECTED SEDIMENT WITHIN SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY AS REQUIRED TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE RESPIRED ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL INSPECT DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS. AFTER EACH RAINSTORM, AND AS MAY BE REQUIRED OR DIRECTED BY ALL APPLICABLE APPROVALS AND PERMITS, THE CONTRACTOR SHALL IMMEDIATELY PROVIDE A WRITTEN REPORT ON FINDINGS OF SEDIMENT IN DOWNSTREAM AREAS TO ALL AUTHORITIES HAVING JURISDICTION AND MAKE REPAIRS AS REQUIRED OR DIRECTED.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED/WARRANTED BY FIELD CONDITIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE, JMC, AND/OR ANY AUTHORITY HAVING JURISDICTION.
 - STOCKPILING OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED ON THIS PLAN OR AS APPROVED BY THE OWNER'S REPRESENTATIVE. STOCKPILED EXCAVATED MATERIAL SHALL HAVE TWO ROWS OF SILT FENCE LOCATED AROUND ITS PERIMETER. ALL STOCKPILED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO INTERFERE WITH PEDESTRIAN AND/OR VEHICULAR TRAFFIC CIRCULATION ROUTES.
 - DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PROJECT THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES.
 - ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS, THAT WILL NOT BE FURTHER DISTURBED WITHIN 14 CALENDAR DAYS (7 DAYS FOR CONSTRUCTION SITES THAT EITHER DIRECTLY DISCHARGE TO ONE OF THE WATERS OR ARE LOCATED WITHIN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GENERAL PERMIT), SHALL BE TEMPORARILY SEEDED WITHIN 24 HOURS OF DISTURBANCE, IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) "EROSION AND SEDIMENT CONTROL GUIDELINES" AND THE ANSI A300 "BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPLANTING, MAINTENANCE AND CARE," PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), LATEST EDITIONS, AS FOLLOWS:
 - SEED MIXTURE AND RATE OF APPLICATION:
 - IN SPRING, SUMMER OR EARLY FALL, SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 POUNDS PER ACRES (APPROXIMATELY 0.7 POUNDS/1000 SQUARE FEET OR USE 1 POUND/1000 SQUARE FEET).
 - IN LATE FALL OR EARLY WINTER, SEED THE AREA WITH CERTIFIED "ARBOVIT" WINTER RYE (CERIAL RYE) AT 100 POUNDS PER ACRE (2.5 POUNDS/1000 SQUARE FEET).
 - APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDROSEED METHODS.
 - MULCH ALL SEEDS AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
 - ALL SEEDS AREAS SHALL BE FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.
 - TEMPORARY SEED MIXTURES SHALL NOT BE PLACED ON AREAS WHERE FINAL GRADE HAS BEEN ESTABLISHED AND TOPSOIL HAS BEEN PLACED UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.
 - THE APPLICANT SHALL NOTIFY THE VILLAGE OF BUCHANAN BUILDING INSPECTOR AT LEAST 48 HOURS BEFORE AN OF THE FOLLOWING AS REQUIRED BY THE STORMWATER MANAGEMENT OFFICER:
 - INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES
 - COMPLETION OF SITE CLEARING
 - COMPLETION OF ROUGH GRADING
 - INSTALLATION OF STORMWATER MANAGEMENT FACILITIES
 - COMPLETION OF FINAL GRADING
 - CLOSE OF THE CONSTRUCTION SEASON
 - COMPLETION OF FINAL LANDSCAPING
 - SUCCESSFUL ESTABLISHMENT OF LANDSCAPING IN PUBLIC AREAS



PROPOSED LOCATION OF UNDERGROUND STORMWATER MITIGATION SYSTEM. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE ALONG THE BOUNDARY TO ENSURE NO TRAFFIC DRIVES OVER THIS AREA AFTER INSTALLATION OF DETENTION SYSTEM



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No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	VILLAGE SUBMISSION	12/06/2023	EJK
3.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

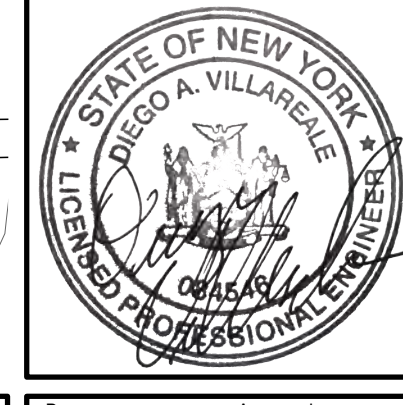
ARCHITECT: **PERKINS EASTMAN**
 677 WASHINGTON BOULEVARD, SUITE 101
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SITE EROSION AND SEDIMENT CONTROL PLAN

AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: C-400

NOT FOR CONSTRUCTION

Luminaire Schedule										
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	Mounting Height
★	15	ENT31-100W3K-TYPE V	Single	ENT31-100W3K-TYPE V	Area Light	0.870	13878	114	1710	18'
⊙	13	ENT20BOLL-17W3K-TYPE V	Single	ENT20BOLL-17W3K-TYPE V	Bollard	0.870	2081	19.67	255.71	3.5'

LEGEND	
○	EXISTING UTILITY POLE
⊙	EXISTING LIGHT POLE
★	PROPOSED SITE LIGHTING
⊙	PROPOSED BOLLARD LIGHTING STANDARD
1.1	PROPOSED ILLUMINANCE IN FOOT-CANDLES

NOTES:

1. THE LIGHTING DESIGN SHOWN HEREON WAS PROVIDED BY SYNERGY LIGHTING DATED 11/27/2023.

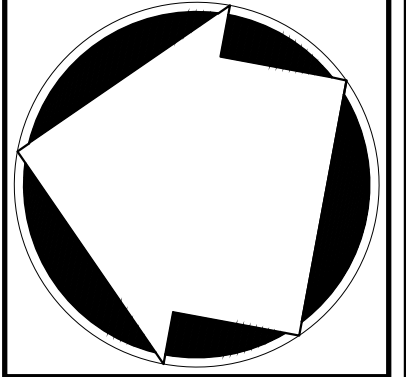
No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	NYSOT SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

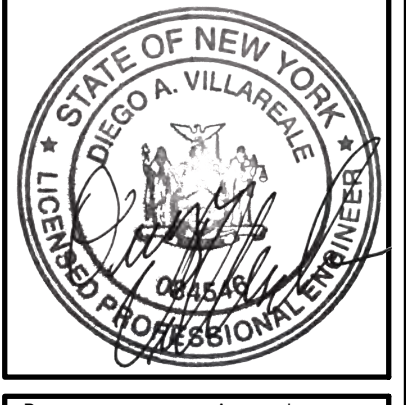
ARCHITECT: **PERKINS EASTMAN**
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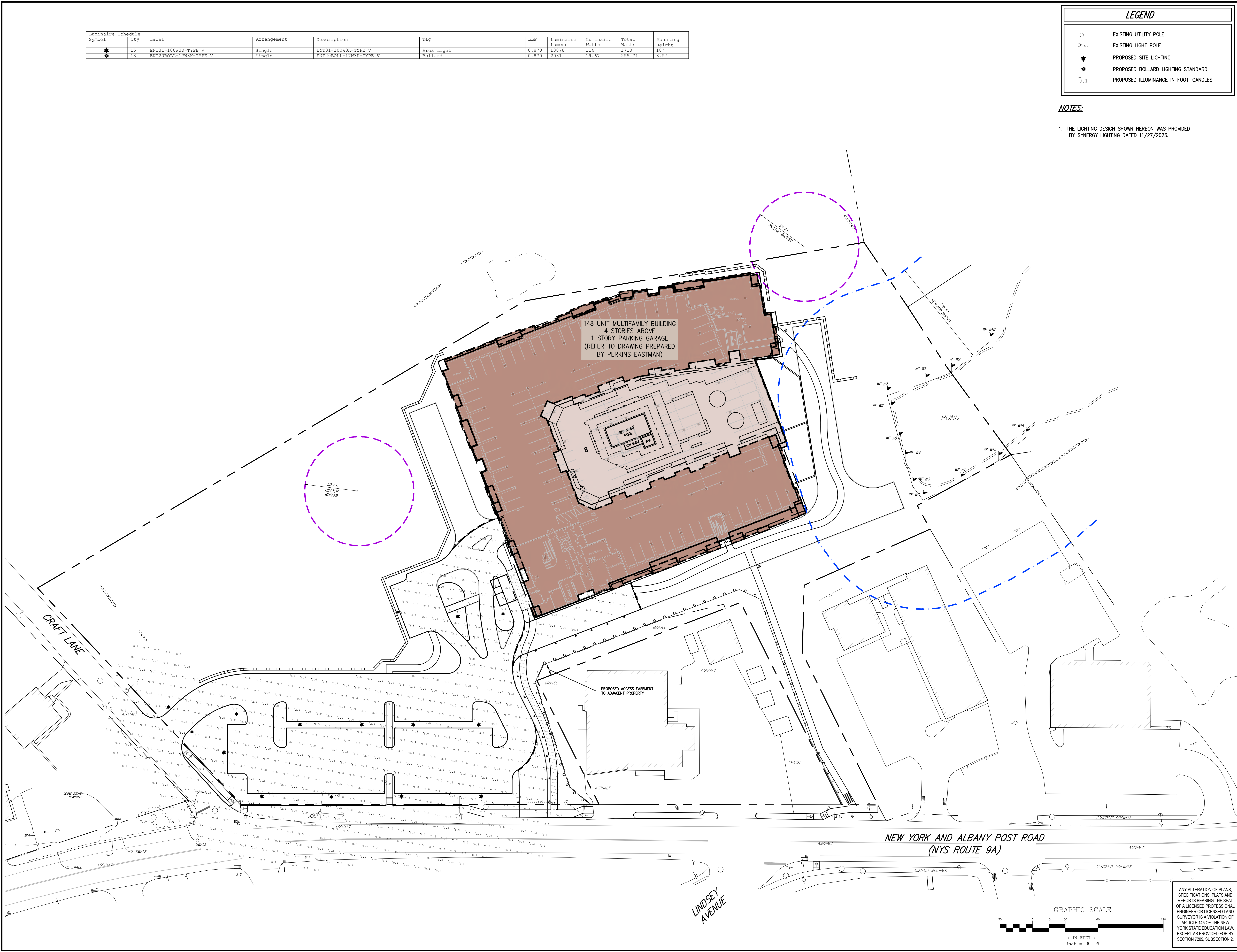
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SITE LIGHTING PLAN
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



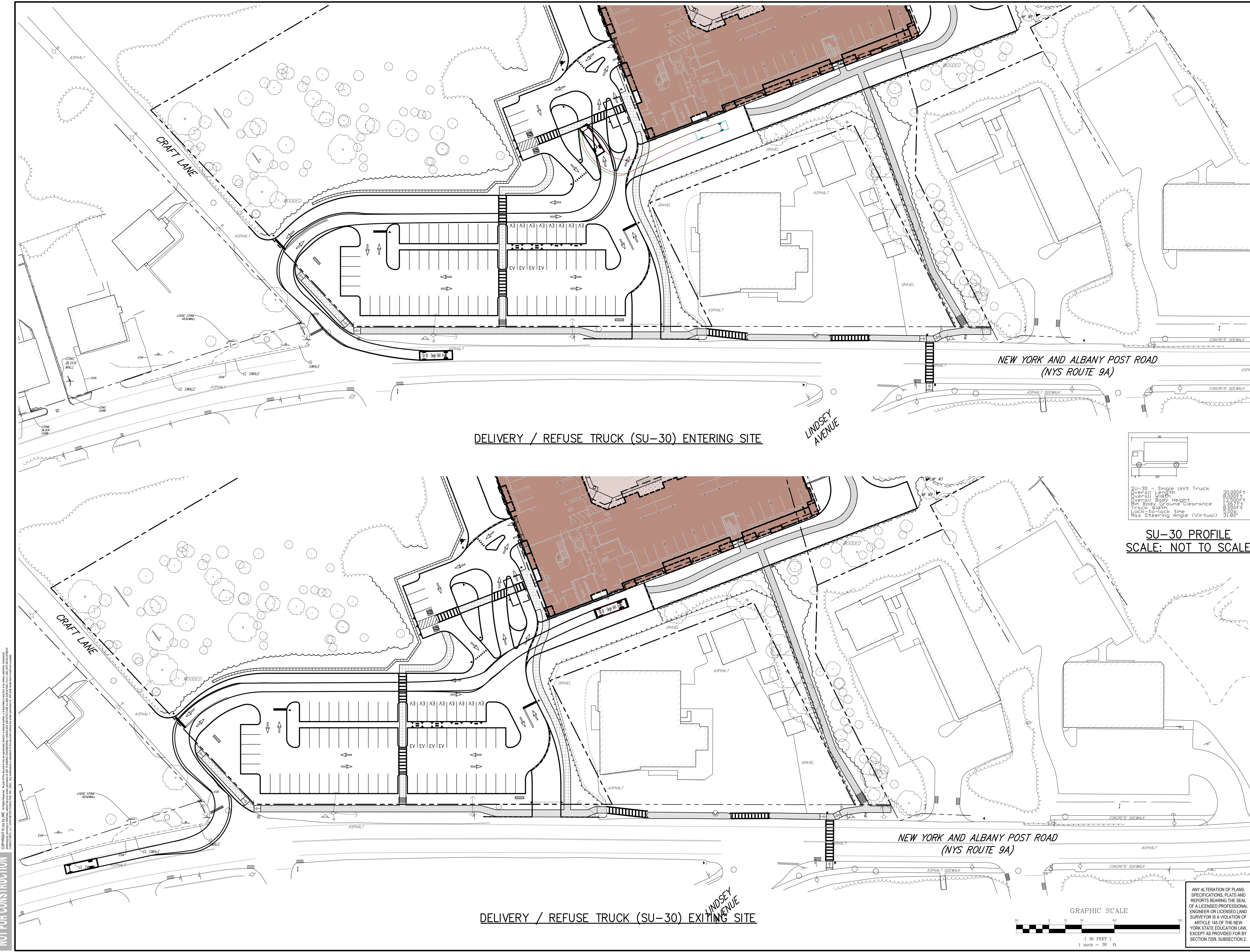
Client: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: C-500



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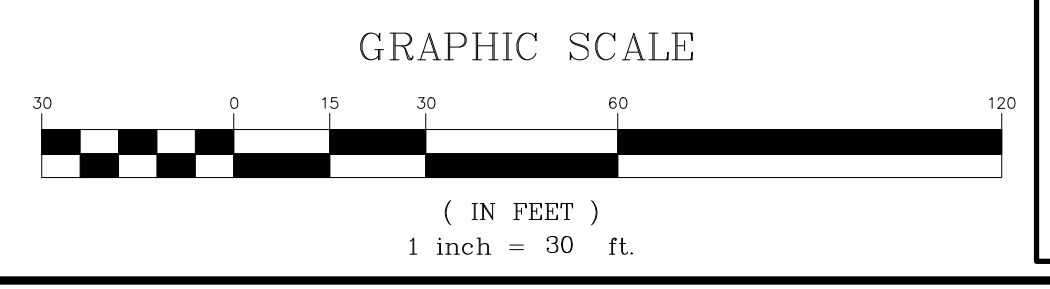
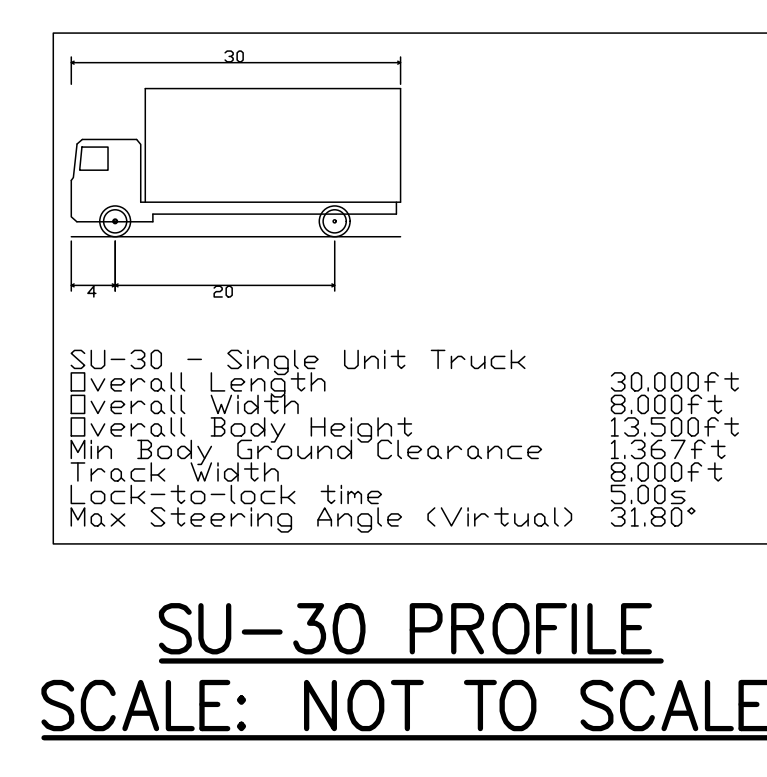
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NOT FOR CONSTRUCTION



DELIVERY / REFUSE TRUCK (SU-30) ENTERING SITE

DELIVERY / REFUSE TRUCK (SU-30) EXITING SITE



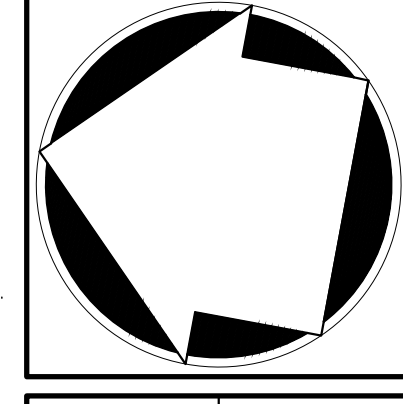
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No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/30/2023	EJK
2.	NYSOT SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

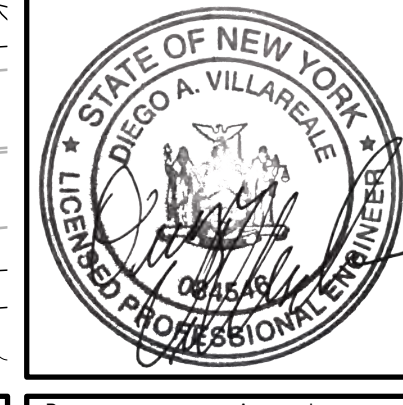
APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 640
 FORT LEE, NJ 07024

ARCHITECT: **PERKINS EASTMAN**
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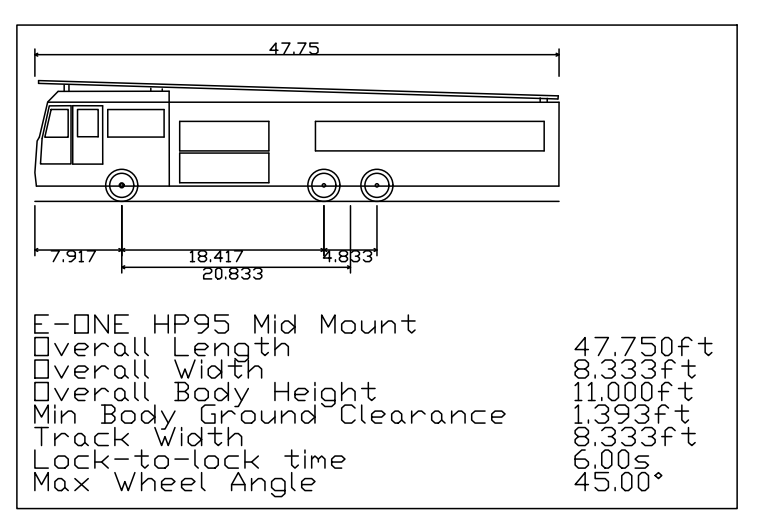
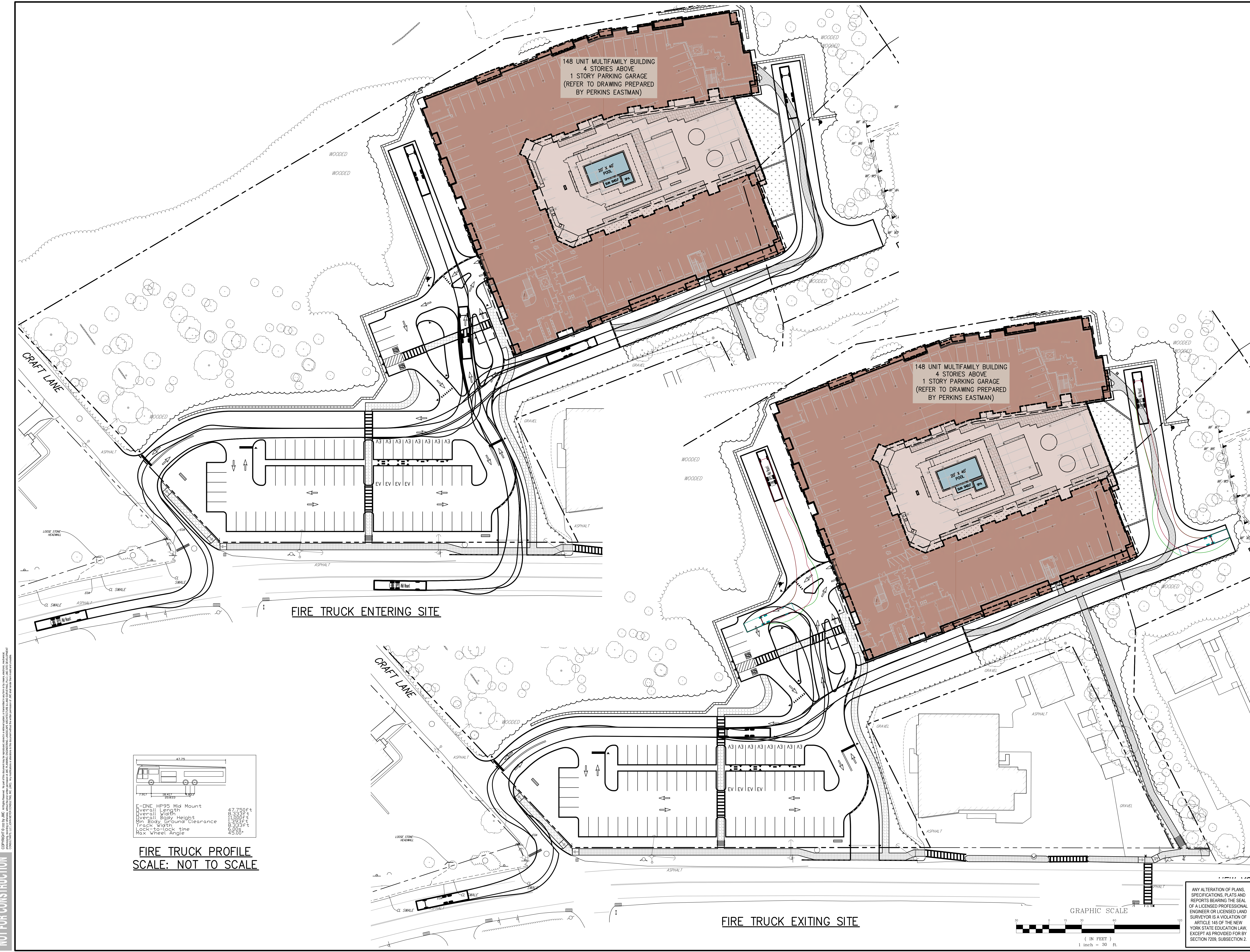


TRUCK TURNING PLAN (SU-30)
 AMS BUCHANAN
 ALBANY POST ROAD & CRAFT LANE
 VILLAGE OF BUCHANAN, NEW YORK



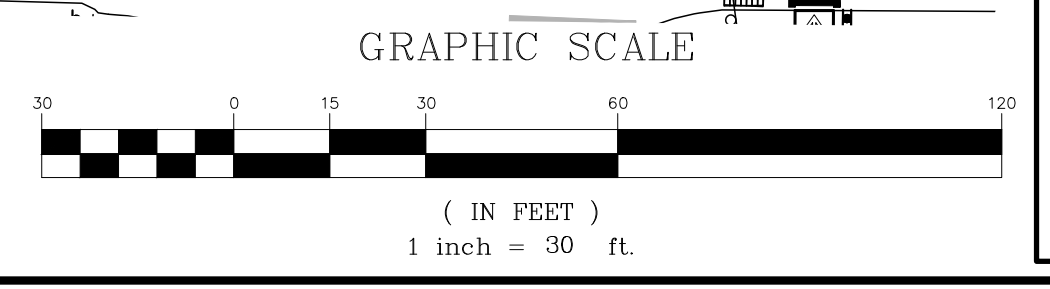
Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: C-700

NOT FOR CONSTRUCTION



FIRE TRUCK PROFILE
SCALE: NOT TO SCALE

LINE HP95 Mid Mount	47.750ft
Overall Length	40.350ft
Overall Width	11.000ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	9.530ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°



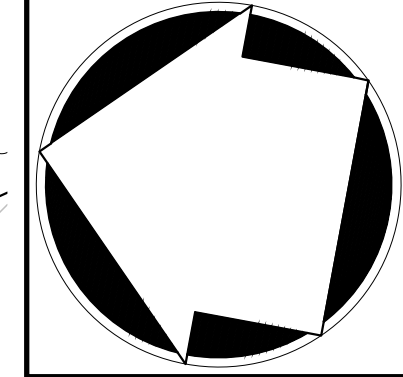
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No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	NYSDOT SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
 ONE BRIDGE PLAZA NORTH, SUITE 840
 FORT LEE, NJ 07024

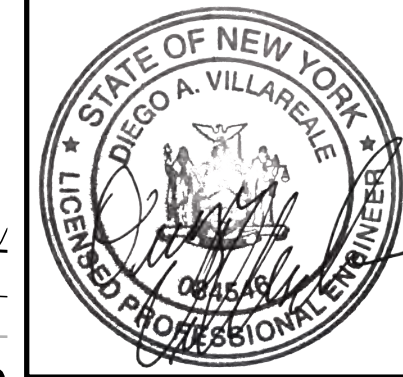
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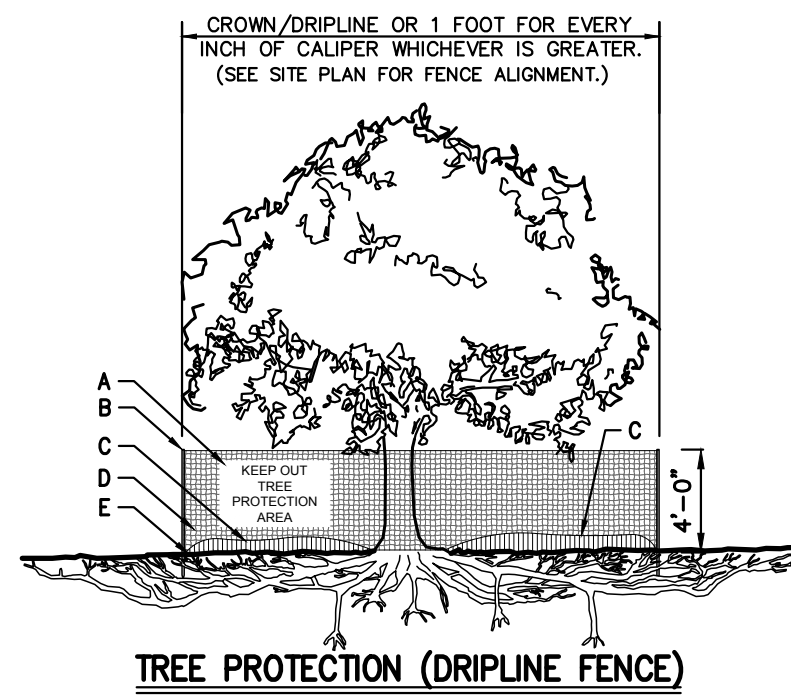


TRUCK TURNING PLAN
(FIRE TRUCK)

AMS BUCHANAN
ALBANY POST ROAD & CRAFT LANE
VILLAGE OF BUCHANAN, NEW YORK

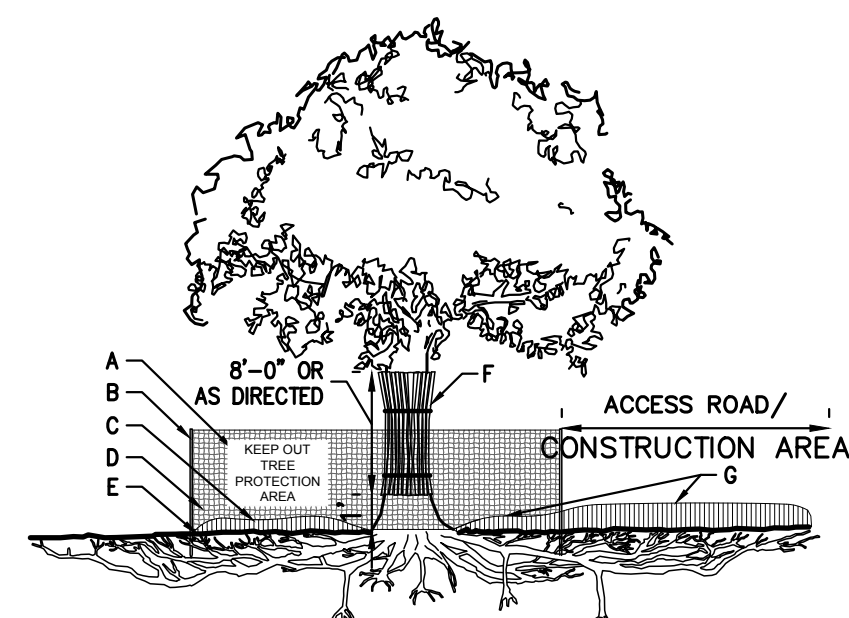


Drawn: EJK Approved: AN
 Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 2002-TM TIA-2 --30r
 Drawing No: **C-701**



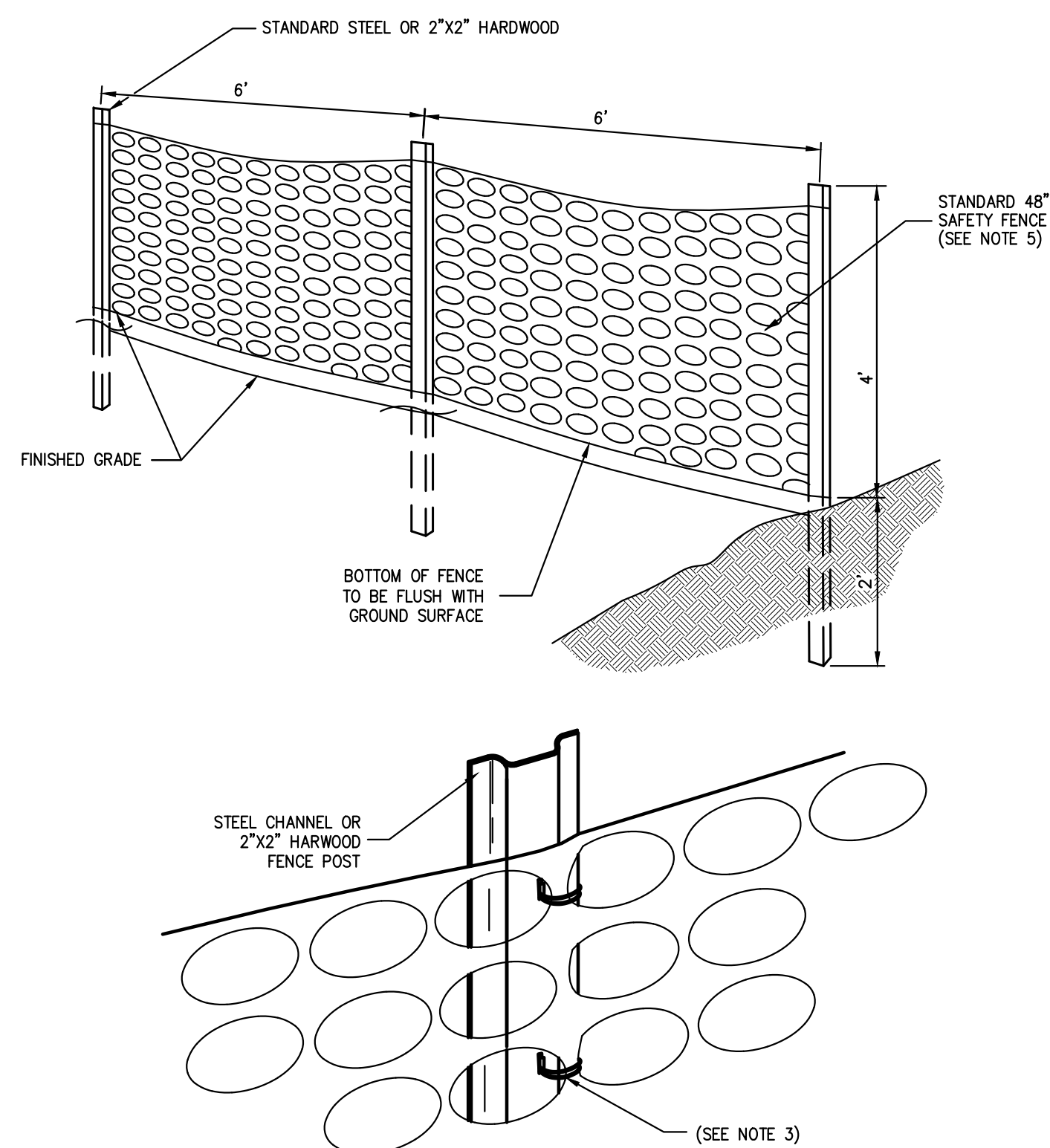
- A 8.5"x11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG FENCE
- B 2"x6" STEEL POSTS OR APPROVED EQUAL.
- C 5" THICK LAYER OF MULCH.
- D TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS. COLOR ORANGE. STEEL POSTS INSTALLED AT 8' O.C.
- E MAINTAIN EXISTING GRADE WITHIN THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.
- F INSTALL ROUGH SAWN WOOD WHERE AND AS DIRECTED BY PROJECT LANDSCAPE ARCHITECT OR PROFESSIONAL ARBORIST. SEE CHART FOR WOOD SIZE SOUND WITH 9 GAUGE WIRE.
- G 2"-12" THICK LAYER OF MULCH ON MAINTENANCE ROAD. 5" THICK LAYER INSIDE TREE PROTECTION AREA.

