

PRELIMINARY SITE PLAN APPROVAL DRAWINGS

DATA CENTER BUILDING EXPANSION

TAX MAP SECTION 73.20 | BLOCK 1 | LOT 23, 24
 ORANGEBURG COUNTY
 1 RAMLAND ROAD
 TOWN OF ORANGETOWN, NEW YORK

JMC Drawing List:

- C-000 COVER SHEET
- C-010 EXISTING CONDITIONS
- C-100 LAYOUT AND LANDSCAPING PLAN
- C-110 FIRE TRUCK ACCESS PLAN
- C-200 GRADING PLAN
- C-300 UTILITIES PLAN
- C-400 EROSION AND SEDIMENT CONTROL PLAN
- C-900 CONSTRUCTION DETAILS
- C-901 CONSTRUCTION DETAILS
- C-902 CONSTRUCTION DETAILS
- C-903 CONSTRUCTION DETAILS
- C-904 CONSTRUCTION DETAILS
- C-905 CONSTRUCTION DETAILS

Applicant:

RAMLAND HOLDINGS, LLC
 96 FRENEAU AVENUE
 MATAWAN, NEW JERSEY 07747
 (732) 441-1547

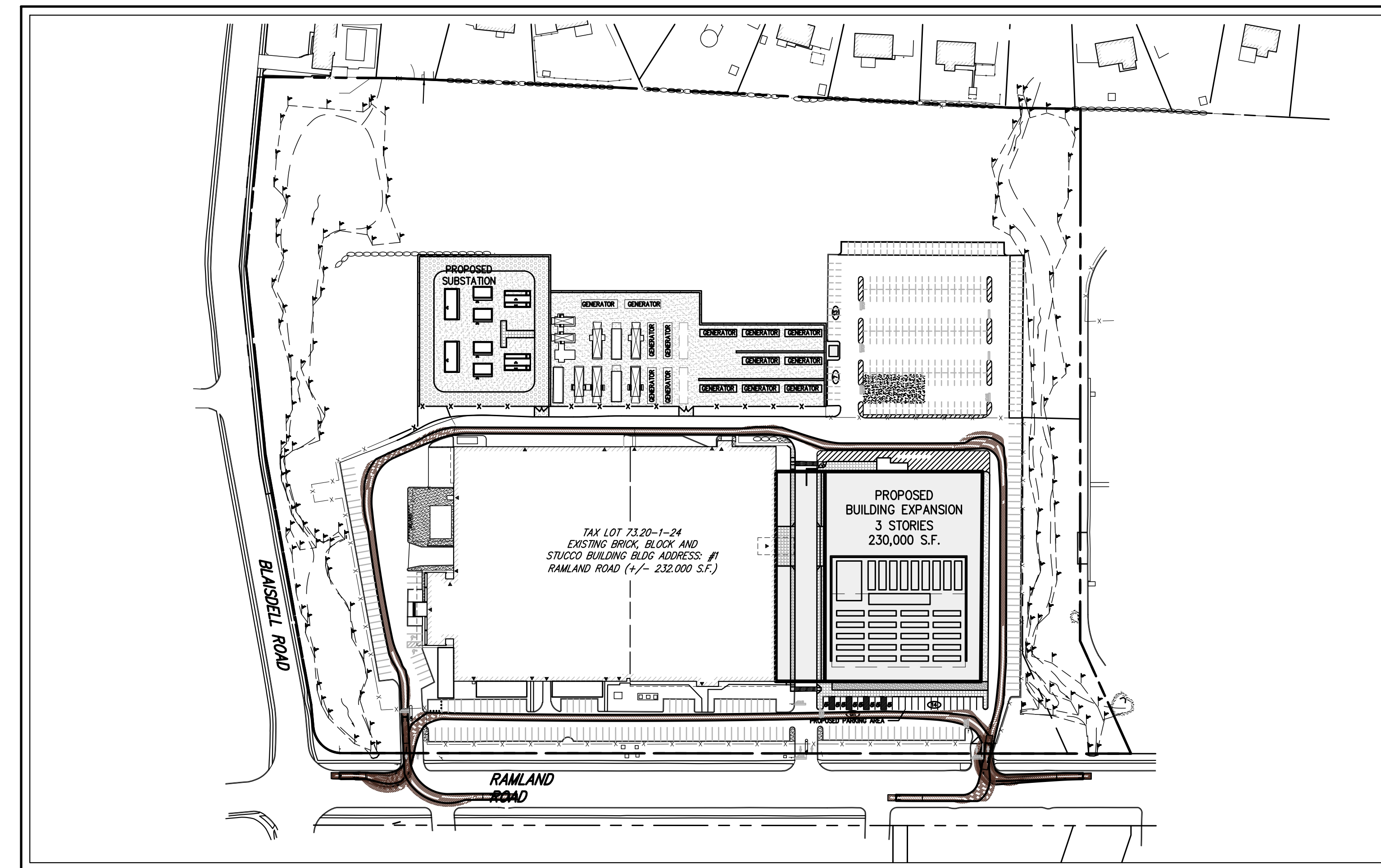
JMC Site Planner, Civil & Traffic Engineer,
 and Landscape Architect
 120 BEDFORD ROAD
 ARMONK, NY 10504
 (914) 273-5225

Architect:

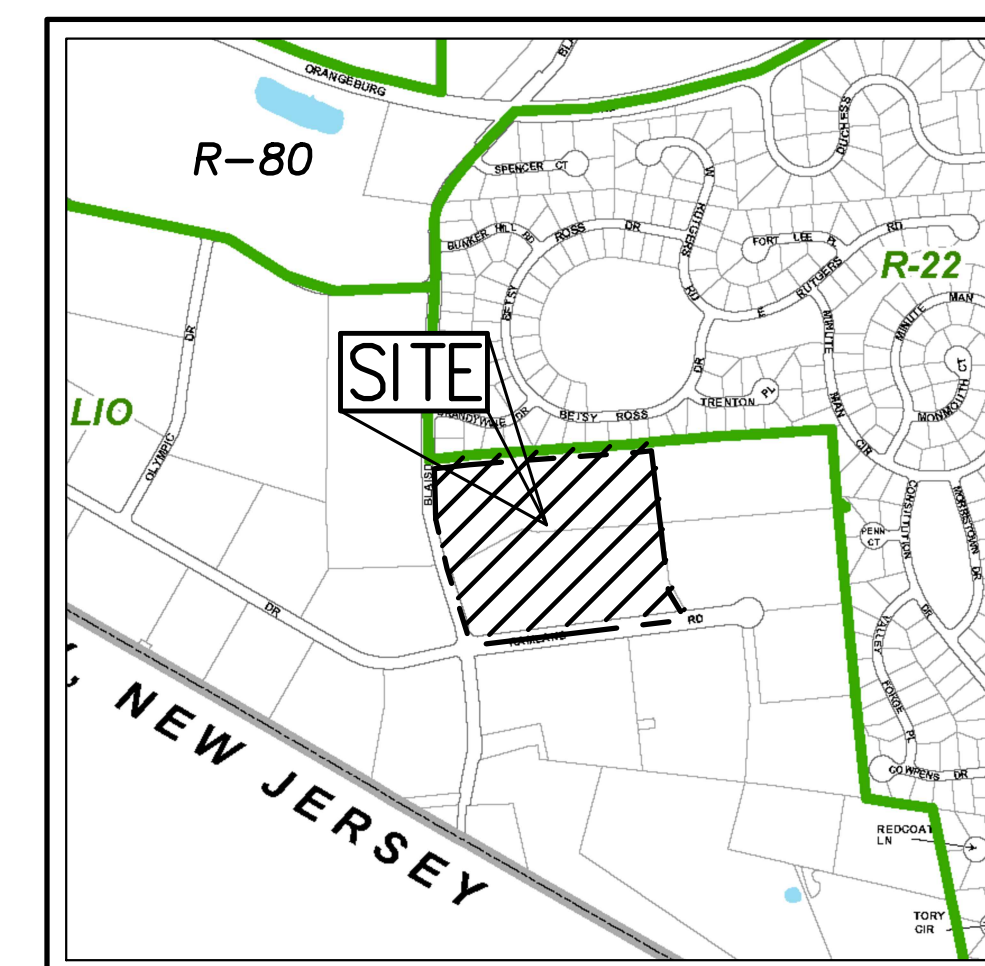
MICHELLE DROLLETTE ARCHITECT LLC
 129 EAST HIGH STREET
 HELLERTOWN, PA 18055
 (917) 519-1533

Surveyor:

JAY A. GREENWELL, PLS, LLC.
 35 WAYNE AVENUE
 SUFFERN, NEW YORK 10901
 (845) 357-0830



AREA MAP
 SCALE: N.T.S



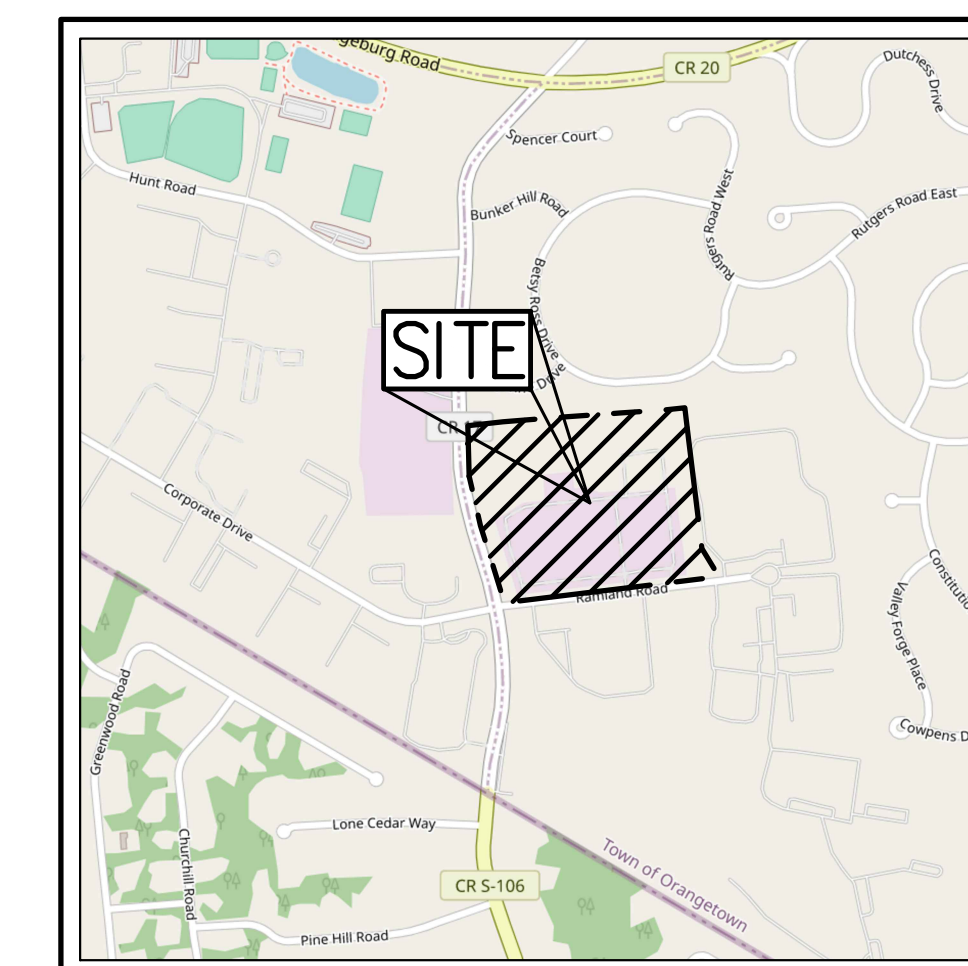
ZONING MAP
 SCALE: 1" = 1,000'
 SOURCE: TITLE / YEAR

ORANGETOWN ZONING DESIGNATION KEY

R-22	MEDIUM DENSITY RESIDENCE ZONE
R-80	RURAL RESIDENCE ZONE
LIO	LIGHT INDUSTRIAL-OFFICE ZONE

LEGEND

---	SITE PROPERTY LINE
---	ZONING BOUNDARY



VICINITY MAP
 SCALE: 1" = 1,000'
 SOURCE: TITLE / YEAR

TABLE OF LAND USE

SECTION 73.20, BLOCK 1, LOT 23, 24
 ZONE "LIO" - "LIGHT INDUSTRIAL-OFFICE DISTRICT" USE GROUP "CC"
 PROPOSED USE: DATA PROCESSING CENTER
 FIRE DISTRICT: TAPPAN
 WATER DISTRICT: PEARL RIVER
 SCHOOL DISTRICT: PEARL RIVER
 SEWER DISTRICT: ORANGETOWN

DESCRIPTION	REQUIRED (ACRES)	EXISTING ACRES	PROPOSED
LOT AREA	2 ACRES MIN.	23.8 ACRES	23.8 ACRES
LOT WIDTH (FEET)	300 MIN.	930	930
LOT FRONTAGE (FEET)	150 MIN.	1,124	1,124
LOT DEPTH (FEET)	N/A	-	-
BUILDING HEIGHT: 3 INCHES/FOOT FROM LOT LINE (FEET)	100' FROM LOT LINE = 25 FT (MAX.)	37	60 ⁽¹⁾
MAXIMUM FLOOR AREA RATIO	0.40	0.23	0.45 ⁽¹⁾
LOT COVERAGE (PERCENT)	75% MAX.	44%	47%
YARDS			
FRONT BUILDING SETBACK (FEET)	100 MIN.	92.8 ⁽²⁾	92.8 ⁽²⁾
REAR BUILDING SETBACK (FEET)	100 MIN.	381	381
SIDE BUILDING SETBACK (FEET)	100 MIN.	169	135
RESIDENTIAL DISTRICT A BUFFER (FEET)	100 MIN.	100	+100
PARKING/LOADING SUMMARY			
TOTAL SPACES REQUIRED RESEARCH/LABORATORIES: 1 SPACE/2 EMPLOYEES; (20 EMPLOYEES = 10 SPACES) OFFICES: 1 SPACE/200 S.F. OF GROSS FLOOR AREA (60,000 S.F. = 300 SPACES)	310	747	425
HANDICAP SPACES PROVIDED (SPACES)	9	15	10
STANDARD SPACES PROVIDED (SPACES)	-	732	415

(1) VARIANCE REQUIRED
 (2) EXISTING NON-COMFORMITY

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 ADMINISTRATOR'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 PROVISION 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. PLACED CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE RAMPING 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.

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.	REVISED PER PRC COMMENTS	03/31/2023	BD

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.

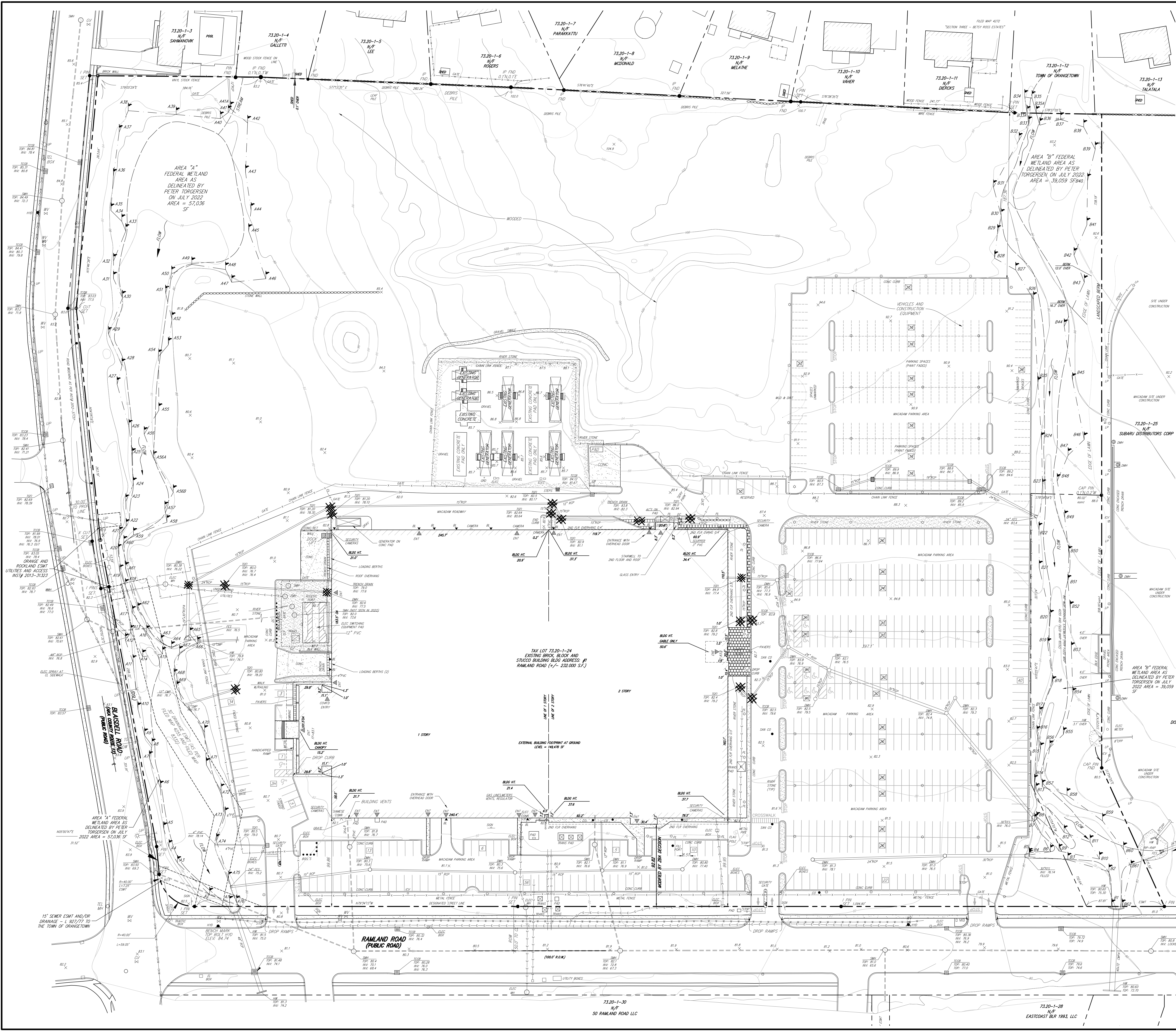
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEDFORD ROAD • ARMONK, NY 10504
 voice 914.273.5225 • fax 914.273.2102
 www.jmcpllc.com

Drawn: RR	Approved: BD
Scale: NOT TO SCALE	
Date: 10/18/2022	
Project No: 13016	
Drawn: COVER	Cover: COVER.ar
Drawing No: C-000	

NOT FOR CONSTRUCTION

Previous Editions Obsolete

NOT FOR CONSTRUCTION



LEGEND

[Symbol]	EXISTING PROPERTY LINE
[Symbol]	ADJACENT PROPERTY LINE
[Symbol]	EXISTING EASEMENT LINE
[Symbol]	MISCELLANEOUS BOUNDARIES AND LABELS
[Symbol]	EXISTING WETLAND LINE AND DELINEATION
[Symbol]	EXISTING WATERCOURSE LINE
[Symbol]	EXISTING BUILDING OVERHANG
[Symbol]	EXISTING BUILDING LINE
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	EXISTING CURB LINE
[Symbol]	EXISTING MINOR CONTOUR
[Symbol]	EXISTING INDEX CONTOUR
[Symbol]	EXISTING STONE WALL
[Symbol]	EXISTING RETAINING WALL
[Symbol]	EXISTING PAVERS STONE
[Symbol]	EXISTING GRAVEL
[Symbol]	EXISTING FENCE
[Symbol]	EXISTING DIRECTIONAL ARROWS
[Symbol]	EXISTING PAINT
[Symbol]	EXISTING PARKING WITH NUMBER OF SPACES
[Symbol]	EXISTING HANDICAP PARKING WITH NUMBER OF SPACES
[Symbol]	EXISTING PEDESTRIAN CROSSING
[Symbol]	EXISTING STORM DRAIN LINE AND SIZE DIRECTION
[Symbol]	EXISTING SANITARY LINE, SIZE AND FLOW DIRECTION
[Symbol]	EXISTING WATER LINE
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[Symbol]	EXISTING FIRE HYDRANT
[Symbol]	EXISTING GAS VALVE
[Symbol]	EXISTING WATER VALVE
[Symbol]	EXISTING UTILITY POLE
[Symbol]	EXISTING LIGHT WALL MOUNTED
[Symbol]	EXISTING SIGN
[Symbol]	EXISTING BUILDING ENTRANCE
[Symbol]	EXISTING BOLLARD

NOTES:
1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SITE DEVELOPMENT PLAN FOR EXPANSION," PREPARED BY JAY A. GREENWELL, P.L.S., LLC, DATED 08/04/2022.