TREE DIAMETER	ROUGH SAWN WOOD SIZE
<12"	2"x2"
13"-24"	2"x4"
>25"	2"x6"

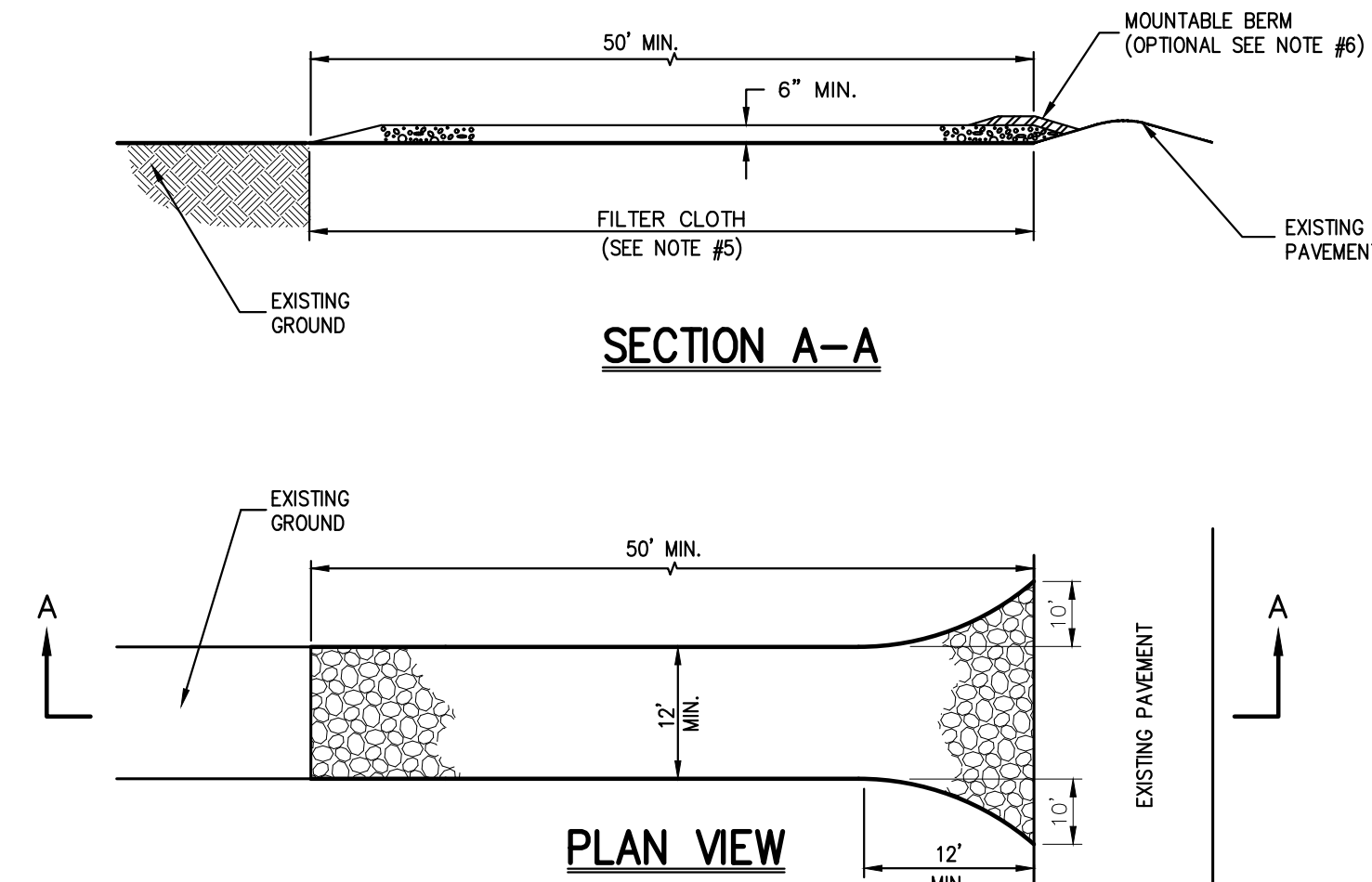


TREE PROTECTION W/ ACCESS ROAD/CONSTRUCTION AREA (DRIPLINE FENCE)

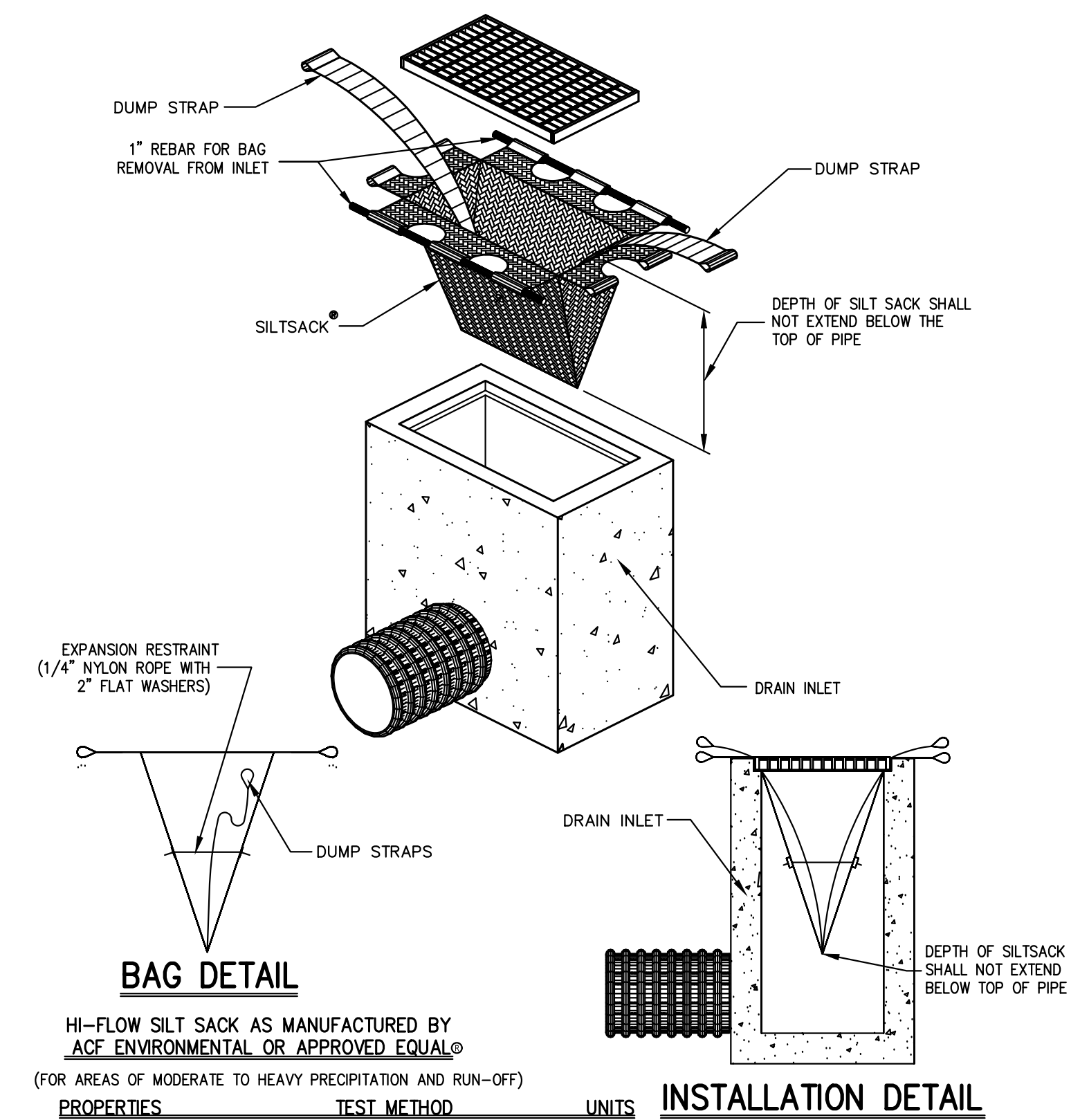
- NOTES:**
- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 - IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
 - NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 - NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 - SEE SITE PLANS FOR IDENTIFICATIONS/LOCATIONS OF INDIVIDUAL TREES TO BE PROTECTED.
 - ALL EXCAVATION WITHIN THE CROWN/DRIPLINE OF ANY TREE SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE PROJECT LANDSCAPE ARCHITECT OR PROFESSIONAL ARBORIST. SPECIAL MEASURES, SUCH AS THE USE OF AN AIR SPADE MAY BE REQUIRED.
 - THE CONTRACTOR MAY PROPOSE THE USE OF ENGINEERED MATTING OR OTHER ENGINEERED PRODUCTS IN LIEU OF MULCH, WHICH SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.



- NOTES:**
- SPACE SUPPORT FENCE POSTS AT 6 FOOT INTERVALS.
 - DRIVE SUPPORT POSTS 2 FEET INTO GROUND.
 - FIRMLY FASTEN FENCE MATERIAL IN PLACE BY WRING TO FENCE POST WHILE MAINTAINING TENSION ACROSS FULL HEIGHT OF FENCE. WRING SHALL BE DONE IN A MANNER THAT WILL PREVENT SAGGING OF FENCE MATERIAL.
 - PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
 - PLASTIC FENCE SHALL BE INTERNATIONAL ORANGE COLOR, AS MANUFACTURED BY ADPI ENTERPRISES, INC. OR APPROVED EQUAL.
 - REMOVE CONSTRUCTION FENCE AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.



- NOTES:**
- STONE SIZE - USE 1" TO 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH TO BE PLACED OVER THE ENTIRE WIDTH AND LENGTH OF AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH 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 MEASURE 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.



- PROPERTIES**
- | PROPERTIES | TEST METHOD | UNITS |
|--------------------------|-------------|-------------------|
| GRAB TENSILE STRENGTH | ASTM D-4632 | 265 LBS |
| GRAB TENSILE ELONGATION | ASTM D-4632 | 20 % |
| PUNCTURE | ASTM D-4833 | 135 LBS |
| MULLEN BURST | ASTM D-3786 | 420 PSI |
| TEAR | ASTM D-4533 | 45 LBS |
| UV RESISTANCE | ASTM D-4355 | 90 % |
| APPROXIMATE OPENING SIZE | ASTM D-4751 | 20 US SIEVE |
| FLOW RATE | ASTM D-4491 | 200 GAL/MIN/50 FT |
| PERMITTIVITY | ASTM D-4491 | 1.5 SEC -1 |
- NOTE:**
CURB INLETS SHALL BE TYPE B WITH CURB DEFLECTOR.

TREE PROTECTION

1

CONSTRUCTION FENCE

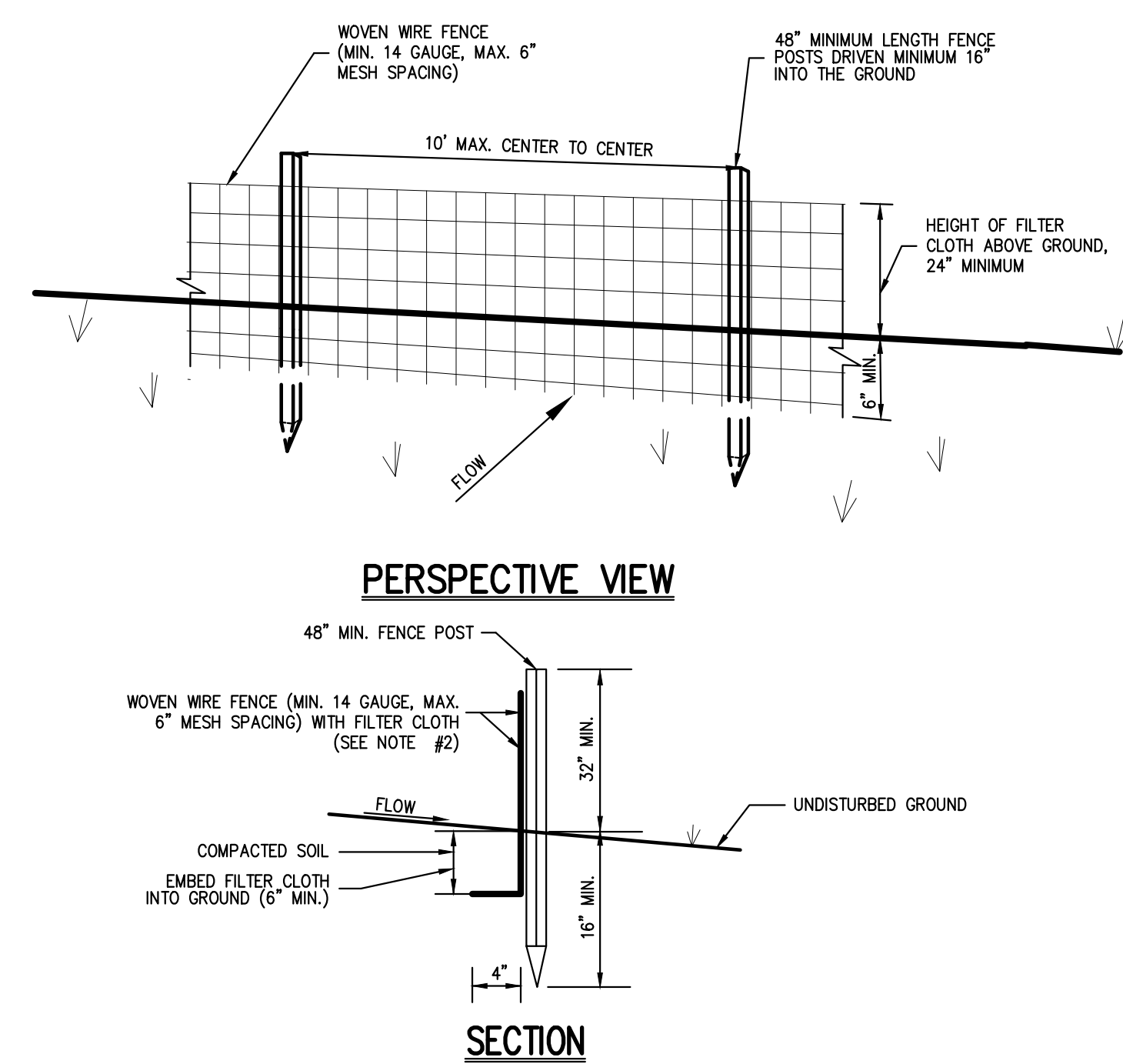
2

STABILIZED CONSTRUCTION ENTRANCE

3

MANUFACTURED INSERT INLET PROTECTION

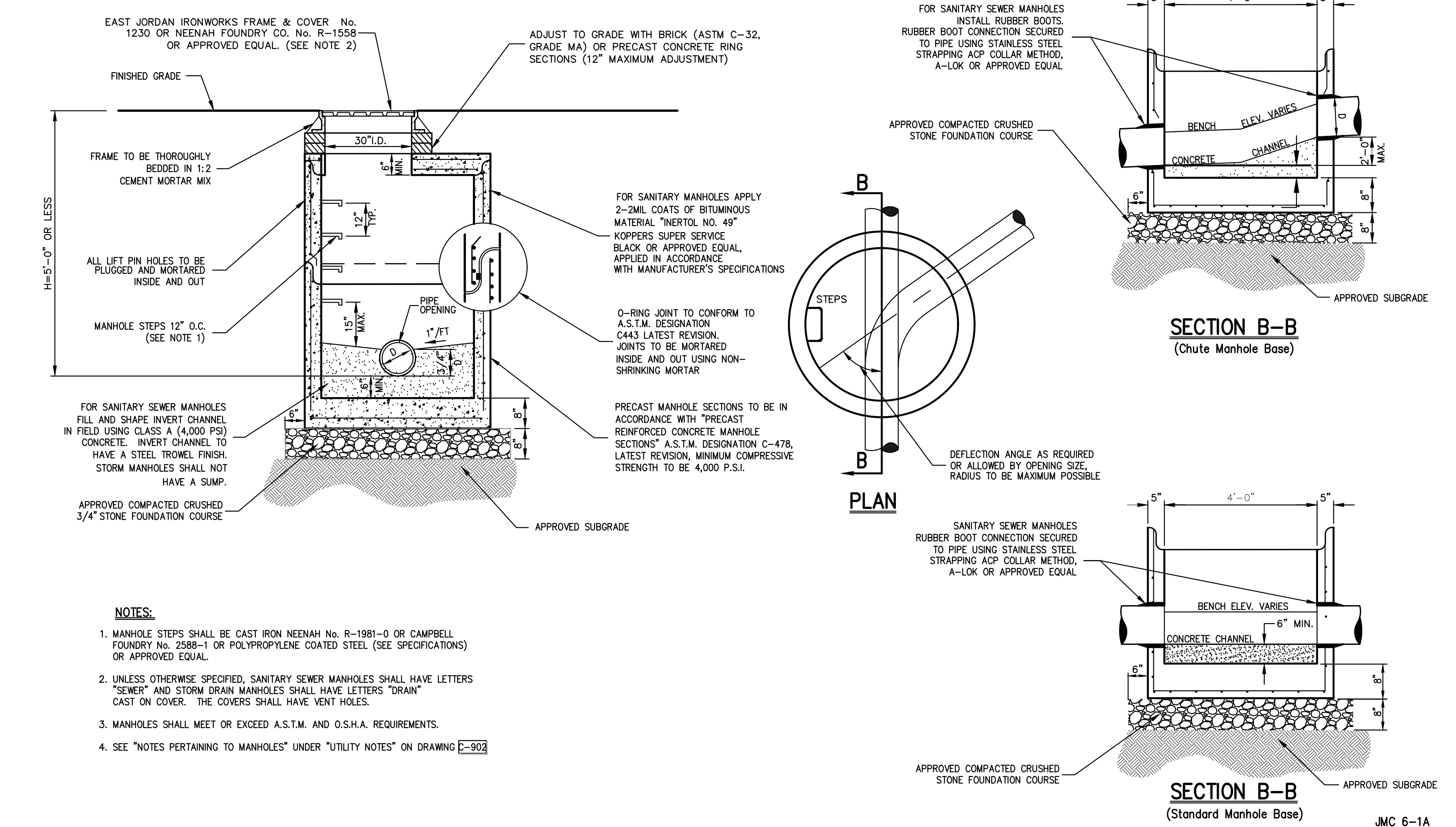
4



- NOTES:**
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
 - FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILANKA 100X, OR APPROVED EQUAL.
 - PREFABRICATED UNITS SHALL BE GEOTAB, ENVIROFENCE, OR APPROVED EQUAL.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 - THE AREA CHOSEN FOR ALL TEMPORARY SOIL STOCKPILES SHALL BE DRY AND STABLE.
 - ALL STOCKPILED SOIL SHALL NOT CONTAIN SLOPES GREATER THAN 2:1.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SEEDED WITHIN 24 HOURS. PERENNIAL OR ANNUAL PLYGRASS SHALL BE PLANTED DURING SPRING, SUMMER OR EARLY FALL. WINTER RYE (CEREAL RYE) SHALL BE PLANTED DURING LATE FALL OR EARLY WINTER.
 - ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED AROUND THE PERIMETER.

SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT)
2-10X	50:1 TO 10:1	250/2000
10-20X	10:1 TO 5:1	150/1000
20-33X	5:1 TO 3:1	80/750
33-50X	3:1 TO 2:1	70/550
1:50X	>2:1	30/75

ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.



- NOTES:**
- MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-0 OR CAMPBELL FOUNDRY No. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
 - UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER" AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
 - MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
 - SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON DRAWING C-902

TEMPORARY SOIL STOCKPILE WITH SILT FENCE

5

MANHOLE (TYPE A)

6

NOT FOR CONSTRUCTION

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	WDOH SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT: **BUCHANAN DEV AMS LLC**
ONE BRIDGE PLAZA NORTH, SUITE 840
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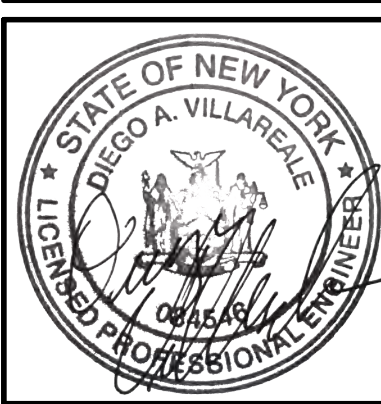
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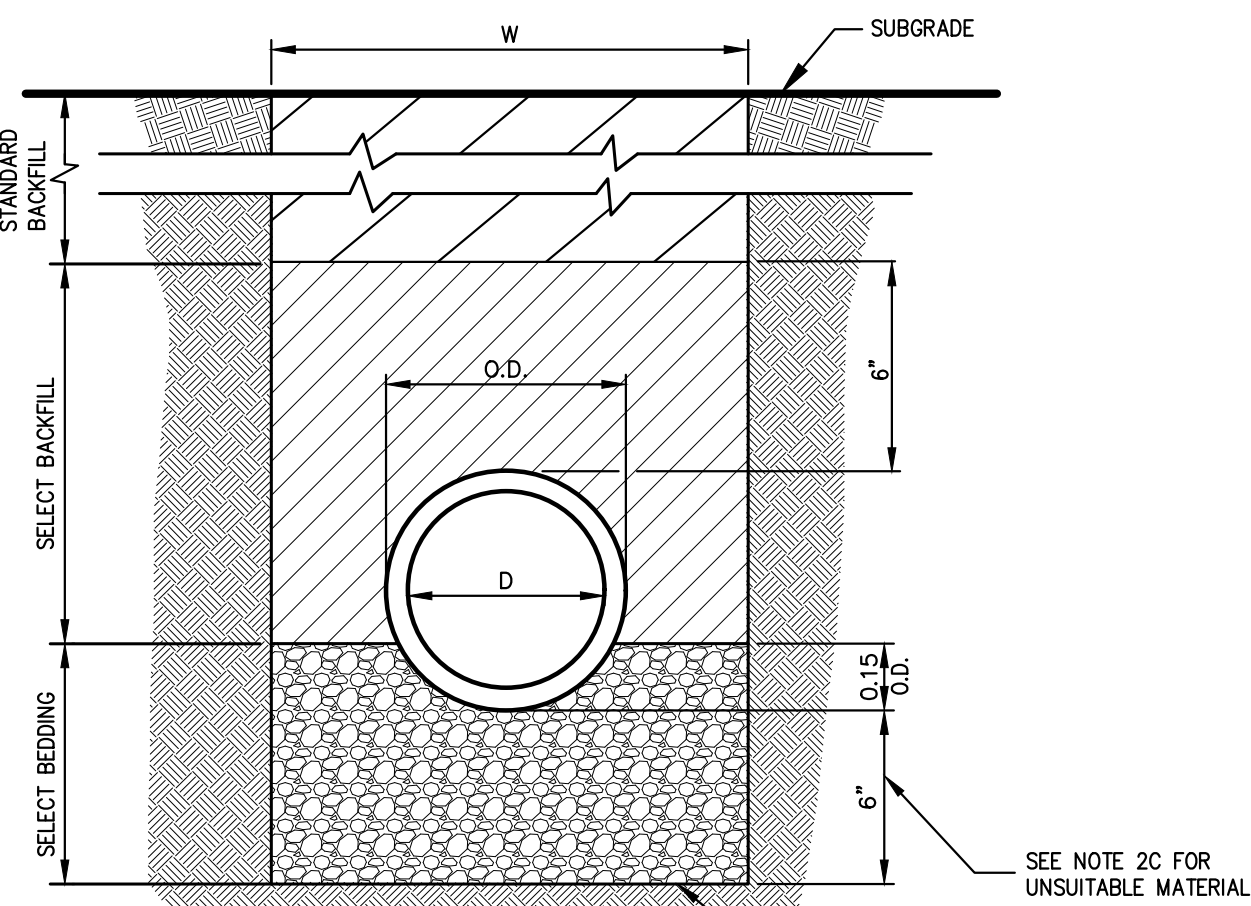


CONSTRUCTION DETAILS
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ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.



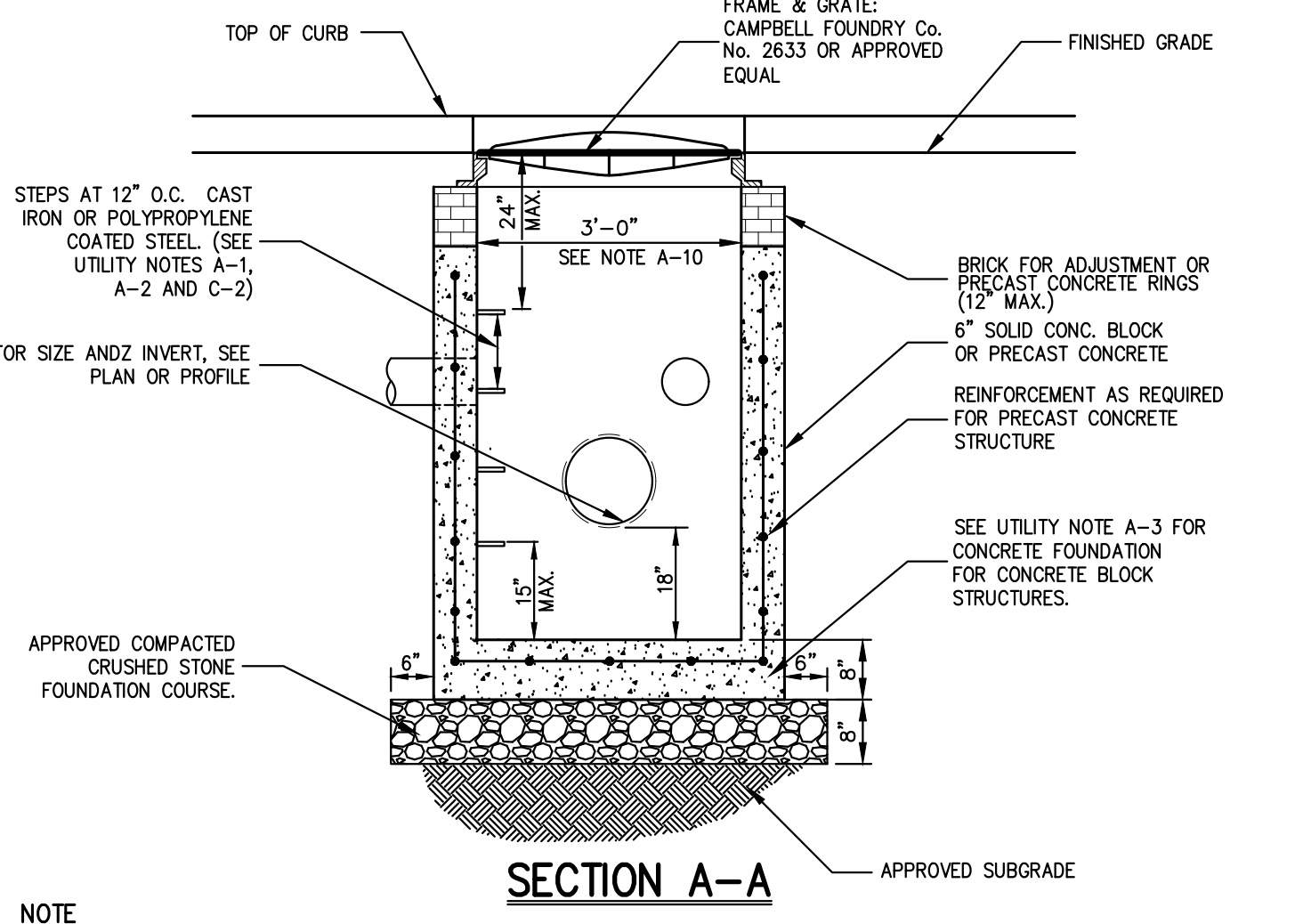
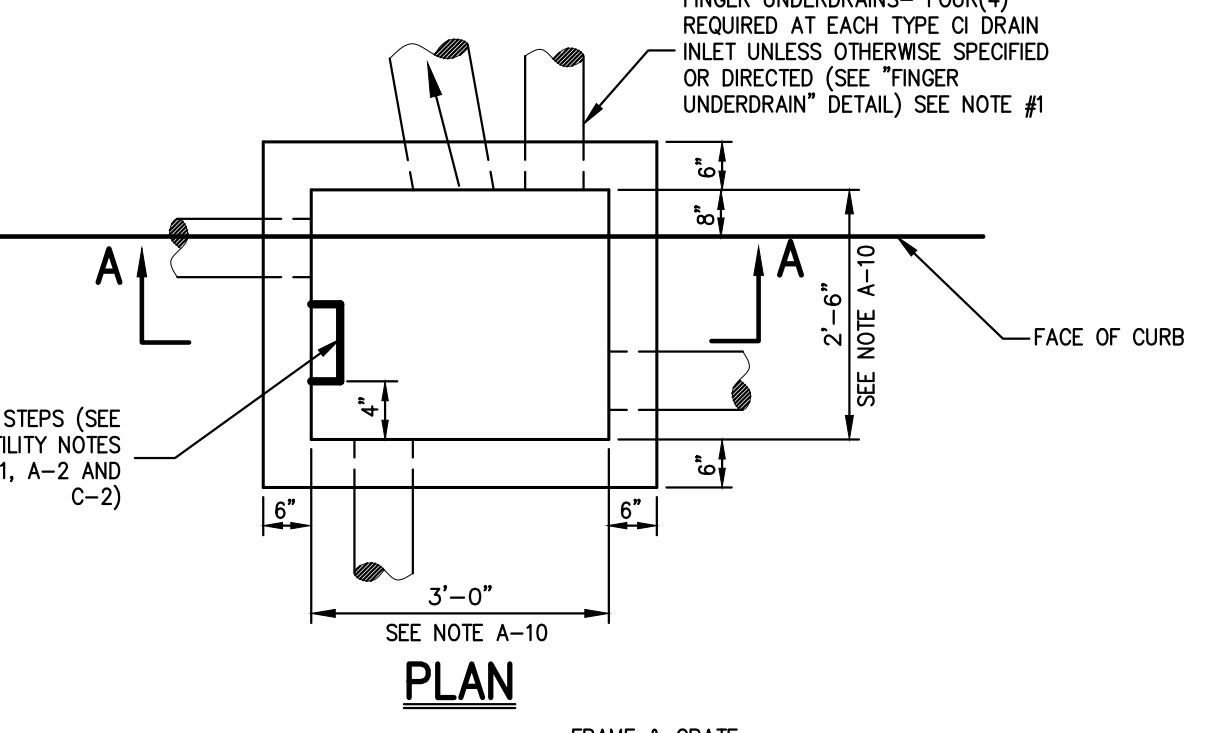
Client: **EJK** Approved: **AN**
Scale: **NOT TO SCALE**
Date: **10/17/2023**
Project No: **22062**
2022-ITEM: **BET-1**
Drawing No: **C-900**



- NOTES:**
- FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
 - EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
 - 3/4" CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
 - TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
 - FOR ALL CORRUGATED POLYETHYLENE DRAIN PIPE (COP) AND PVC PIPE AND CONDUIT INSTALLATION.
 - WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
 - WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN BOTTOM OF TRENCH. IN SUCH CASE DEPTH OF UNDERCUTTING SHALL BE AS DIRECTED BY THE ENGINEER WITH 6" MINIMUM.
 - FOR ALL TRENCH EXCAVATION IN FILL AREAS, ALL EMBANKMENTS SHALL BE CONSTRUCTED TO A MINIMUM OF 2 FEET ABOVE THE OUTSIDE TOP (AT THE BELL) OF THE PIPE PRIOR TO BEGINNING ANY TRENCH EXCAVATION.
 - BACKFILL FOR PIPE AND CONDUIT SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL MAY THEN BE PLACED AND COMPACTED IN A MAXIMUM OF TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES, UNLESS OTHERWISE SPECIFIED BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM MODIFIED DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 IN THE MANNER HEREIN DESCRIBED. BACKFILL SHALL PROCEED UP TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.

TYPE II TRENCH

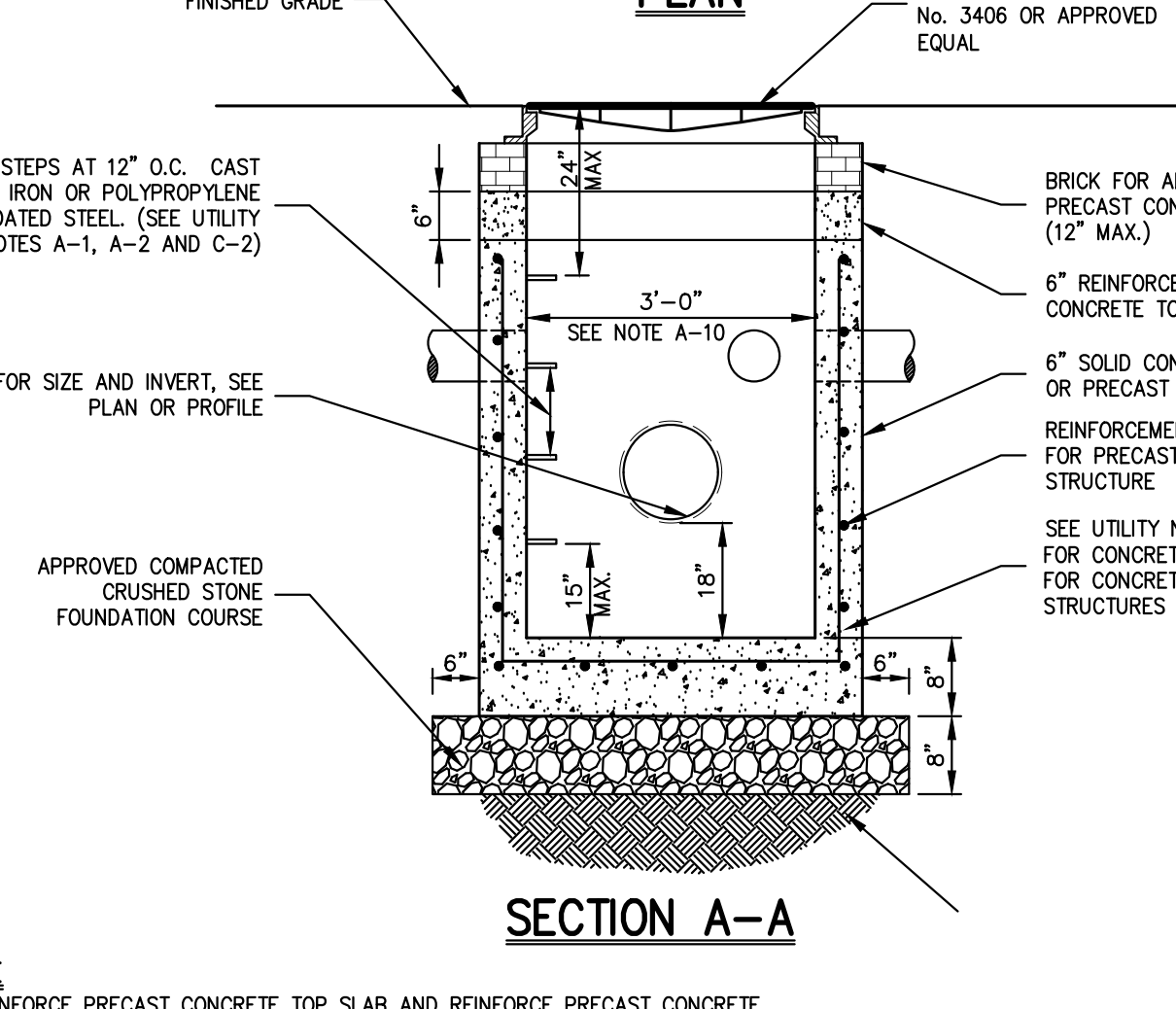
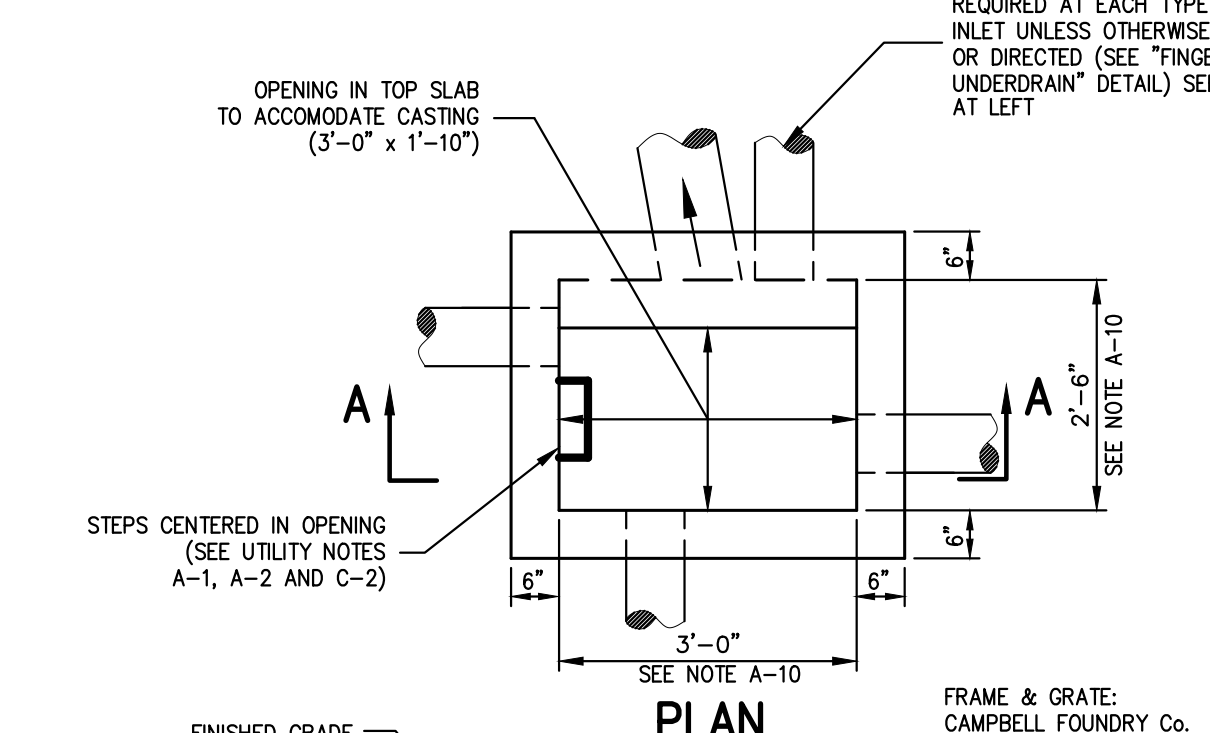
7



- NOTE**
- LOCATIONS OF FINGER UNDERDRAINS MAY VARY FROM THAT AS SHOWN DEPENDING UPON NUMBER AND SIZE OF STORM DRAIN LINES ENTERING AND EXITING THE STRUCTURE.
 - SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-90.