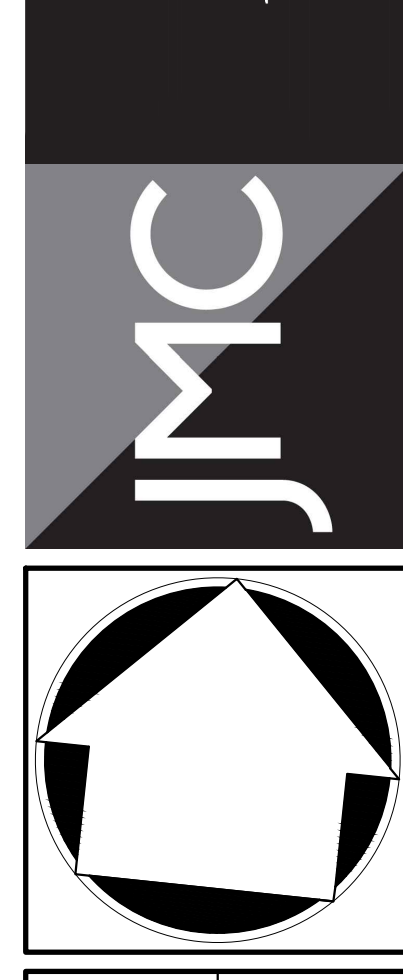
Date	03/31/2023
Revision	
No.	1. REVISED PER PRC COMMENTS

APPLICATION OWNER:
RAMLAND HOLDINGS, LLC
96 FRENEAU AVENUE
MATATAWAN, NEW JERSEY 07747

ARCHITECT:
MICHELLE DROLETTE ARCHITECT, LLC
129 EAST HIGH STREET
HELLETTOWN, PA 18055

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD • MIDDLETOWN, NY 10554
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com



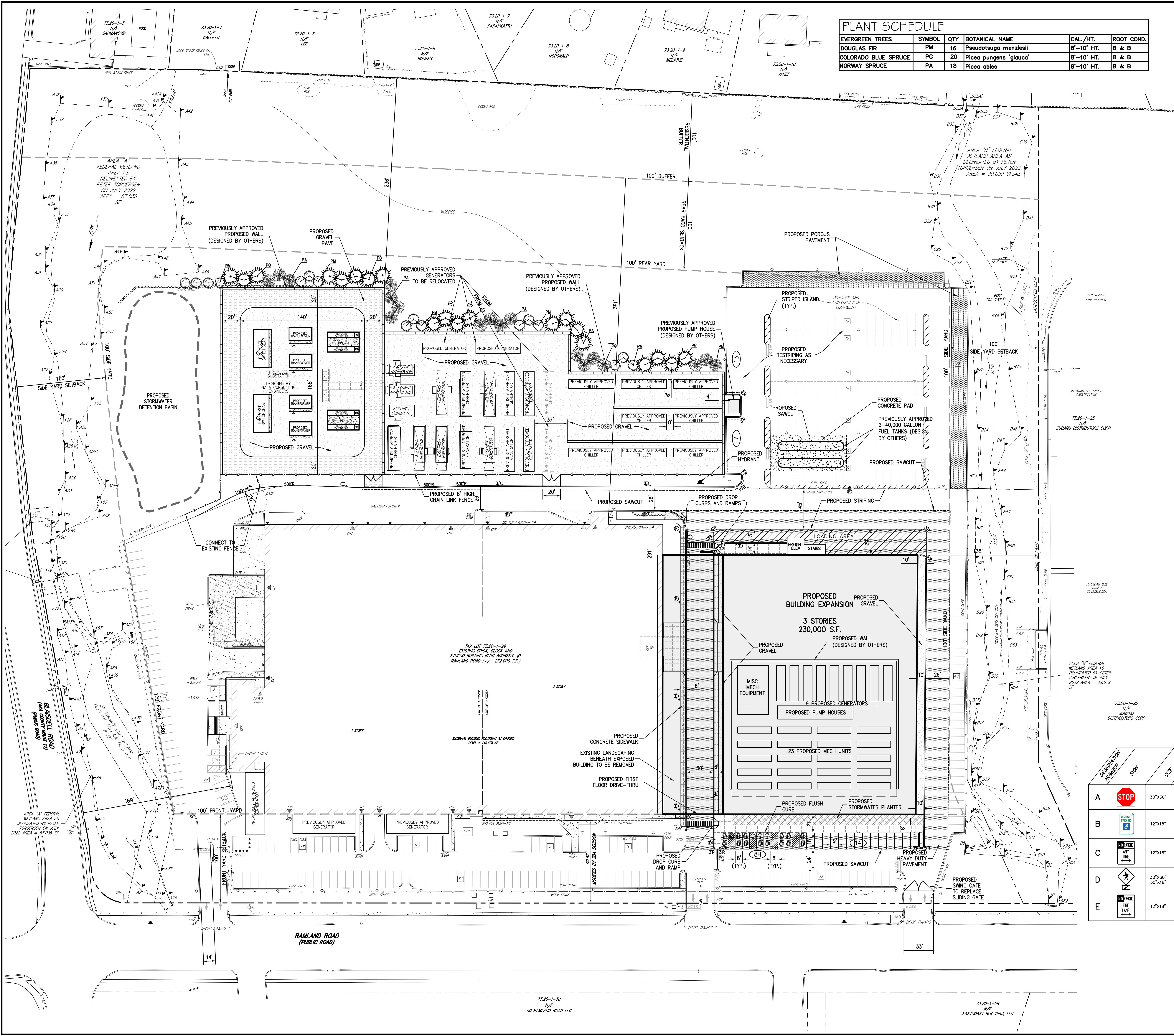
EXISTING PLAN
CONDITIONS PLAN
DATA CENTER BUILDING EXPANSION
1 RAMLAND ROAD
TOWN OF ORANGETOWN, NEW YORK

Drawn	EL	Approved	BD
Scale	1" = 40'		
Date	10/18/2022		
Project No.	13016		
Task/Phase	C-010	EXIST	arc
Drawing No.			

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C-010

NOT FOR CONSTRUCTION



PLANT SCHEDULE

EVERGREEN TREES	SYMBOL	QTY	BOTANICAL NAME	CAL./HT.	ROOT COND.
DOUGLAS FIR	PM	16	<i>Pseudotsuga menziesii</i>	8'-10' HT.	B & B
COLORADO BLUE SPRUCE	PG	20	<i>Picea pungens 'glauca'</i>	8'-10' HT.	B & B
NORWAY SPRUCE	PA	18	<i>Picea abies</i>	8'-10' HT.	B & B

LEGEND

	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING SETBACK LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING WATERCOURSE BOUNDARY
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING FENCE
	EXISTING TREE LINE
	EXISTING PAINT
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING HANDICAP PARKING WITH NUMBER OF SPACES
	EXISTING PEDESTRIAN CROSSING
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED DROP CURB & RAMP (DET 25)
	PROPOSED SAWCUT LINE
	PROPOSED HANDICAP PARKING SPACES WITH NUMBER OF SPACES INDICATED
	PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED
	PROPOSED 12' WIDE WHITE STOP LINE
	PROPOSED PEDESTRIAN CROSSING
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED CONCRETE SIDEWALK
	PROPOSED MONOLITHIC CONCRETE SIDEWALK & CURB
	PROPOSED DROP CURB AND RAMP
	PROPOSED HEAVY DUTY PAVEMENT
	PROPOSED CONCRETE PAD
	PROPOSED GRAVEL
	PROPOSED GRAVEL PAVE
	PROPOSED POROUS PAVEMENT
	PROPOSED LANDSCAPED AREA
	PROPOSED RELOCATED CHAIN LINK FENCE
	TRAFFIC SIGN LOCATION & DESIGNATION
	PROPOSED TREES

- ### NOTES
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED, "SITE DEVELOPMENT PLAN FOR EXPANSION," PREPARED BY JAY A. GREENWELL, PLS., L.L.C., DATED 08/04/2022.
 - AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
 - EXISTING FENCING DEPICTED ON THIS PLAN HAS BEEN TAKEN FROM DRAWING ENTITLED, "SITE LAYOUT" PREPARED BY SERVICE WORKS INC., DATED 10/07/2014.

SIGN TABLE

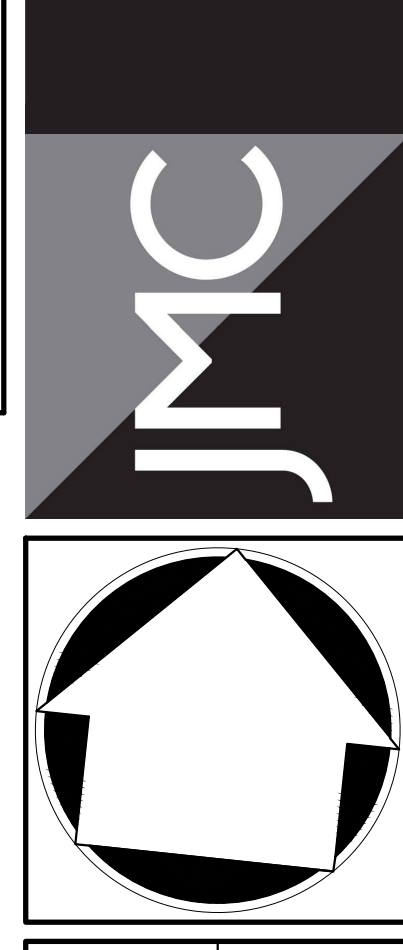
DESIGNATION NUMBER	SIGN	SIZE	DESCRIPTION	MONITORING TYPE	MONITORING HEIGHT	REGULATORY REFLECTORIZED
A		30"x30"	WHITE ON RED	STEEL CHANNEL	7'-0"	R1-1 X
B		12"x18"	GREEN & BLUE ON WHITE	STEEL CHANNEL	7'-0"	R7-8 X
C		12"x18"	RED ON WHITE	STEEL CHANNEL	7'-0"	NYP1-2 X
D		30"x30" 30"x18"	BLACK ON YELLOW	STEEL CHANNEL	7'-0"	W1-2 W16-7P X
E		12"x18"	RED ON WHITE	STEEL CHANNEL	7'-0"	NYP1-2 (MODIFIED) X

No.	Revision	Date
1.	REVISED PER PRC COMMENTS	03/27/2023

APPLICANT/OWNER:
RAWLAND HOLDINGS, LLC
96 FRENEAU AVENUE
MATTAWAN, NEW JERSEY 07747

ARCHITECT:
MICHELLE DROLETTE ARCHITECT, LLC
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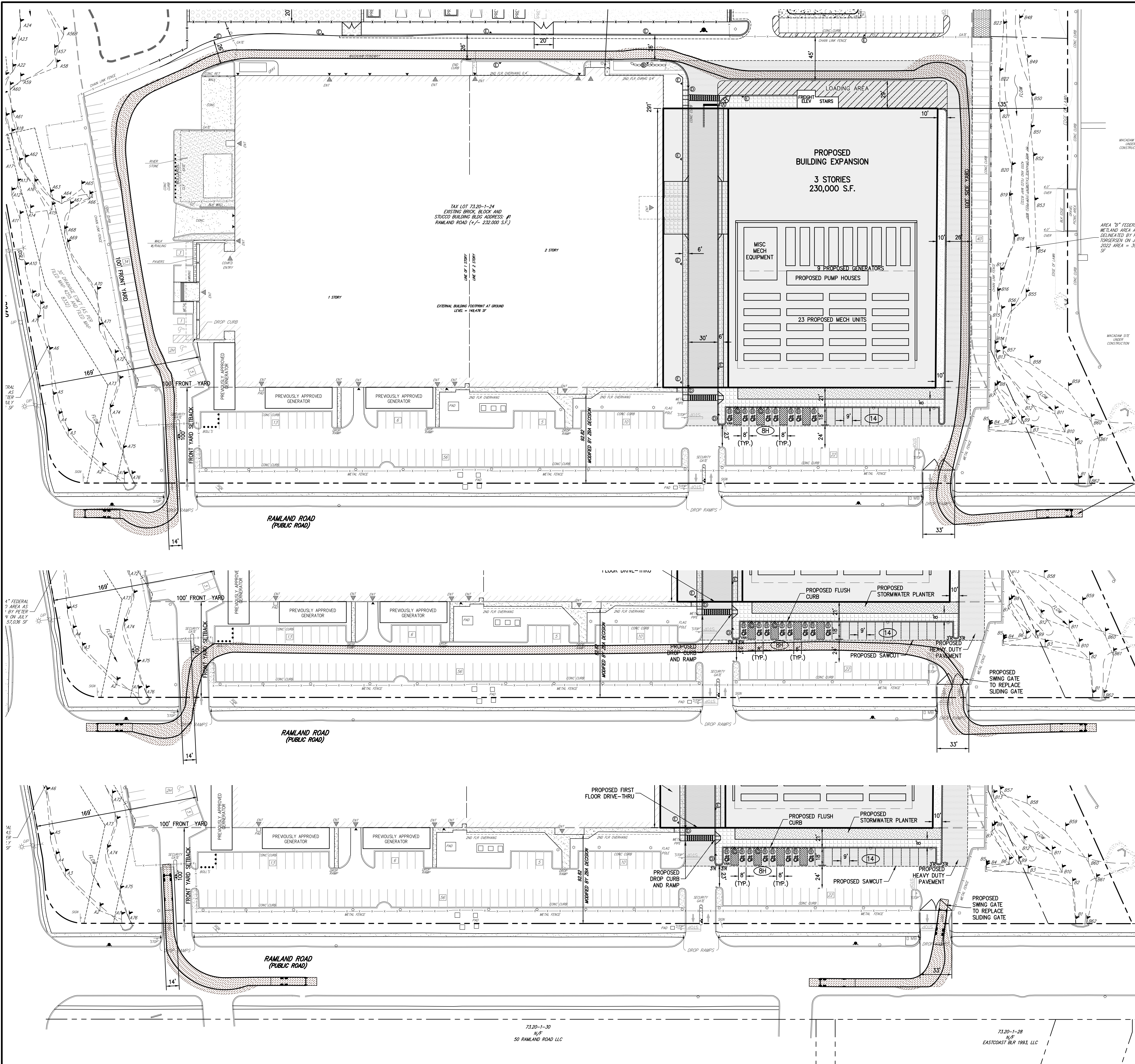
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LAYOUT AND LANDSCAPING PLAN
DATA CENTER BUILDING EXPANSION
1 RAWLAND ROAD
TOWN OF ORANGETOWN, NEW YORK

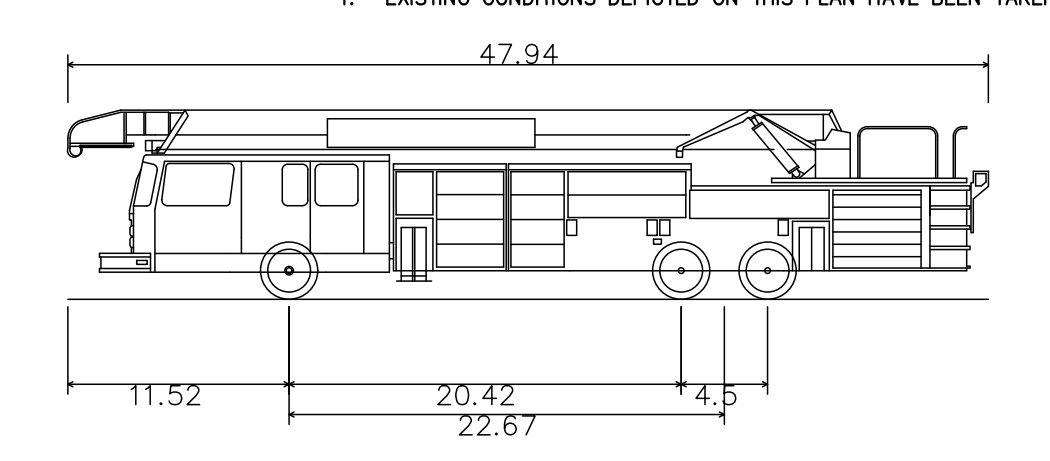
Drawn	RR	Approved	BD
Scale:	1" = 40'	Date:	10/18/2022
Project No:	13016	Drawing No:	C-100
C-100			

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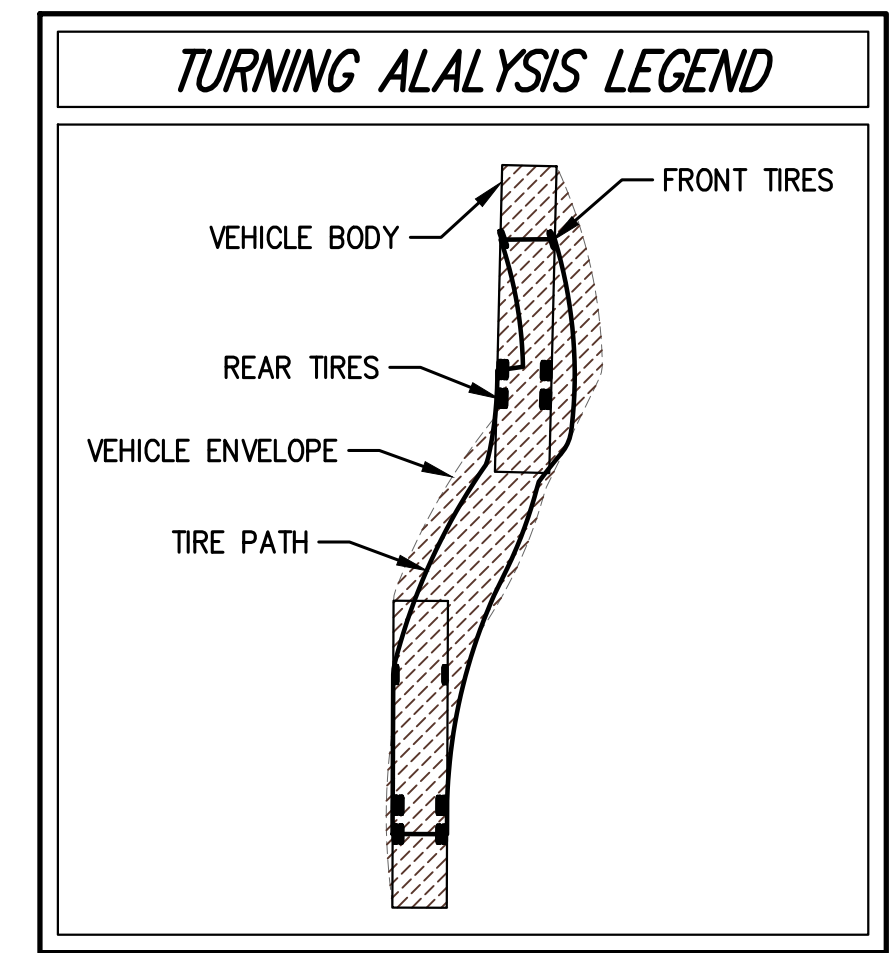


LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING SETBACK LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING WATERCOURSE BOUNDARY
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING FENCE
	EXISTING TREE LINE
	EXISTING PAINT
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING HANDICAP PARKING WITH NUMBER OF SPACES
	EXISTING PEDESTRIAN CROSSING
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED DROP CURB & RAMP (DET 25)
	PROPOSED SAWCUT LINE
	PROPOSED HANDICAPPED PARKING SPACES WITH NUMBER OF SPACES INDICATED
	PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED
	PROPOSED 12" WIDE WHITE STOP LINE
	PROPOSED PEDESTRIAN CROSSING
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED CONCRETE SIDEWALK
	PROPOSED MONOLITHIC CONCRETE SIDEWALK & CURB
	PROPOSED DROP CURB AND RAMP
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	PROPOSED POROUS PAVEMENT
	PROPOSED LANDSCAPED AREA
	PROPOSED RELOCATED CHAIN LINK FENCE
	TRAFFIC SIGN LOCATION & DESIGNATION
	PROPOSED TREES

NOTES:
1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM



Copy of 2001 Spartan Fire Truck - 47FT
 Overall Length 47.940ft
 Overall Width 8.500ft
 Overall Body Height 8.51ft
 Min Body Ground Clearance 0.950ft
 Track Width 0.500ft
 Lock-to-lock time 0.00s
 Max Wheel Angle 45.00°



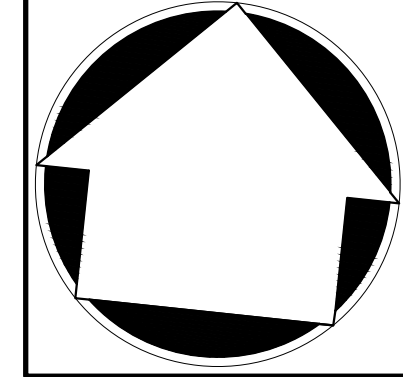
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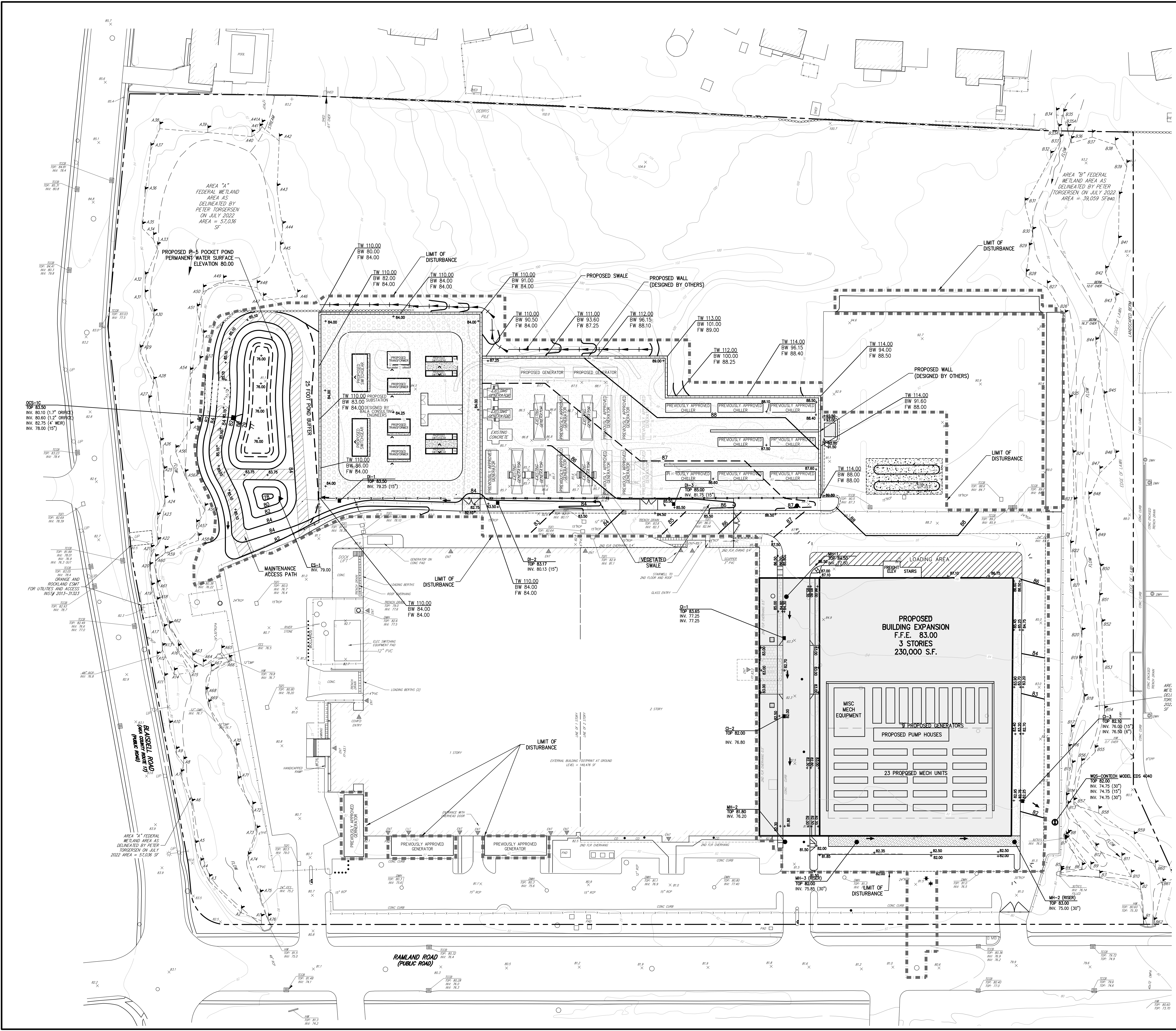
FIRE TRUCK ACCESS PLAN
DATA CENTER BUILDING EXPANSION
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 TOWN OF ORANGETOWN, NEW YORK

Drawn	RR	Approved	BD
Scale:	1" = 40'	Date:	10/18/2022
Project No:	13016	1306-LA001	C-110 FIRE TRUCK
Drawing No:			C-110

NOT FOR CONSTRUCTION

73.20-1-30 N/F 50 RAMLAND ROAD LLC
 73.20-1-28 N/F EASTCOAST BLP 1993, LLC

NOT FOR CONSTRUCTION

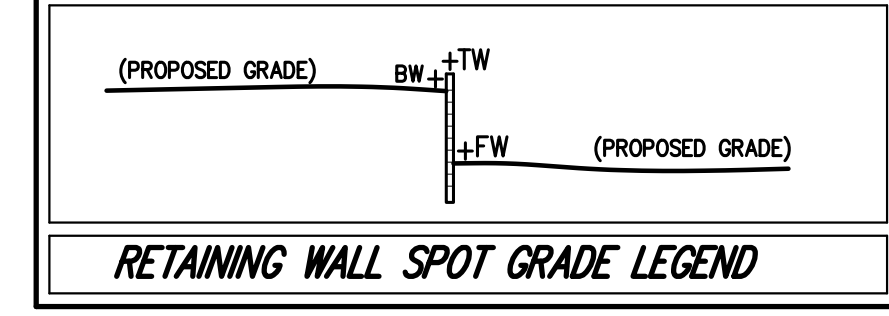


LEGEND

	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
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	EXISTING CONTOUR
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	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING FENCE
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED CONCRETE SIDEWALK
	PROPOSED DROP CURB AND RAMP
	PROPOSED FINISHED GRADE
	PROPOSED SPOT GRADE
	PROPOSED TYPE D DRAIN INLET
	PROPOSED WATER QUALITY STRUCTURE
	PROPOSED OUTLET CONTROL STRUCTURE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED LIMIT OF DISTURBANCE

NOTES

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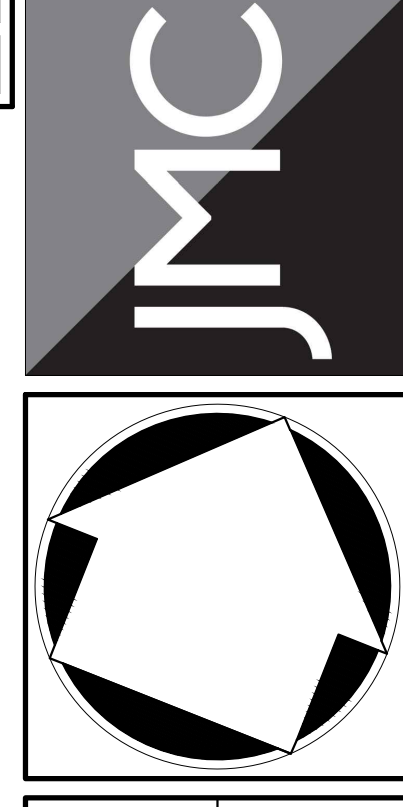


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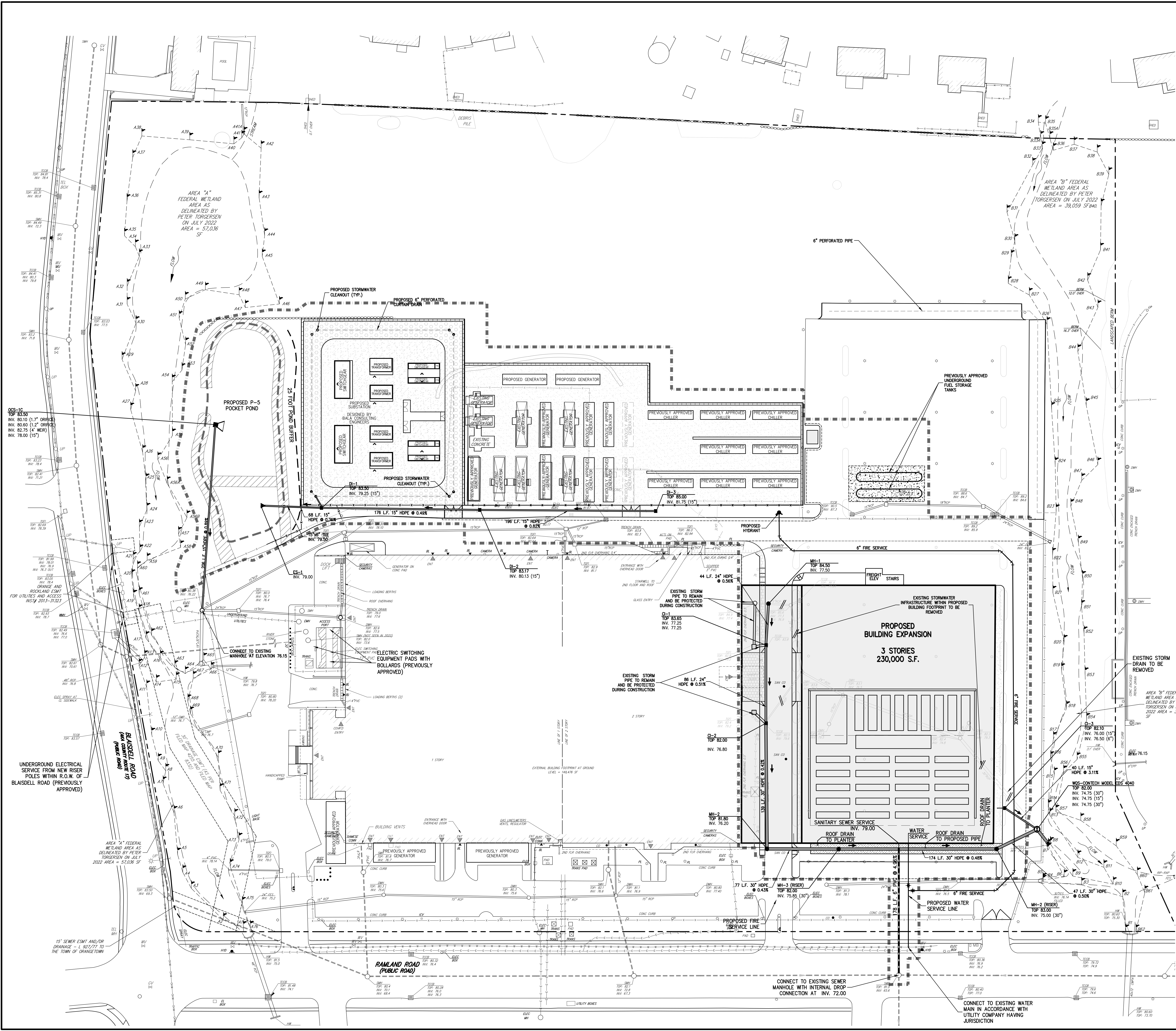
GRADING PLAN
DATA CENTER BUILDING EXPANSION
1 RAMLAND ROAD
TOWN OF ORANGETOWN, NEW YORK

Scale:	1" = 40'
Date:	10/18/2022
Project No.:	13016
Drawing No.:	GRADING
Approved:	BD
Drawn:	RR

C-200

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.

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 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 CONCRETE SIDEWALK
	PROPOSED DROP CURB AND RAMP
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED TYPE DI DRAIN INLET
	PROPOSED END SECTION
	PROPOSED WATER QUALITY STRUCTURE
	PROPOSED OUTLET CONTROL STRUCTURE
	PROPOSED CLEANOUT
	PROPOSED STORM DRAIN LINE AND SIZE
	PROPOSED 6" PERFORATED PIPE
	PROPOSED SANITARY SEWER LINE
	PROPOSED WATER LINE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	RELOCATED LIGHT
	EXISTING FEATURE TO BE REMOVED

- NOTES**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED, "SITE DEVELOPMENT PLAN FOR EXPANSION," PREPARED BY JAY A. GREENWELL, PLS., L.L.C., DATED 08/04/2022.
 - 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-2924. JOINTS SHALL BE WATERTIGHT 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 MECHANICAL JOINTS IN ACCORDANCE WITH AWWA 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.
 - EXISTING STORM DRAINS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
 - ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL, SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORMWATER MANAGEMENT PHASE II REGULATIONS.