SITE DRAIN INLET (TYPE CI)
(WITH SUMP AND FINGER UNDERDRAINS)

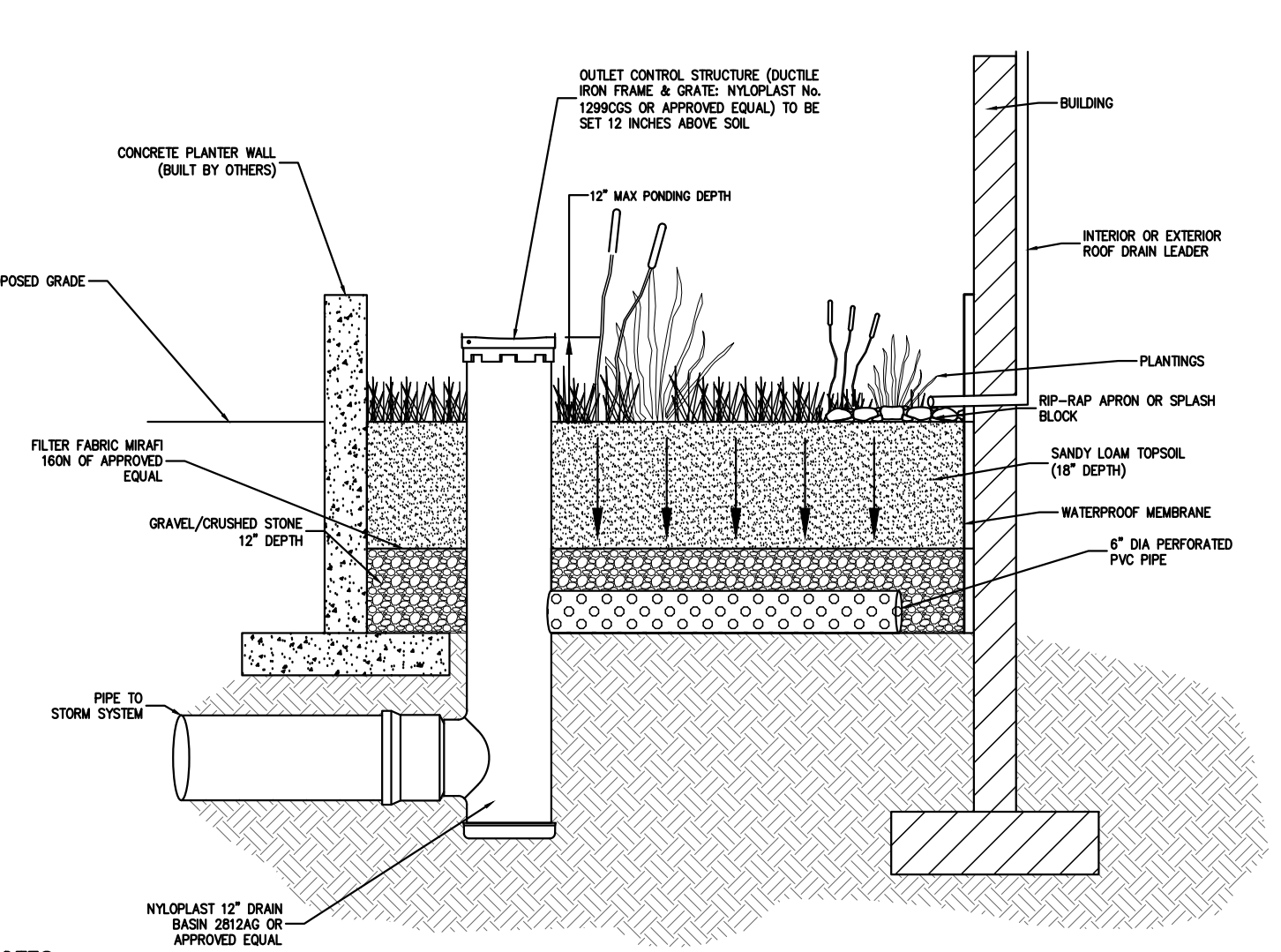
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- NOTE**
- REINFORCE PRECAST CONCRETE TOP SLAB AND REINFORCE PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.
 - LOCATIONS OF FINGER UNDERDRAINS MAY VARY FROM THAT AS SHOWN DEPENDING UPON NUMBER AND SIZE OF STORM DRAIN LINES ENTERING AND EXITING THE STRUCTURE.
 - SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-90.

DRAIN INLET (TYPE DI)
(WITH SUMP FINGER UNDERDRAINS)

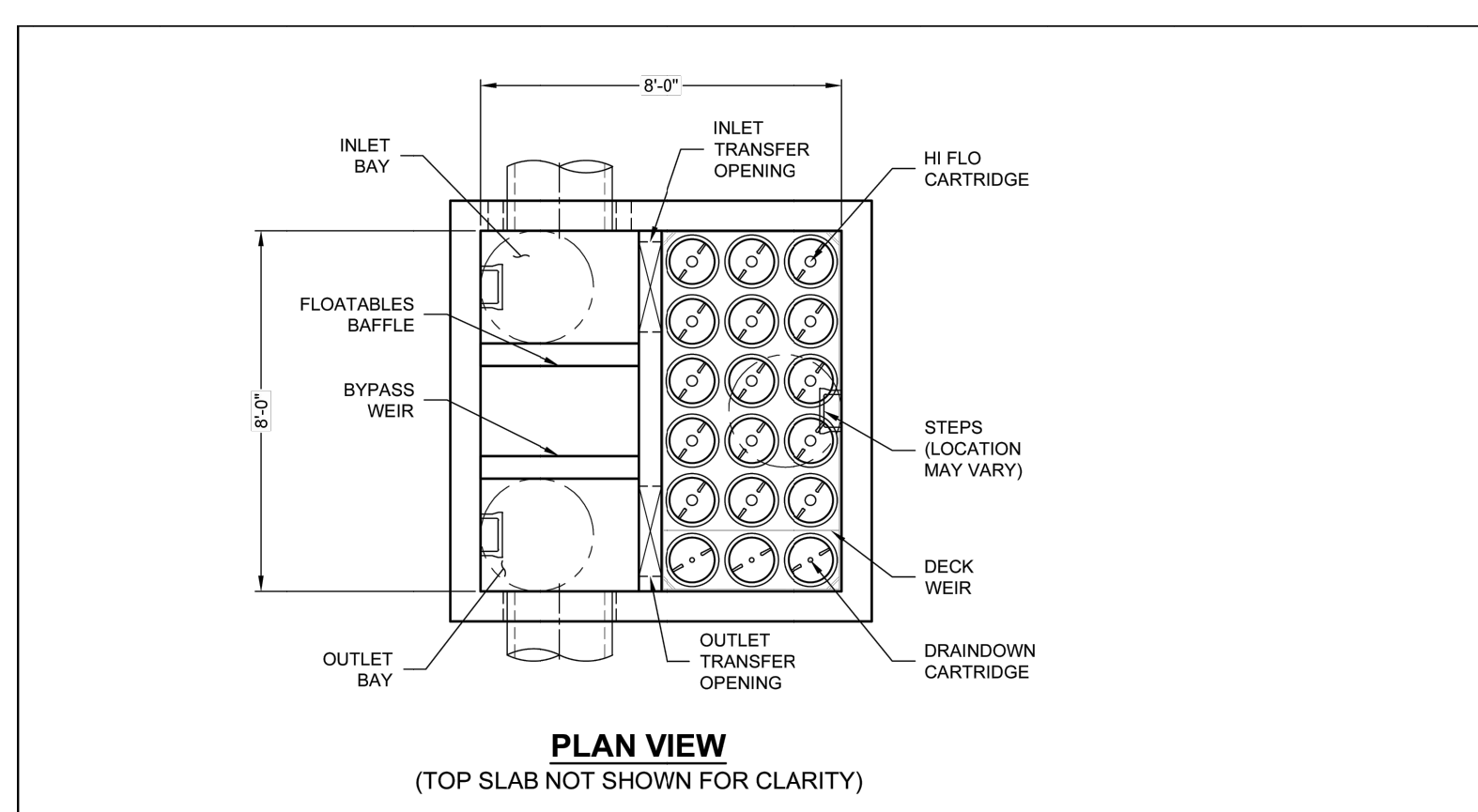
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- NOTES:**
- FLOW-THROUGH AND INFILTRATION STORMWATER PLANTERS SHOULD NOT RECEIVE DRAINAGE FROM IMPERVIOUS AREAS GREATER THAN 15,000 SQUARE FEET.
 - INFILTRATION PLANTERS SHOULD BE LOCATED A MINIMUM DISTANCE OF TEN FEET FROM STRUCTURES.
 - RP-RAP MUST BE PLACED BELOW DOWNSPOUTS OR WHERE STORMWATER ENTERS THE PLANTER TO PREVENT EROSION.
 - STORMWATER PLANTERS ARE DESIGNED TO POND WATER LESS THAN 12 HOURS, WITH A MAXIMUM OF PONDING DEPTH OF 12 INCHES.
 - FLOW-THROUGH AND INFILTRATION PLANTERS MUST HAVE A MINIMUM WIDTH OF 1.5 AND 2.5 FEET, RESPECTIVELY.
 - SOILS SPECIFICATIONS FOR THE STORMWATER PLANTERS GROWING MEDIUM SHOULD ALLOW AN INFILTRATION RATE OF 2 INCHES PER HOUR, AND 5 INCHES AN HOUR FOR THE DRAINAGE LAYER. SOIL COMPACTION MUST BE NO GREATER THAN 85% IN THE PLANTER.
 - THE GROWING MEDIUM DEPTH FOR ALL THREE STORMWATER PLANTERS TYPES SHOULD BE AT LEAST 18 INCHES. GROWING MEDIA SHOULD BE A UNIFORM MIXTURE OF 70% SAND (100% PASSING THE 1-INCH SIEVE AND 5% PASSING THE NO. 200 SIEVE) AND 30% TOPSOIL WITH AN AVERAGE OF 5% ORGANIC MATERIAL, SUCH AS COMPOST OR PEAT, FREE OF STONES, ROOTS AND WOODY DEBRIS AND ANIMAL WASTE.
 - FOR INFILTRATION AND FLOW-THROUGH PLANTERS THE DRAINAGE LAYER SHOULD HAVE A MINIMUM DEPTH OF 12 INCHES. DRAINAGE LAYER SHOULD BE CLEAN SAND WITH 100% PASSING THE 1-INCH SIEVE AND 5% PASSING THE NO. 200 SIEVE.
 - A MINIMUM INFILTRATION DEPTH OF 3 FEET SHOULD BE PROVIDED BETWEEN THE BOTTOM OF THE INFILTRATION PRACTICE AND ANY IMPERMEABLE BOUNDARIES, SUCH AS THE SEASONAL HIGH GROUNDWATER LEVEL OR ROCK.
 - INFILTRATION PLANTERS MUST BE DESIGNED AND CONSTRUCTED WITH NO LONGITUDINAL OR LATERAL SLOPE.

FLOW-THROUGH STORMWATER PLANTER

10



JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.

CARTRIDGE SELECTION	54"	42"	30"	18"
CARTRIDGE LENGTH	6'-0"	6'-0"	4'-3"	3'-3"
OUTLET INVERT TO STRUCTURE INVERT (A)	0.178 / 0.089	0.153 / 0.067	0.089 / 0.045	0.049 / 0.025
FLOW RATE HEAD (DRAINDOWN) (CFS) (PER CART)	2.96	2.25	1.47	0.81
MAX. TREATMENT (CFS)	5.00	4.00	4.00	4.00
DECK TO INSIDE TOP (MIN) (B)				

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WQS-A-5
WATER QUALITY FLOW RATE (cfs)	0.76
PEAK FLOW RATE (cfs)	6.36
RETURN PERIOD OF PEAK FLOW (yr)	100
# OF CARTRIDGES REQUIRED (MIN) (B)	-
CARTRIDGE LENGTH	-

PIPE DATA: 1E, MAT'L, DIA, SLOPE, % HGL

INLET #1	-	-	-	-
INLET #2	-	-	-	-
OUTLET	-	-	-	-

SEE GENERAL NOTES B-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.

RIM ELEVATION: -

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
-	-	-

NOTES/SPECIAL REQUIREMENTS:
- PER ENGINEER OF RECORD

- GENERAL NOTES:**
- CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEER.
 - CONTRACTOR TO CONFIRM STRUCTURE ELEVATIONS TO PROJECT.
 - JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - CONTRACTOR TO CONFIRM STRUCTURE ELEVATIONS TO PROJECT.
 - STRUCTURE SHALL MEET AASHTO H-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING CARTRIDGE COVER OR 9'-10" AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M280 LOAD RATING AND BE CAST WITH THE CONTECH LOG.
 - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-867, ASTM C-919, AND AASHTO LOAD FACTOR DESIGN METHOD.
 - OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
 - THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 - NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.
- INSTALLATION NOTES:**
- ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - APPROVED WATERSTOP OR FLEXIBLE BOOT.
 - CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTRACTOR TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

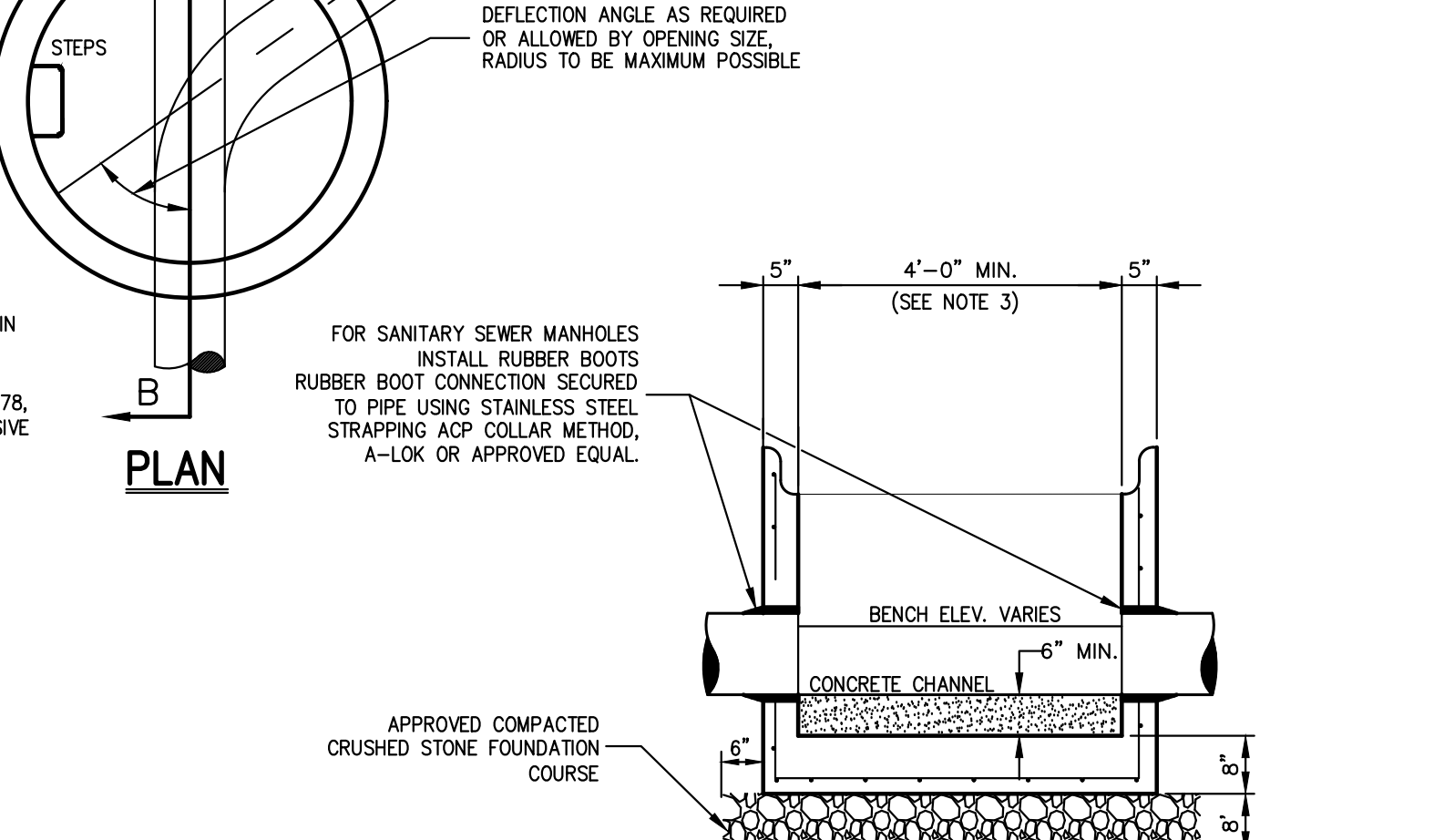
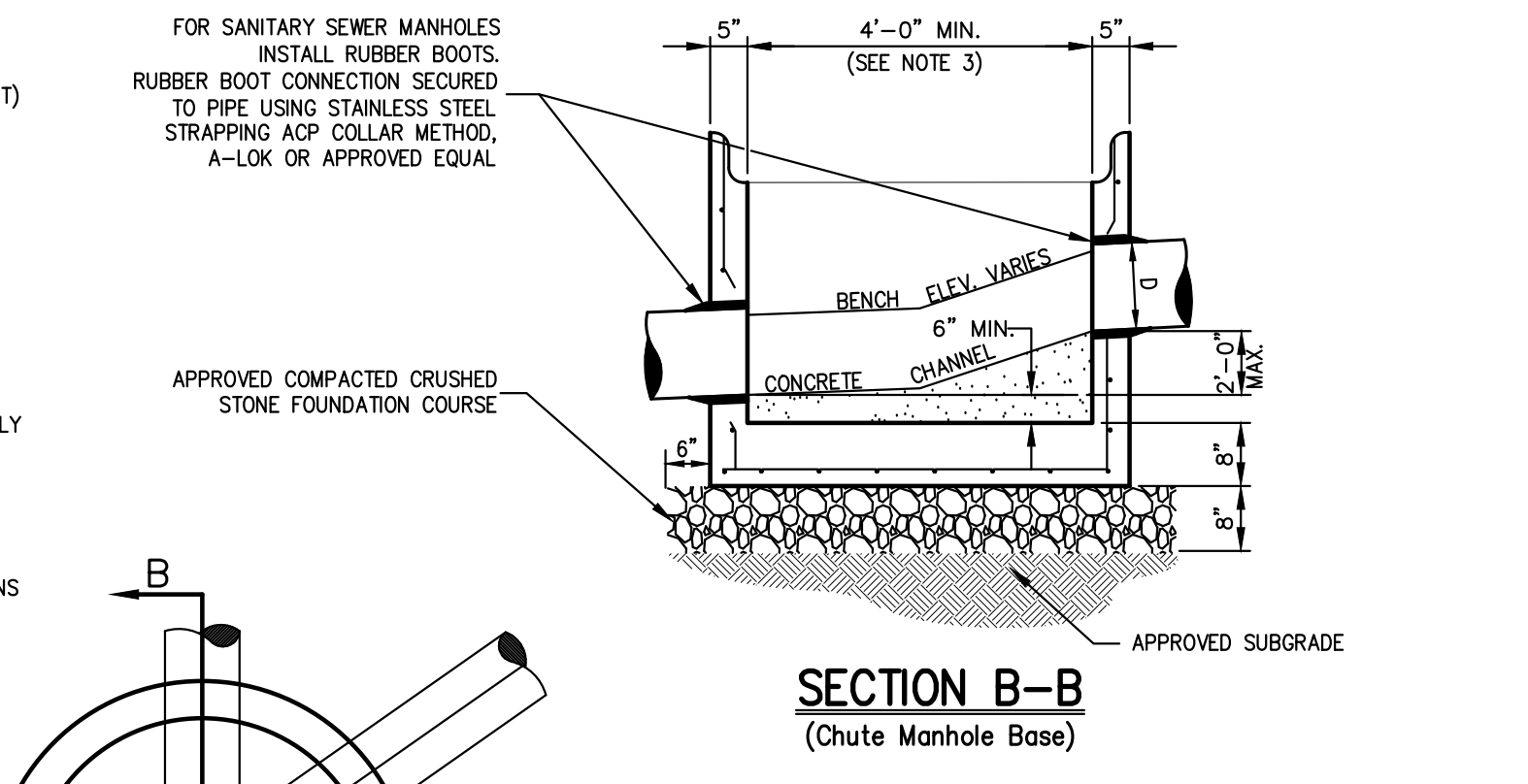
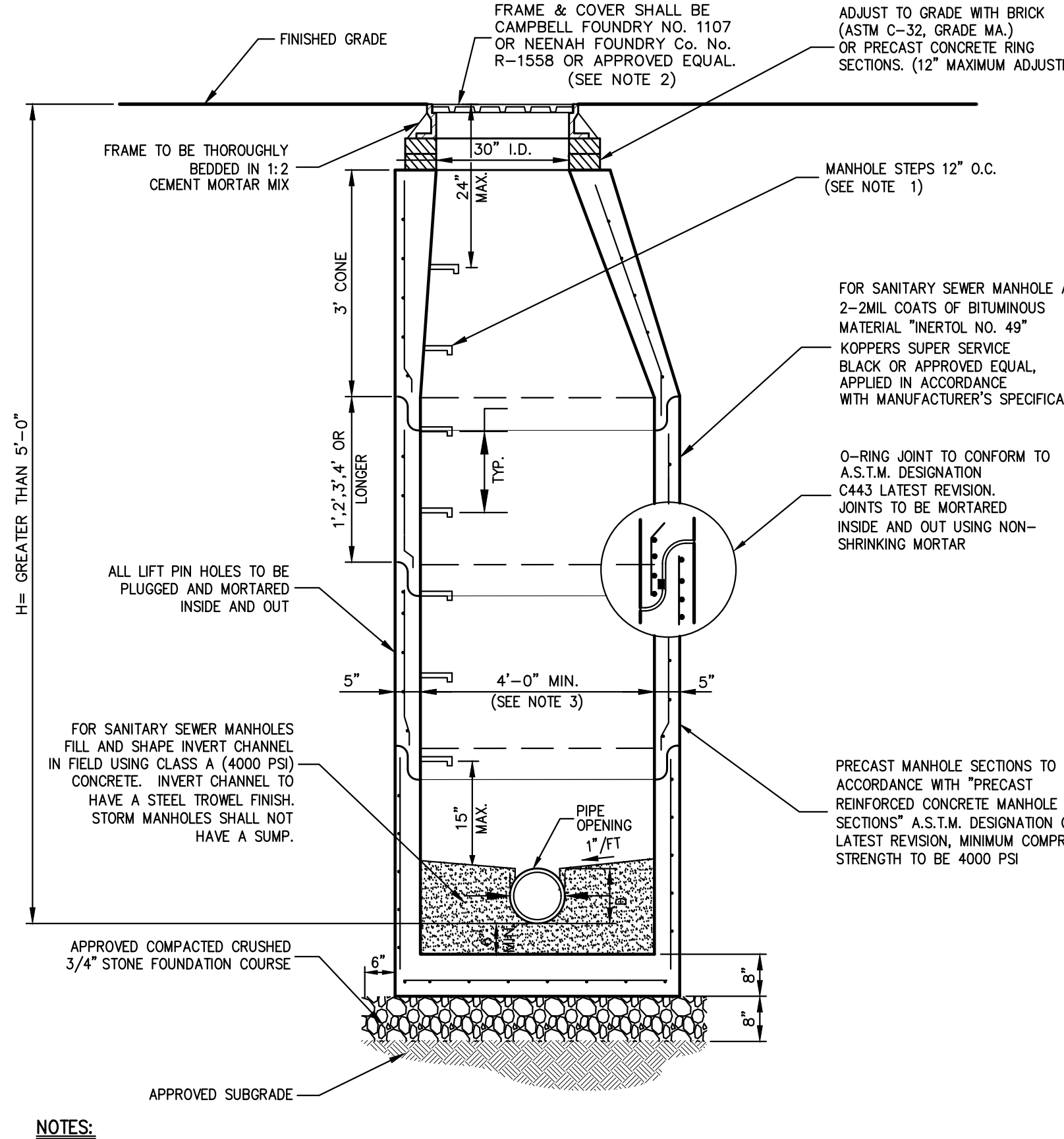
CONTECH ENGINEERED SOLUTIONS LLC
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JELLYFISH JFPD0808 STANDARD DETAIL PEAK DIVERSION CONFIGURATION

NOT FOR CONSTRUCTION

WATER QUALITY STRUCTURE

11



- NOTES:**
- MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-D OR CAMPBELL FOUNDRY No. 2586-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
 - UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER" AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
 - MANHOLES WITH DEPTH (h) 10' OR GREATER SHALL BE FIVE (5) FEET IN DIAMETER.
 - MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
 - SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON DRAWING C-902.

MANHOLE (TYPE B)
(H > 5'-0" < 10'-0")

12

Date	By
10/20/2023	EJK
12/01/2023	EJK
12/06/2023	EJK
12/26/2023	EJK

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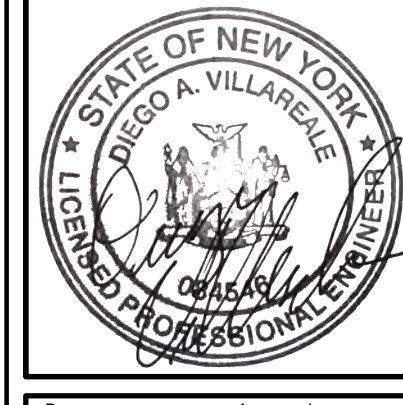
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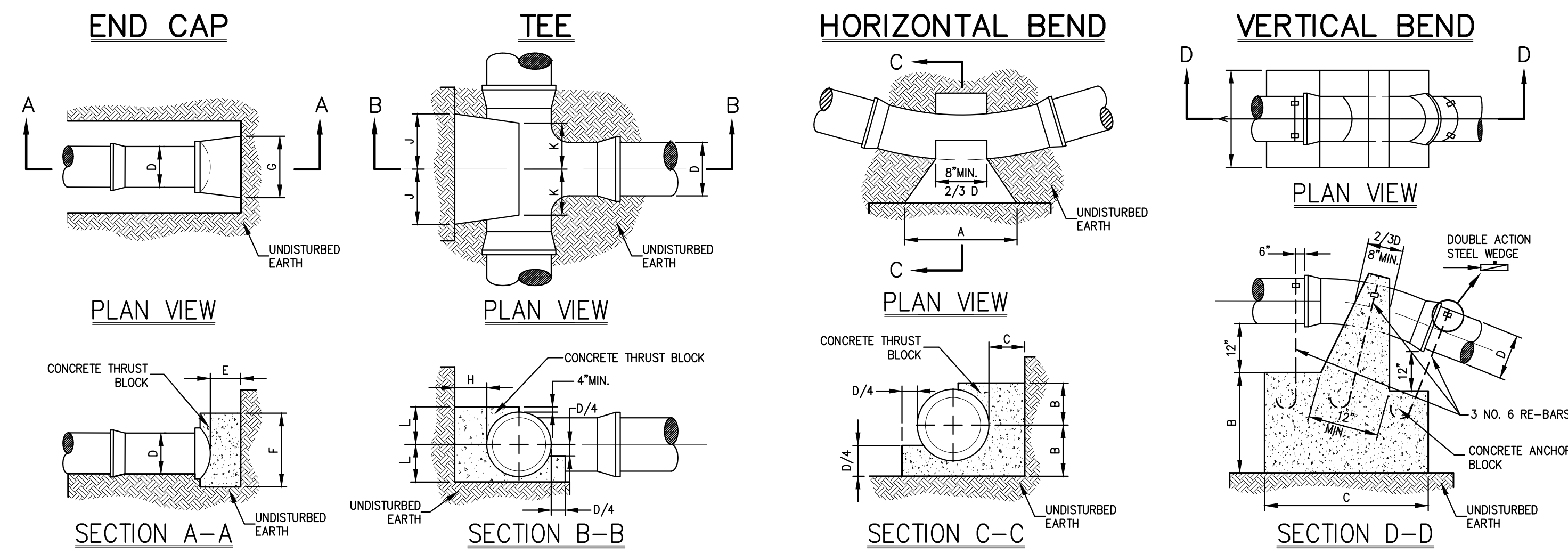
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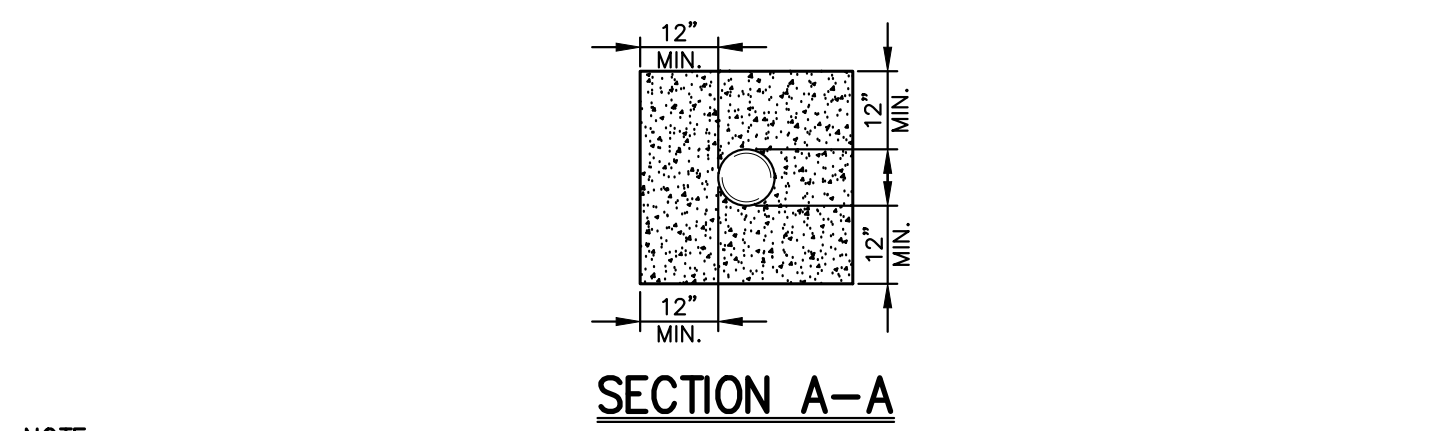
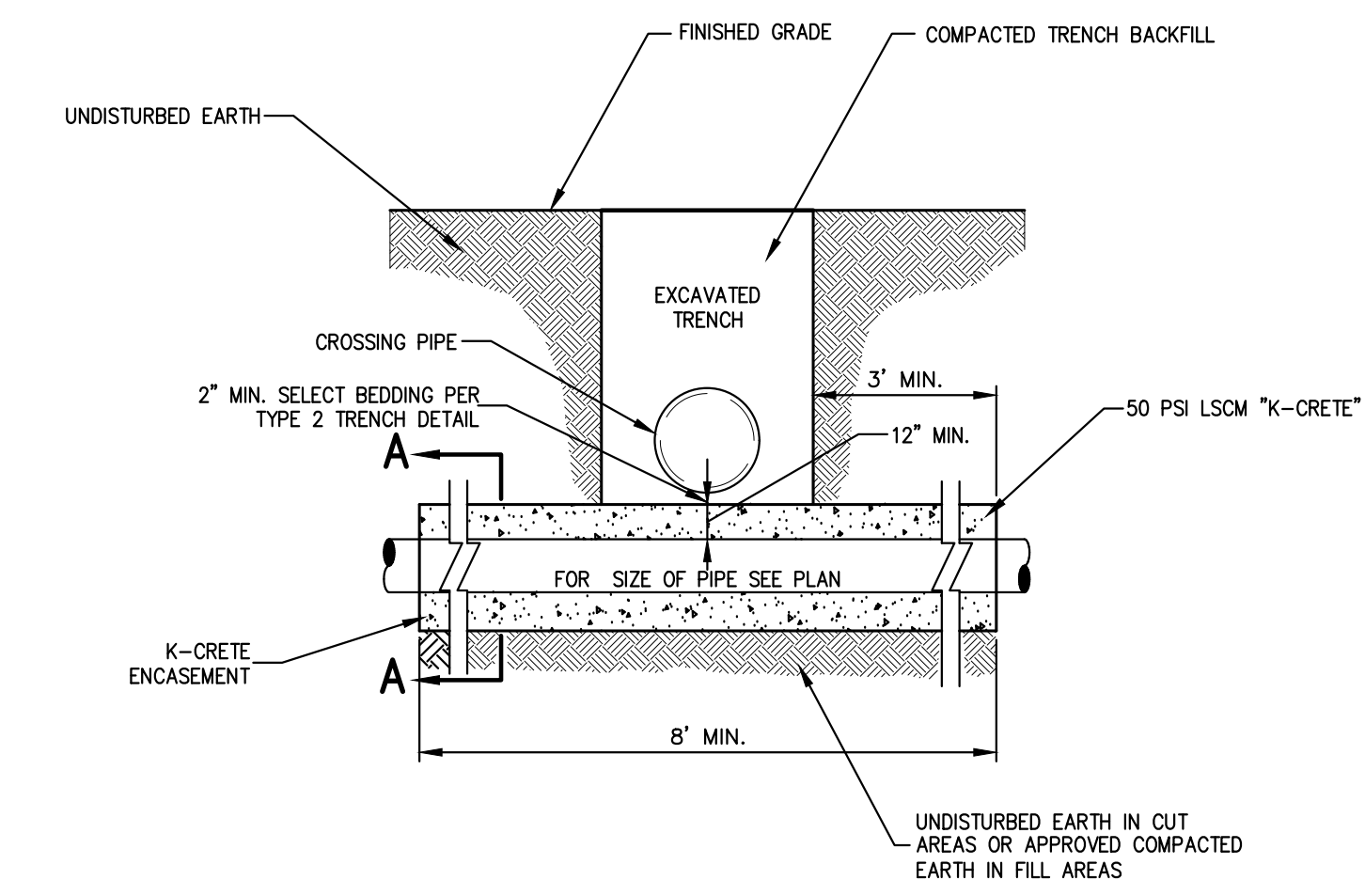


Client:	EJK	Approved:	AN
Scale:	NOT TO SCALE		
Date:	10/17/2023		
Project No.:	22062		
2006-ITEM:	DET-2		
Drawing No.:	C-901		



END CAP CHART						TEE CHART						HORIZONTAL BEND CHART						VERTICAL BEND CHART							
D	4"	6"	8"	10"	12"	D	4"	6"	8"	10"	12"	BEND (DEGREE)	4"	6"	8"	10"	12"	BEND (DEGREE)	4"	6"	8"	10"	12"	16"	
E	6"	6"	8"	8"	10"	H	6"	7"	9"	10"	12"	A	1'-6"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	B	1'-3"	1'-3"	1'-9"	1'-3"	2'-0"	2'-6"
F	12"	12"	1'-4"	1'-8"	2'-0"	J	7"	7"	9"	12"	1'-2"	C	2'-0"	2'-0"	2'-6"	2'-9"	3'-0"	4'-0"	C	2'-0"	2'-0"	2'-6"	2'-9"	3'-0"	4'-0"
G	1'-5"	1'-5"	2'-0"	2'-5"	3'-0"	K	6"	6"	8"	8"	8"	1/16 (90°)	A	1'-3"	1'-3"	1'-9"	2'-1"	2'-6"	1/16 (90°)	A	2'-0"	2'-0"	2'-6"	3'-0"	3'-6"

- NOTES:**
- ALL CONCRETE TO BE CLASS A (4,000 PSI).
 - ALL DIMENSIONS ARE MINIMUMS; ALL ANCHOR AND THRUST BLOCKS SHALL BEAR ON UNDISTURBED EARTH.
 - IN ALL CASES SHOWN, MEASUREMENT "D" REFERS TO THE INSIDE PIPE DIAMETER.
 - ANCHOR AND THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM FOR 100 PSI WATER PRESSURE AND SOIL RESISTANCE OF 2 KIPS PER SQ. FT. CONTRACTOR SHALL ADAPT FOR OTHER CONDITIONS AND SUBMIT FOR APPROVAL.
 - IF THE OWNER OF THE WATER SYSTEM REQUIRES A METHOD THAT RESTRAINS INDIVIDUAL JOINTS, EACH JOINT THAT FALLS WITHIN THE MINIMUM RESTRAINED LENGTH, MEASURED FROM THE CENTER OF THE FITTING, AS SHOWN ON THESE SHEETS SHALL BE RESTRAINED, AND SHALL WITHSTAND THE MAXIMUM PRESSURE APPLIED TO THE SYSTEM.
 - CLASS A CONCRETE SHALL NOT BE PLACED UNDER WATER. THE CONTRACTOR SHALL DEMARK THE EXCAVATION OR PLACE TYPE C CONCRETE USING APPROPRIATE UNDERWATER PLACEMENT TECHNIQUES.
 - CONCRETE FOR THRUST BLOCKS SHALL NOT BE ALLOWED TO COVER OR INTERFERE WITH JOINT OR RESTRAINT HARDWARE. PLASTIC SHEETING OR BUILDING FELT MAY BE PLACED OVER PIPE OR FITTINGS TO PREVENT CONCRETE FROM ADHERING TO SURFACES.
 - FOR BENDS, BEARING AREA SHALL BE PARALLEL TO THE EDGE OF THE FITTING AT THE FITTING MIDPOINT.
 - FOR TEES, BEARING AREA SHALL BE PERPENDICULAR TO THE BRANCH (SINGLE LEG) AXIS.
 - FOR REDUCERS, BEARING AREA SHALL BE PERPENDICULAR TO THE FITTING AXIS. THE MINIMUM THICKNESS ALONG THE FITTING AXIS SHALL BE 1'-0" OR THE LENGTH BETWEEN THE BELLS, WHICHEVER IS SMALLER.
 - THRUST RESTRAINTS FOR SIZES OR FITTINGS NOT SHOWN ON THESE SHEETS WILL BE DESIGNED ON A CASE BY CASE BASIS, AND WILL BE SHOWN IN THE CONTRACT DOCUMENTS.



- NOTE:**
- FULL LENGTH OF PIPE TO BE USED AT CROSSING. PIPE TO BE CENTERED ON CENTERLINE OF CROSSING PIPE. NO JOINTS SHALL BE LOCATED WITHIN THE AREA OF CONCRETE ENCASEMENT.
 - POLYETHYLENE WRAP SHALL BE INSTALLED AROUND THE DUCTILE IRON PIPE PRIOR TO INSTALLATION OF K-CRETE. POLYETHYLENE PROTECTIVE WRAPPING ("POLYWRAP") SHALL CONFORM TO THE REQUIREMENTS OF ANS/AWWA C105/A21.5 AND BE EIGHT (8) MIL THICK TUBING OF VIRGIN POLYETHYLENE (DUPONT ALATHON, U.S. 1, PETROTHENE RESIN, OR APPROVED EQUAL) OR FOUR (4) MIL THICK HIGH-DENSITY, CROSS-LAMINATED (HDCL) POLYETHYLENE. THE COLOR SHALL BE (A) NATURAL (WHERE EXPOSURE TO SUNLIGHT WILL BE LESS THAN 48 HOURS), OR (B) BLACK, CONTAINING 2.0 TO 2.25% WELL-DISPERSED CARBON BLACK WITH STABILIZERS (WHERE EXPOSURE TO SUNLIGHT MAY BE UP TO 10 DAYS). TUBING SHALL BE TAPED AND SECURED WITH GENERAL PURPOSE POLYETHYLENE TAPES, 2 INCHES WIDE AND 10 MILS THICK (SCOTCHRAP No. 50, PLOICOPLEX No. 340, PROTECTO WRAP No. 200, POLYKEN No. 900, OR APPROVED EQUAL).

NOTES PERTAINING TO DRAIN INLETS

- STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR DRAIN INLETS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).
- WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
- FOR MASONRY STRUCTURES, THE FIRST COURSE OF MASONRY SHALL BE SET IN THE CONCRETE FOUNDATION BEFORE THE CONCRETE HAS SET. CONCRETE FOUNDATION SHALL BE CLASS "A" (4,000 PSI) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE OF THE STRUCTURE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- ALL NECESSARY PATINGS FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIK-A-SET AS MANUFACTURED BY THE SIK-A CHEMICAL CORP.
- FOUNDATIONS FOR PRECAST CONCRETE STRUCTURES SHALL BE SET ON A COMPACTED LAYER OF APPROVED CRUSHED STONE HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
- ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
- PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.
- FOR MASONRY STRUCTURES GREATER THAN TEN (10) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.
- FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

NOTES PERTAINING TO MANHOLES

- PRECAST CONCRETE MANHOLES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.
- FOR PRECAST CONCRETE MANHOLES FIVE (5) FEET OR LESS IN HEIGHT, TOP CONE SECTION SHALL BE REPLACED WITH PRECAST REINFORCED CONCRETE SLAB (6" MIN. THICKNESS) WITH OPENING OF SAME SIZE TO ACCOMMODATE MANHOLE CASTING.
- FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.
- TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.
- INVERT CHANNELS FOR PRECAST CONCRETE MANHOLES SHALL BE CONSTRUCTED OF CONCRETE.
- NOTES A-1, A-2, A-4, A-5, A-6 & A-7 UNDER "NOTES PERTAINING TO DRAIN INLETS" ABOVE SHALL APPLY TO MANHOLES.

NOTES PERTAINING TO PRECAST CONCRETE STRUCTURES FOR STORM DRAINS, SANITARY SEWERS AND WATER LINES

- ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.
- STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES WHEN PRACTICABLE.

ANCHOR AND THRUST BLOCKS

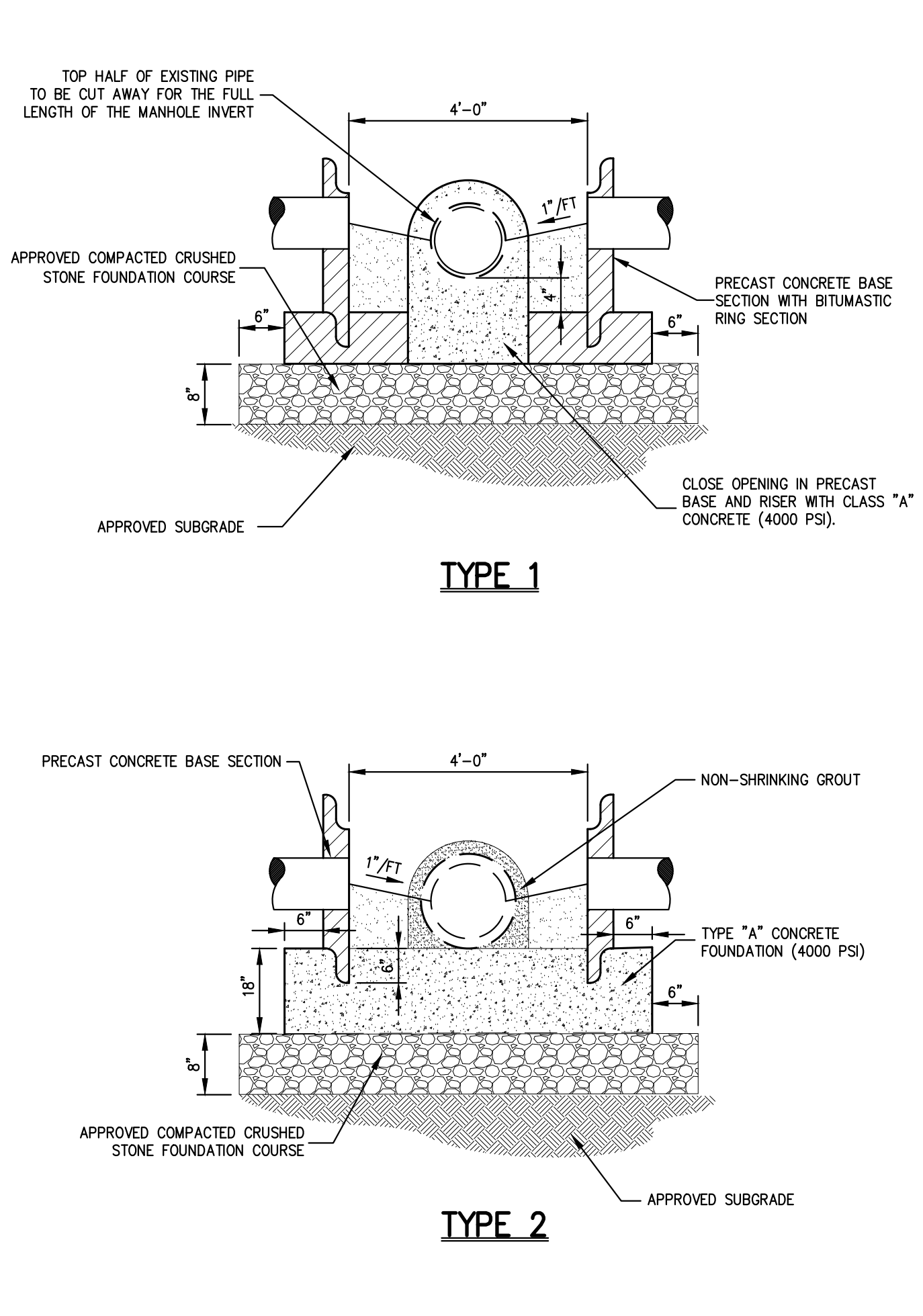
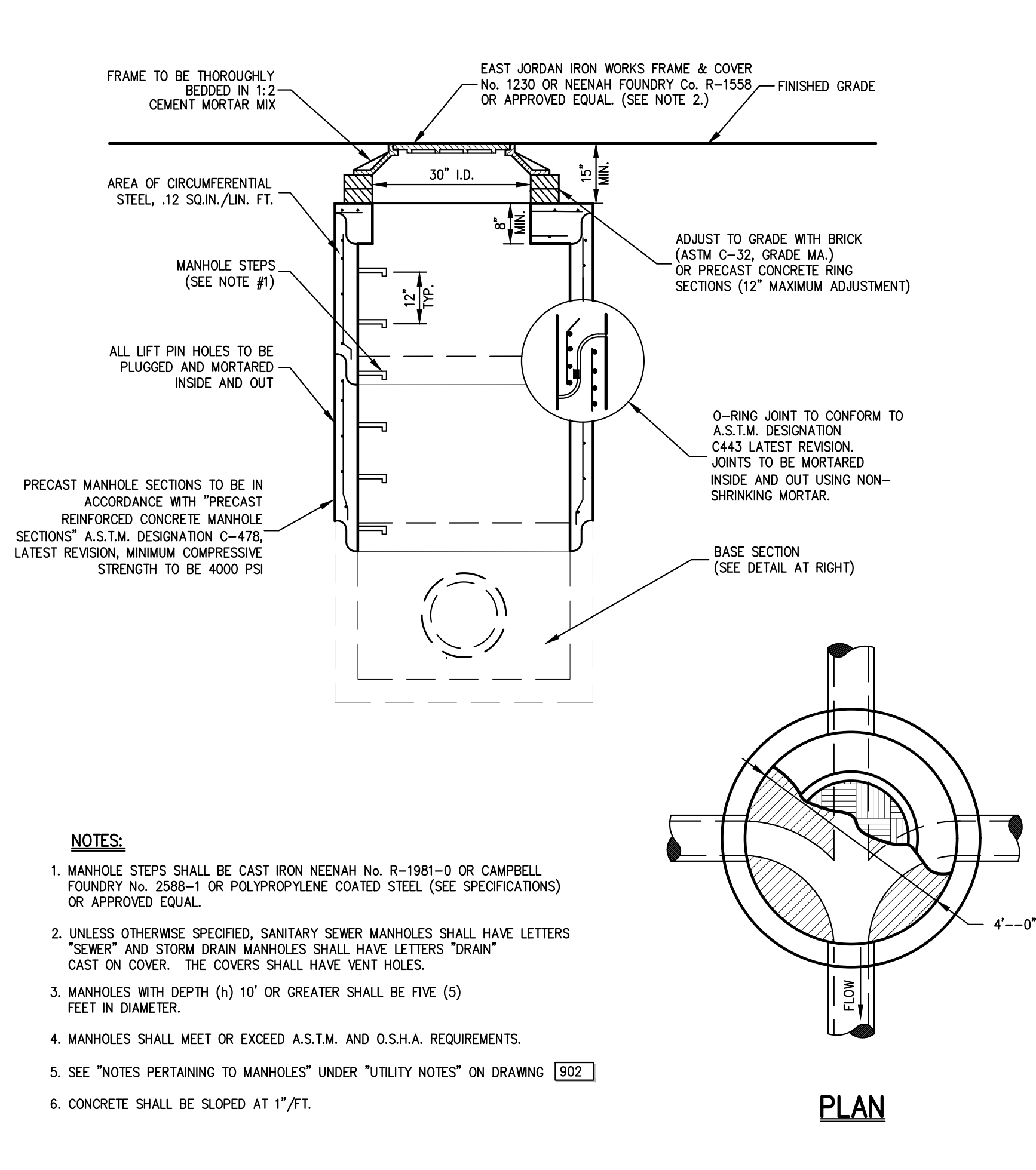
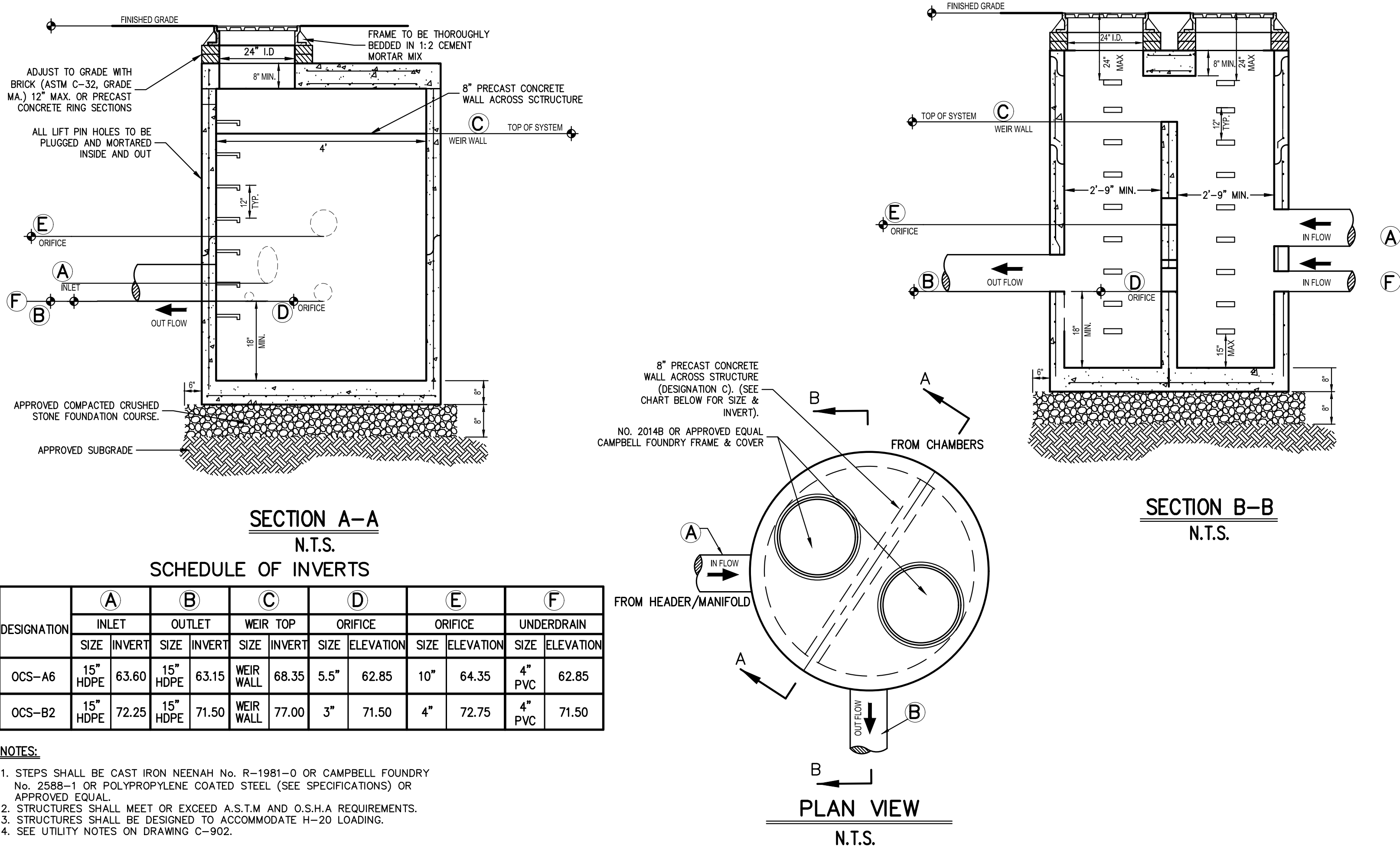
13

K-CRETE ENCASEMENT

14

UTILITY NOTES

14A



OUTLET CONTROL STRUCTURE

15

DOGHOUSE MANHOLE

16

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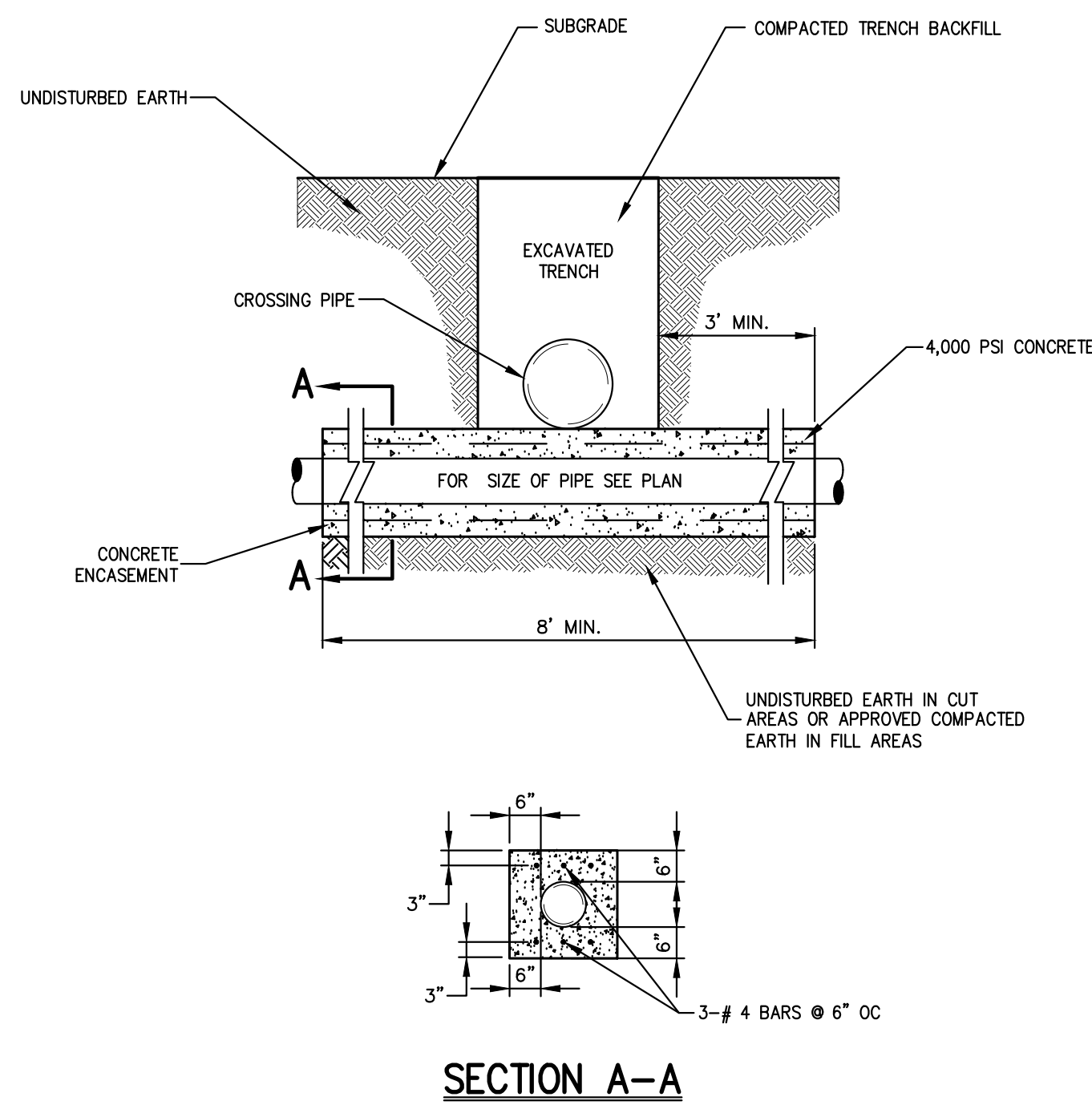
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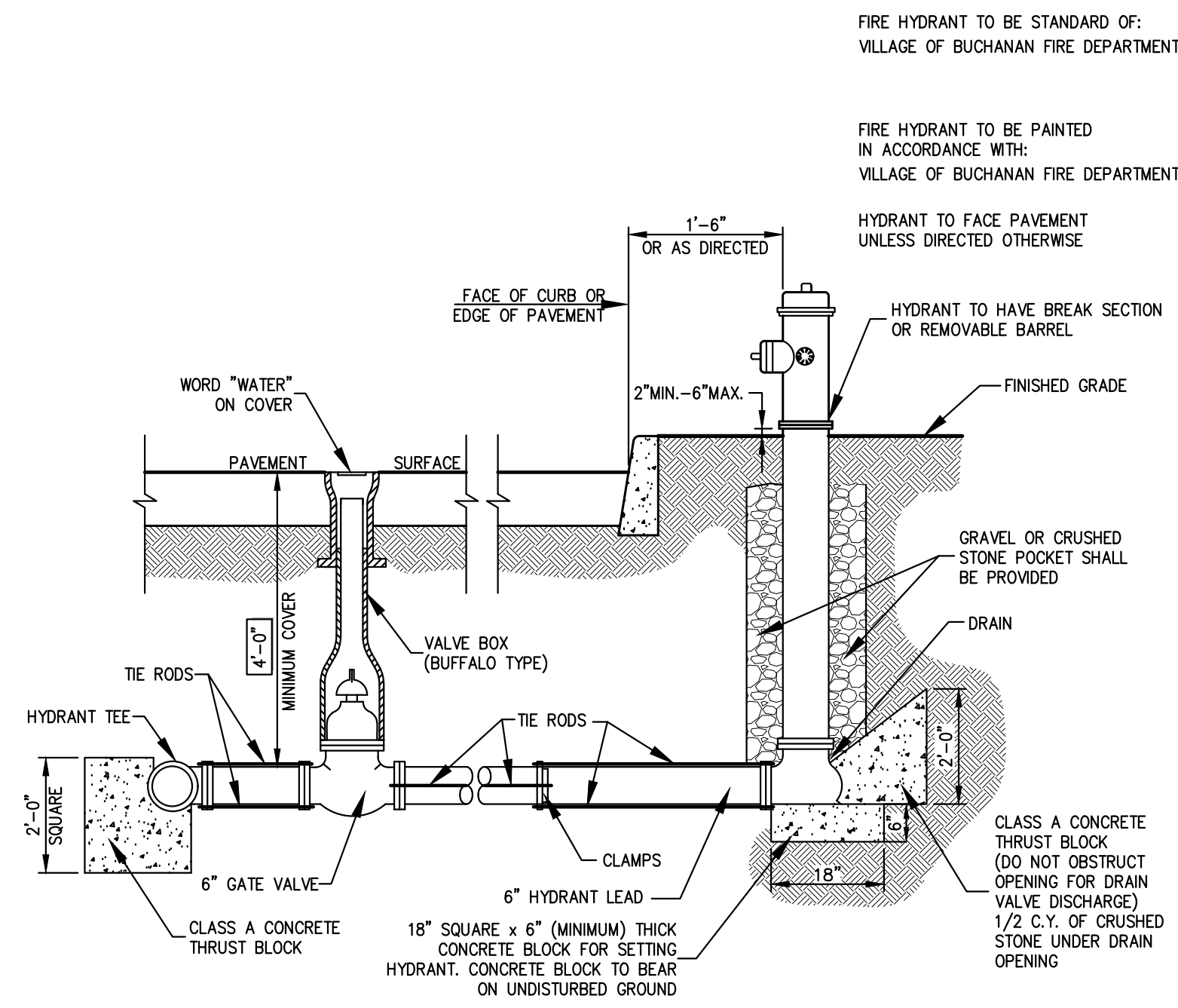
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 VILLAGE OF BUCHANAN, NEW YORK

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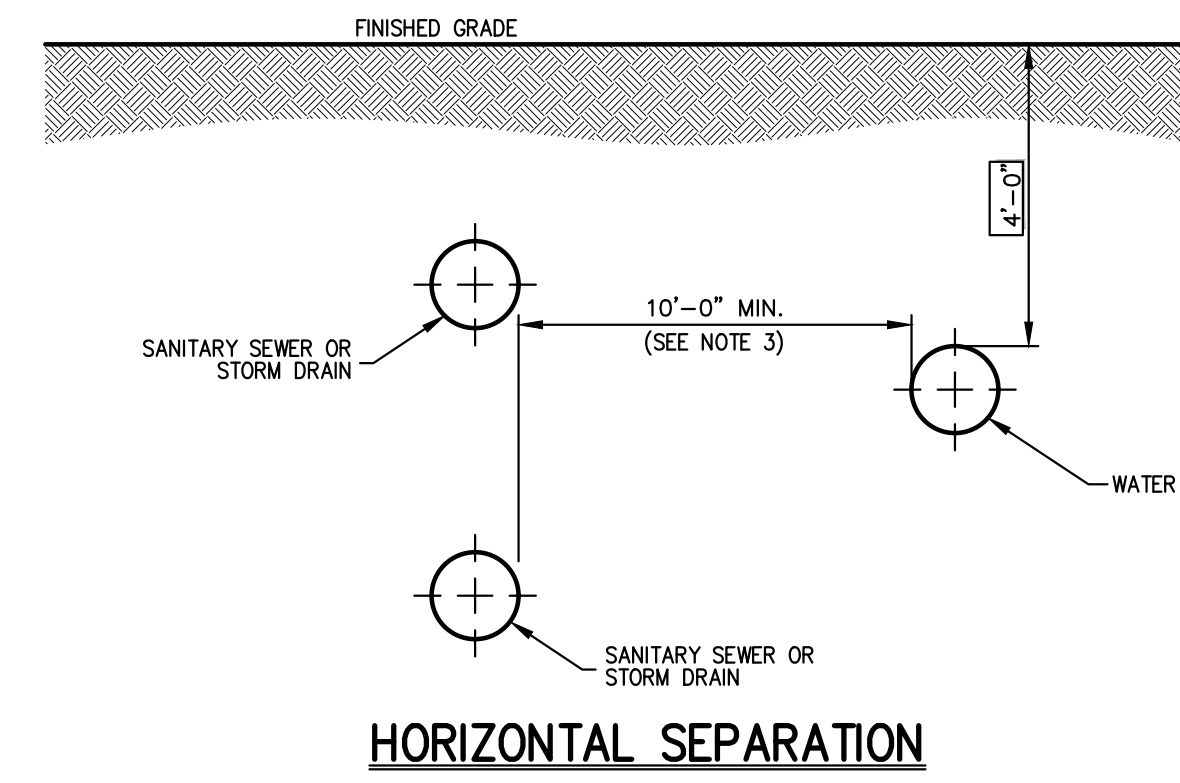
Client: EJK Approved: AN
 Scale: NOT TO SCALE
 Date: 10/17/2023
 Project No: 22062
 ZONE/TEAM: BET-3
 Drawing No: C-902



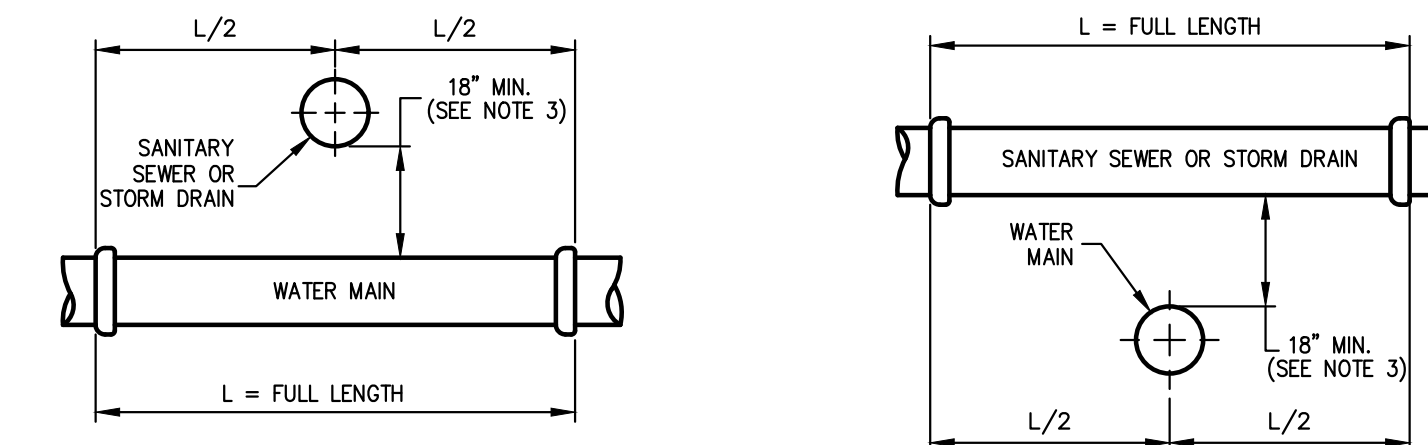
NOTE:
1. FULL LENGTH OF PIPE TO BE USED AT CROSSING. PIPE TO BE CENTERED ON CENTERLINE OF CROSSING PIPE. NO JOINTS SHALL BE LOCATED WITHIN THE AREA OF CONCRETE ENCASUREMENT.



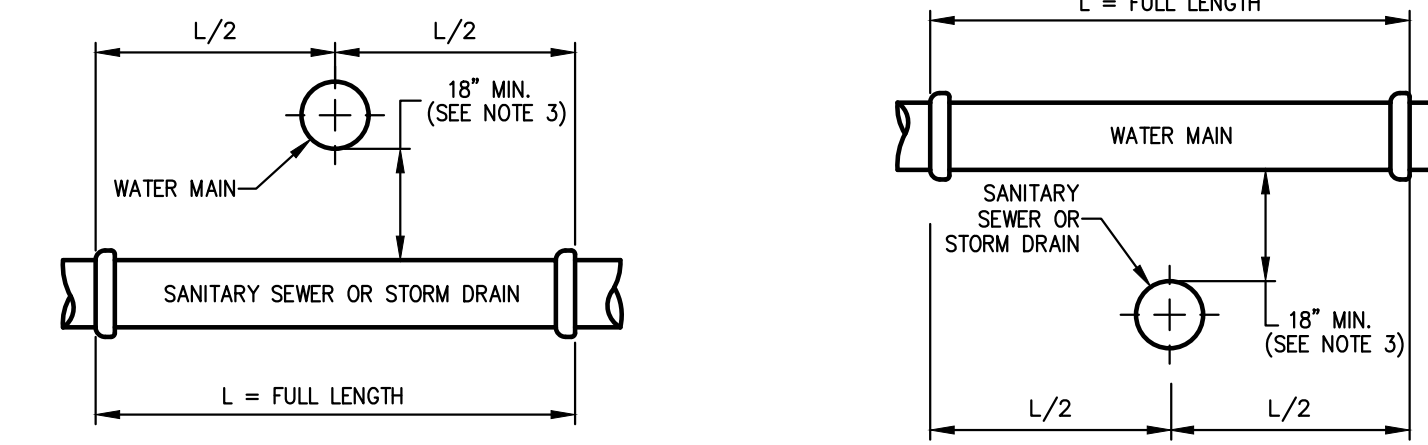
NOTES:
1. ALL CONCRETE THRUST BLOCKS SHALL BEAR ON UNDISTURBED GROUND.
2. RODDING SHALL CONSIST OF TWO 3/4\"/>



HORIZONTAL SEPARATION



SANITARY SEWER OR STORM DRAIN OVER WATER MAIN



WATER MAIN OVER SANITARY SEWER OR STORM DRAIN

VERTICAL SEPARATION

NOTES:
1. NORMAL CONDITIONS:
A. WHENEVER A WATER MAIN MUST CROSS OVER OR UNDER A SANITARY SEWER OR STORM DRAIN, THE PIPES SHALL BE LAD TO PROVIDE A VERTICAL SEPARATION BETWEEN THEM OF AT LEAST 18 INCHES, AS MEASURED FROM THE BOTTOM OF THE HIGHER PIPE TO THE CROWN OF THE LOWER PIPE.
B. FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
2. WATER MAIN CROSSING UNDER SANITARY SEWERS:
A. VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED.
B. ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SANITARY SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING.
C. FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
3. IF DURING CONSTRUCTION IT IS FOUND THAT THE REQUIRED SEPARATION OF WATER MAINS, SANITARY SEWERS, STORM SEWERS AND BUILDING SANITARY SEWERS CANNOT BE MET, THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL IN WRITING ADVISE JMC OF THE SPECIFIC CONDITIONS ENCOUNTERED. APPROVAL OF ALTERNATIVE SEPARATION CRITERIA SHALL BE OBTAINED FROM THE VILLAGE OF BUCHANAN AND/OR THE WESTCHESTER COUNTY DEPT PRIOR TO INSTALLATION.