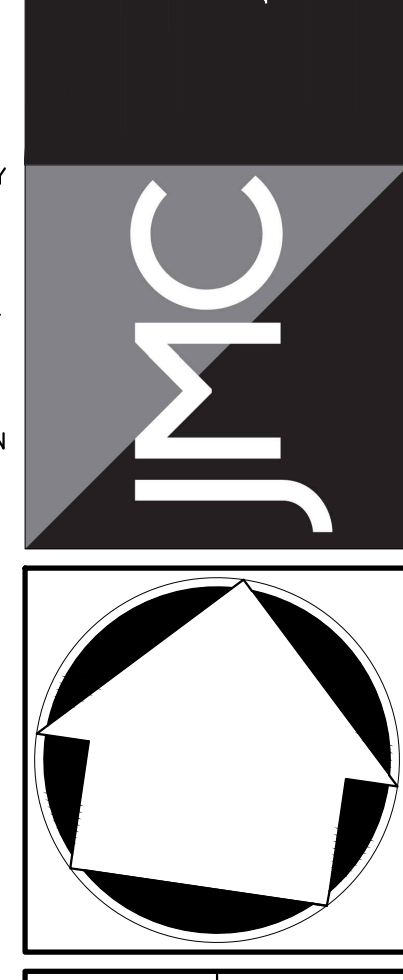
By	Date
BO	03/31/2023
Revision	
1.	REVISED PER PRC COMMENTS

APPLICANT/OWNER:
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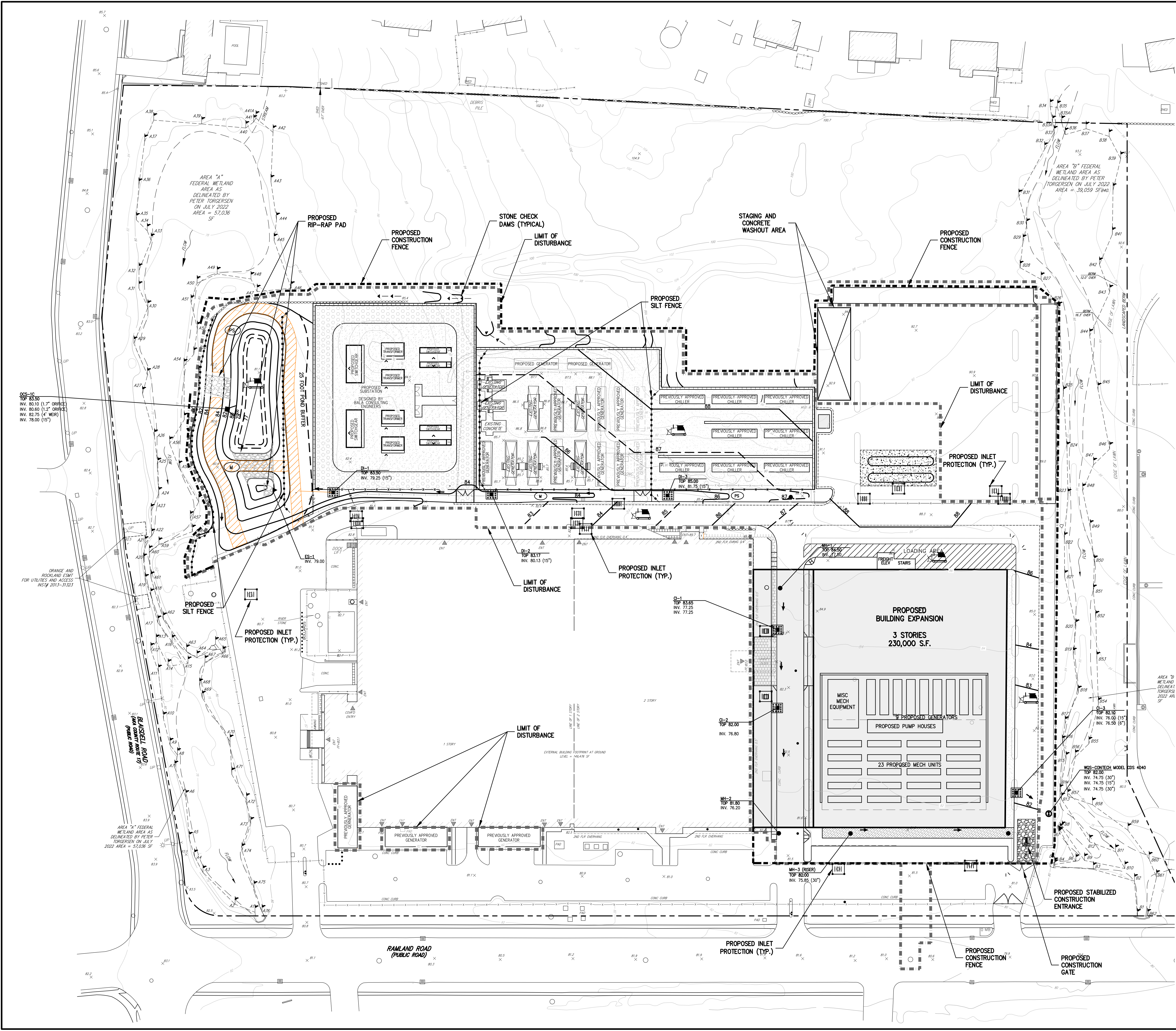


UTILITIES PLAN
DATA CENTER BUILDING EXPANSION
1 RAWLAND ROAD
TOWN OF ORANGETOWN, NEW YORK

Drawn	RR	Approved	BD
Scale	1" = 40'		
Date	10/18/2022		
Project No.	13016		
Discipline	UTILITIES		
Drawing No.	C-300		

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NOT FOR CONSTRUCTION



LEGEND	
[Symbol]	PROPOSED SILT SACK INLET PROTECTION
[Symbol]	PROPOSED STONE AND BLOCK INLET PROTECTION
[Symbol]	PROPOSED LAND GRADING
[Symbol]	PROPOSED PERMANENT SEEDING
[Symbol]	PROPOSED MULCHING
[Symbol]	PROPOSED CONSTRUCTION FENCE
[Symbol]	PROPOSED SILT FENCE
[Symbol]	PROPOSED LIMIT OF DISTURBANCE
[Symbol]	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
[Symbol]	STONE CHECK DAM

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED, "SITE DEVELOPMENT PLAN FOR EXPANSION," PREPARED BY JAY A. GREENWELL, PLS, L.L.C., DATED 08/04/2022.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH ALL THE PLANS, PRIOR TO BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION.
 - THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO SECTION 21-24 OF THE LAND DEVELOPMENT REGULATIONS OF THE TOWN OF ORANGETOWN WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
 - NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
 - THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
 - TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
 - THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
 - ONE (1) FOOT RADIUS FROM THE TRUNK PER INCH DBH
 - DRIP LINE OF THE TREE CANOPY
 THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF SNOW FENCE OR APPROVED EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED TREE PROTECTION. IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT:
 - LIGHT TO HEAVY IMPACTS: MINIMUM OF EIGHT INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
 - LIGHT IMPACTS ONLY: INSTALLATION OF 3/4 INCH OF PLYWOOD BOARDS OVER THE AREA TO BE PROTECTED.
 THE BUILDER OR HIS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED FINAL APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED TO MORE THAN SIX (6) INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH THE TREE WELL A RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
 - EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS MIX IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION AT A RATE OF 8 POUNDS PER 1000 S.F. IN THE FOLLOWING PROPORTIONS:

CRESTING RED FESCUE	30 %
PERENNIAL RYE GRASS	70 %
 - GRASS SEED MIX FOR EROSION AND SEDIMENT CONTROL MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERMEN, AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
 - SEEDED AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 LBS. PER 1000 S.F.) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS BY THE CONTRACTOR. ALL COLLECTED SEDIMENT WITHIN DAILY SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE RESPREAD ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE.
 - DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE TOWN ENGINEER.
 - CUT AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTIES, NOR DIVERT WATER ONTO THE PROPERTY OF OTHERS.
 - ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT SETTLEMENT.
 - THE CONTRACTOR SHALL INSPECT DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS AND AFTER MAINTENANCE OPERATIONS.
 - AS WARRANTED BY FIELD CONDITIONS, SPECIAL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED.
 - STOCKPILING OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED. STOCKPILED EXCAVATED MATERIAL SHALL HAVE SILT FENCE LOCATED AROUND PERIMETER. ALL STOCKPILED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO IMPED E EXISTING TRAFFIC CIRCULATION ROUTES.
 - AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND THE OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.

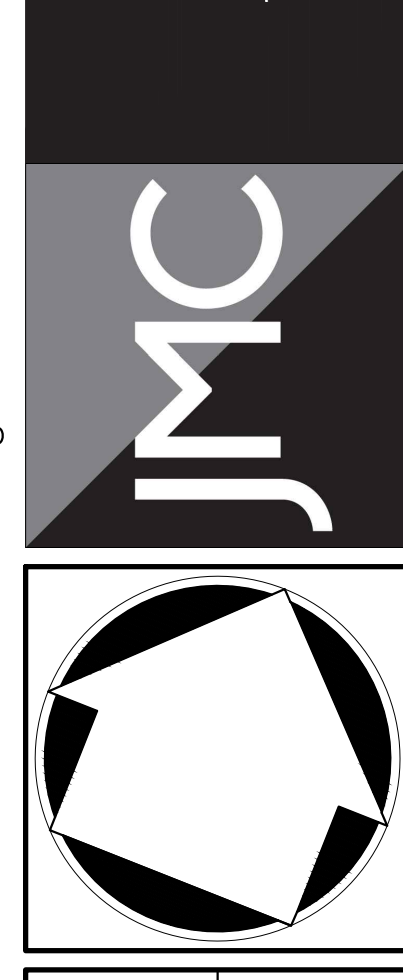
No.	Revision	Date
1.	REVISED PER PRC COMMENTS	03/31/2023

APPLICANT/OWNER:
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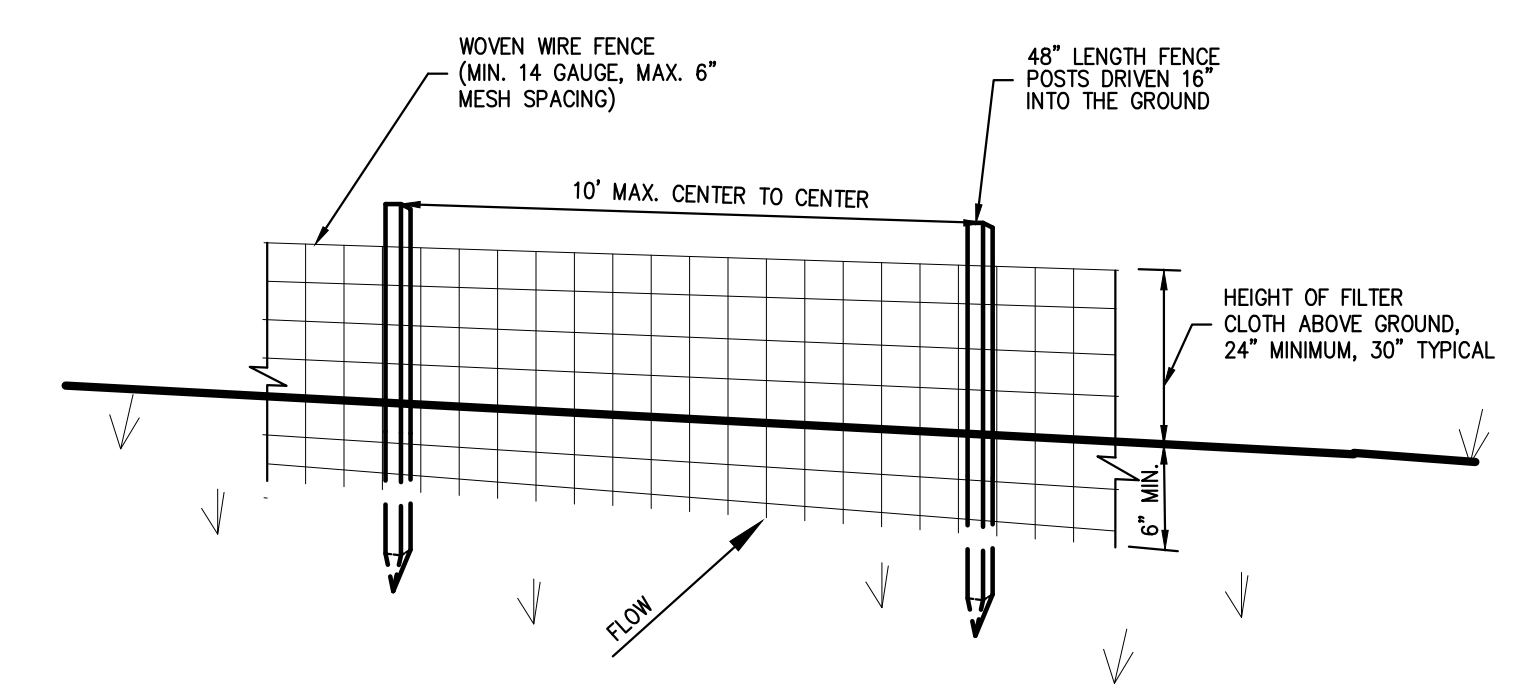
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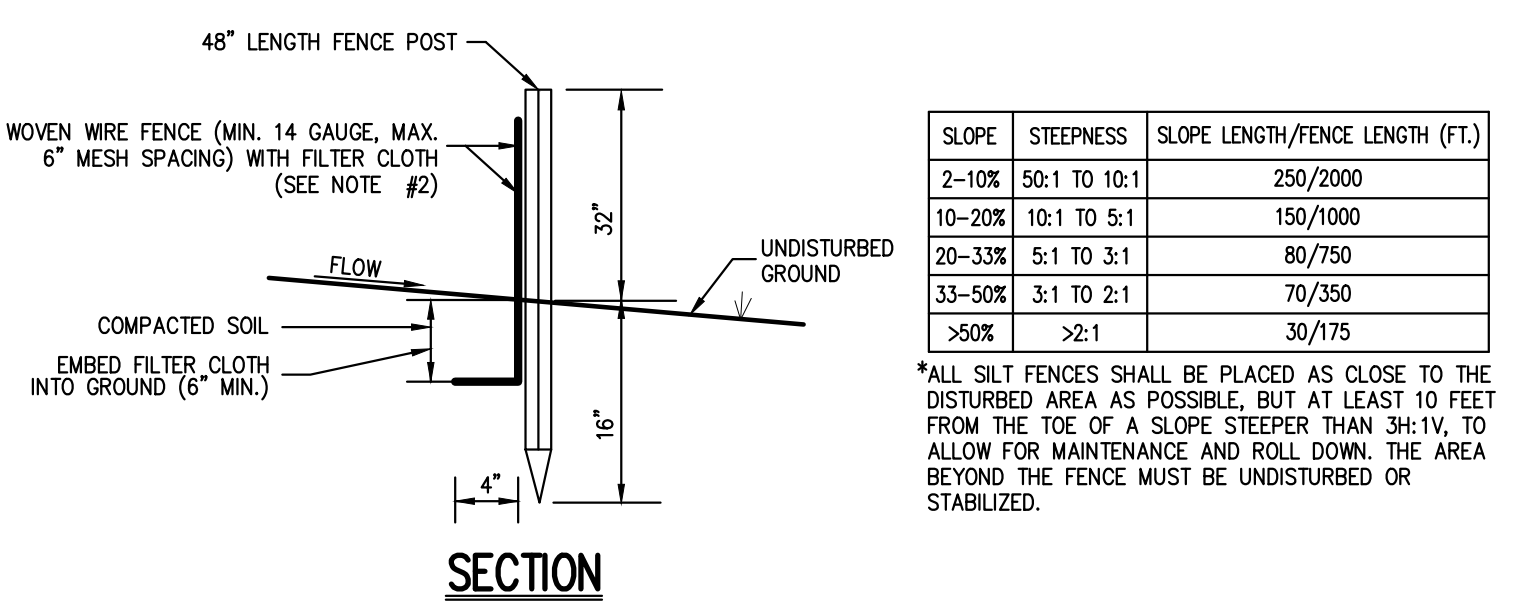
EROSION AND SEDIMENT CONTROL PLAN
DATA CENTER BUILDING EXPANSION
1 RAMLAND ROAD
TOWN OF ORANGETOWN, NEW YORK

Drawn	RR	Approved	BD
Scale:	1" = 40'		
Date:	10/18/2022		
Project No:	13016		
100%-S&E	SE	SE	SE
Drawing No:	C-400		

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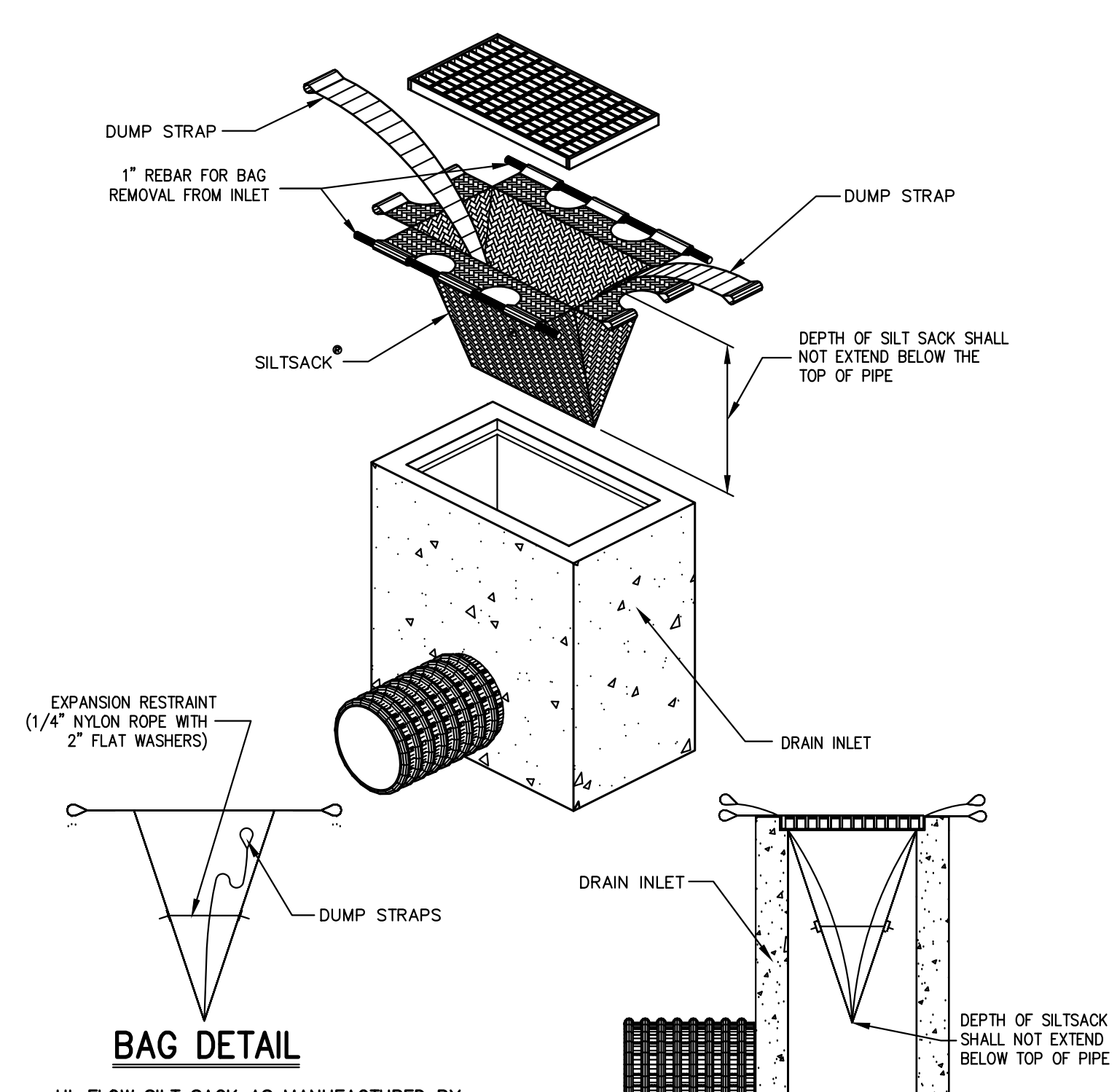
PERSPECTIVE VIEW



SECTION

SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (F:L)
2-10%	5:1 TO 10:1	250/2000
10-20%	10:1 TO 5:1	150/1000
20-33%	5:1 TO 3:1	80/750
33-50%	3:1 TO 2:1	70/350
>50%	>2:1	30/175