CONCRETE ENCASUREMENT

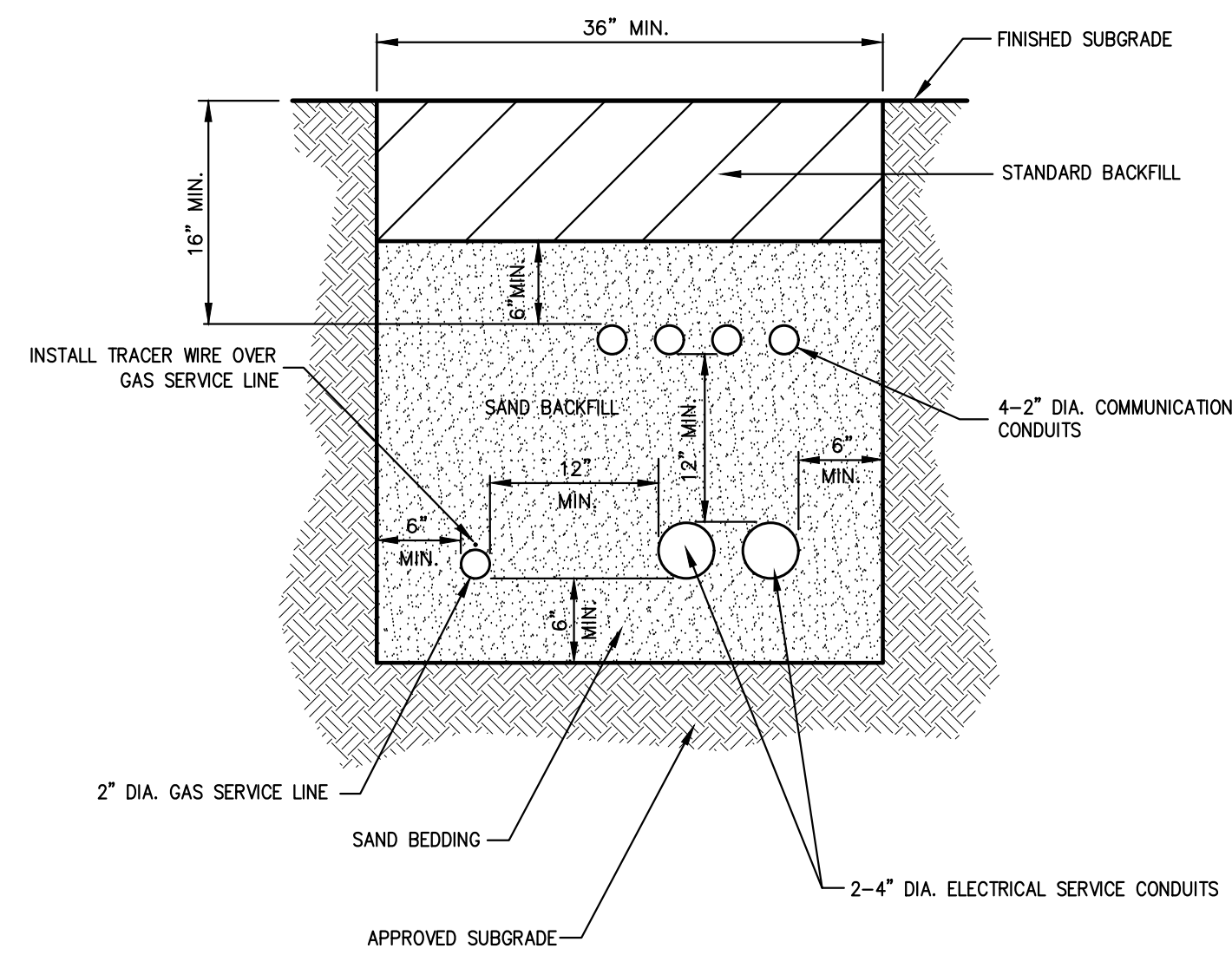
17

HYDRANT INSTALLATION

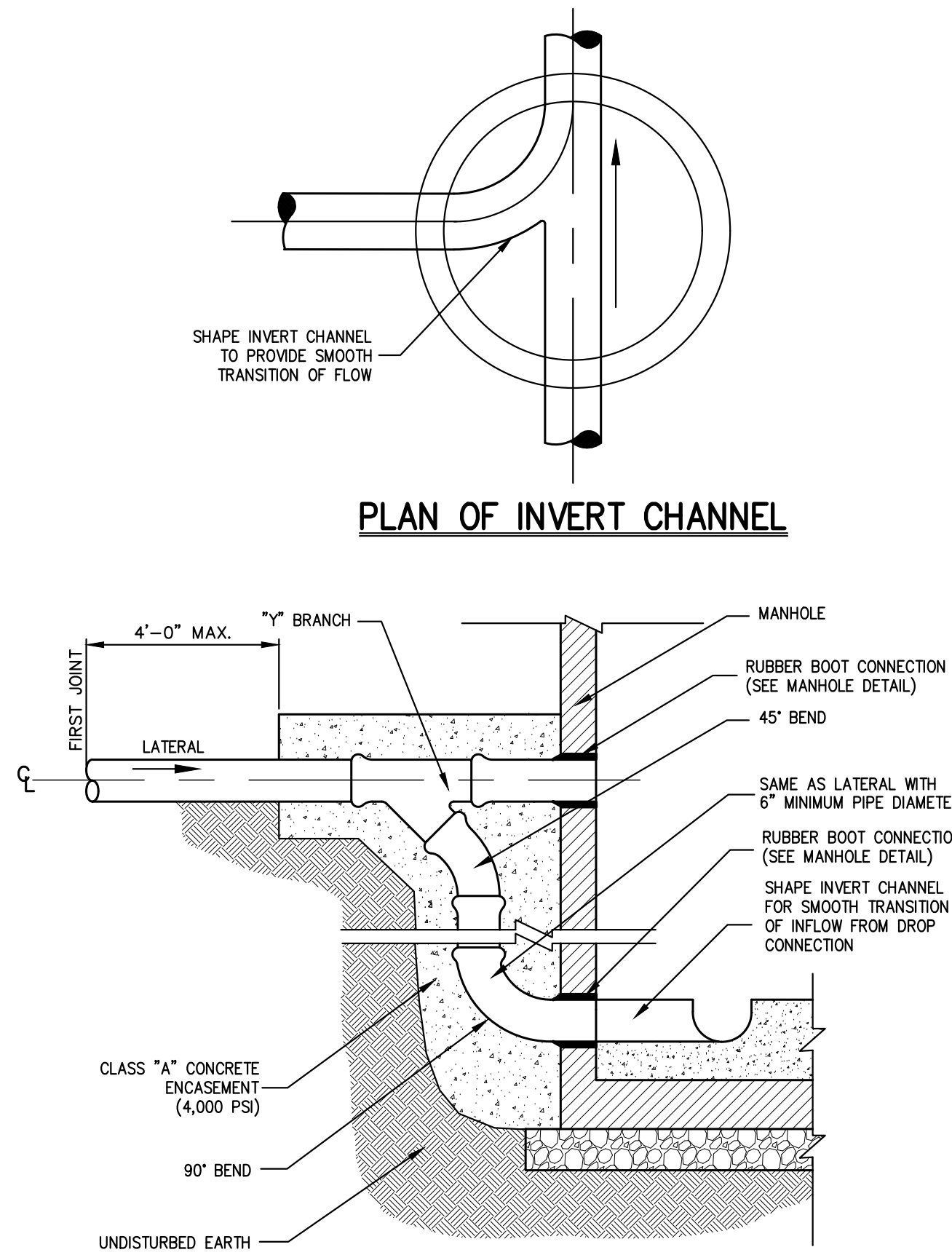
18

SEPARATION OF WATER AND SANITARY SEWER/STORM DRAIN LINES

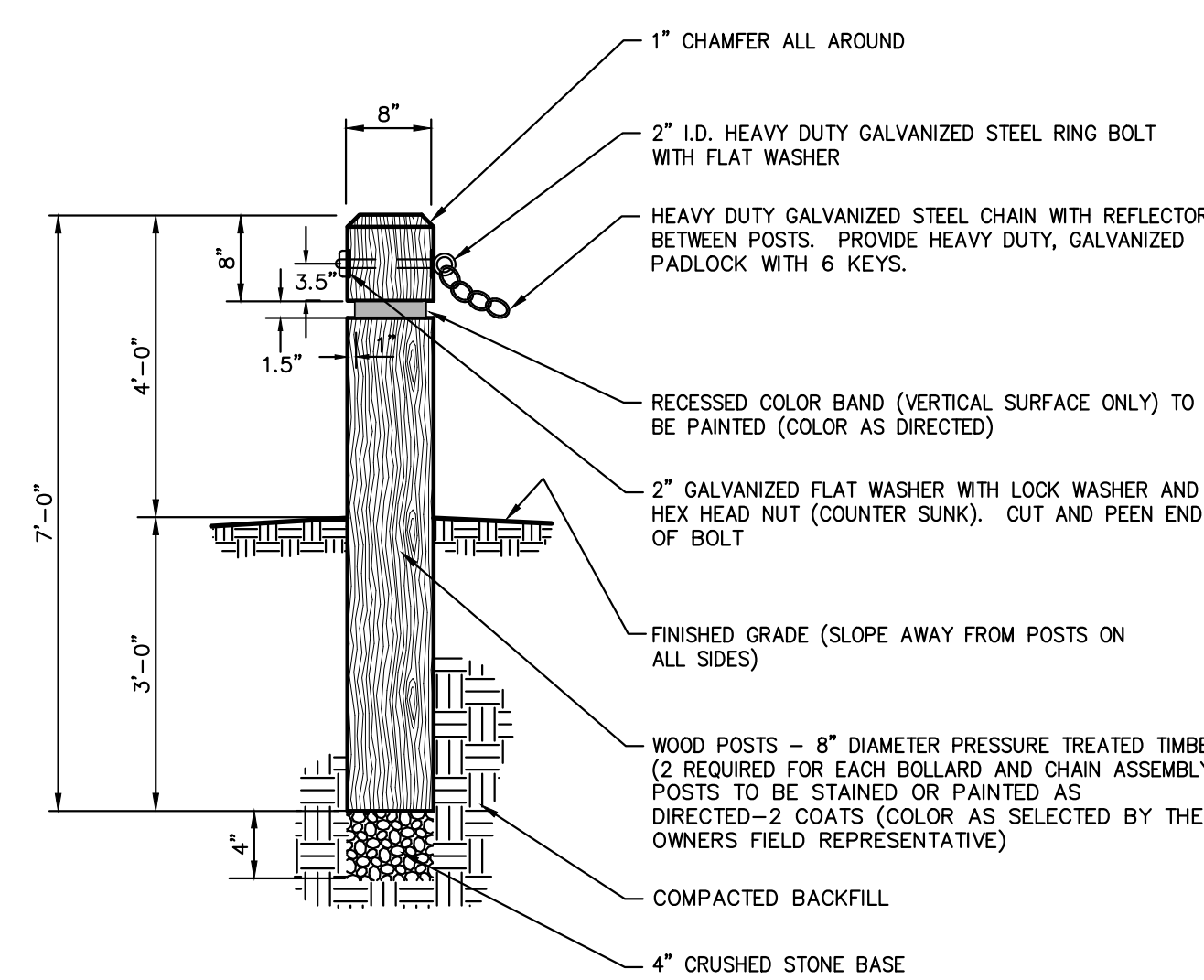
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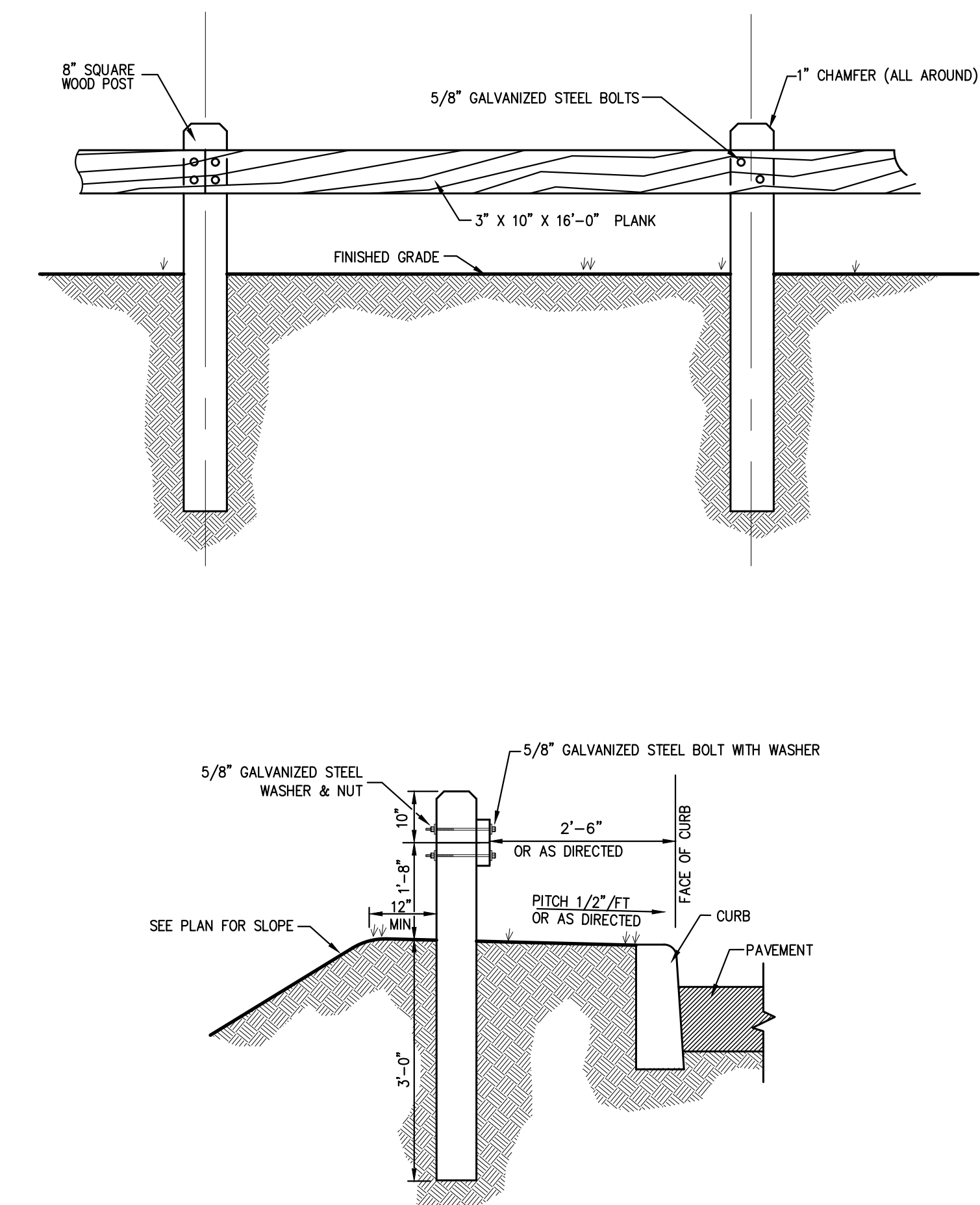
NOTES:
1. UTILITIES TO BE INSTALLED IN ACCORDANCE WITH THE REGULATIONS AND REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.
2. BACKFILL FOR PIPE AND CONDUIT SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL MAY THEN BE PLACED AND COMPACTED IN A MAXIMUM OF TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES. UNLESS OTHERWISE SPECIFIED BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM MODIFIED DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 IN THE MANNER HEREIN DESCRIBED. BACKFILL SHALL PROCEED UP TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.
3. CONTRACTOR SHALL STAKE THE PROPOSED SERVICE LINES AND CONDUITS PRIOR TO BACKFILLING TO ENSURE SERVICES DO NOT MOVE WITHIN TRENCH.



NOTES:
1. DROP CONNECTION SHALL BE USED WHEN INCOMING SANITARY SEWER IS 2'-0\"/>



NOTES:
1. BOLLARD SHALL BE EQUIPPED WITH KNOX BOX APPROVED BY BUCHANAN FIRE DEPARTMENT, THE VILLAGE OF BUCHANAN BUILDING INSPECTOR, AND/OR THE VILLAGE OF BUCHANAN ENGINEER.



NOTES:
1. ALL WOOD TO BE SEASONED NO.1 DOUGLAS FIR, SOUTHERN PINE OR OTHER APPROVED STRUCTURAL LUMBER.
2. GALVANIZED BOLT AND NUT TO BE 4000 MIN. 5400 MAX. TENSILE STRENGTH. AFTER GALVANIZING BOLT AND NUT, THE NUT SHALL BE FREE RUNNING ON THE BOLT.

UTILITY TRENCH DETAIL

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DROP CONNECTION AT MANHOLE (SANITARY SEWER)

21

BOLLARD & CHAIN ASSEMBLY (WOOD)

21A

WOOD GUIDE RAIL

22

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	WOCH SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	

BUCHANAN DEV AMS LLC
ONE BRIDGE PLAZA NORTH, SUITE 840
FORT LEE, NJ 07024
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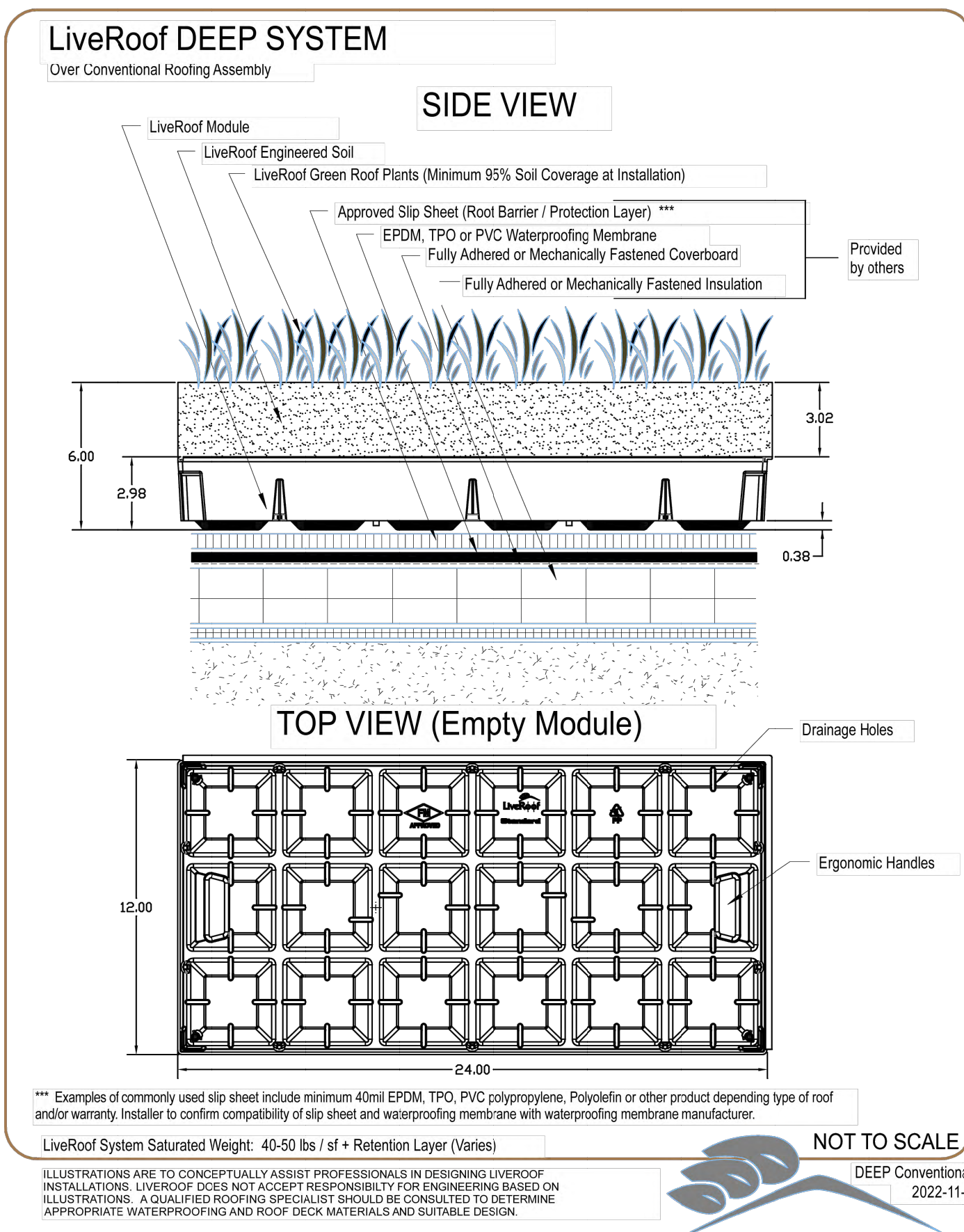
CONSTRUCTION DETAILS
AMS BUCHANAN
ALBANY POST ROAD & CRAFT LANE
VILLAGE OF BUCHANAN, NEW YORK

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Client:	EJK	Approved:	AN
Scale:	NOT TO SCALE		
Date:	10/17/2023		
Project No:	22062		
2024-REV:	DET-4		
Drawing No:	C-903		

NOT FOR CONSTRUCTION



LiveRoof, LLC
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Spring Lake, MI 49456

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www.liveroof.com

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LIVEROOF DEEP SYSTEM

23

X

X

No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	VILLAGE SUBMISSION	12/06/2023	EJK
3.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

APPLICANT:
BUCHANAN DEV AMS LLC
ONE BRIDGE PLAZA NORTH, SUITE 640
FORT LEE, NJ 07024

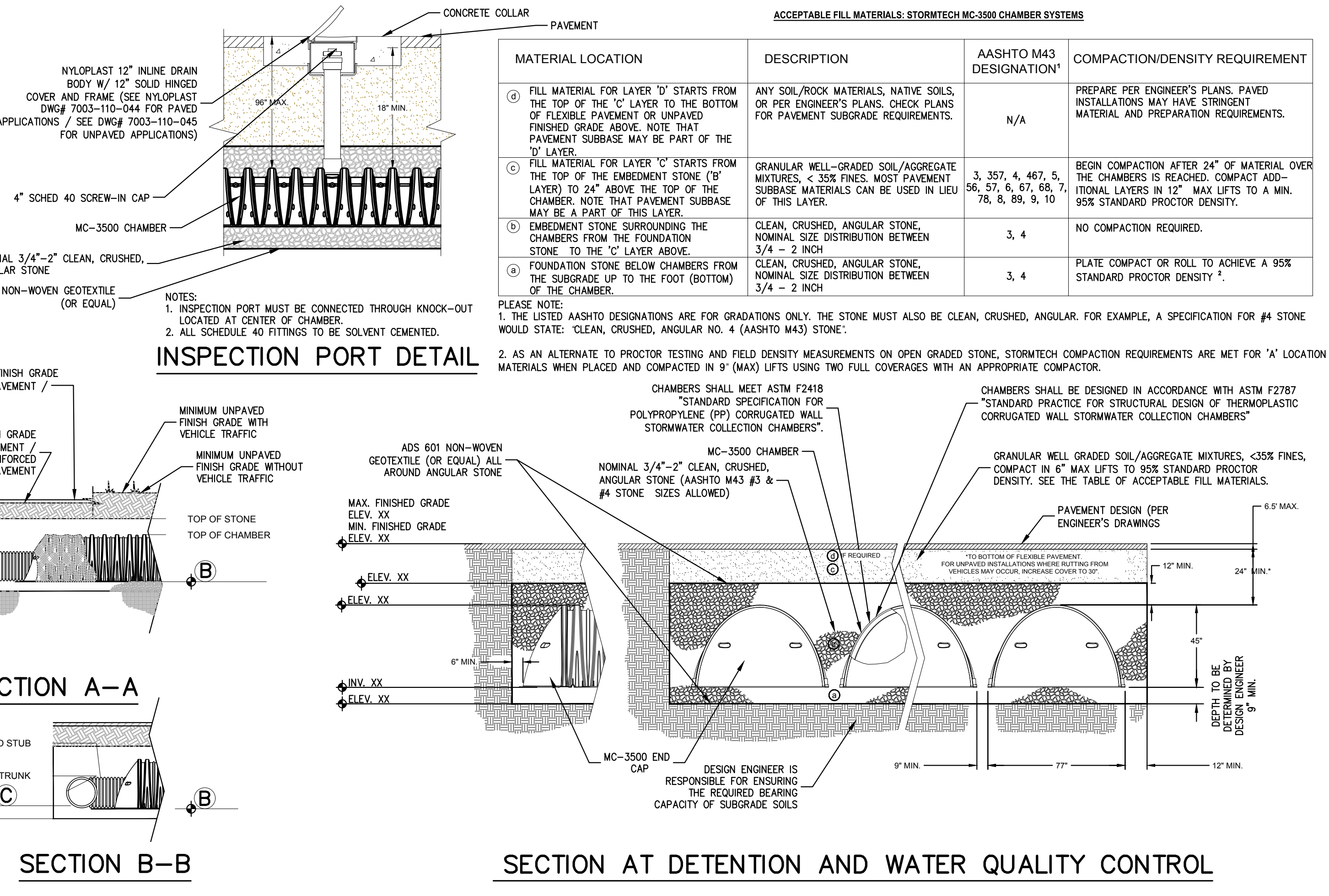
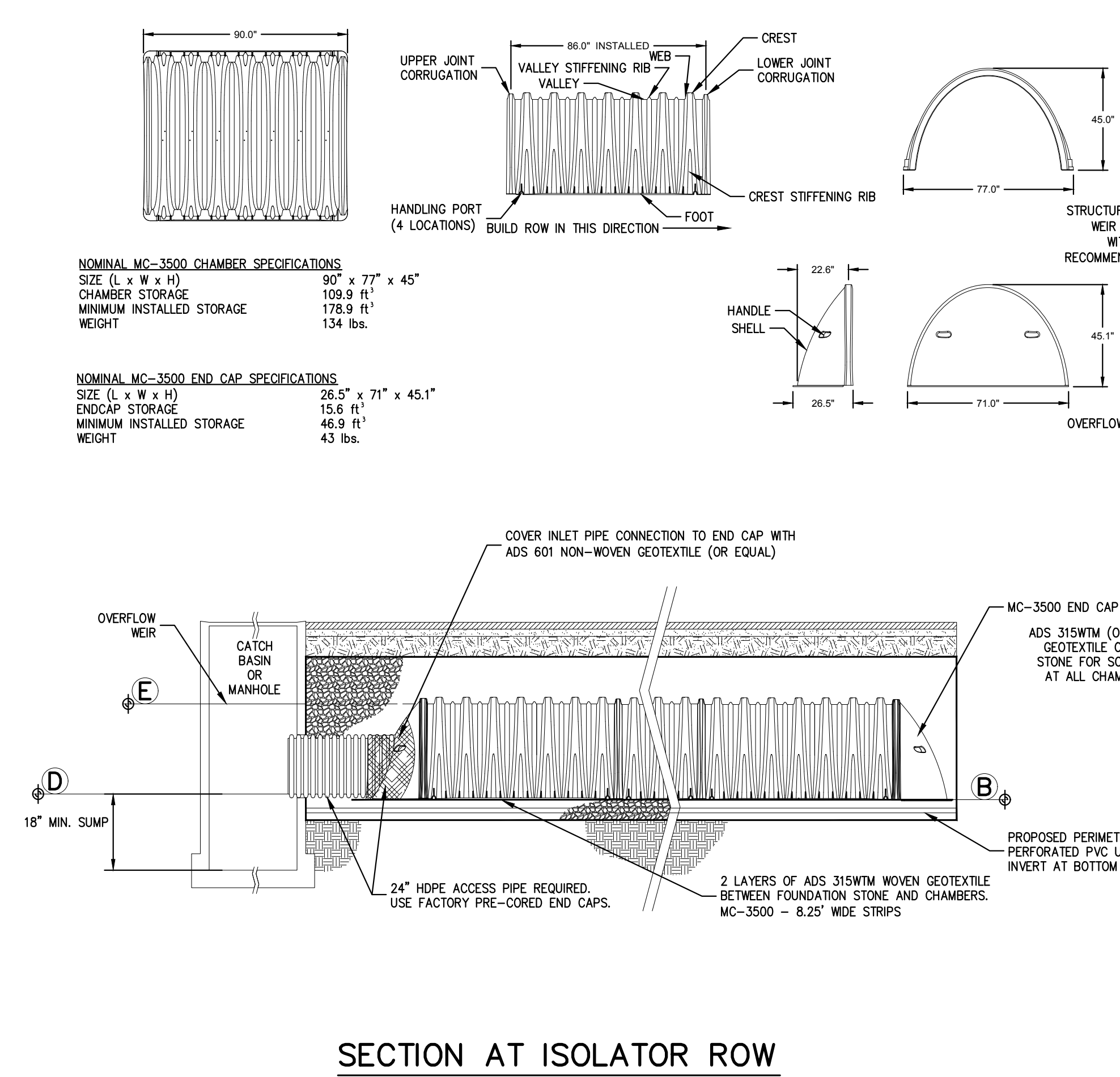
ARCHITECT:
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JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
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John Mayer Consulting, Inc.

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voice 914.273.6225 • fax 914.273.2102
www.jmcpilc.com

SCHEDULE OF INVERTS

DESIGNATION	(A)	(B)	(C)	(D)	(E)
63-UNITS	71.50	72.25	71.50	XX	XX
140-UNITS	62.85	63.60	63.60	XX	XX



SECTION AT ISOLATOR ROW

SECTION B-B

SECTION AT DETENTION AND WATER QUALITY CONTROL

STORMTECH CHAMBERS MC-3500

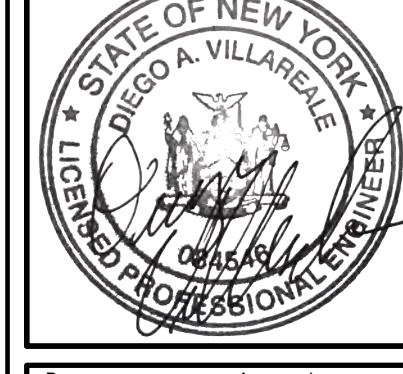
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JMC

CONSTRUCTION DETAILS

AMS BUCHANAN
ALBANY POST ROAD & CRAFT LANE
VILLAGE OF BUCHANAN, NEW YORK

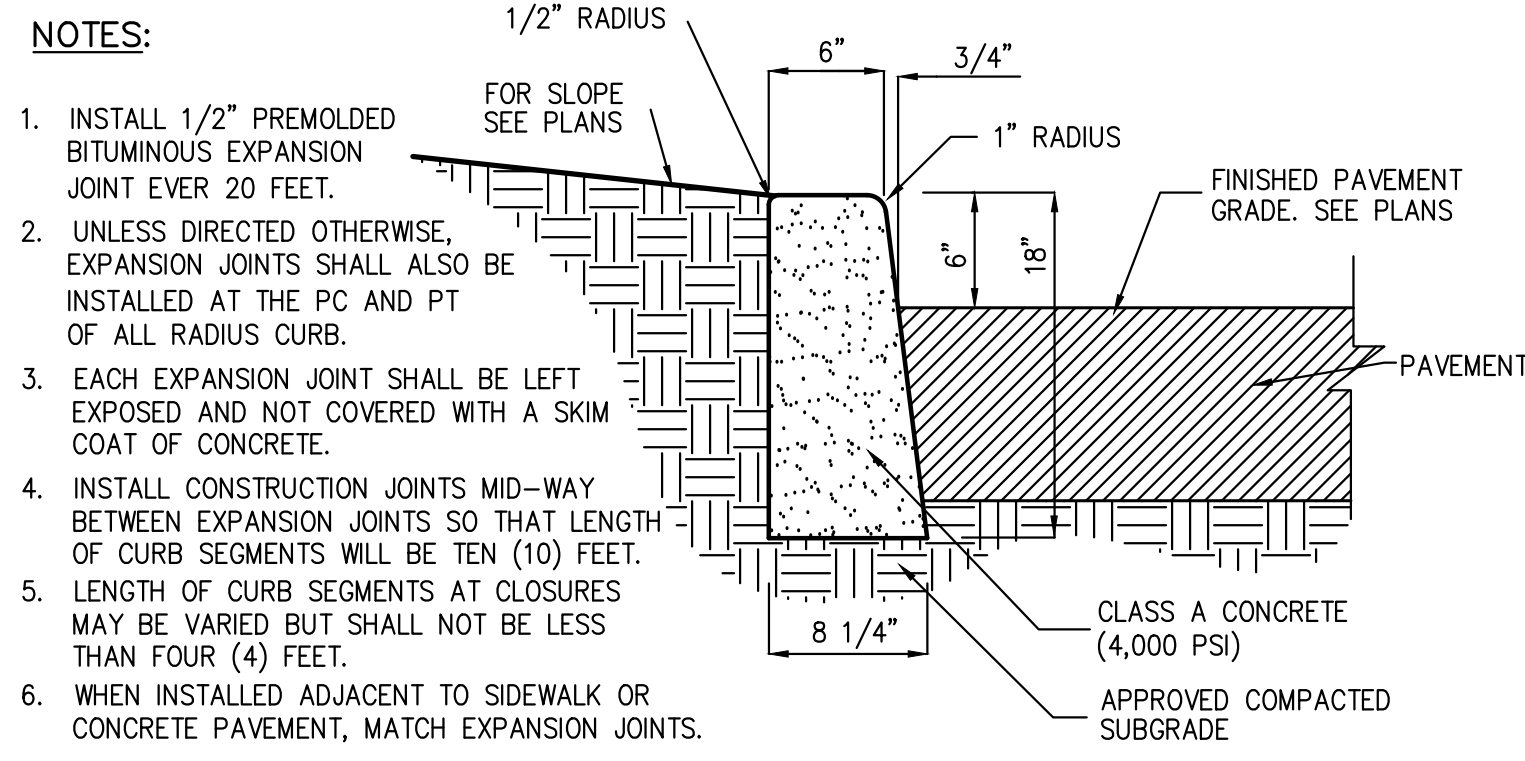
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Project No: 22062
Zone-Item: DET-5
Drawing No:

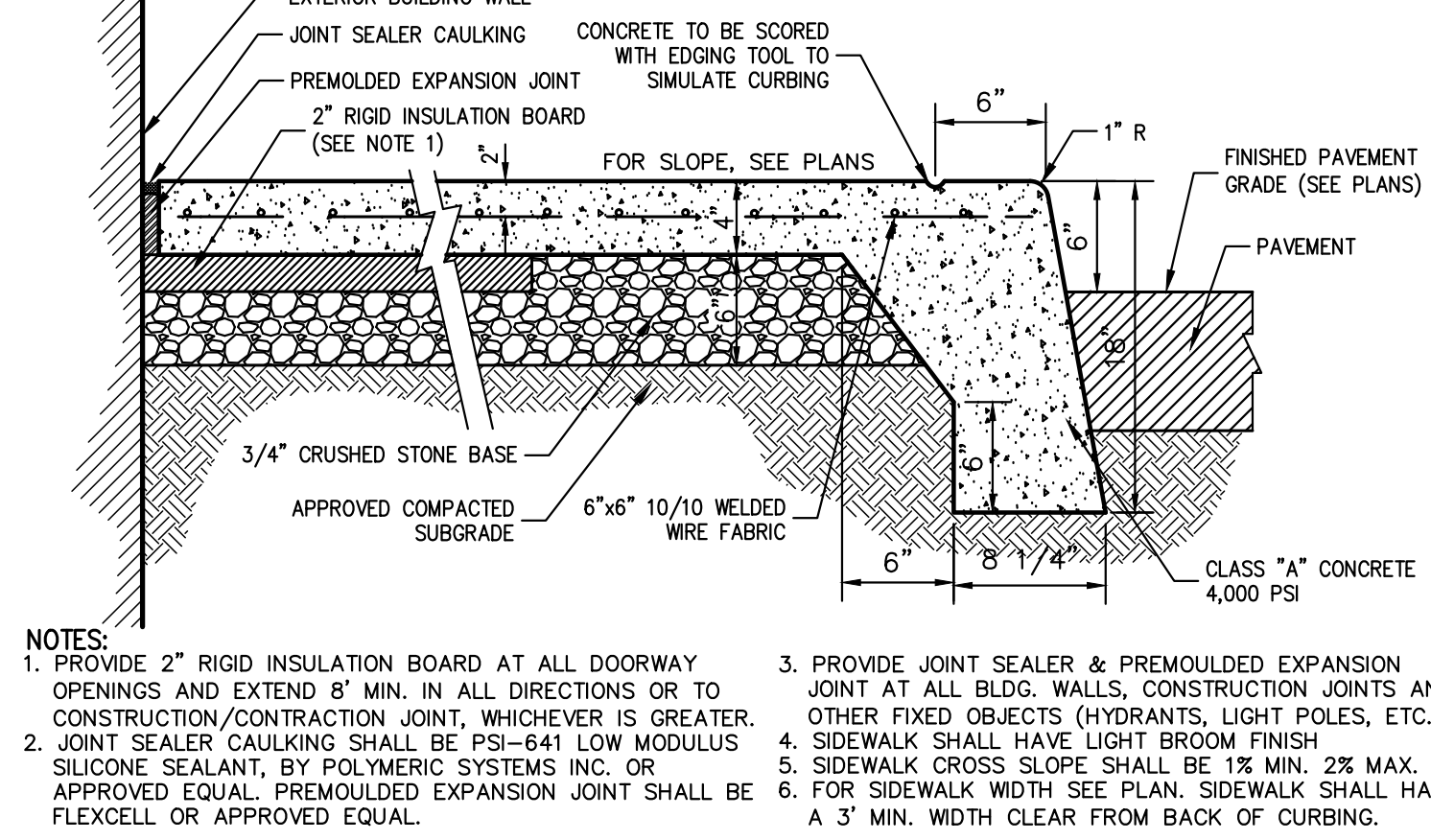
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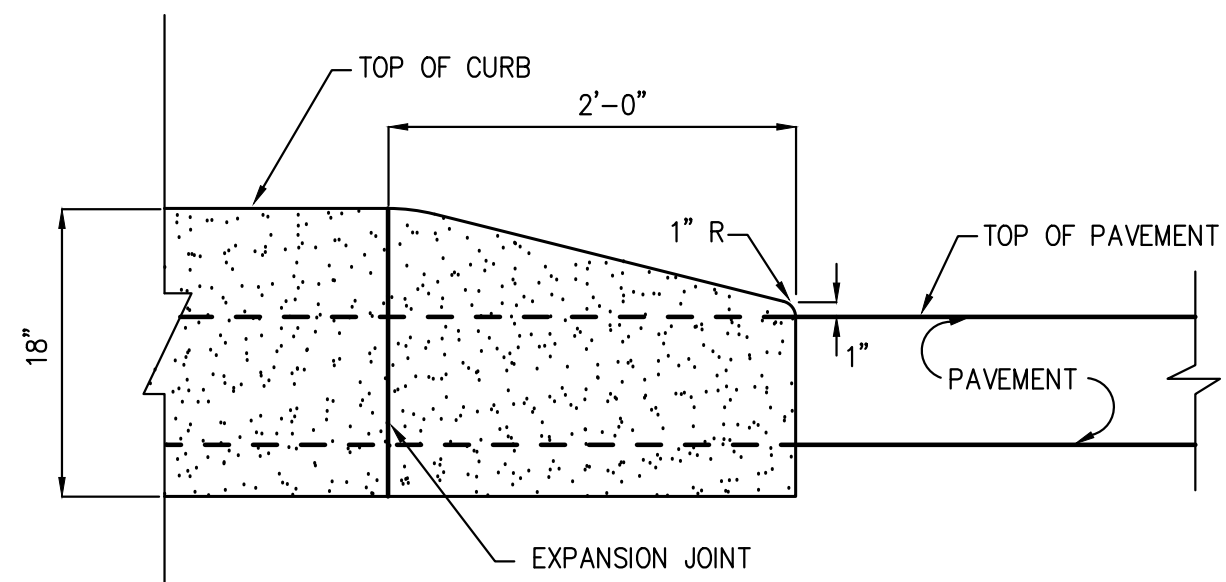
SITE CAST-IN-PLACE CONCRETE CURB

33



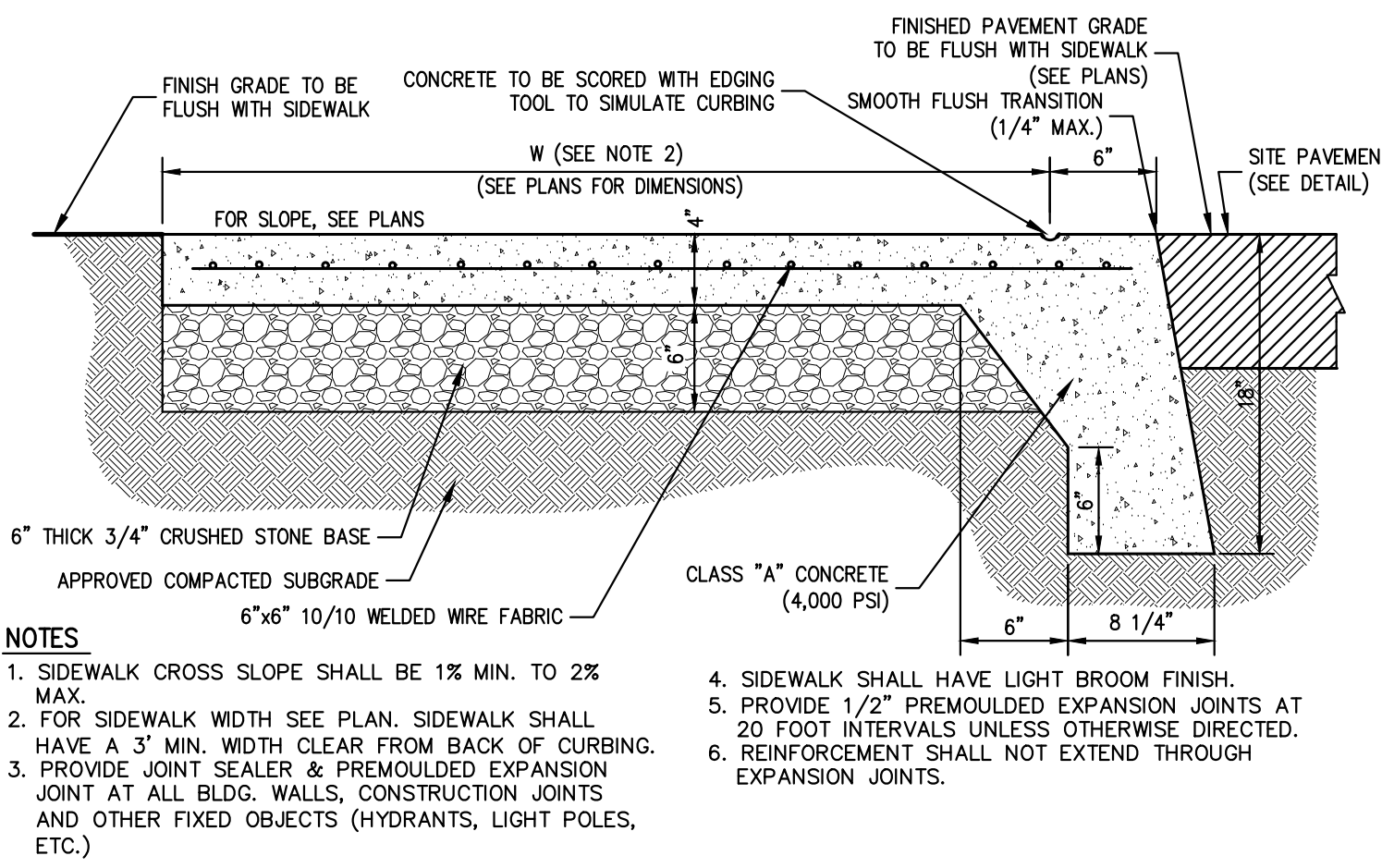
SITE BUILDING PERIMETER MONOLITHIC CURB & SIDEWALK

35



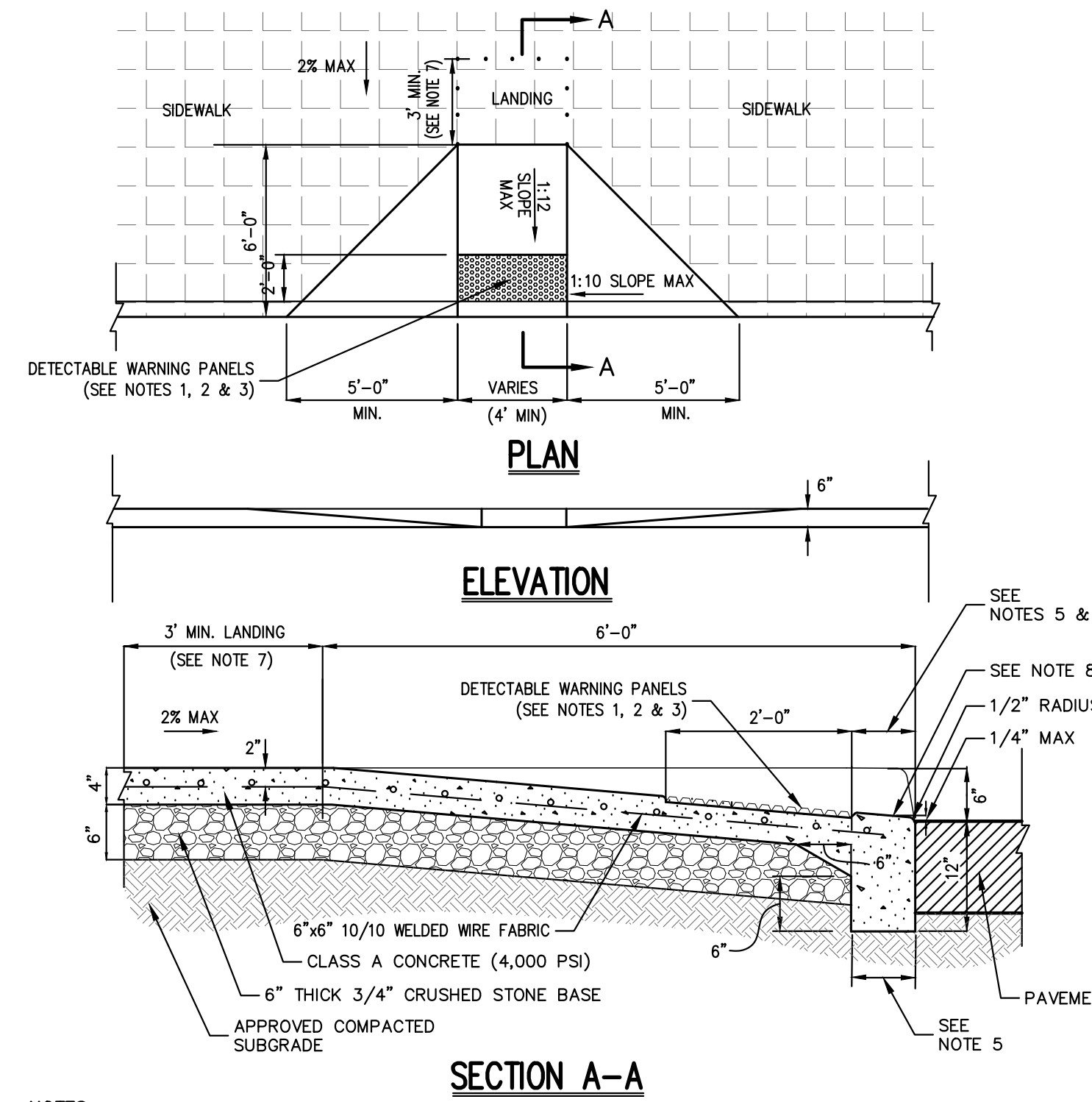
SITE CONCRETE CURB ENDING

34



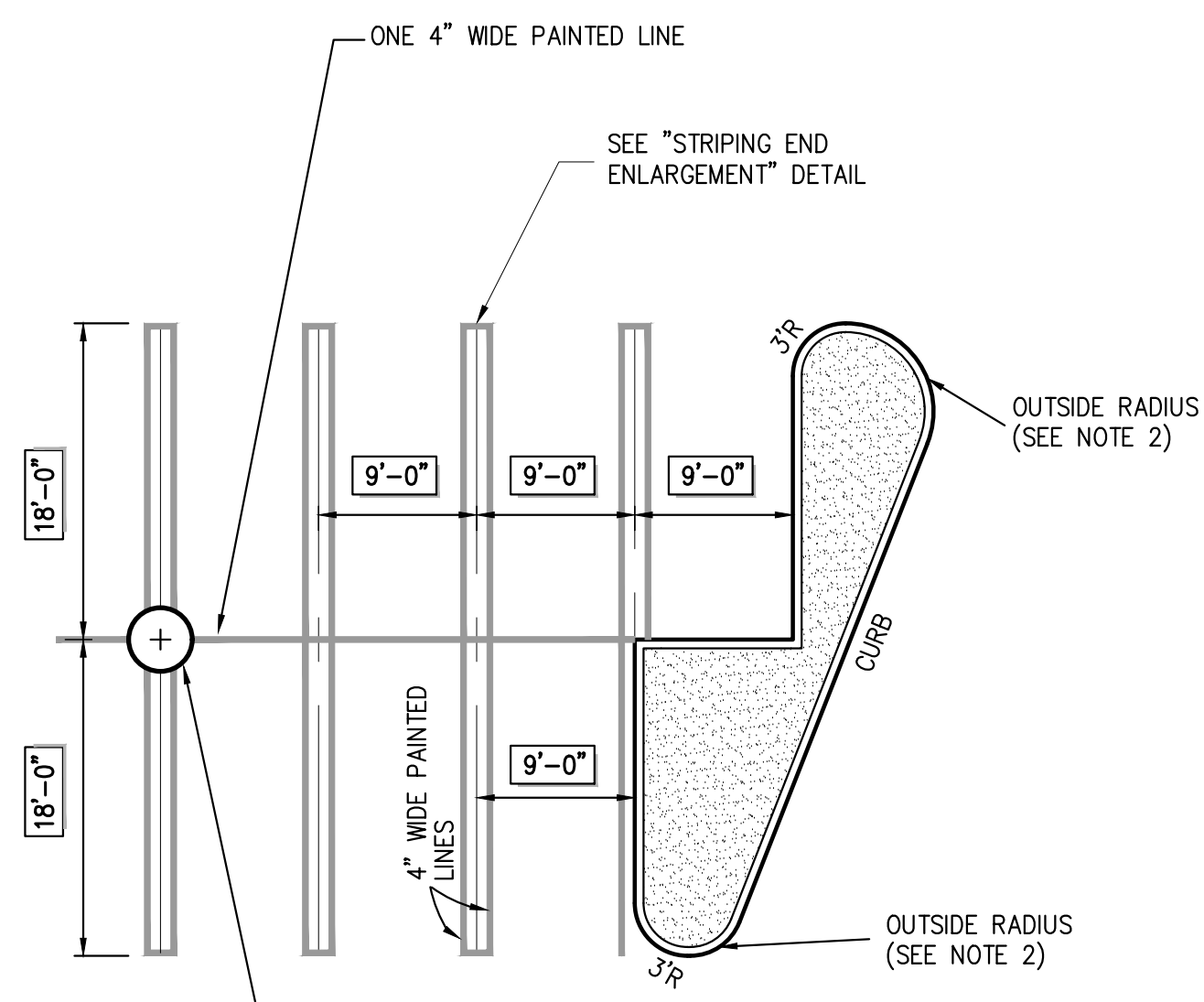
SITE MONOLITHIC CONCRETE FLUSH CURB AND SIDEWALK

36



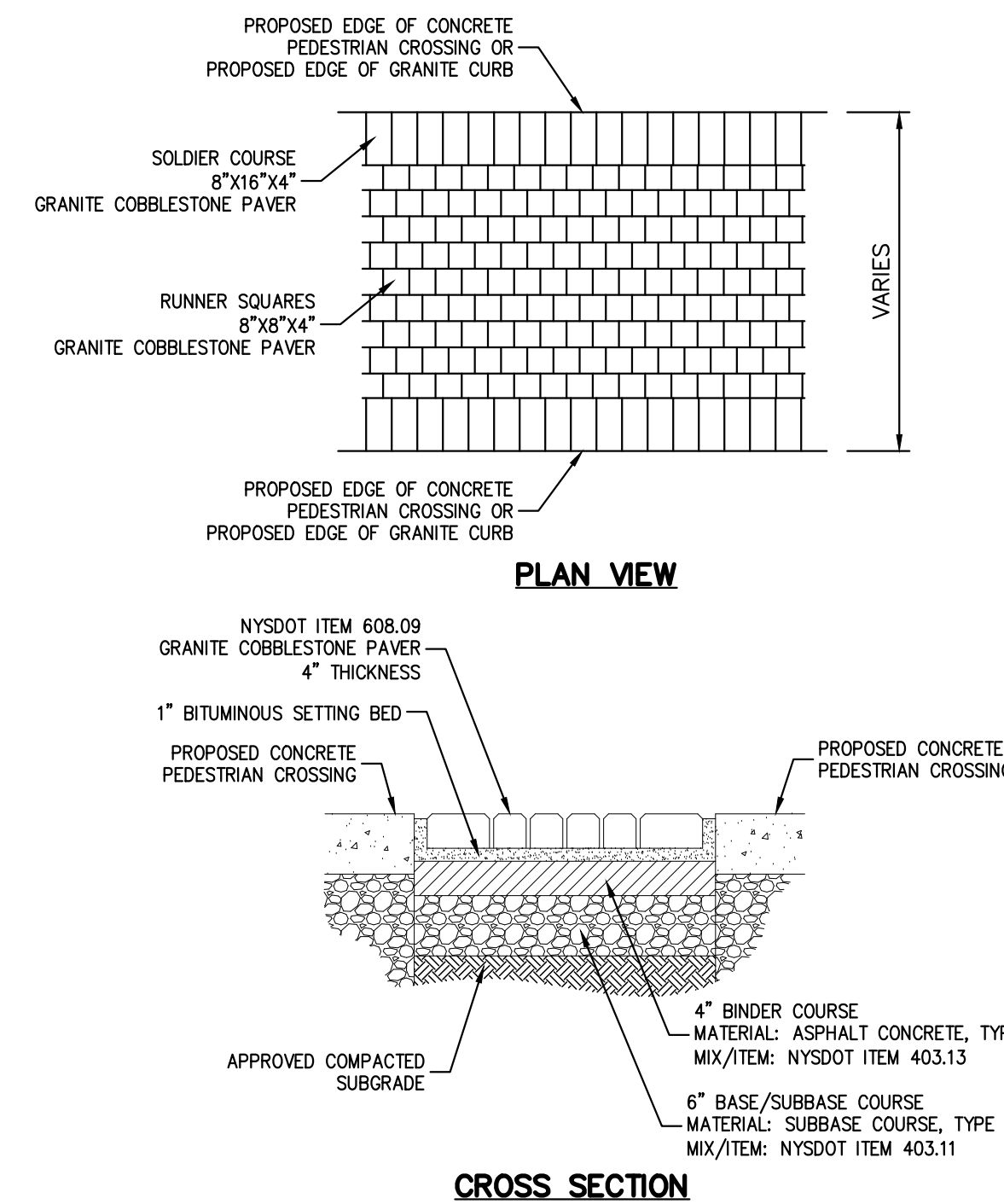
SITE DROP CURB & RAMP (TYPE A) WITH DETECTABLE WARNING

37



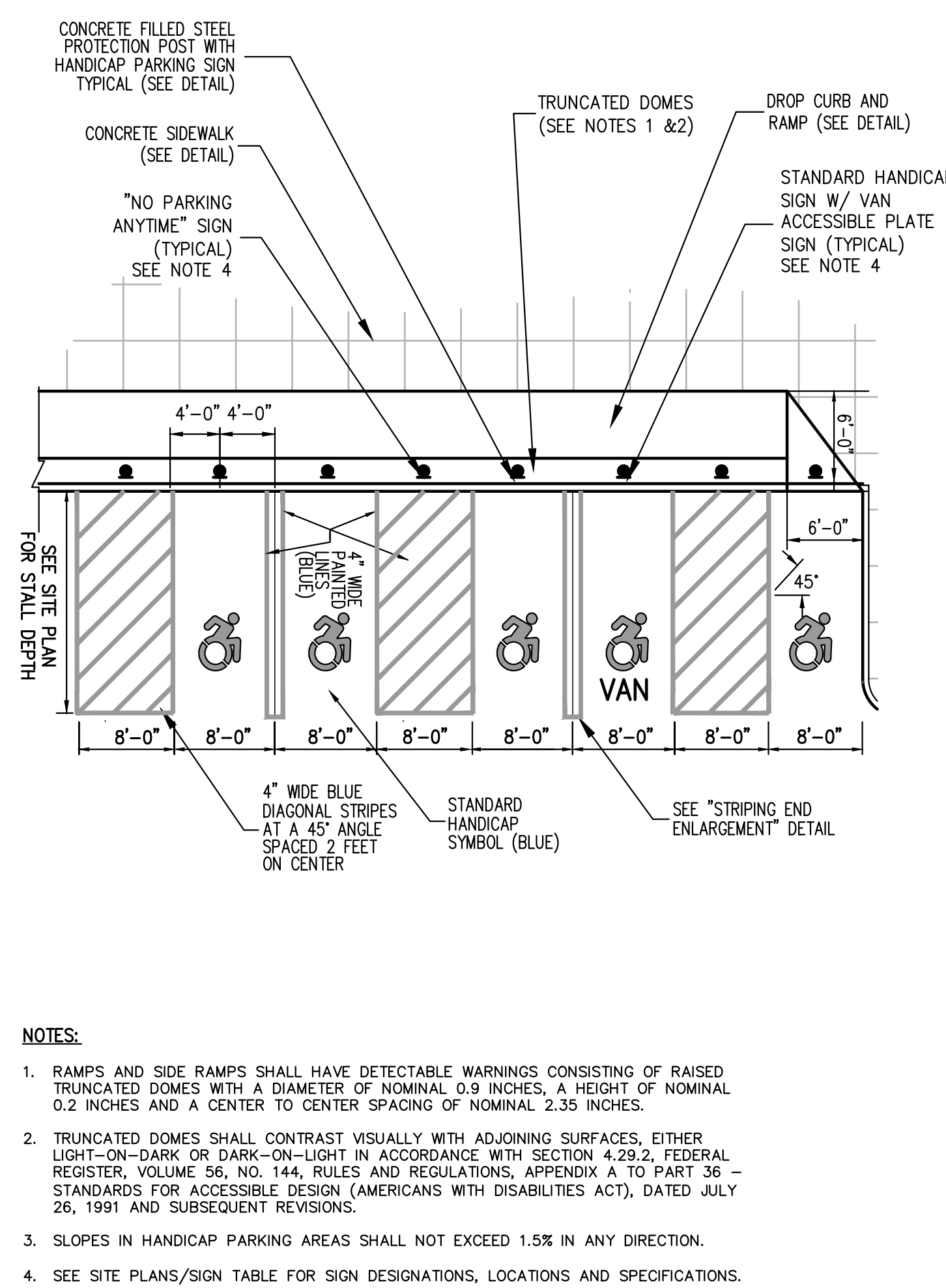
90° PARKING (DOUBLE STRIPING - CURBED END)

40



COBBLESTONE PAVER DETAIL

41

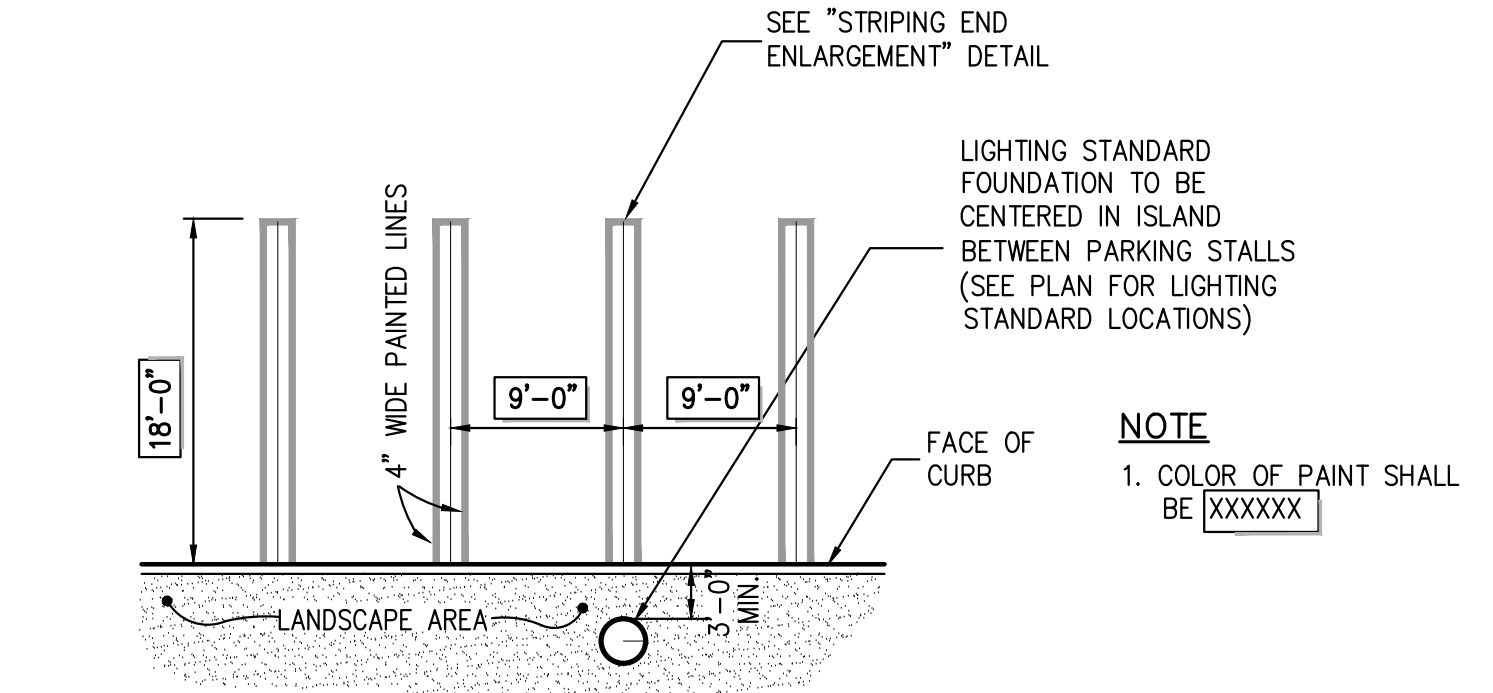


HANDICAP PARKING (DOUBLE STRIPING - CURBLINE ALIGNMENT - W/SIDEWALK) (NEW YORK)

42

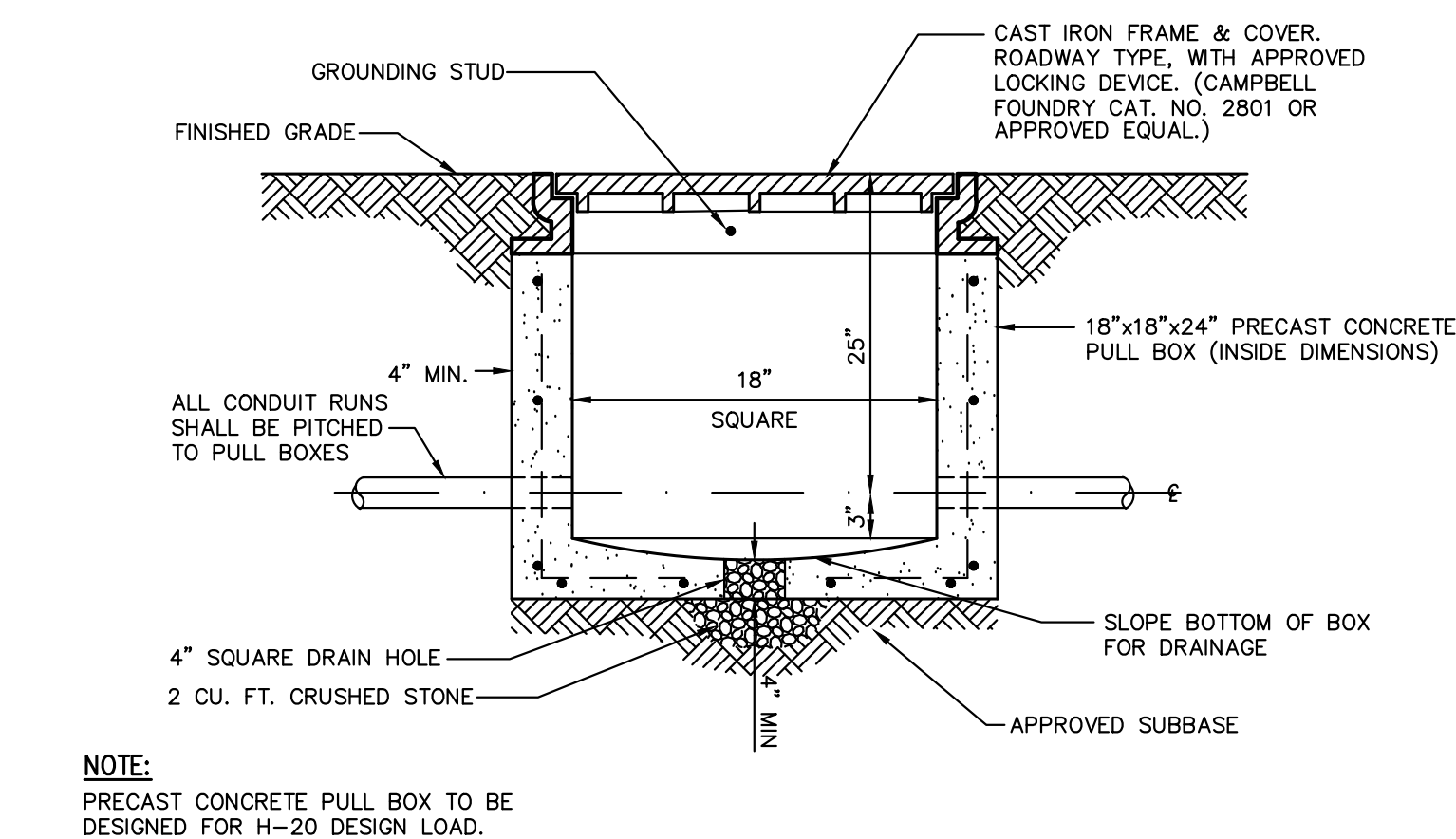
STRIPING END ENLARGEMENT

39



90° PARKING (DOUBLE STRIPING - CURBED PERIMETER)

43

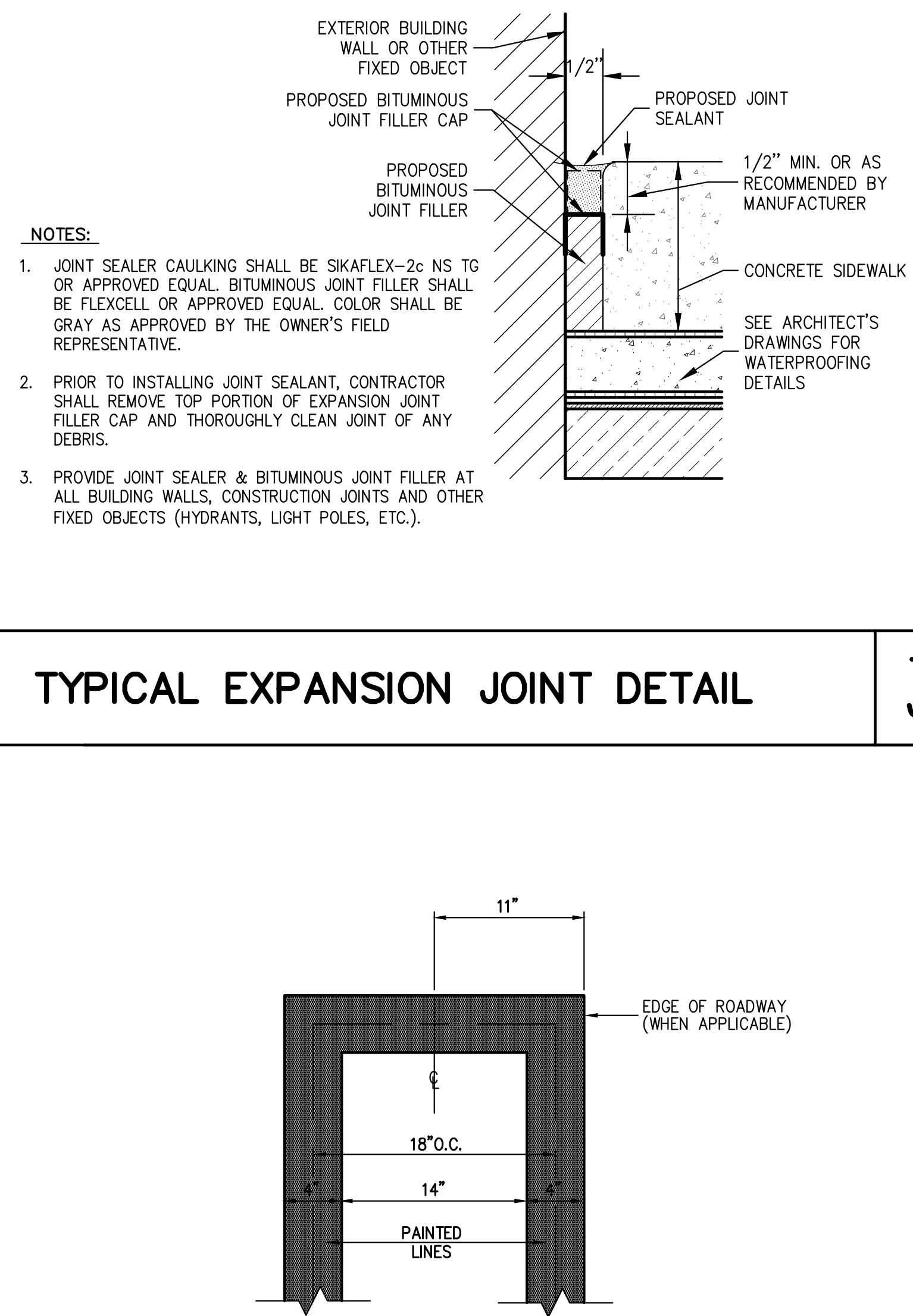


ELECTRICAL PULL BOX

44

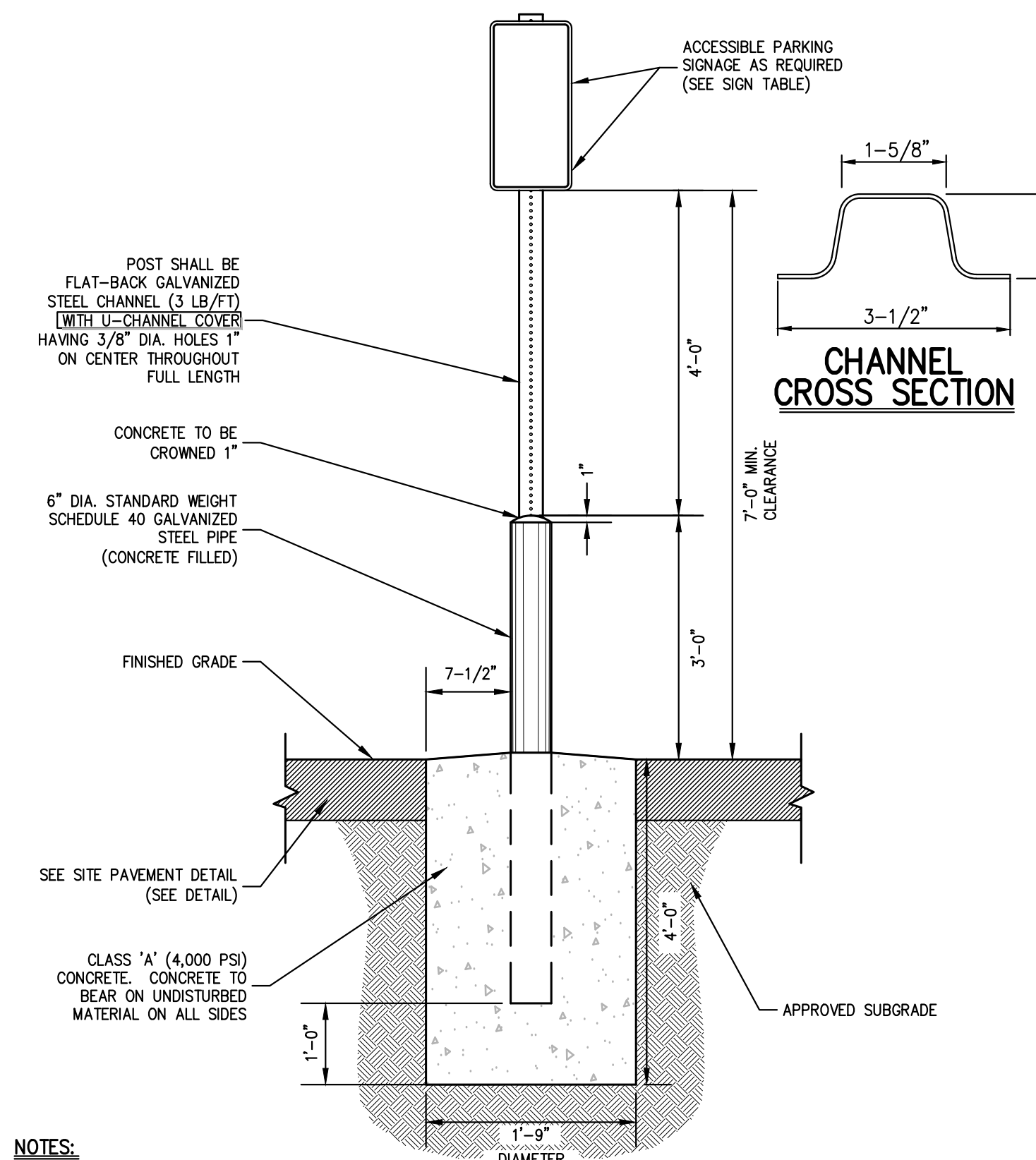
TYPICAL EXPANSION JOINT DETAIL

38



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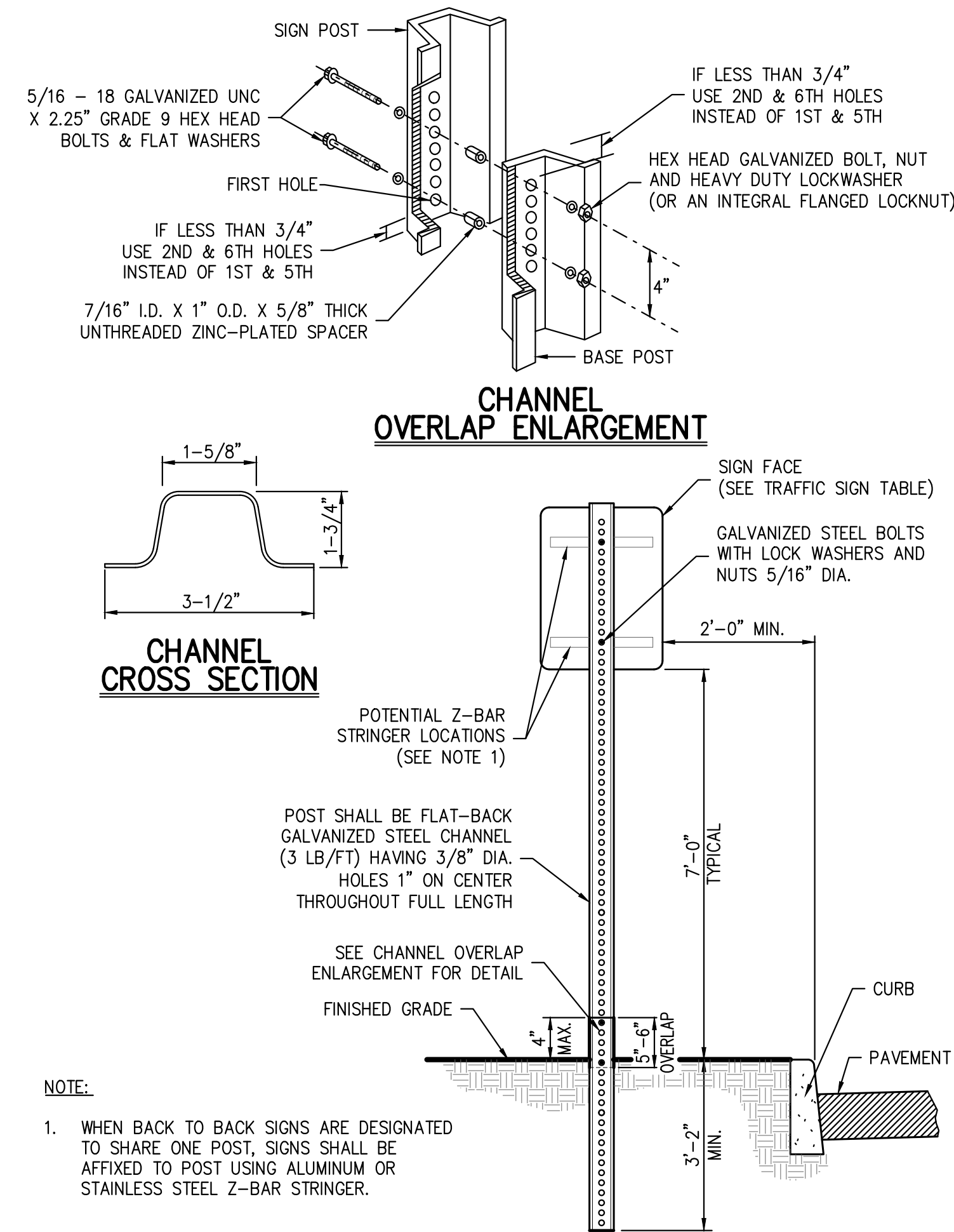
<p>BUCHANAN DEV AMS LLC ONE BRIDGE PLAZA NORTH, SUITE 640 FORT LEE, NJ 07024</p> <p>PERKINS EASTMAN 677 WASHINGTON BOULEVARD, SUITE 101 STAMFORD, CT 06901</p>	<p>JMC JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC JMC Site Development Consultants, LLC John Mayer Consulting, Inc. 120 BEDFORD ROAD • BRIDGEVILLE, NY 10504 voice 914.273.8225 • fax 914.273.2102 www.jmcpic.com</p>												
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<p>Client: EJK Approved: AN</p> <p>Scale: NOT TO SCALE</p> <p>Date: 10/17/2023</p> <p>Project No: 22062</p> <p>Zone/Sheet: DET-7</p> <p>Drawing No: C-906</p>	<p>Revision:</p> <table border="1"> <tr> <th>No.</th> <th>Description</th> <th>Date</th> </tr> <tr> <td>1.</td> <td>VILLAGE SUBMISSION</td> <td>12/06/2023</td> </tr> <tr> <td>2.</td> <td>VILLAGE SUBMISSION</td> <td>12/06/2023</td> </tr> <tr> <td>3.</td> <td>REVISED PER VILLAGE ENGINEER COMMENTS</td> <td>12/26/2023</td> </tr> </table>	No.	Description	Date	1.	VILLAGE SUBMISSION	12/06/2023	2.	VILLAGE SUBMISSION	12/06/2023	3.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023
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3.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023											



- NOTES:**
1. GALVANIZED STEEL CHANNEL SHALL BE EMBEDDED A MIN. OF 3 FT. INTO THE CONCRETE.
 2. POSTS FOR HANDICAP PARKING STALLS AND ACCESS AISLES SHALL BE PAINTED BLUE AS FOLLOWS:
 - A. SOLVENT CLEAN TO REMOVE OIL, GREASE AND OTHER CONTAMINANTS.
 - B. APPLY METAL PRIMER FOR GALVANIZED SURFACES.
 - C. APPLY TWO (2) FINISH COATS OF APPROVED EXTERIOR PAINT FOR METAL SURFACES.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE PARKING SIGNS, BOLLARDS AND FOUNDATIONS WITH THE DESIGN AND INSTALLATION OF THE SITE SIDEWALKS, CURBING, PAVEMENT AND ANY OTHER SITE FEATURES SHOWN ON THE PLANS.
 4. FASTEN SIGN TO POSTS WITH GALVANIZED STEEL BOLTS, LOCK WASHERS, AND NUTS (5/16" DIA.).
 5. U-CHANNEL COVERS FOR POSTS SHALL BE BLUE WITH WHITE STRIPE FOR HANDICAP PARKING STALLS AND HANDICAP ACCESS AISLES.