- NOTES:
1. 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.
 2. 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.
 3. 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, WRAP TACK, STAPLER, T140N, OR APPROVED EQUAL.
 4. PREFABRICATED UNITS SHALL BE GEOTAB, ENVROFENCE, OR APPROVED EQUAL.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



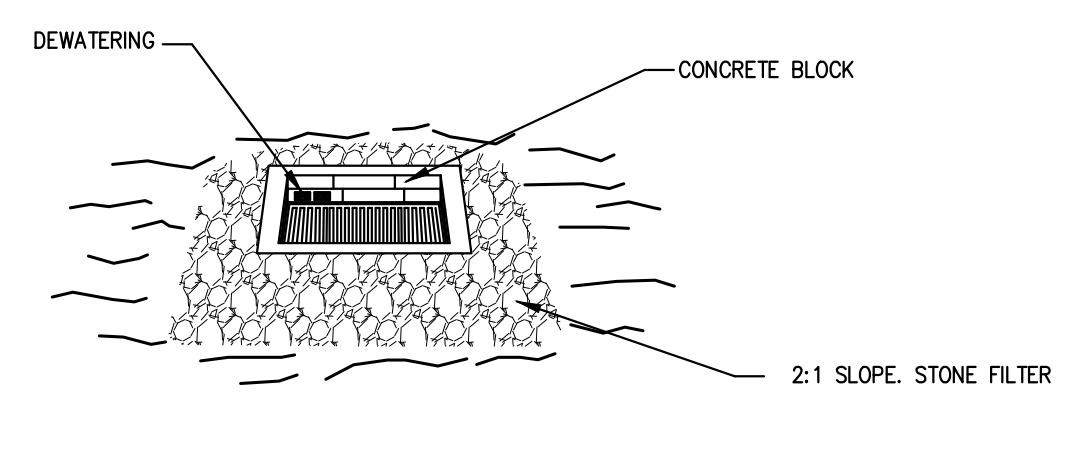
BAG DETAIL

HI-FLOW SILT SACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

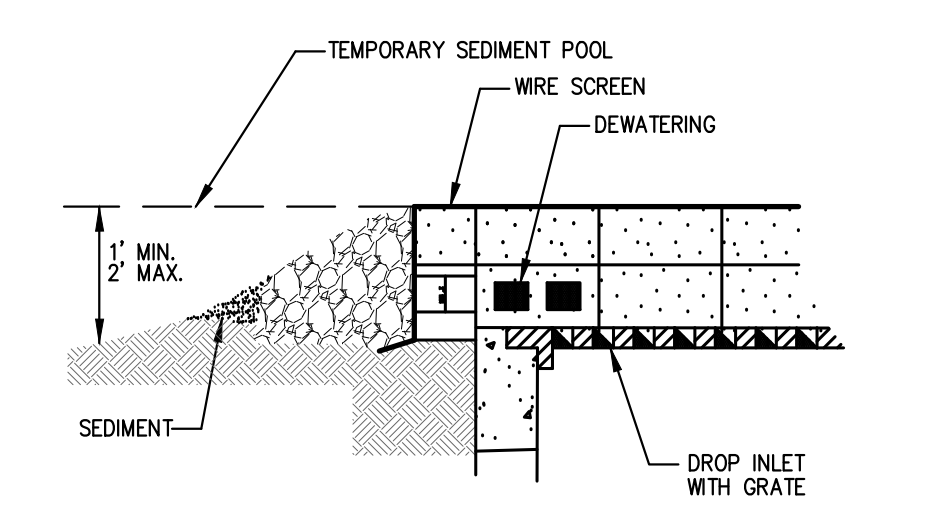
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRIAXIAL TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPROXIMATE OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

NOTE: CURB INLETS SHALL BE TYPE B WITH CURB DEFLECTOR.

INSTALLATION DETAIL

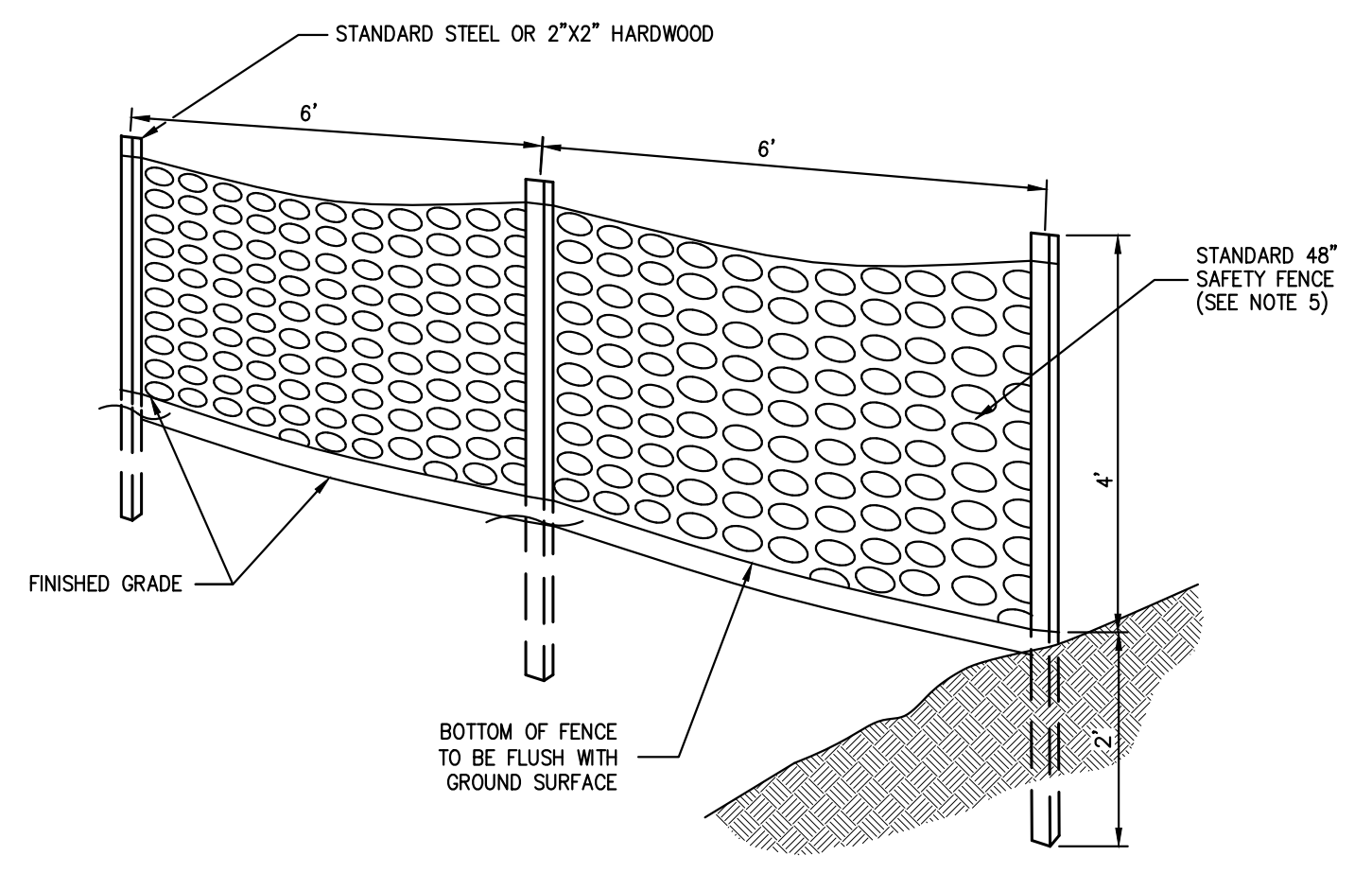


STONE & BLOCK DETAIL



DOUGHNUT DETAIL

- NOTES:
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 3. USE CLEAN STONE 1/2" TO 3/4" IN DIAMETER PLACED 2" BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.



- NOTES:
1. SPACE SUPPORT FENCE POSTS AT 6 FOOT INTERVALS.
 2. DRIVE SUPPORT POSTS 2 FEET INTO GROUND.
 3. 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.
 4. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
 5. PLASTIC FENCE SHALL BE INTERNATIONAL ORANGE COLOR, AS MANUFACTURED BY ADPI ENTERPRISES, INC. OR APPROVED EQUAL.
 6. REMOVE CONSTRUCTION FENCE AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.

SILT FENCE

1

MANUFACTURED INSERT INLET PROTECTION

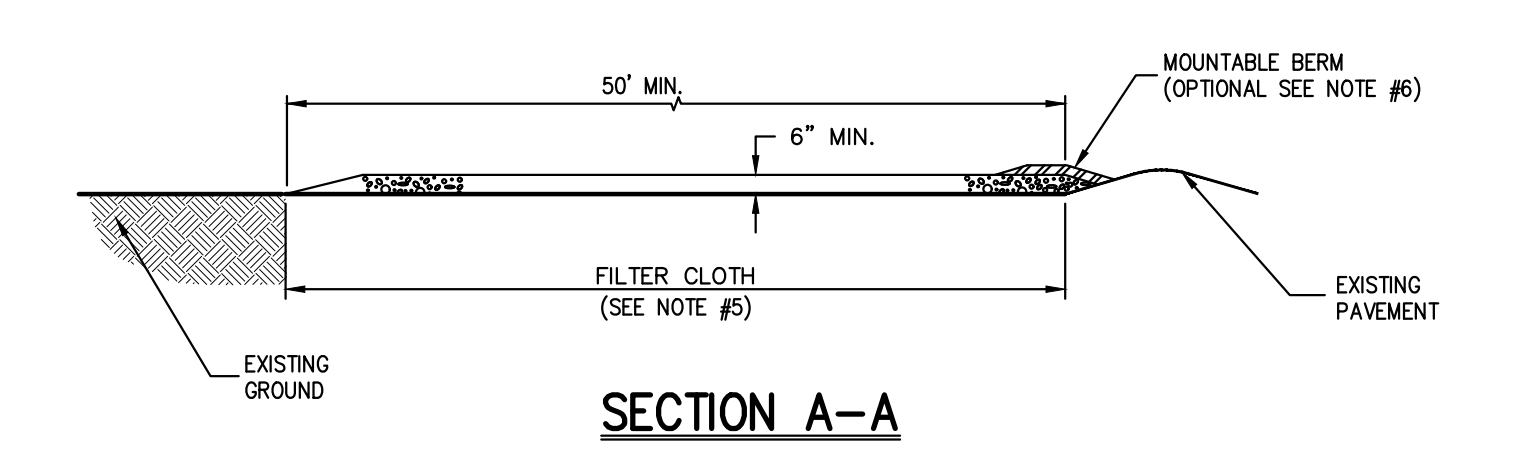
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STONE & BLOCK DROP INLET PROTECTION

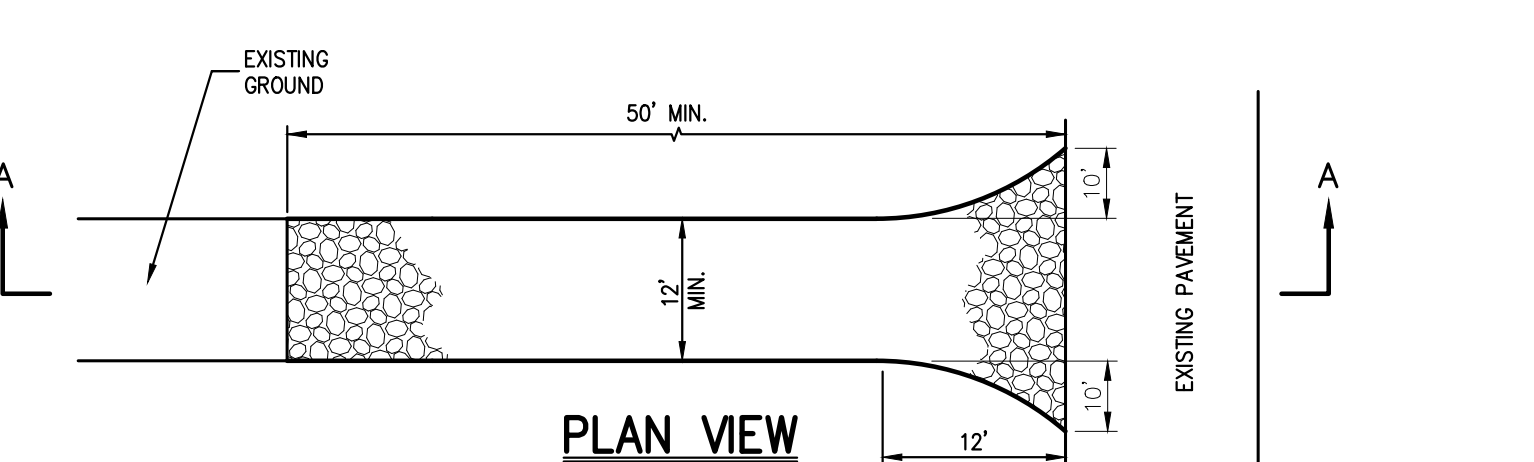
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CONSTRUCTION FENCE

4



SECTION A-A

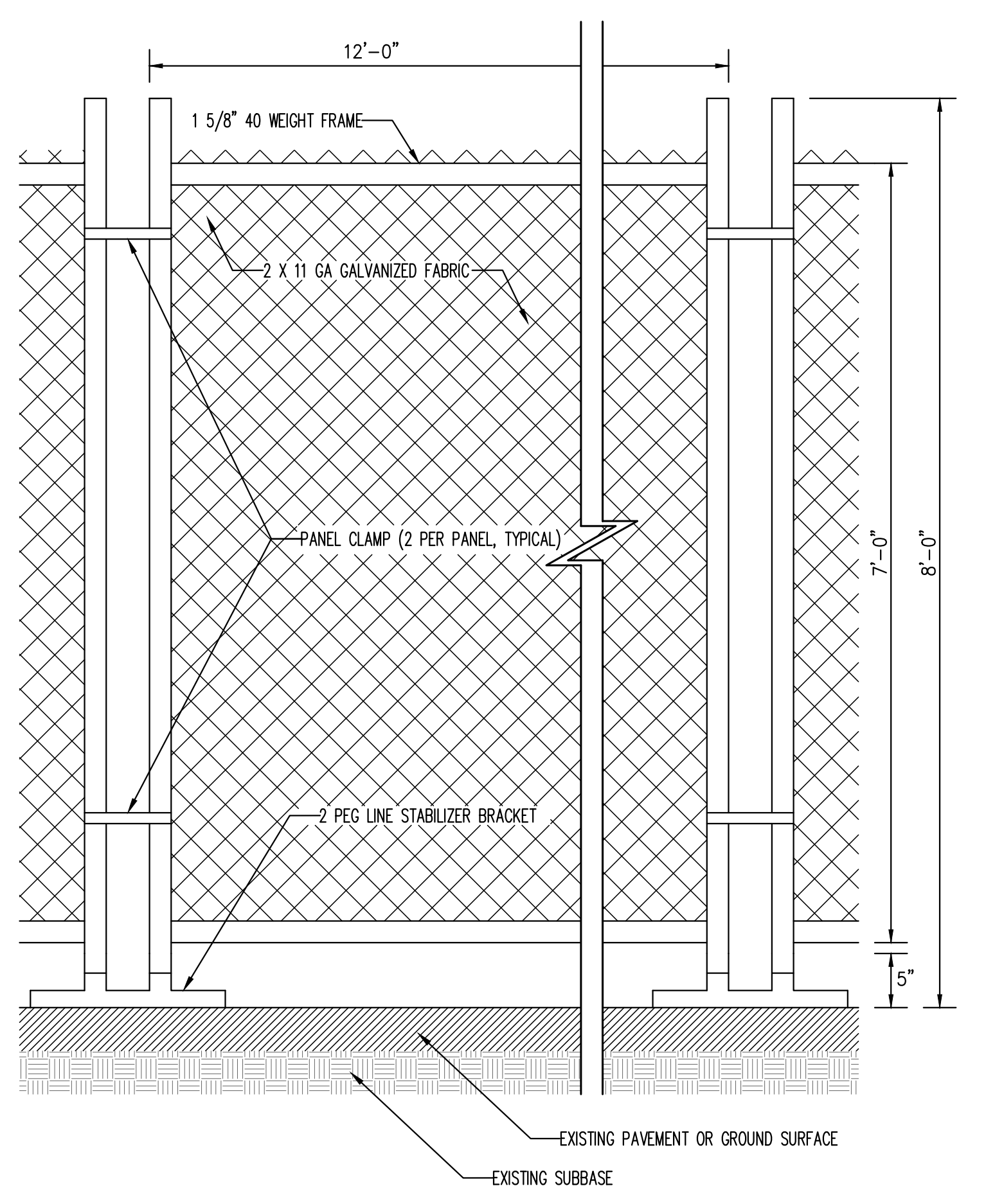


PLAN VIEW

- NOTES:
1. STONE SIZE - USE 1" TO 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. 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.
 5. FILTER CLOTH TO BE PLACED OVER THE ENTIRE WIDTH AND LENGTH OF AREA PRIOR TO PLACING OF STONE.
 6. 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.
 7. 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.
 8. 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.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

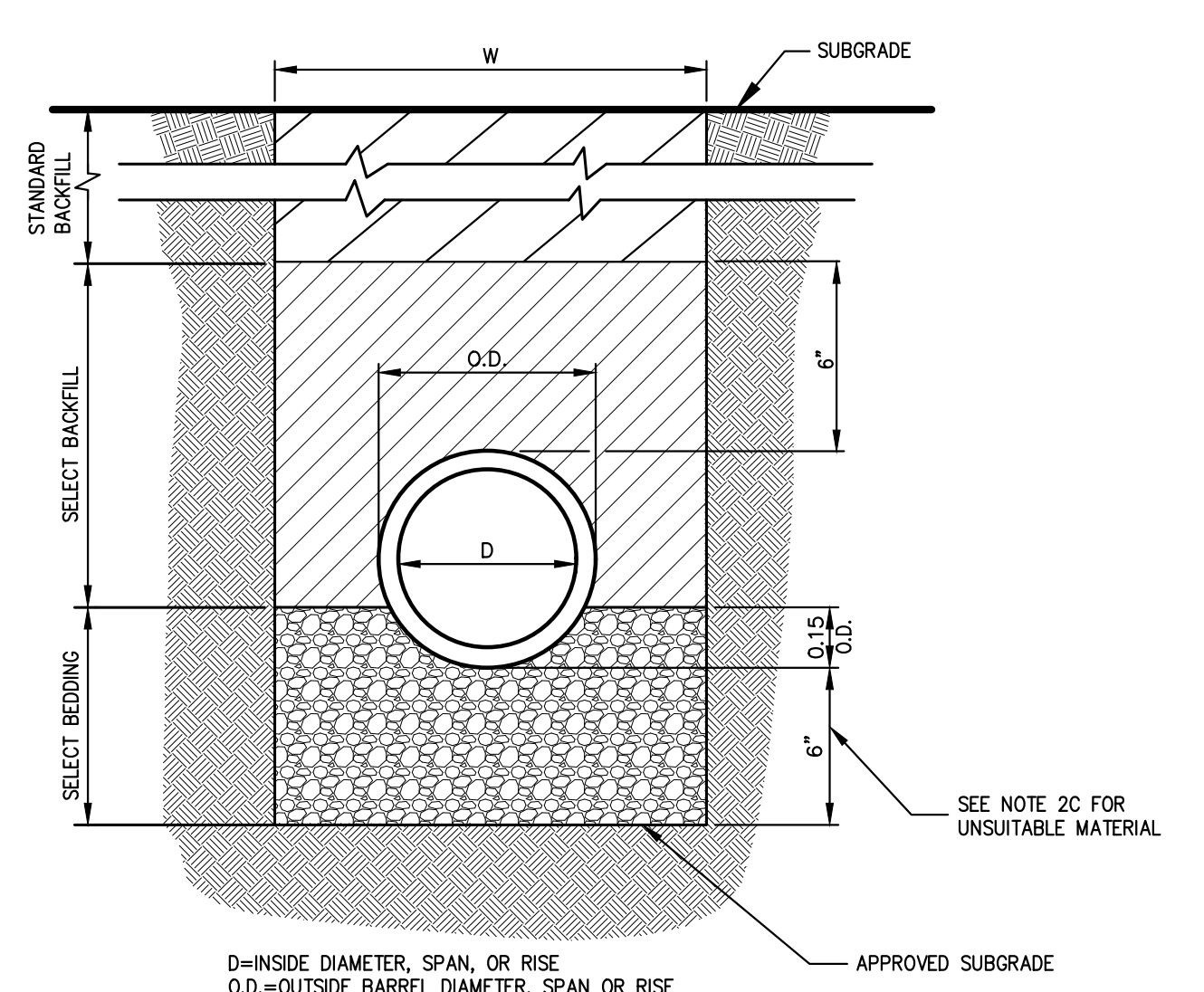
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TEMPORARY CHAIN LINK CONSTRUCTION FENCE

TEMPORARY CHAIN LINK CONSTRUCTION FENCE

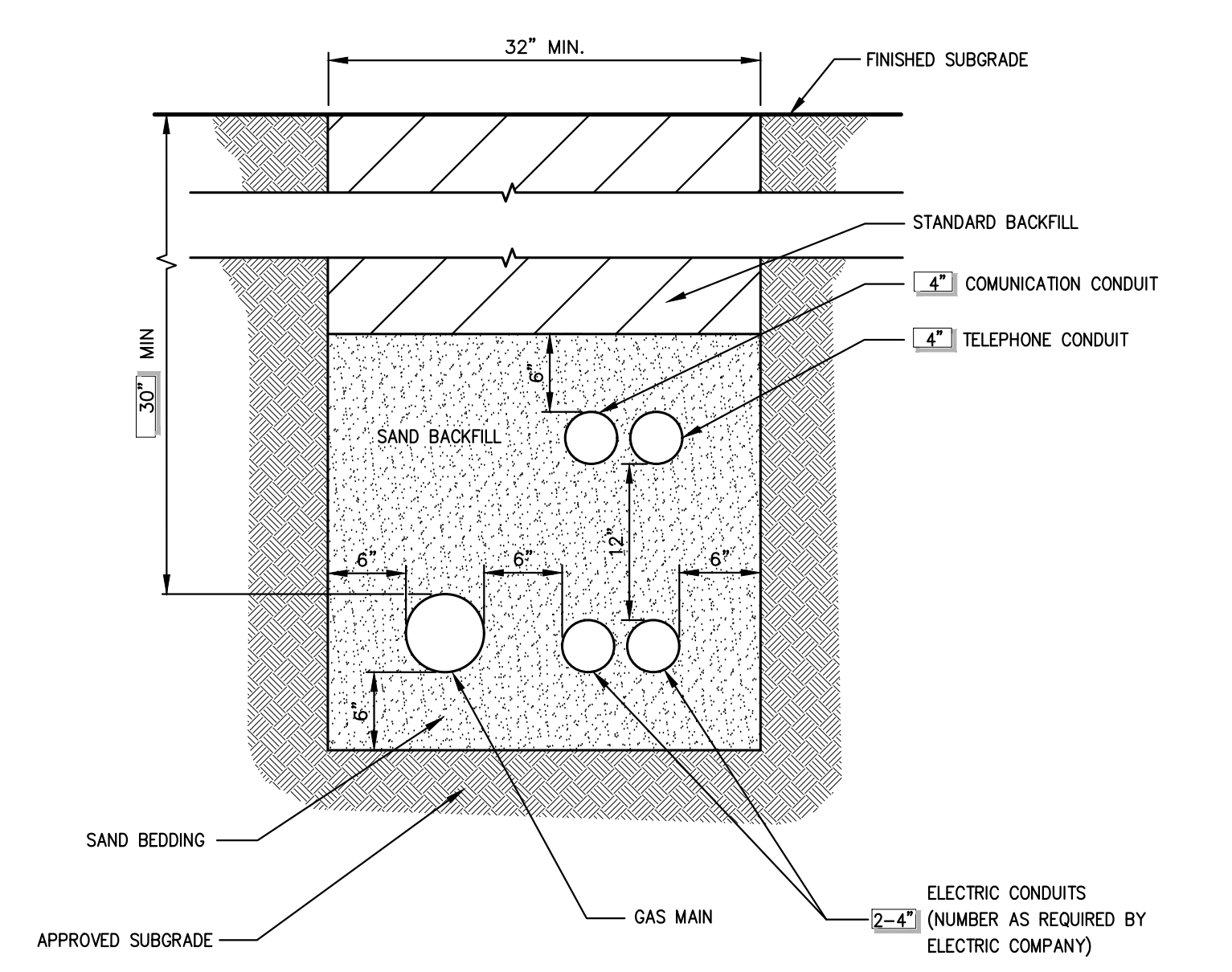
6



- NOTES:
1. FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
 - A. EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
 - B. 3/4" CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
 2. TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
 - A. FOR ALL CORRUGATED POLYETHYLENE DRAIN PIPE (CPDP) AND PVC PIPE AND CONDUIT INSTALLATION.
 - B. WHEN ROCK OR HARDSPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
 - C. 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.
 3. 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.
 4. 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



- 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.

UTILITY TRENCH DETAIL

8

NOT FOR CONSTRUCTION

APPLICANT/OWNER: **RAMLAND HOLDINGS, LLC**
 96 FRENEAU AVENUE
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ARCHITECT: **MICHELLE DROLETTE ARCHITECT, LLC**
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Revision: **REVISED PER PRC COMMENTS**

Date: **03/31/2023**

By: **BD**

No. **1**

Scale: **NOT TO SCALE**

Date: **10/18/2022**

Project No: **13016**

JMC-SEMS: **C-900**

Drawing No: **C-900**

Drawn: **RR** Approved: **BD**

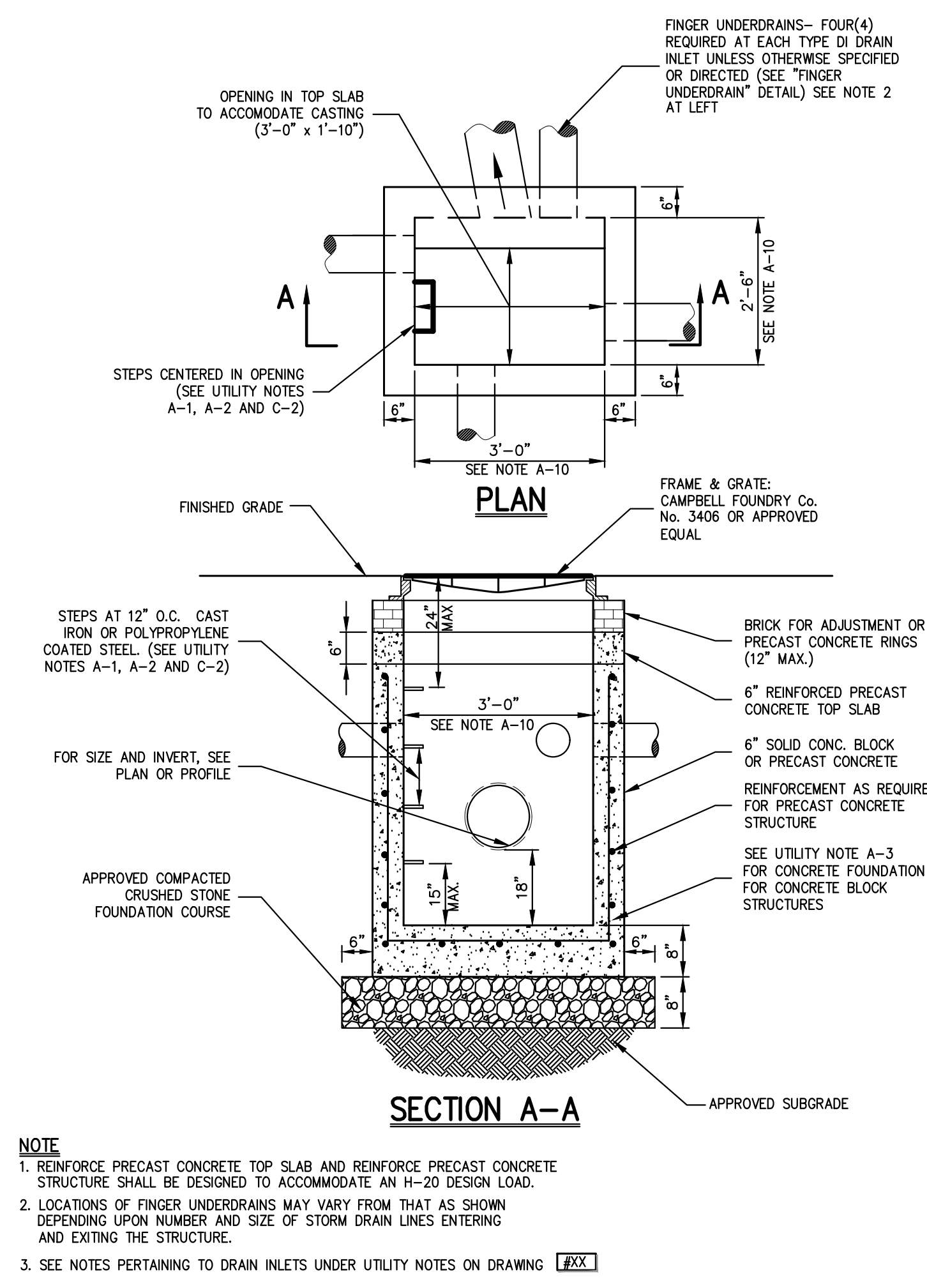
CONSTRUCTION DETAILS

DATA CENTER BUILDING EXPANSION

1 RAMLAND ROAD

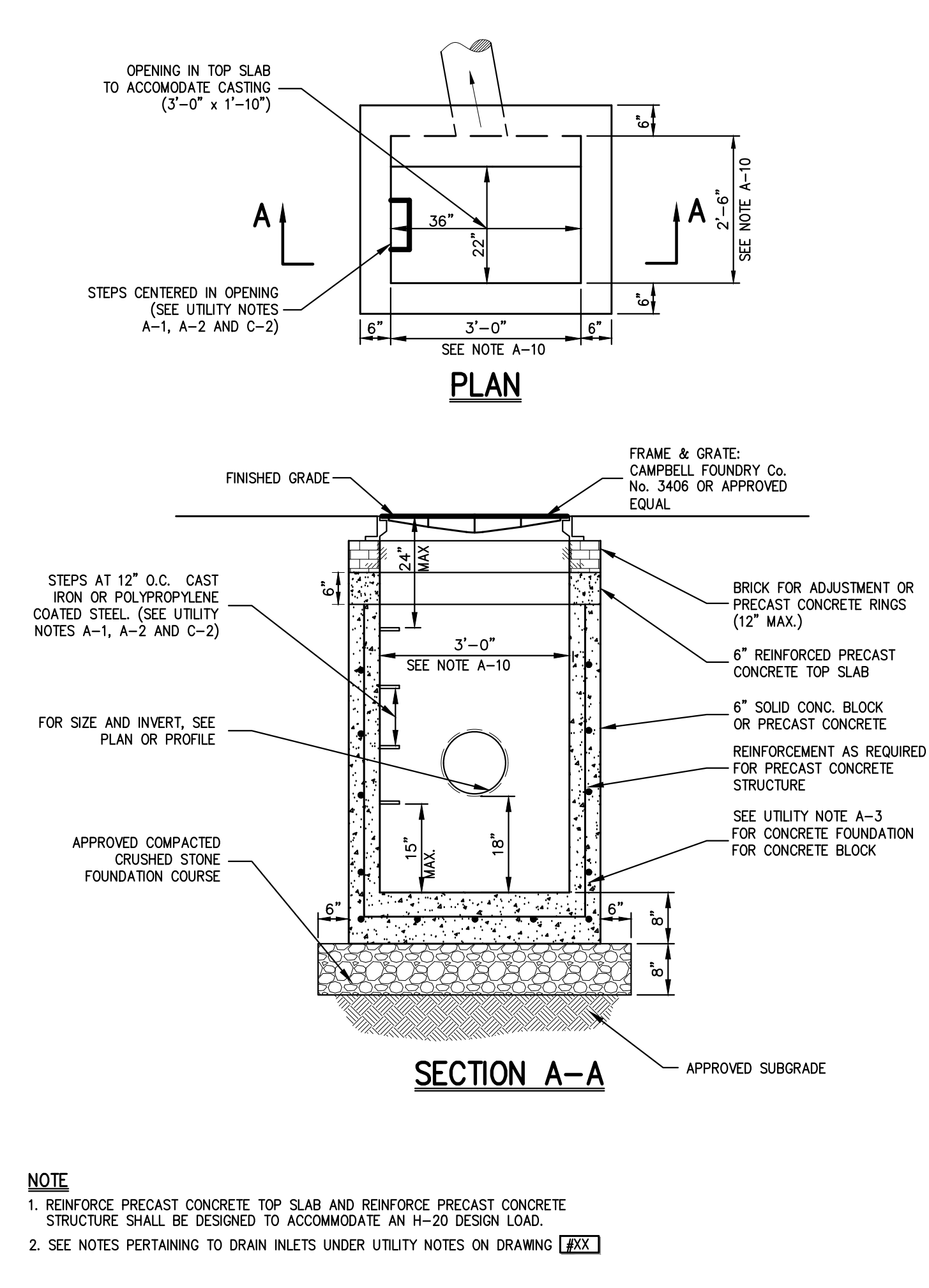
TOWN OF ORANGE TOWN, NEW YORK

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DRAIN INLET (TYPE DI)
(with sump-with finger underdrains)

9



DRAIN INLET (TYPE DI)
(with sump-w/o finger underdrains)

10

NOTES PERTAINING TO DRAIN INLETS

A-1 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).

A-2 WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".

A-3 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"(4000 psi) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE OF THE STRUCTURE.

A-4 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.

A-5 ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIKKA-SET AS MANUFACTURED BY THE SIKKA CHEMICAL CORP.

A-6 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.

A-7 ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.

A-8 PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.

A-9 FOR MASONRY STRUCTURES GREATER THAN TEN (10) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.

A-10 FOR ALL STRUCTURES GREATER THAN TEN FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

NOTES PERTAINING TO MANHOLES

B-1 PRECAST CONCRETE MANHOLES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.

B-2 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 SUFFICIENT SIZE TO ACCOMMODATE MANHOLE CASTING.

B-3 FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.

B-4 TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.

B-5 INVERT CHANNELS FOR PRECAST CONCRETE MANHOLES SHALL BE CONSTRUCTED OF CONCRETE.

B-6 NOTES A-1, A-2, A-4, A-5, A-6 & A-7 UNDER "NOTES PERTAINING TO DRAIN INLETS" ABOVE SHALL APPLY TO MANHOLES.

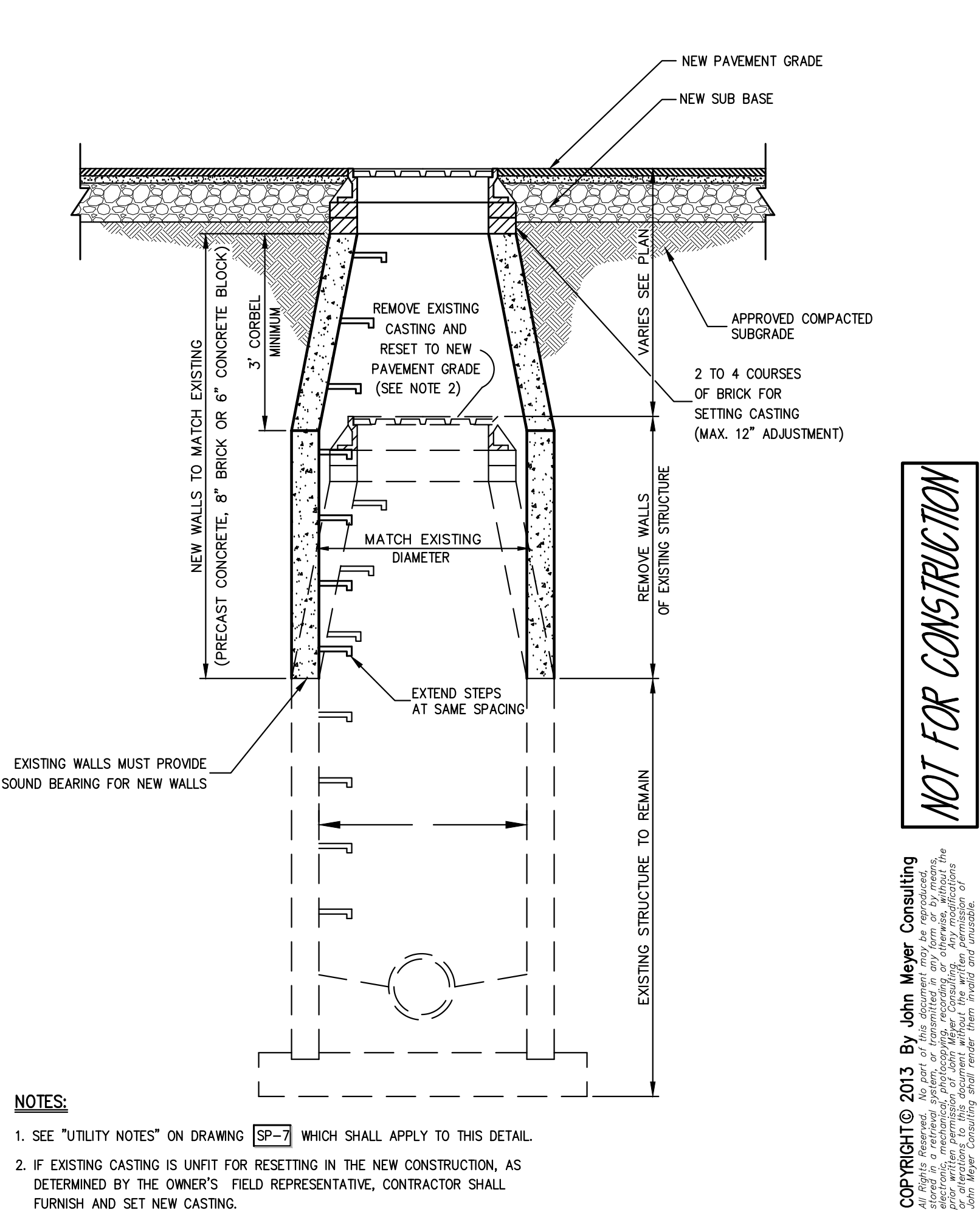
NOTES PERTAINING TO PRECAST CONCRETE STRUCTURES FOR STORM DRAINS, SANITARY SEWERS AND WATER LINES

C-1 ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.