**PARKING SIGN
IN STEEL PIPE PROTECTION POST**

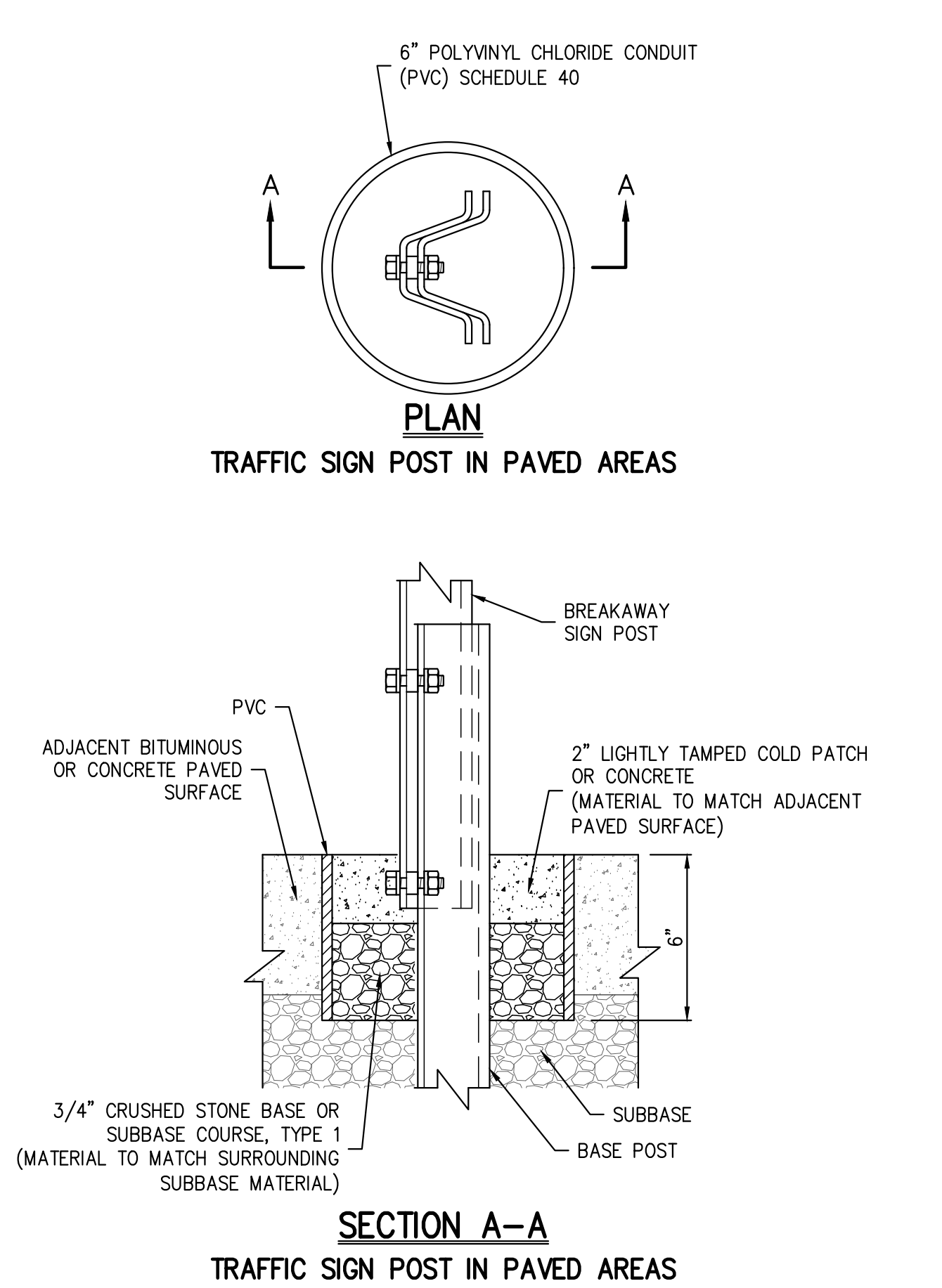
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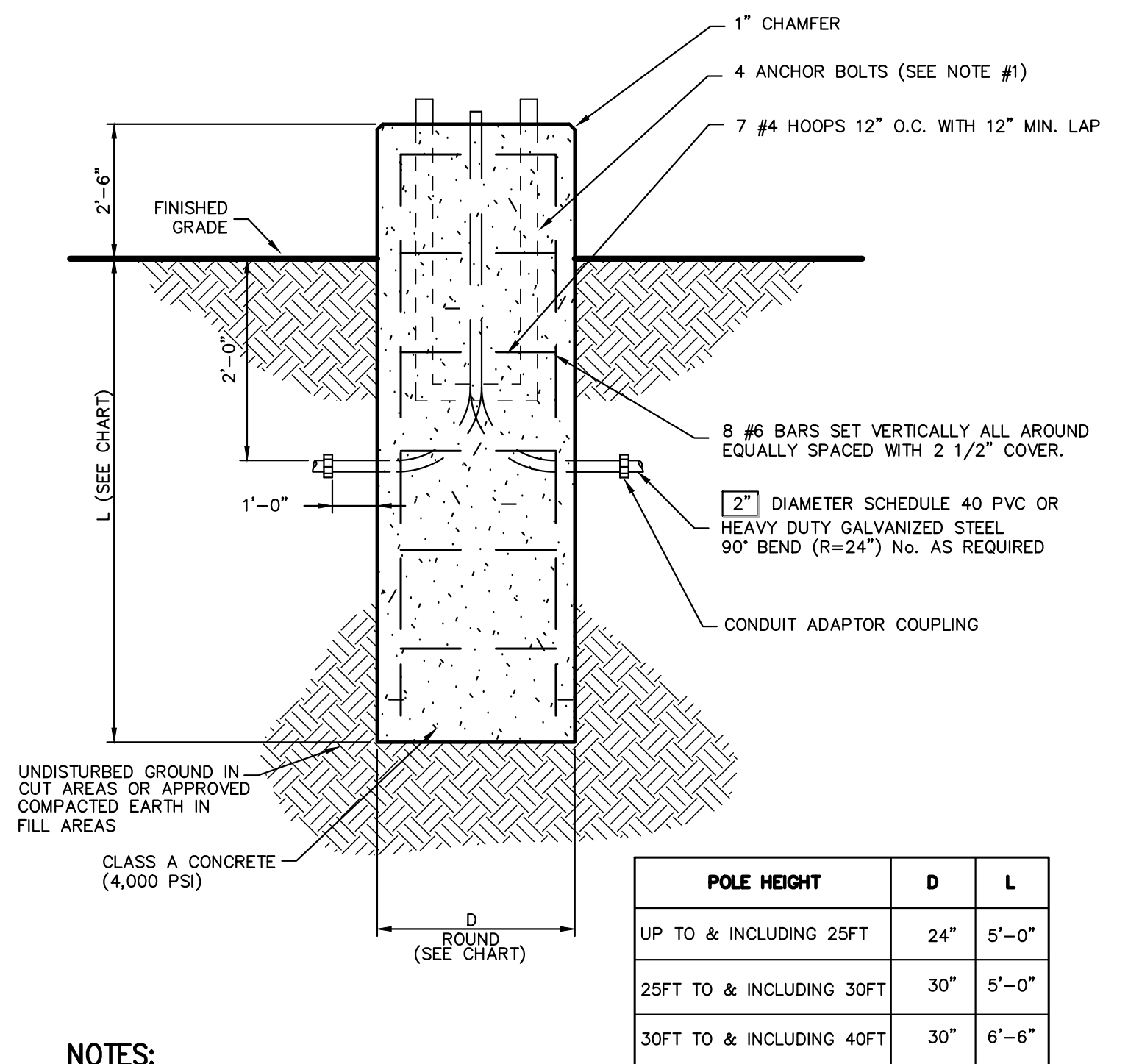
- NOTE:**
1. WHEN BACK TO BACK SIGNS ARE DESIGNATED TO SHARE ONE POST, SIGNS SHALL BE AFFIXED TO POST USING ALUMINUM OR STAINLESS STEEL Z-BAR STRINGER.

**SITE TRAFFIC SIGN POST
(BREAKAWAY STEEL CHANNEL)**

46



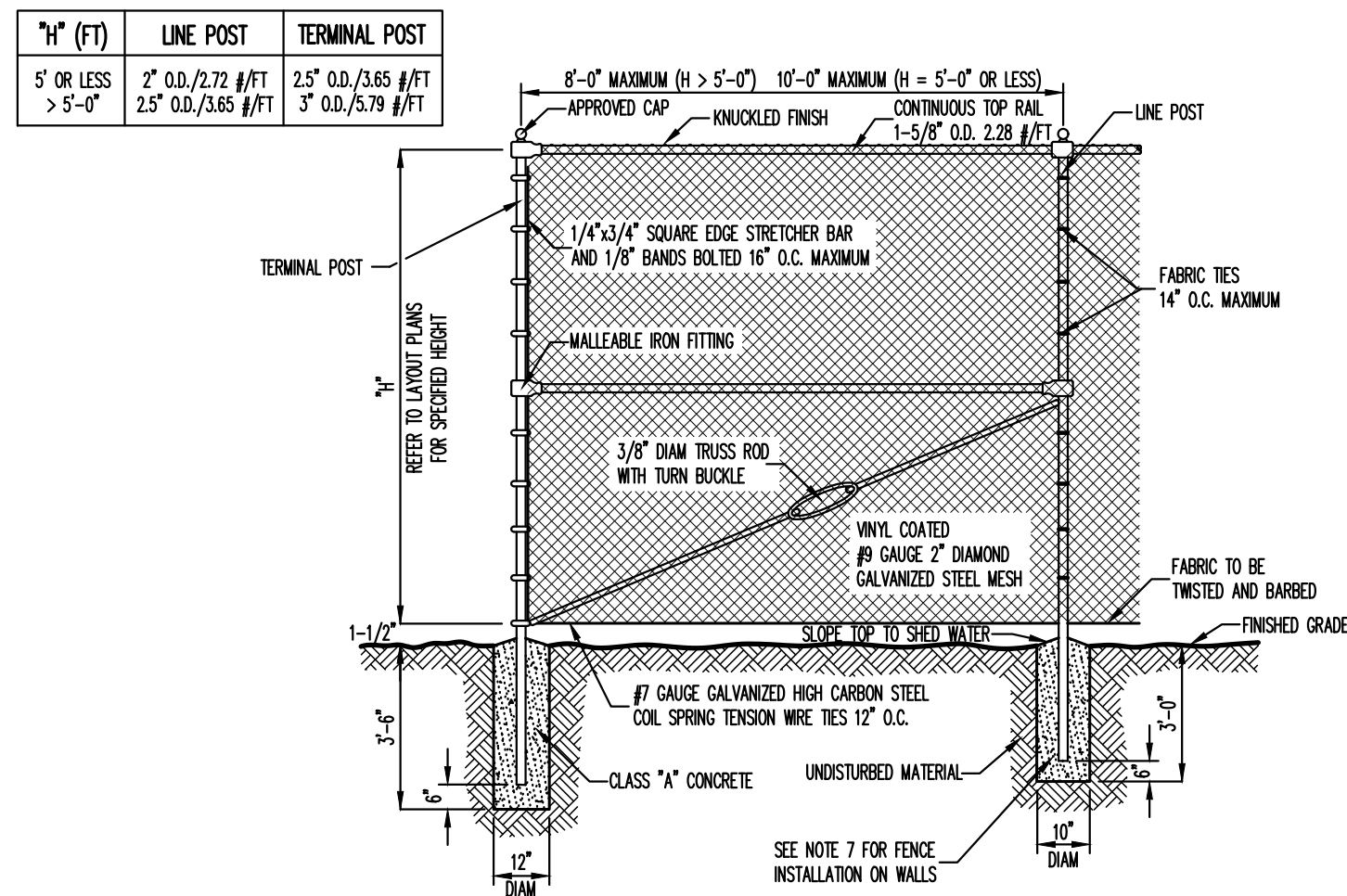
TRAFFIC SIGN POST IN PAVED AREAS



- NOTES:**
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
 2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
 3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BENDS.
 4. POLES AND LUMINAIRES WILL BE FURNISHED AND INSTALLED BY OTHERS.

**LIGHTING STANDARD FOUNDATION
(ROUND)**

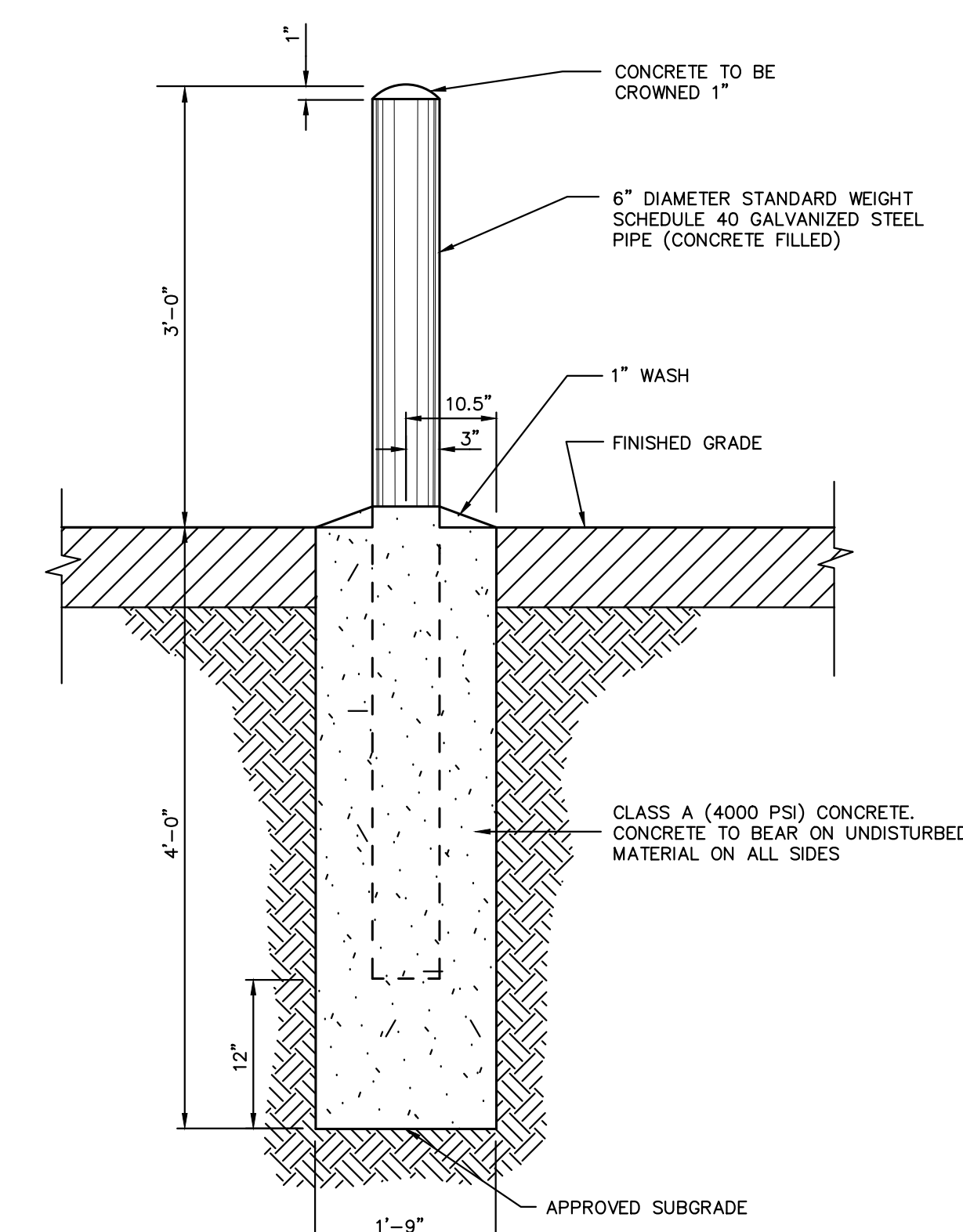
47



- NOTES:**
1. ALL POSTS, RAILS, FABRIC AND ACCESSORIES SHALL BE VINYL COATED. COLOR OF VINYL COATING SHALL BE BLACK.
 2. POST AND RAILS SHALL BE STANDARD FULL WEIGHT VINYL COATED GALVANIZED SCHEDULE 40 PIPE MANUFACTURED AND GALVANIZED IN ACCORDANCE WITH ASTM A-120. ALL MATERIALS SHALL BE NEW AND FIRST CLASS AND SHALL NOT INCLUDE RECONDITIONED OR REROLLED PIPE.
 3. FITTINGS SHALL BE VINYL COATED WALLEABLE IRON FITTINGS CONFORMING TO THE REQUIREMENTS OF ASTM A-47 GALVANIZED IN ACCORDANCE WITH ASTM A-153.
 4. FABRIC SHALL BE 9 GAUGE GALVANIZED 2" MESH, WHICH SHALL BE VINYL CLAD IN CONFORMANCE WITH THE REQUIREMENTS OF AASHTO M-181, TYPE B. VINYL COATING SHALL BE FINELY AND CONTINUOUSLY EXTRUDED BONDED TO THE GALVANIZED STEEL WIRE. TOP SELVAGE SHALL HAVE KNUCKLED FINISH.
 5. TENSION WIRE SHALL BE VINYL COATED 7 GAUGE MEETING THE REQUIREMENTS OF ASTM A-641 AS MODIFIED HEREIN. THE TENSILE STRENGTH SHALL BE AT LEAST 80,000 PSI WITH A GALVANIZED COATING OF NOT LESS THAN 0.7 OZ. PER SQUARE FOOT.
 6. FABRIC TIES SHALL BE MINIMUM 9 GAUGE VINYL COATED GALVANIZED STEEL OR ALUMINUM. MINIMUM SPACING SHALL BE AS FOLLOWS:
 - A. 14" O.C. AT LINE POSTS
 - B. 24" O.C. AT TOP RAIL
 - C. 12" O.C. AT TENSION WIRE
 7. WHERE CHAIN LINK FENCE IS TO BE INSTALLED ON WALLS, THE FENCE POSTS SHALL BE EMBEDDED A MINIMUM OF TWELVE (12) INCHES IN THE WALL. NEWLY CONSTRUCTED WALLS SHALL BE PROVIDED WITH PROPER SIZE SLEEVES TO ACCOMMODATE FENCE POSTS. FENCE POSTS SHALL BE SECURELY GROUDED IN PLACE USING AN APPROVED HIGH STRENGTH, NON-SHRINKING, NON-STANDING GROUT.
 8. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT SHOP AND ERECTION DRAWINGS INDICATING MATERIALS, SIZES AND DIMENSIONS OF FENCING TO THE OWNER'S FIELD REPRESENTATIVE PRIOR TO ORDERING MATERIALS FOR HIS REVIEW AND APPROVAL.
 9. PRIOR TO INSTALLATION OF THE FENCE, THE CONTRACTOR SHALL CHECK THE FENCE LAYOUT WITH THE OWNER'S FIELD REPRESENTATIVE WHO MUST APPROVE THE LAYOUT BEFORE ANY OF THE WORK IS TO BE DONE.

**CHAIN LINK FENCE
(VINYL COATED)**

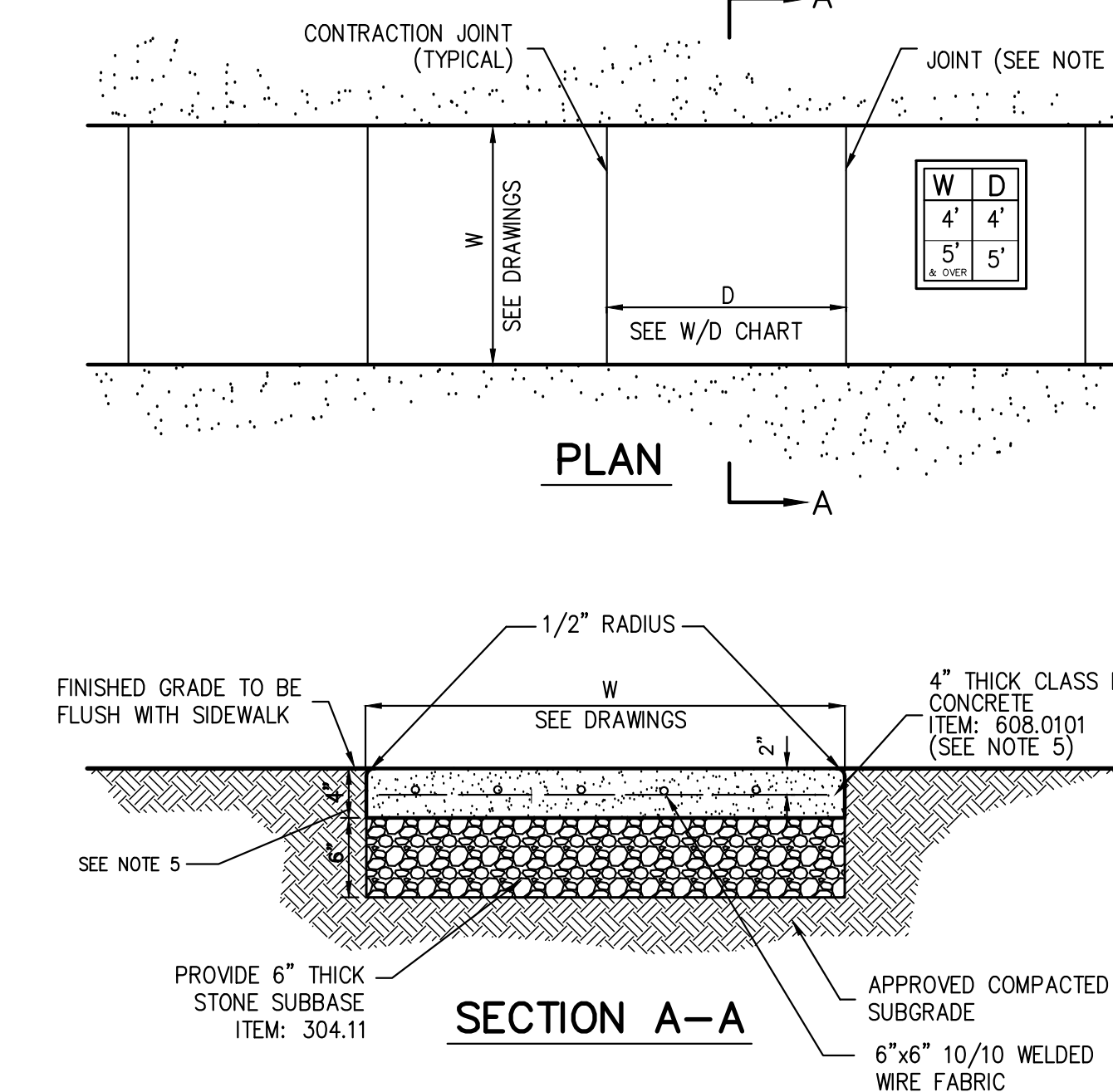
48



- NOTES:**
1. WHEN PROTECTION POSTS ARE TO BE USED FOR PROTECTION OF HANDICAP PARKING SIGNS OR OTHER TRAFFIC SIGNS, SIGN SUPPORTING POSTS SHALL BE EMBEDDED A MINIMUM OF THREE (3) FEET INTO THE CONCRETE.
 2. POST FOR HANDICAP PARKING STALLS SHALL BE PAINTED BLUE AS FOLLOWS:
 - A. SOLVENT CLEAN TO REMOVE OIL, GREASE AND OTHER CONTAMINANTS.
 - B. APPLY METAL PRIMER FOR GALVANIZED SURFACES.
 - C. APPLY TWO (2) FINISH COATS OF APPROVED EXTERIOR PAINT FOR METAL SURFACES.

STEEL PIPE PROTECTION POST

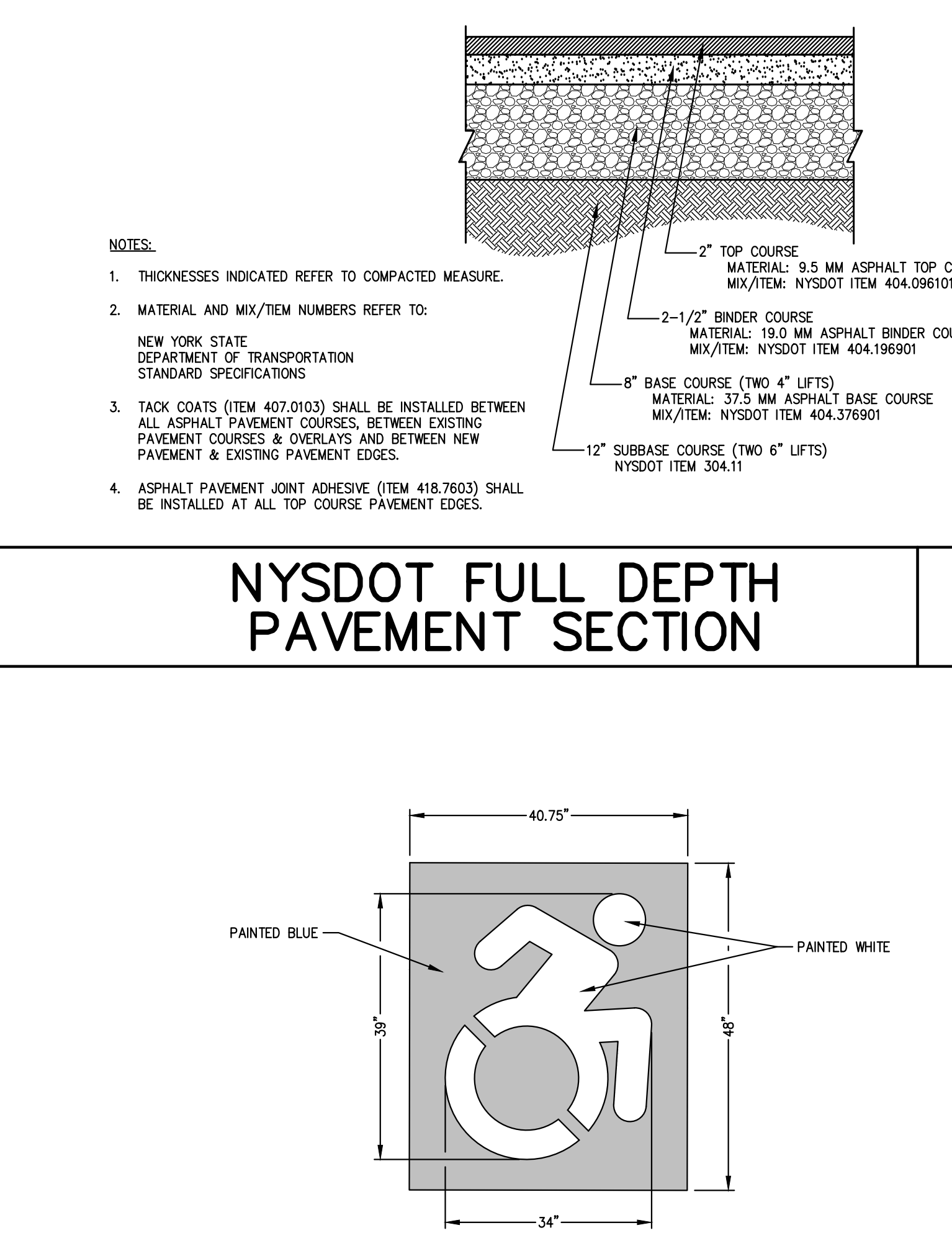
49



- NOTES:**
1. SIDEWALK CROSS SLOPE SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE.
 2. PROVIDE 1/2" PREMOLDED EXPANSION JOINTS AT 20' INTERVALS UNLESS OTHERWISE DIRECTED.
 3. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
 4. SIDEWALK SHALL HAVE LIGHT BROOM FINISH.
 5. ANY PORTLAND CEMENT CONCRETE SIDEWALK WHICH CROSSES A DRIVEWAY SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND INCLUDE STEEL MESH REINFORCEMENT WITH 3 INCHES OF TOP COVER.

NYSDOT CONCRETE SIDEWALK

50



- NOTES:**
1. SYMBOL SHALL BE THERMOPLASTIC TYPE OR PAINTED WITH STENCIL.

PAINTED ACCESSIBLE SYMBOL

52

Date	10/20/2023	EJK
Revision	12/06/2023	EJK
	12/26/2023	EJK
No.	1. VILLAGE SUBMISSION	
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Date	10/17/2023		
Project No.	22062		
Zone/Sheet	DET-8		
Drawing No.	C-907		

NOT FOR CONSTRUCTION

A	B	C	H	AREA (SQ. FT.)	SEE NOTE
12"	12"	8"	12"	1.0	1
18"	12"	12"	12"	2.3	1
12"	18"	8"	12"	0.5	1
18"	18"	8"	12"	0.7	1
12"	12"	12"	12"	1.0	1
18"	12"	12"	12"	2.3	1
12"	18"	12"	12"	2.3	1
18"	18"	12"	12"	5.2	1
12"	12"	18"	12"	1.5	1
18"	12"	18"	12"	3.4	1
12"	18"	18"	12"	3.4	1
18"	18"	18"	12"	7.6	1
12"	12"	24"	12"	3.0	2
18"	12"	24"	12"	6.9	2
12"	18"	24"	12"	6.9	2
18"	18"	24"	12"	15.5	2
12"	12"	36"	12"	6.0	2
18"	12"	36"	12"	13.6	2
12"	18"	36"	12"	13.6	2
18"	18"	36"	12"	30.2	2
12"	12"	48"	12"	12.0	2
18"	12"	48"	12"	26.7	2
12"	18"	48"	12"	26.7	2
18"	18"	48"	12"	59.7	2
12"	12"	60"	12"	15.0	2
18"	12"	60"	12"	33.0	2
12"	18"	60"	12"	33.0	2
18"	18"	60"	12"	73.8	2

A	B	C	D	H	POST SPACING	AREA (SQ. FT.)	SEE NOTE
30"	18"	12"	12"	12"	15"	3.0	1
30"	24"	12"	12"	12"	15"	4.0	1
30"	30"	12"	12"	12"	15"	5.0	1
30"	36"	12"	12"	12"	15"	6.0	1
30"	42"	12"	12"	12"	15"	7.0	1
30"	48"	12"	12"	12"	15"	8.0	1
30"	54"	12"	12"	12"	15"	9.0	1
30"	60"	12"	12"	12"	15"	10.0	1
30"	66"	12"	12"	12"	15"	11.0	1
30"	72"	12"	12"	12"	15"	12.0	1
30"	78"	12"	12"	12"	15"	13.0	1
30"	84"	12"	12"	12"	15"	14.0	1
30"	90"	12"	12"	12"	15"	15.0	1
30"	96"	12"	12"	12"	15"	16.0	1
30"	102"	12"	12"	12"	15"	17.0	1
30"	108"	12"	12"	12"	15"	18.0	1
30"	114"	12"	12"	12"	15"	19.0	1
30"	120"	12"	12"	12"	15"	20.0	1
30"	126"	12"	12"	12"	15"	21.0	1
30"	132"	12"	12"	12"	15"	22.0	1
30"	138"	12"	12"	12"	15"	23.0	1
30"	144"	12"	12"	12"	15"	24.0	1
30"	150"	12"	12"	12"	15"	25.0	1
30"	156"	12"	12"	12"	15"	26.0	1
30"	162"	12"	12"	12"	15"	27.0	1
30"	168"	12"	12"	12"	15"	28.0	1
30"	174"	12"	12"	12"	15"	29.0	1
30"	180"	12"	12"	12"	15"	30.0	1
30"	186"	12"	12"	12"	15"	31.0	1
30"	192"	12"	12"	12"	15"	32.0	1
30"	198"	12"	12"	12"	15"	33.0	1
30"	204"	12"	12"	12"	15"	34.0	1
30"	210"	12"	12"	12"	15"	35.0	1
30"	216"	12"	12"	12"	15"	36.0	1
30"	222"	12"	12"	12"	15"	37.0	1
30"	228"	12"	12"	12"	15"	38.0	1
30"	234"	12"	12"	12"	15"	39.0	1
30"	240"	12"	12"	12"	15"	40.0	1
30"	246"	12"	12"	12"	15"	41.0	1
30"	252"	12"	12"	12"	15"	42.0	1
30"	258"	12"	12"	12"	15"	43.0	1
30"	264"	12"	12"	12"	15"	44.0	1
30"	270"	12"	12"	12"	15"	45.0	1
30"	276"	12"	12"	12"	15"	46.0	1
30"	282"	12"	12"	12"	15"	47.0	1
30"	288"	12"	12"	12"	15"	48.0	1
30"	294"	12"	12"	12"	15"	49.0	1
30"	300"	12"	12"	12"	15"	50.0	1
30"	306"	12"	12"	12"	15"	51.0	1
30"	312"	12"	12"	12"	15"	52.0	1
30"	318"	12"	12"	12"	15"	53.0	1
30"	324"	12"	12"	12"	15"	54.0	1
30"	330"	12"	12"	12"	15"	55.0	1
30"	336"	12"	12"	12"	15"	56.0	1
30"	342"	12"	12"	12"	15"	57.0	1
30"	348"	12"	12"	12"	15"	58.0	1
30"	354"	12"	12"	12"	15"	59.0	1
30"	360"	12"	12"	12"	15"	60.0	1

A	B	C	D	E	F	POST SPACING	AREA (SQ. FT.)	PAYMENT AREA (SQ. FT.)
24"	24"	18"	12"	12"	12"	15"	3.0	4.0
30"	24"	18"	12"	12"	12"	15"	4.0	5.0
30"	30"	18"	12"	12"	12"	15"	5.0	6.0
30"	36"	18"	12"	12"	12"	15"	6.0	7.0
30"	42"	18"	12"	12"	12"	15"	7.0	8.0
30"	48"	18"	12"	12"	12"	15"	8.0	9.0
30"	54"	18"	12"	12"	12"	15"	9.0	10.0
30"	60"	18"	12"	12"	12"	15"	10.0	11.0
30"	66"	18"	12"	12"	12"	15"	11.0	12.0
30"	72"	18"	12"	12"	12"	15"	12.0	13.0
30"	78"	18"	12"	12"	12"	15"	13.0	14.0
30"	84"	18"	12"	12"	12"	15"	14.0	15.0
30"	90"	18"	12"	12"	12"	15"	15.0	16.0
30"	96"	18"	12"	12"	12"	15"	16.0	17.0
30"	102"	18"	12"	12"	12"	15"	17.0	18.0
30"	108"	18"	12"	12"	12"	15"	18.0	19.0
30"	114"	18"	12"	12"	12"	15"	19.0	20.0
30"	120"	18"	12"	12"	12"	15"	20.0	21.0
30"	126"	18"	12"	12"	12"	15"	21.0	22.0
30"	132"	18"	12"	12"	12"	15"	22.0	23.0
30"	138"	18"	12"	12"	12"	15"	23.0	24.0
30"	144"	18"	12"	12"	12"	15"	24.0	25.0
30"	150"	18"	12"	12"	12"	15"	25.0	26.0
30"	156"	18"	12"	12"	12"	15"	26.0	27.0
30"	162"	18"	12"	12"	12"	15"	27.0	28.0
30"	168"	18"	12"	12"	12"	15"	28.0	29.0
30"	174"	18"	12"	12"	12"	15"	29.0	30.0
30"	180"	18"	12"	12"	12"	15"	30.0	31.0
30"	186"	18"	12"	12"	12"	15"	31.0	32.0
30"	192"	18"	12"	12"	12"	15"	32.0	33.0
30"	198"	18"	12"	12"	12"	15"	33.0	34.0
30"	204"	18"	12"	12"	12"	15"	34.0	35.0
30"	210"	18"	12"	12"	12"	15"	35.0	36.0
30"	216"	18"	12"	12"	12"	15"	36.0	37.0
30"	222"	18"	12"	12"	12"	15"	37.0	38.0
30"	228"	18"	12"	12"	12"	15"	38.0	39.0
30"	234"	18"	12"	12"	12"	15"	39.0	40.0
30"	240"	18"	12"	12"	12"	15"	40.0	41.0
30"	246"	18"	12"	12"	12"	15"	41.0	42.0
30"	252"	18"	12"	12"	12"	15"	42.0	43.0
30"	258"	18"	12"	12"	12"	15"	43.0	44.0
30"	264"	18"	12"	12"	12"	15"	44.0	45.0
30"	270"	18"	12"	12"	12"	15"	45.0	46.0
30"	276"	18"	12"	12"	12"	15"	46.0	47.0
30"	282"	18"	12"	12"	12"	15"	47.0	48.0
30"	288"	18"	12"	12"	12"	15"	48.0	49.0
30"	294"	18"	12"	12"	12"	15"	49.0	50.0
30"	300"	18"	12"	12"	12"	15"	50.0	51.0
30"	306"	18"	12"	12"	12"	15"	51.0	52.0
30"	312"	18"	12"	12"	12"	15"	52.0	53.0
30"	318"	18"	12"	12"	12"	15"	53.0	54.0
30"	324"	18"	12"	12"	12"	15"	54.0	55.0
30"	330"	18"	12"	12"	12"	15"	55.0	56.0
30"	336"	18"	12"	12"	12"	15"	56.0	57.0
30"	342"	18"	12"	12"	12"	15"	57.0	58.0
30"	348"	18"	12"	12"	12"	15"	58.0	59.0
30"	354"	18"	12"	12"	12"	15"	59.0	60.0
30"	360"	18"	12"	12"	12"	15"	60.0	61.0

A	B	C	D	E	F	POST SPACING	AREA (SQ. FT.)	PAYMENT AREA (SQ. FT.)
12"	12"	12"	12"	12"	12"	15"	1.0	1.0
18"	12"	12"	12"	12"	12"	15"	1.8	1.8
12"	18"	12"	12"	12"	12"	15"	1.8	1.8
18"	18"	12"	12"	12"	12"	15"	3.6	3.6
12"	12"	18"	12"	12"	12"	15"	2.2	2.2
18"	12"	18"	12"	12"	12"	15"	4.0	4.0
12"	18"	18"	12"	12"	12"	15"	4.0	4.0
18"	18"	18"	12"	12"	12"	15"	8.0	8.0
12"	12"	24"	12"	12"	12"	15"	3.0	3.0
18"	12"	24"	12"	12"	12"	15"	5.4	5.4
12"	18"	24"	12"	12"	12"	15"	5.4	5.4
18"	18"	24"	12"	12"	12"	15"	10.8	10.8
12"	12"	36"	12"	12"	12"	15"	6.0	6.0
18"	12"	36"	12"	12"	12"	15"	10.8	10.8
12"	18"	36"	12"	12"	12"	15"	10.8	10.8
18"	18"	36"	12"	12"	12"	15"	21.6	21.6
12"	12"	48"	12"	12"	12"	15"	8.0	8.0
18"	12"	48"	12"	12"	12"	15"	14.4	14.4
12"	18"	48"	12"	12"	12"	15"	14.4	14.4
18"	18"	48"	12"	12"	12"	15"	28.8	28.8
12"	12"	60"	12"	12"	12"	15"	10.0	10.0
18"	12"	60"	12"	12"	12"	15"	18.0	18.0
12"	18"	60"	12"	12"	12"	15"	18.0	18.0
18"	18"	60"	12"	12"	12"	15"	36.0	36.0
12"	12"	72"	12"	12"	12"	15"	12.0	12.0
18"	12"	72"	12"	12"	12"	15"	21.6	21.6
12"	18"	72"	12"	12"	12"	15"	21.6	21.6
18"	18"	72"	12"	12"	12"	15"	43.2	43.2
12"	12"	84"	12"	12"	12"	15"	14.0	14.0
18"	12"	84"	12"	12"	12"	15"	25.2	25.2
12"	18"	84"	12"	12"	12"	15"	25.2	25.2
18"	18"	84"	12"	12"	12"	15"	50.4	50.4
12"	12"	96"	12"	12"	12"	15"	16.0	16.0
18"	12"	96"	12"	12"	12"	15"	28.8	28.8
12"	18"	96"	12"	12"	12"	15"	28.8	28.8
18"	18"	96"	12"	12"	12"	15"	57.6	57.6
12"	12"	108"	12"	12"	12"	15"	18.0	18.0
18"	12"	108"	12"	12"	12"	15"	32.4	32.4
12"	18"	108"	12"	12"	12"	15"	32.4	32.4
18"	18"	108"	12"	12"	12"	15"	64.8	



BOLLARD LIGHTING

100,000 Hours

ENTERPRISE 20 Bollard



The Pemco ENT20BOLL & ENT20BOLL EasyLED Enterprise Bollards with UV-stabilized polycarbonate lenses and sealed optical compartments are designed to replace HID lighting systems up to 70w MH or HPS. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

Specifications and Features:

Housing: Extruded Aluminum Housing with Flush Mounting Base, Sand Cast Twin Arm Head, Sealed Driver Compartment.

Listing & Ratings: CSA Listed for Wet Locations, ANSIUL 1598, 1599, 1597 IP68 Sealed LED Compartment.

Finish: Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Lens: Soft LED Luminaire Opal UV-Stabilized Polycarbonate Vandal-Resistant Inner Lens to Seal LED Array.

Mounting Options: Mounting Kit with 8" Anchor Bolts, Included.

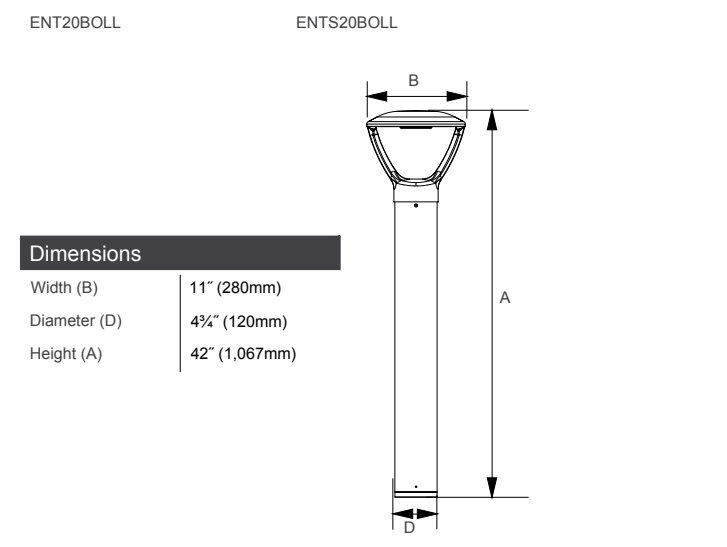
EasyLED LED: Aluminum Boards

Wattage: 12w Array 11.8, System 12.9, (70w HD Equivalent) 17w Array 16.8w, System 17.9w, (70w HD Equivalent) 21w Array 21.8w, System 22.9w, (70w HD Equivalent)

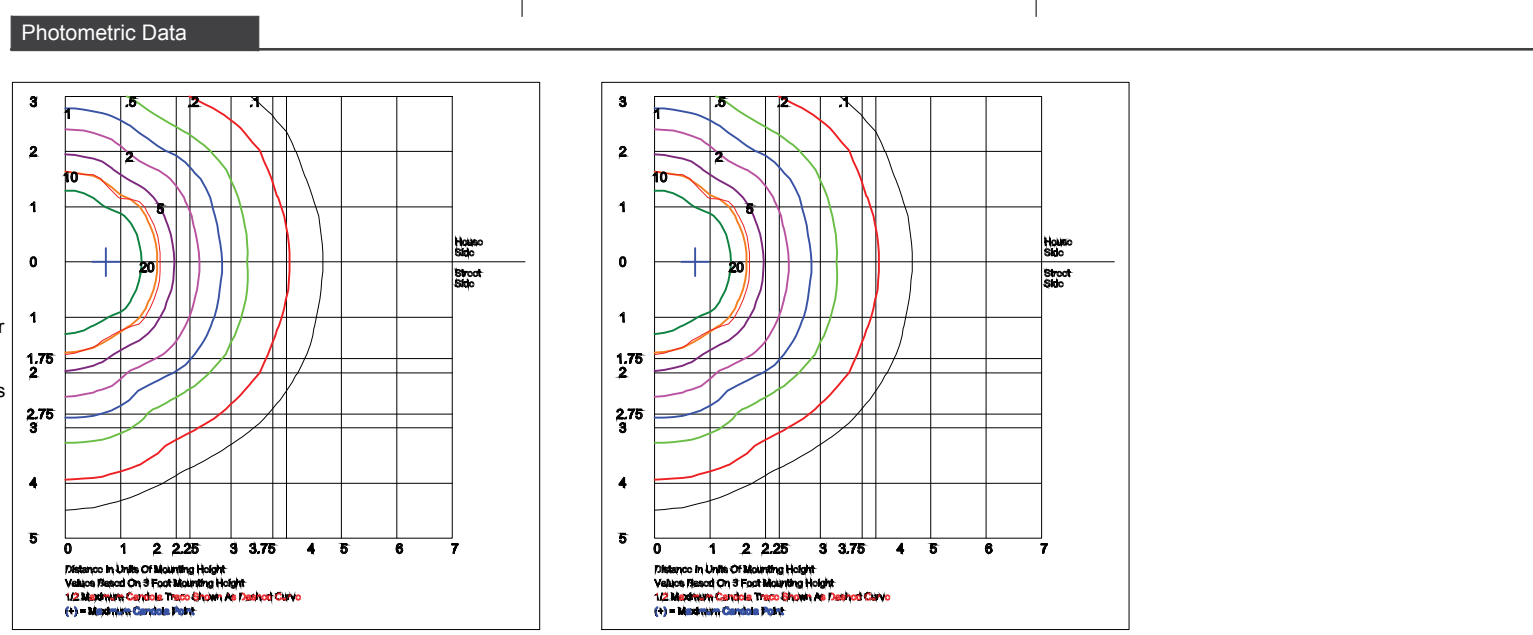
Driver: Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz; Less Than 20% THD and PFC 0.9, Standard Internal Surge Protection 20k (0-10V Dimming Standard for a Dimming Range of 100% to 10%, Dimming Source Current is 150 milliamps.

Controls: Fixtures Ordered with Factory-Installed Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Included and May Not Be Available. Please Consult Factory. Fixtures are Tested with Pemco Controls and May Not Function Properly With Controls Supplied by Others. Fixtures are NOT Designed for Use with Line Voltage Converters.

Warranty: 5-Year Warranty for -40°C to +50°C Environment. See Page 3 for Projected Lumen Maintenance Table.



Order Information Example: ENT20BOLL17X21X20XKUBDPI. Table with columns: Model, Optics, Wattage, Driver, CCT, Lens, Color, Height, Options. Includes Accessories & Replacement Parts table.

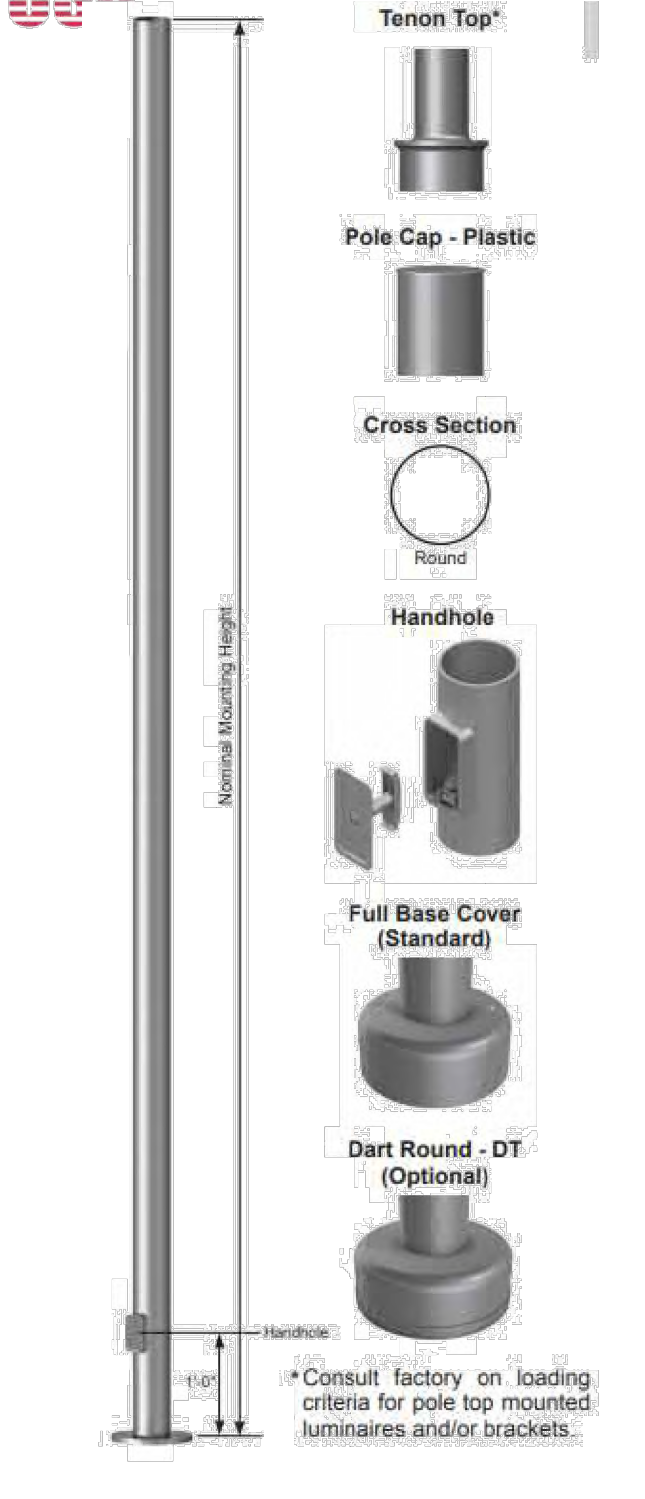


Lighting Products 150 Pemco Way-Wilmington, DE 19804 Phone 302.892.9000 www.pemcolighting.com info@pemcolighting.com ENT20BOLLQ Specifications subject to change without notice. 01/14/23



STEEL POLES

10' - 30' Round Straight Smooth Steel



Specifications and Features:

Shaft: The pole shaft is fabricated from hot rolled welded steel tubing of one-piece construction with a minimum yield strength of 42 KSI.

Pole Top: A removable pole cap is provided for poles receiving drilling patterns for side-mount luminaire arm assemblies. For top mount luminaires and/or bracket, consult factory. If purchasing your luminaires from someone other than Pemco, you must consult the manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

Handhole: A reinforced handhole with grounding provision is provided at 1'-0" from the base end of the pole assembly. Each handhole includes an easy to install, self-contained Swing Latch handhole cover assembly. U.S. Patent Swing Latch cover is fabricated from durable polycarbonate/ABS blend plastic. All pole assemblies are provided with a 2.50" x 5.00" rectangular handhole. Handhole dimensions are nominal.

Base Cover: A two-piece full base cover fabricated from ABS plastic is provided with each pole assembly. Additional base cover options, including the dart round (DT) cast aluminum cover, are available (adder).

Anchor Bolts: Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Hardware: All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

Finish - Super Durable Polyester TGIC Powder Coat

Standard finishes: high gloss black, textured black, high gloss white, medium bronze, dark bronze, green, gray, silver metallic. Premium finishes (adder): Verde patina, pewter patina, silver sparkle, semi-gloss or matte black, satin brushed. Custom and Marine-grade finishes are available. All RAL colors are available to match (adder).

PEMCO Lighting Products 150 Pemco Way-Wilmington, DE 19804 Phone 302.892.9000 Fax 302.892.9015 www.pemcolighting.com info@pemcolighting.com 10-30-Round-Steel-(2021) Specifications subject to change without notice. Rev. 02/21



STEEL POLES

10' - 30' Round Straight Smooth Steel

Order Information Example: 412RSS11D1FBCABNSB. Table with columns: Diameter, Height, RSS, S, Wall Size, Fixture Mounting. Includes Base Cover, Anchor Bolts, Accessories (adder), and Finish tables.

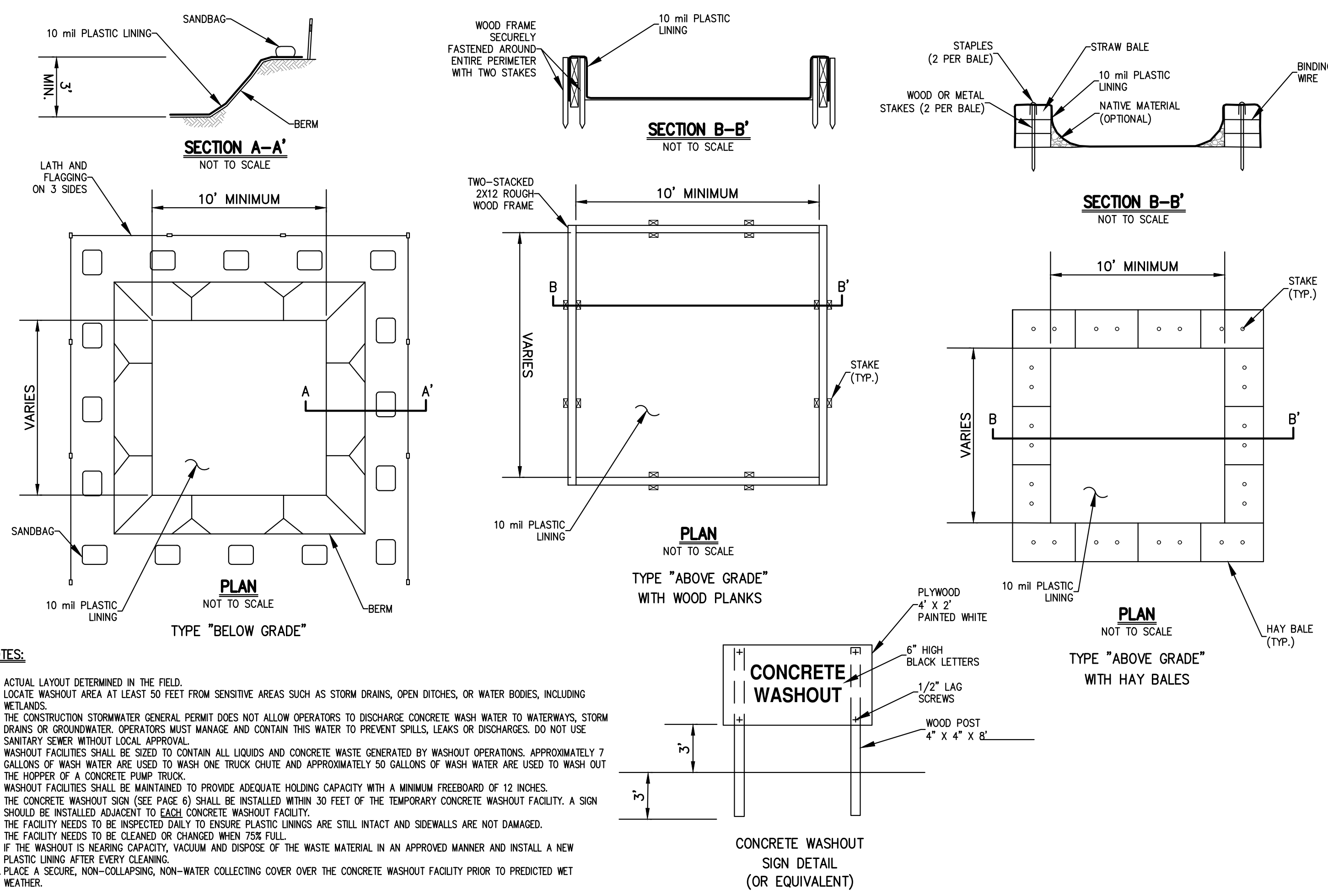
PEMCO Lighting Products 150 Pemco Way-Wilmington, DE 19804 Phone 302.892.9000 Fax 302.892.9015 www.pemcolighting.com info@pemcolighting.com 10-30-Round-Steel-(2021) Specifications subject to change without notice. Rev. 02/21

BOLLARD LIGHTING

80

STEEL POLES

81



CONCRETE WASHOUT

82

X

X

NOT FOR CONSTRUCTION

Revision table with columns: No., Date, Revision. Includes VILLAGE SUBMISSION and REVISED PER VILLAGE ENGINEER COMMENTS.

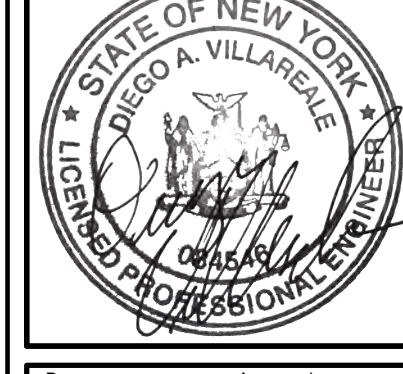
BUCHANAN DEV AMS LLC ONE BRIDGE PLAZA NORTH, SUITE 640 FORT LEE, NJ 07024 PERKINS EASTMAN 677 WASHINGTON BOULEVARD, SUITE 101 STAMFORD, CT 06901

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC JMC Site Development Consultants, LLC John Mayer Consulting, Inc. 120 BEDFORD ROAD - BRIDGEMAN, NY 10504 voice 914.273.6225 - fax 914.273.2102 www.jmcplic.com



CONSTRUCTION DETAILS AMS BUCHANAN ALBANY POST ROAD & CRAFT LANE VILLAGE OF BUCHANAN, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.



Drawn: EOK Approved: AN Scale: NOT TO SCALE Date: 12/06/2023 Project No: 22062 ZONE/TEAM: DE-15 Drawing No: C-914

LEGEND

EXISTING PROPERTY LINE
 ADJACENT PROPERTY LINE
 EXISTING SETBACK LINE
 EXISTING WETLAND LINE AND DELINEATION
 EXISTING BUILDING LINE
 EXISTING PAVEMENT EDGE
 EXISTING CURB LINE
 EXISTING STONE WALL
 EXISTING GUIDE RAIL
 EXISTING TREE
 EXISTING TREE LINE
 EXISTING PAINT
 EXISTING UTILITY POLE
 EXISTING LIGHT POLE
 EXISTING SIGN
 PROPOSED BUILDING LINE
 PROPOSED CONCRETE CURB
 PROPOSED CONCRETE SIDEWALK
 PROPOSED MONOLITHIC CONCRETE SIDEWALK & CURB
 PROPOSED PERVIOUS PAVEMENT
 PROPOSED STORMWATER PLANTER
 PROPOSED LANDSCAPE AREA
 PROPOSED RETAINING WALL (DESIGN BY OTHERS)
 PROPOSED FENCE
 2-4" WIDE YELLOW LINES 8" O.C.
 12" WIDE WHITE STOP LINE
 TRAFFIC SIGN LOCATION & DESIGNATION
 PROPOSED LIGHT
 PROPOSED DEODIOUS TREE
 PROPOSED EVERGREEN TREE
 PROPOSED SHRUBS AND PERENNIALS

NOTES

A: PLANT MATERIAL

- ALL PLANT MATERIAL SHALL BE NATIVE PLANT SPECIES AS SPECIFIED ON THE PLANS.
- PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE PERMITTED WITHOUT THE PROJECT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
- ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
- ALL PLANT MATERIAL SPECIFIED ON THE DRAWINGS SHALL BE FIRST QUALITY NURSERY GROWN STOCK, CERTIFIED TRUE TO THEIR GENUS, SPECIES AND VARIETY, ALL OF WHICH SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY AMERICAN HORTICULTURE (ANSI Z601), LATEST EDITION.
- PLANTS SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SOURCES OF ALL PLANT MATERIAL SHALL BE DISCLOSED TO PROJECT LANDSCAPE ARCHITECT AND OWNER PRIOR TO DELIVERY.
- ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN STOCK, AS SPECIFIED IN THE PLANT LIST. BAREROOT STOCK OF ANY KIND IS UNACCEPTABLE UNLESS SPECIFIED.

B: SITE PREPARATION AND PLANTING

- CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNSATISFACTORY SITE CONDITIONS TO THE OWNER IN WRITING. CONTRACTOR SHALL RECEIVE NO ADDITIONAL PAYMENT FOR ADDITIONAL WORK ASSOCIATED WITH THE UNSATISFACTORY CONDITIONS IF NOT PROPERLY REPORTED AND WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER.
- SOIL WITHIN ALL PLANTING BEDS SHALL BE PREPARED AS DIRECTED IN THE PLANTING DETAILS AND PROJECT SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.
- FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL BY PROJECT LANDSCAPE ARCHITECT. PROJECT LANDSCAPE ARCHITECT MAY ADJUST SPACING AND LOCATION IN FIELD PRIOR TO OR AFTER PLANTING.
- ALL TREE AND SHRUB PLANTINGS INSTALLED ADJACENT TO PARKING AREAS SHALL BE SETBACK A MINIMUM OF 24" FROM EDGE OF THE PLANT TO EDGE OF PARKING AREA.
- ALL PLANTINGS ADJACENT TO LAWN AREAS SHALL HAVE A 6" DEEP VERTICAL CUT EDGE ALONG THE OUTSIDE OF THE PLANTING BED.
- ALL LAWN AREAS (SOD OR SEED) SHALL RECEIVE A MINIMUM 6" THICK LAYER OF SCREENED TOPSOIL PRIOR TO INSTALLATION OF SOD OR SEED, UNLESS OTHERWISE SPECIFIED. TOPSOIL SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

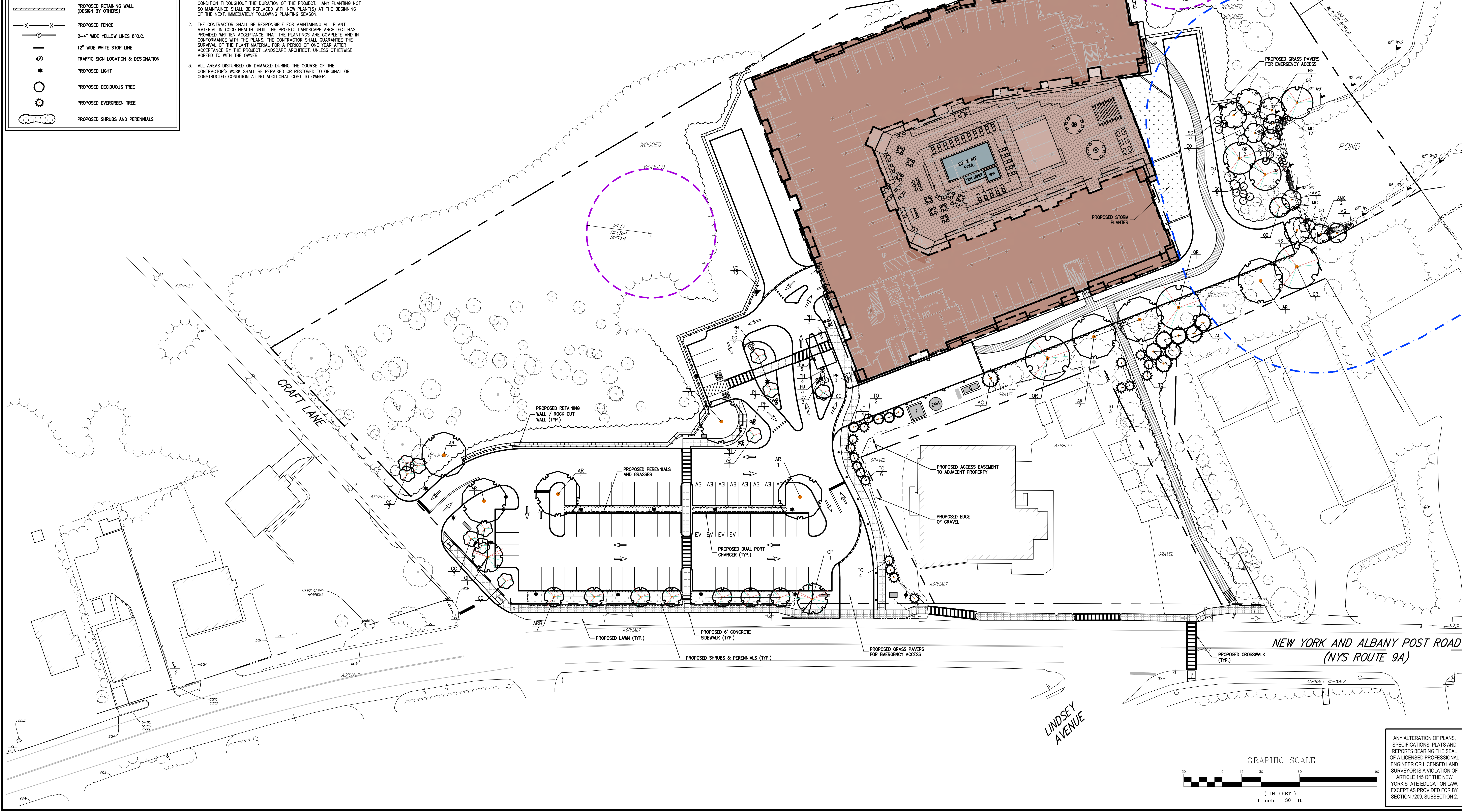
C: MAINTENANCE AND WARRANTY

- ALL LANDSCAPE PLANTINGS SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. ANY PLANTING NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANT(S) AT THE BEGINNING OF THE NEXT, IMMEDIATELY FOLLOWING PLANTING SEASON.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT MATERIAL IN GOOD HEALTH UNTIL THE PROJECT LANDSCAPE ARCHITECT HAS PROVIDED WRITTEN ACCEPTANCE THAT THE PLANTINGS ARE COMPLETE AND IN CONFORMANCE WITH THE PLANS. THE CONTRACTOR SHALL GUARANTEE THE SURVIVAL OF THE PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE PROJECT LANDSCAPE ARCHITECT, UNLESS OTHERWISE AGREED TO WITH THE OWNER.
- ALL AREAS DISTURBED OR DAMAGED DURING THE COURSE OF THE CONTRACTOR'S WORK SHALL BE REPAIRED OR RESTORED TO ORIGINAL OR CONSTRUCTED CONDITION AT NO ADDITIONAL COST TO OWNER.

PLANT SCHEDULE

CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT COND.
EVERGREEN TREES				
AC	8	Abies concolor / White Fir	6'-10" HT.	B & B
JT	4	Juniperus virginiana Taylor / Taylor Eastern Redcedar	6'-8" HT.	B & B
TO	18	Thuja occidentalis / American Arborvitae	8'-10" HT.	B & B
FLOWERING TREES				
AMC	6	Amelanchier canadensis / Shadblow	6'-10" HT.	B & B
DECIDUOUS TREES				
ARB	11	Acer rubrum 'Bowhall' / Bowhall Red Maple	2" - 2 1/2" Cal.	B & B
AR	6	Acer rubrum 'Frankford' / Red Sunset® Maple	3" - 3 1/2" Cal.	B & B
NS	4	Nyssa sylvatica / Tupelo	2 1/2" - 3" Cal.	B & B
QB	1	Quercus bicolor / Swamp White Oak	2" - 2 1/2" Cal.	B & B
QP	2	Quercus palustris / Pin Oak	3" - 3 1/2" Cal.	B & B
QR	3	Quercus rubra / Red Oak	2 1/2" - 3" Cal.	B & B
QR	3	Quercus rubra / Red Oak	8'-10" HT.	B & B
UNDERSTORY & FLOWERING TREES				
CC	7	Cercis canadensis / Eastern Redbud Multi-trunk	6'-10" HT.	B & B
SHRUBS				
CO	8	Cephalanthus occidentalis / Buttonbush	8 GAL.	CONT.
HJ	3	Hydrangea paniculata 'Jane' / Little Lime® Panicle Hydrangea	5 gal.	CONT.
MG	31	Myrica gale / Sweetgale	3 GAL.	CONT.
SC	11	Sambucus canadensis / American Elderberry	5 gal.	CONT.
PERENNIALS/GRASSES				
CV	3	Carex verticillata / Tickseed	1 GAL.	CONT.
EW	5	Echinacea x 'PAS702918' / PowWow® White Coneflower	1 GAL.	CONT.
PH	21	Penisetum x 'Hamel'	1 GAL.	CONT.
VINES				
VC	70	Parthenocissus quinquefolia / Virginia Creeper	1 GAL.	CONT.
GROUND COVERS				
IV	77	Iris versicolor / Blue Flag	1 GAL.	CONT.

- WETLAND BUFFER AND INVASIVE SPECIES MITIGATION NOTES**
- INSTALL EROSION CONTROL MEASURES.
 - REMOVE ALL TRASH, DEBRIS, AND DEAD/OVERGROWN VEGETATION.
 - REMOVE INVASIVE PLANTS AS PER THE ENVIRONMENTAL INSPECTION AND MITIGATION REPORT IN ACCORDANCE WITH ALL APPROVED NYSDC PRACTICES.
 - ALL INVASIVE PLANTS SHALL BE A CUT STUMP APPLICATION OF NYSDC APPROVED ORGANIC HERBICIDE APPLIED IMMEDIATELY AFTER CUTTING. CUT STUMP TREATMENTS SHOULD BE CONDUCTED DURING THE GROWING SEASON AFTER FULL LEAF EXPANSION WHEN NUTRIENTS ARE ACTIVELY BEING TRANSPORTED TO THE ROOTS. DELAY IN APPLICATION AFTER CUTTING MAY RESULT IN REDUCED EFFECTIVENESS. SPECIAL AQUATIC FORMULATIONS ARE REQUIRED FOR ALL WETLAND ZONES. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A STATE ISSUED PESTICIDE APPLICATOR LICENSE WHEN APPLYING THE ORGANIC CHEMICAL AND PERMITS AS REQUIRED.
 - IF INVASIVE VINES ARE TWINING AROUND OTHER HOST SHRUBS OR TREES, AVOID APPLYING HERBICIDE TO THE PLANT.
 - DISPOSAL: REMOVE ALL PLANT PARTS FROM SITE IN COVERED TRUCK PER NYSDC APPROVAL DISPOSAL METHODS. DISPOSE OF IN APPROVED LANDFILL OR INCINERATE WITH APPROPRIATE PERMITS.
 - SANITATION: CLEAN ALL CLOTHING, BOOTS, AND EQUIPMENT TO PREVENT SPREAD OF SEED.
 - ENGINEER OR LANDSCAPE ARCHITECT, CONSULTANT TO REVIEW AND APPROVE AREA PRIOR TO HERBICIDE TREATMENT AND PLANTING.
 - THE ENTIRE SURFACE AREA WILL BE SPRAYED WITH AN APPROVED GLYPHOSATE BASED HERBICIDE FOR WETLAND USE (I.E. RODOCK OR ACCORD). AREA TO SIT FOR TWO WEEKS PRIOR TO PLANTINGS FOR SEEDING.
 - SEED AREA AS PER PLANS AND RATES AFTER TWO WEEKS MINIMUM FROM INITIAL SPRAYING OF HERBICIDE.
 - INSTALL ALL TREES + SHRUBS + PERENNIALS PER PLAN + SPECIFICATION.
 - HAND BROADCASTING SEED METHODS AS FOLLOWS: WILDFLOWER AND GRASS SEED MIXES AS NOTED ON PLANS (APPLIED AT A RATE OF 40 LBS/ACRE) TO INCLUDE A NURSE CROP OF ANNUAL RYE GRASS AT A RATE OF 1 LB PER 5,000 SQ.FT. MIX ALL SEED WITH A CARRIER TO CONSIST OF SLIGHTLY DAMPENED SAND/ST OR VERMICULITE (APPROXIMATELY TWO BUSHEL BASKETS OF SAND/ST PER 1,000 SQ.FT.).
 - THE SEED CARRIER MIXTURE TO BE DAMPENED WITH WATER, JUST UNTIL IT IS SLIGHTLY DAMP TO THE TOUCH. THE WATER IS NECESSARY SO THE SEED ADHERES TO THE CARRIER, WHICH AIDS IN EVEN DISTRIBUTION OF THE SEED.
 - AFTER MIXING YOUR SEED INTO THE CARRIER, DIVIDE THIS MIXTURE INTO TWO EQUAL PARTS.
 - HAND BROADCAST ONE HALF OF THE SEED MIXTURE OVER THE ENTIRE SITE (I.E. IN A NORTH TO SOUTH DIRECTION).
 - HAND BROADCAST THE SECOND HALF OF THE SEED OVER THE SITE, WALKING PERPENDICULAR TO THE DIRECTION YOU SEEDED IN THE FIRST HALF. THIS "CROSS PATTERN" SEEDING ENSURES EVEN SEED DISTRIBUTION.
 - RAKE OR DRAG THE AREA WITH 1/4" - 1/2" OF SOIL. (DO NOT BRING IN TOPSOIL TO ACHIEVE THIS, AS THIS WILL POTENTIALLY INTRODUCE MORE SEED ON SITE).
 - FROM THE SEEDING AREA BY ROLLING THE SITE WITH A HAND ROLLER, WILDFLOWER SEED AND GRASSES REQUIRES FIRM SEED TO SOIL CONTACT FOR GOOD GERMINATION.
 - MULCH THE PLANTING AREA WITH APPROXIMATELY 1" OF WEED FREE STRAW MULCH CAN BE LAD BY HAND OR BLOWN INTO THE SITE, MECHANICALLY.



No.	Revision	Date	By
1.	VILLAGE SUBMISSION	10/20/2023	EJK
2.	NYSDOT SUBMISSION	12/01/2023	EJK
3.	VILLAGE SUBMISSION	12/06/2023	EJK
4.	REVISED PER VILLAGE ENGINEER COMMENTS	12/26/2023	EJK

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LANDSCAPING PLAN

AMS BUCHANAN
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 VILLAGE OF BUCHANAN, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Scale: 1" = 30'
 Date: 10/17/2023
 Project No: 22062
 Drawing No: L-100

NOT FOR CONSTRUCTION