C-2 STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES WHEN PRACTICABLE.

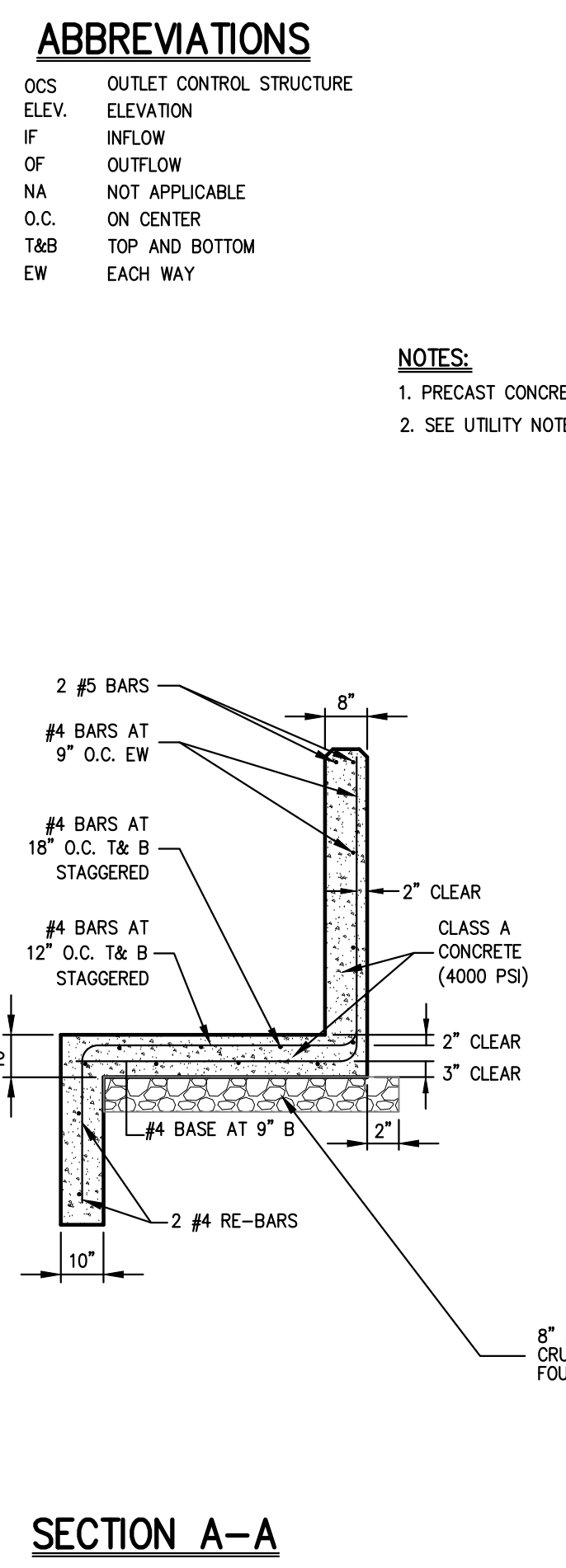
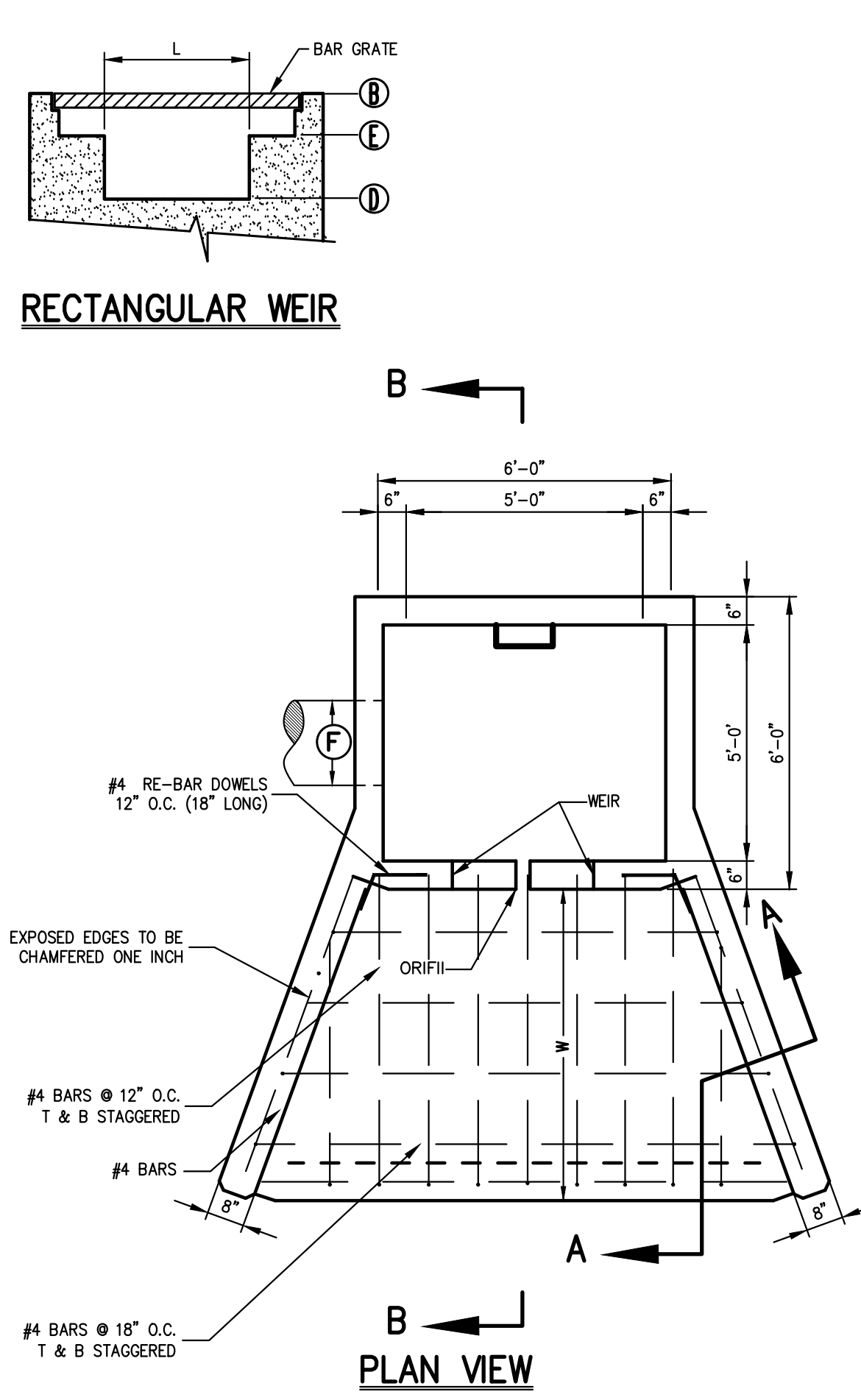
UTILITY NOTES

11



EXISTING MANHOLE RECONSTRUCTED AND RAISED

12

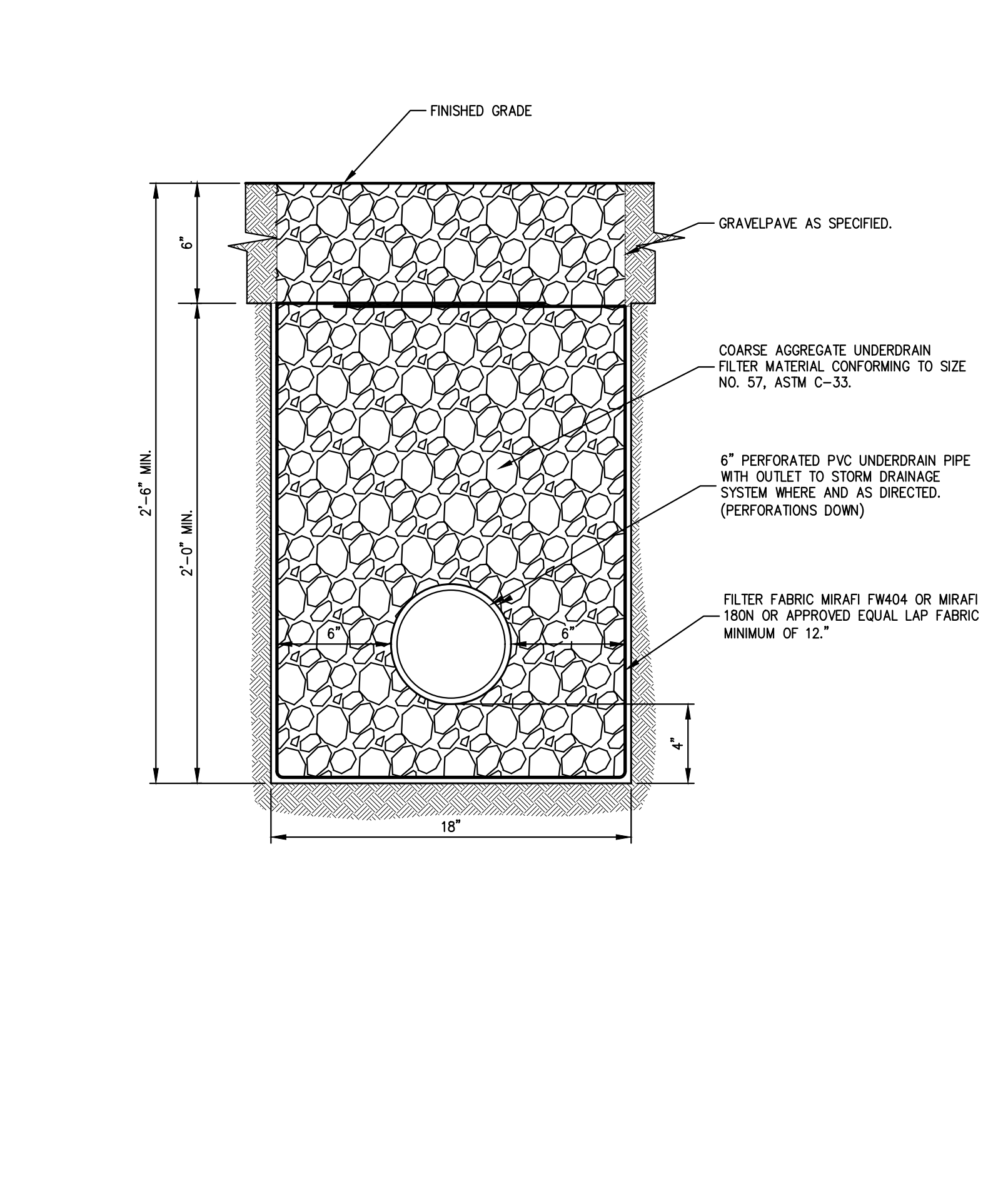


STRUCTURE CHART

BASIN No.	STRUCTURE No.	ELEV. GRADE (B)	PIPE/ORIFICE SIZE AND INVERT ELEVATION			WEIR TYPE	WEIR		H	W	
			PIPE OUTLET (F)	ORIFICE (A)	ORIFICE (C)		BOTTOM ELEV. (D)	TOP ELEV. (E)			LENGTH (L)
POND-1C	OCS-1C	83.50	15" Ø 78.00	1.70" Ø 80.10	1.20" Ø 80.60	RECTANGULAR	82.75	83.25	4.70'	6.5	5.50'

OUTLET CONTROL STRUCTURE
(Square)

13



PIPE UNDERDRAIN
(EXPOSED GRAVEL)

14

NOT FOR CONSTRUCTION

Application No. 1. REVISED PER PRC COMMENTS

Date: 03/31/2023

By: BD

Revision

Project No. 13016

Scale: NOT TO SCALE

Date: 10/18/2022

Project No. 13016

1306-GENS C-901

Drawing No. C-901

Client: RR

Approved: BD

Architect: MICHELLE DROLETTE ARCHITECT, LLC
129 EAST HIGH STREET
HELLERTOWN, PA 18055

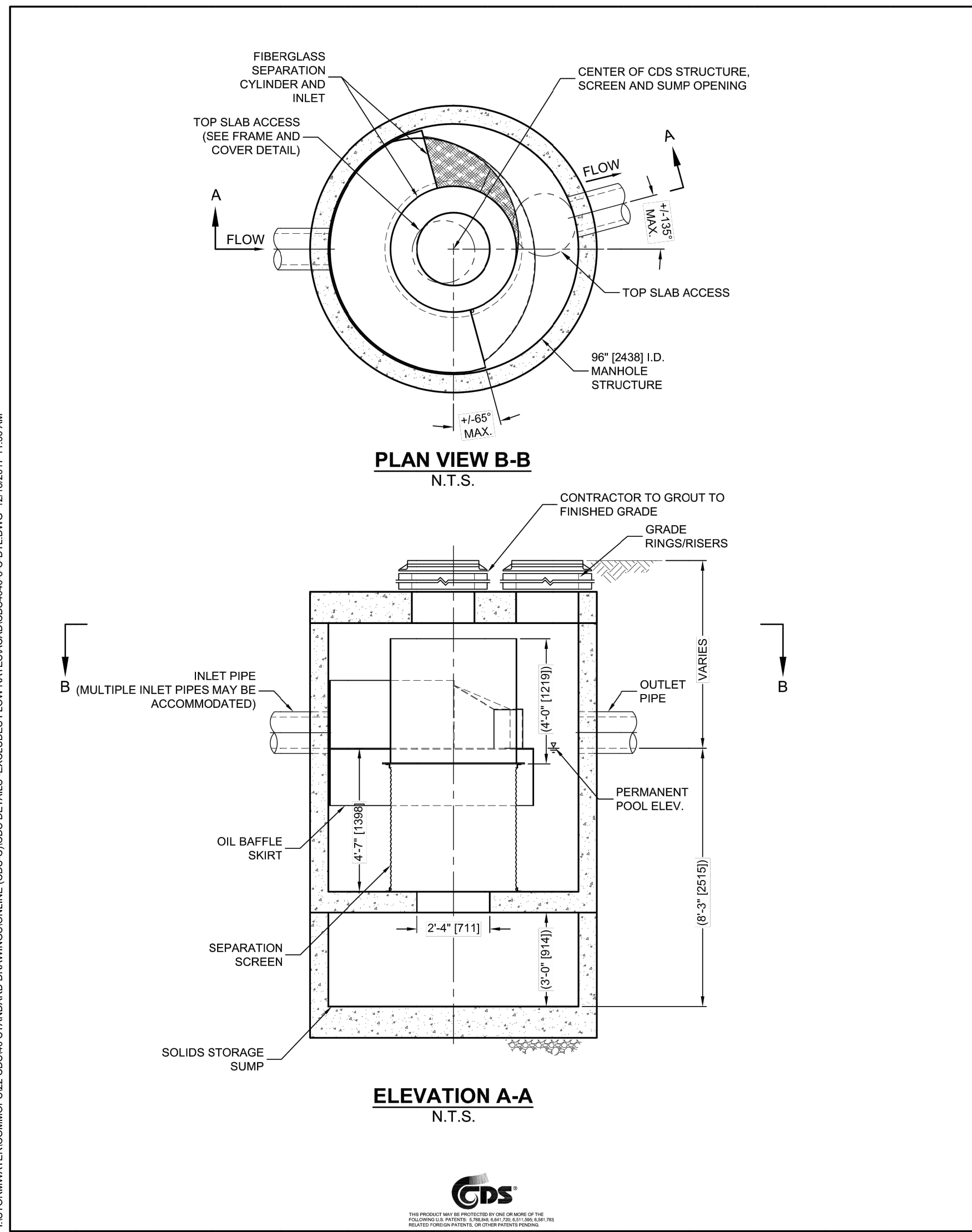
Architect: JIMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD - MIDDLETOWN, NY 10554
voice 914.473.8225 - fax 914.473.2102
www.jimcpllc.com

CONSTRUCTION DETAILS

DATA CENTER BUILDING EXPANSION

TOWN OF ORANGE TOWN, 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.



CDS4040-8-C DESIGN NOTES

THE STANDARD CDS4040-8-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES
- SEPARATE OIL BAFFLE/SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
- SEDIMENT WEIR FOR NUDEP/NUCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WATER QUALITY FLOW RATE (CFS OR L/S)	PEAK FLOW RATE (CFS OR L/S)	RETURN PERIOD OF PEAK FLOW (YRS)	SCREEN APERTURE (2400 OR 4700)

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT

NOTES/SPECIAL REQUIREMENTS:
* PER ENGINEER OF RECORD

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH (I) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET H20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

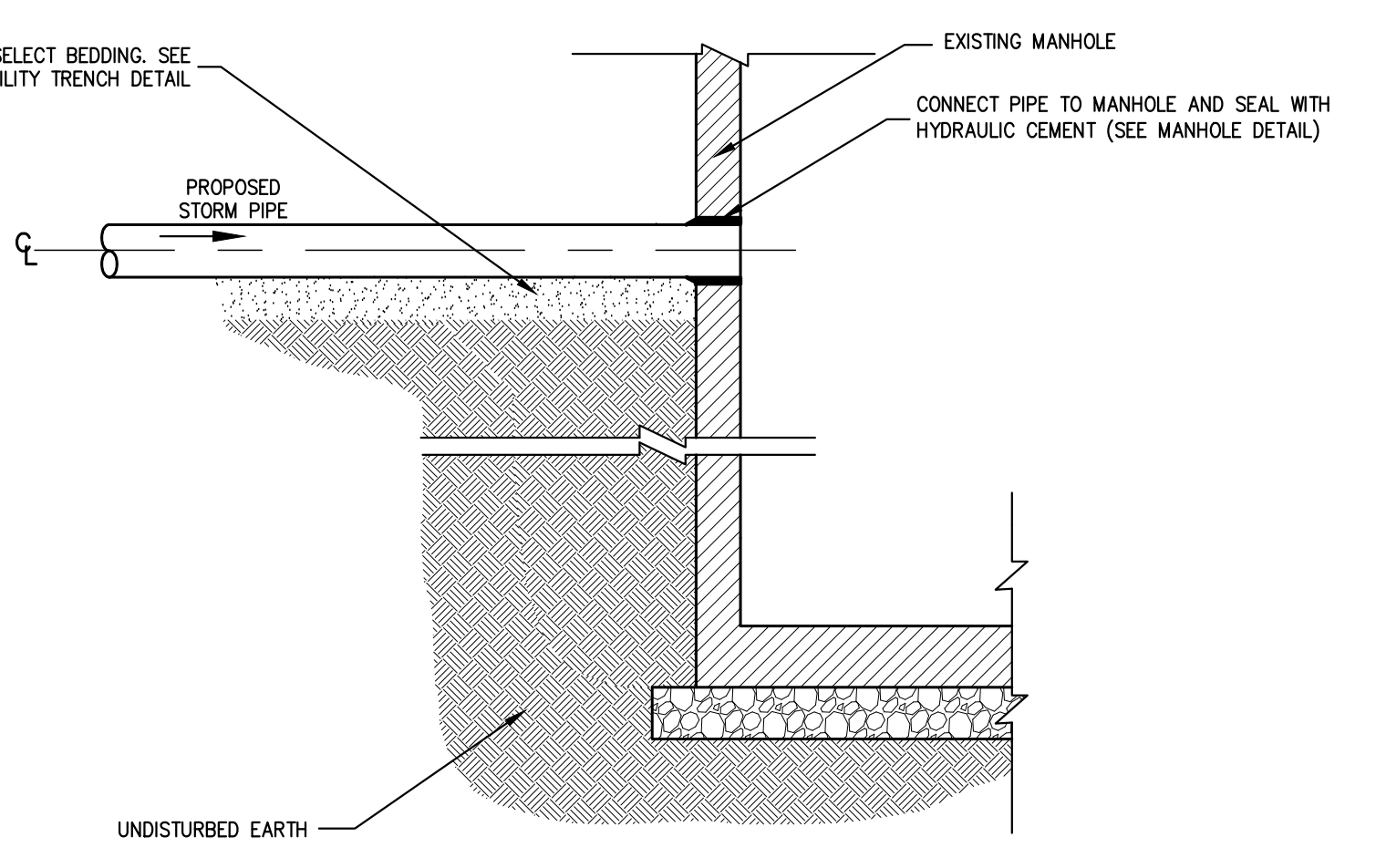
INSTALLATION NOTES

- ANY SUB-BASE, 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 CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45389
900-338-1122 613-945-7000 613-945-7993 FAX

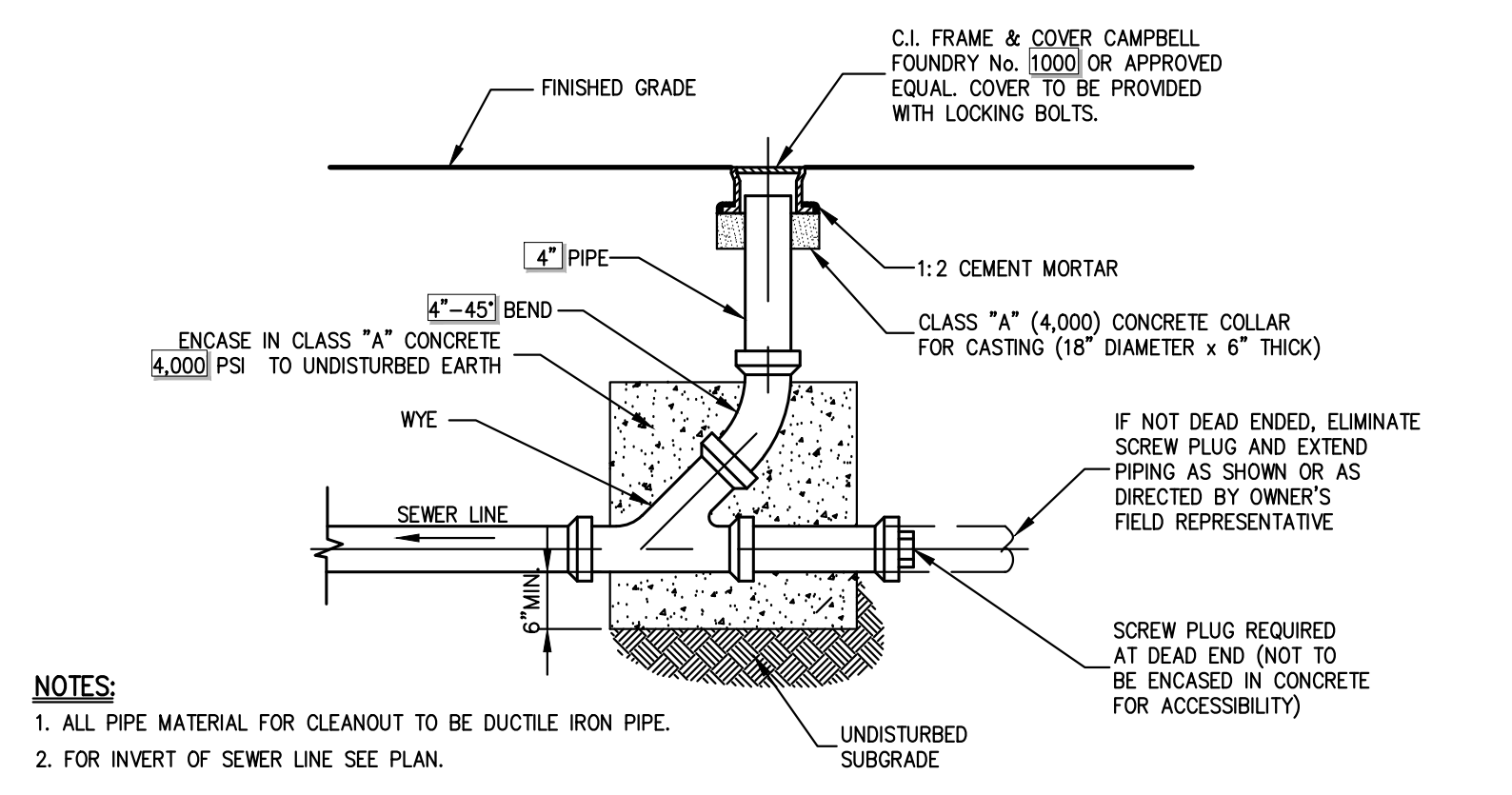
CDS4040-8-C
INLINE CDS
STANDARD DETAIL

NOT FOR CONSTRUCTION



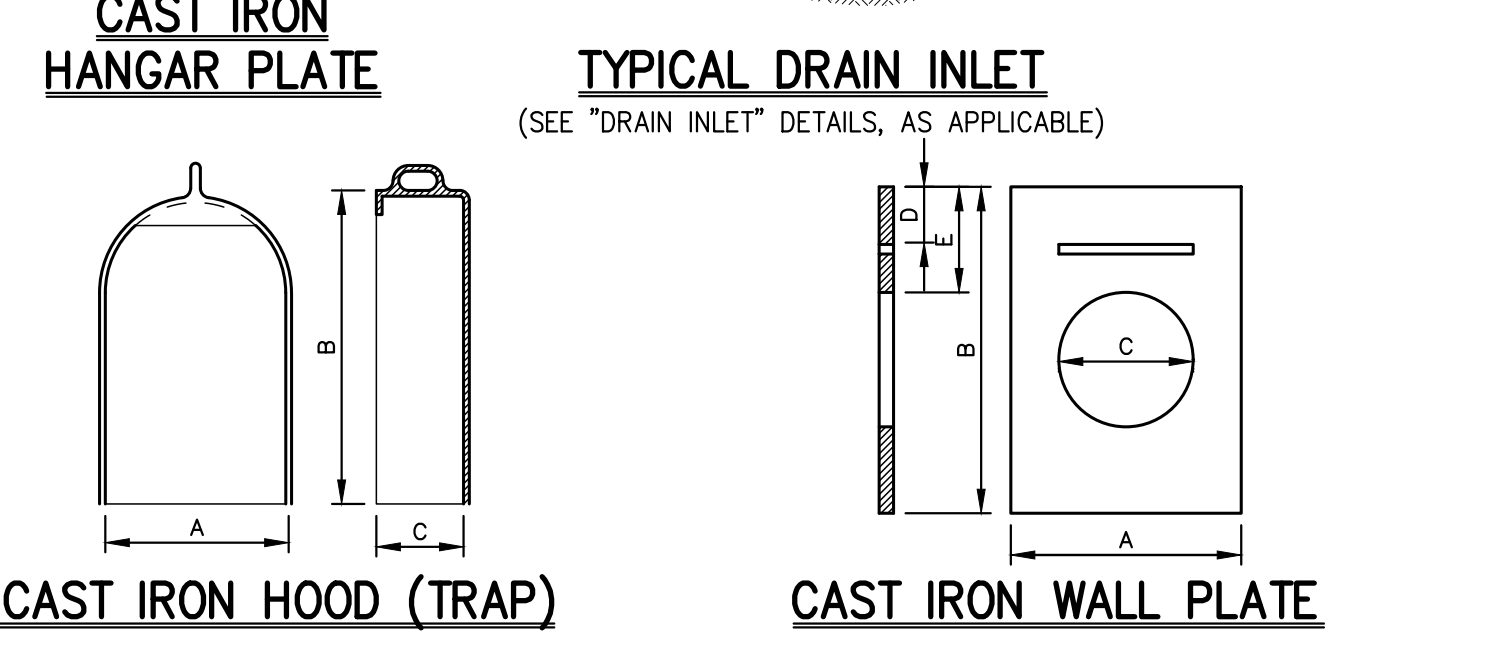
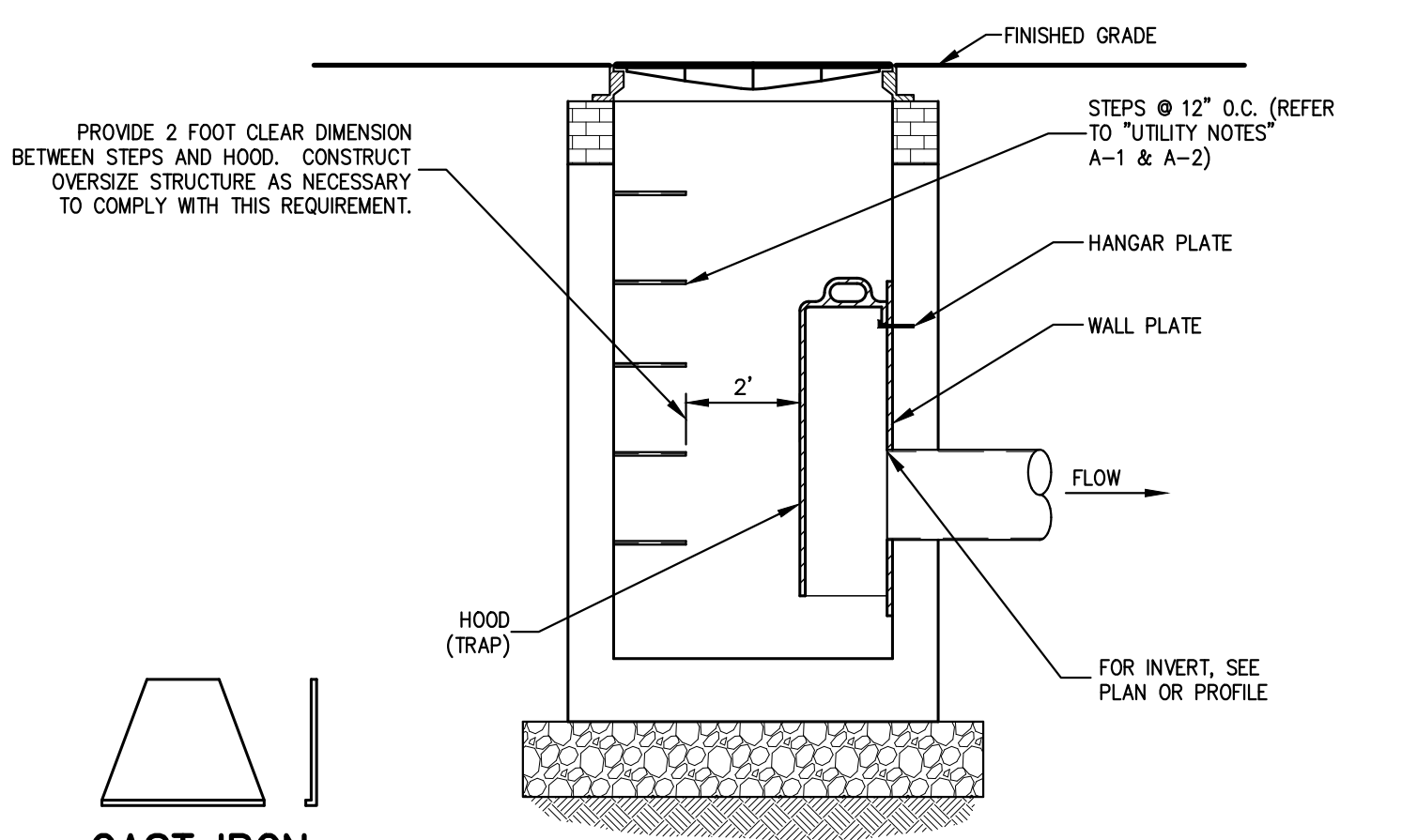
STORM PIPE CONNECTION AT EXISTING MANHOLE

18



CLEANOUT W/O MANHOLE

20



PATTERN NUMBER	A	B	C	PIPE SIZE
2560	9 1/2	16	4 1/2	6
2561	11 1/2	20 1/2	5 1/2	8
2562	13 1/2	23 1/2	6 1/2	10
2563	15 1/2	26	7 1/2	12
2564	18	27	8	15
2565	20 1/2	27	10	18
2566	22 1/2	30	11 1/2	21

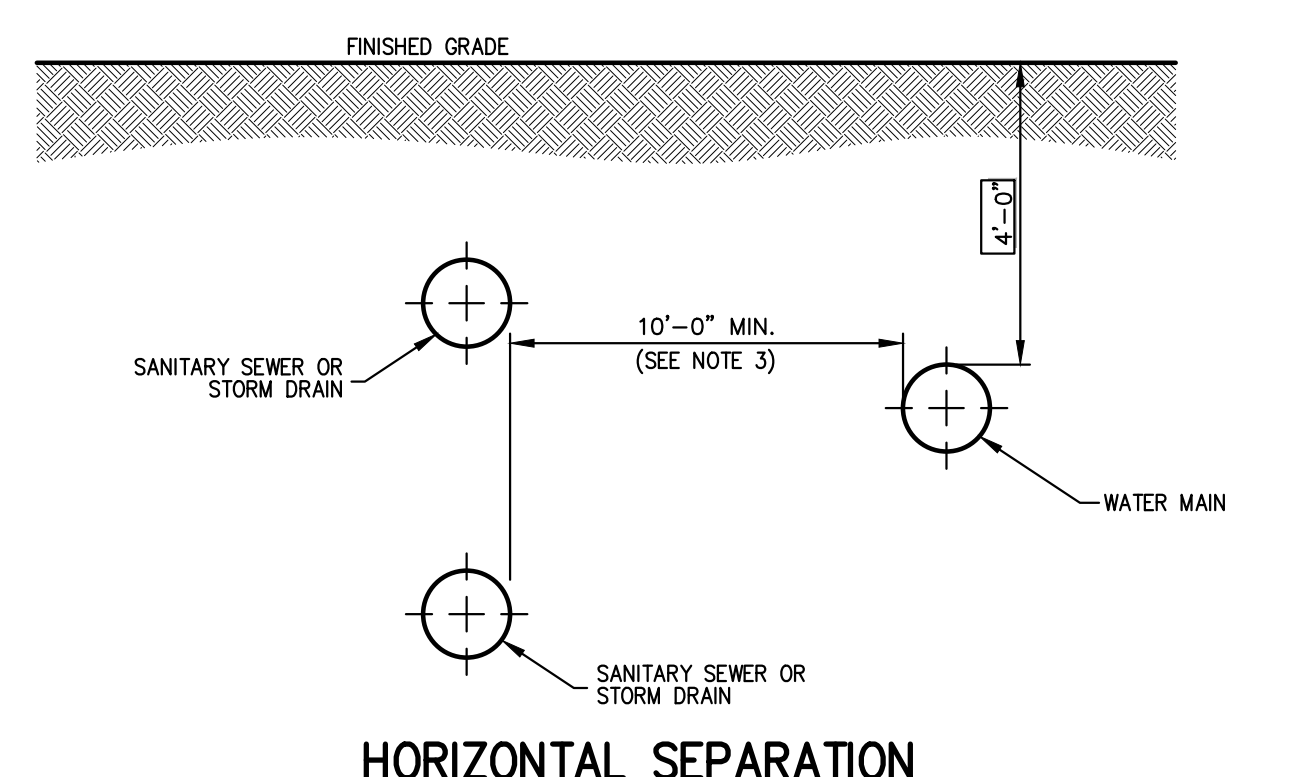
PATTERN NUMBER	A	B	C	D	E	PIPE SIZE
2560	210	13	22	8	3 1/2	6
2561	210	13	22	10	3 1/2	8
2562	210	15	23	12 1/2	3 1/2	10
2563	210	22	33	15	6	12
2564	210	33	39	19 1/2	5 1/2	15
2565	210	22 1/2	30 1/2	21	9	18
2566	210	30 1/2	42 1/2	24	6	21

NOTES:

- PATTERN NUMBERS SHOWN REFER TO CAMPBELL FOUNDRY COMPANY.
- CAST IRON HOOD (TRAP) SHALL BE FURNISHED WITH WALL PLATE AND HANGAR PLATE.

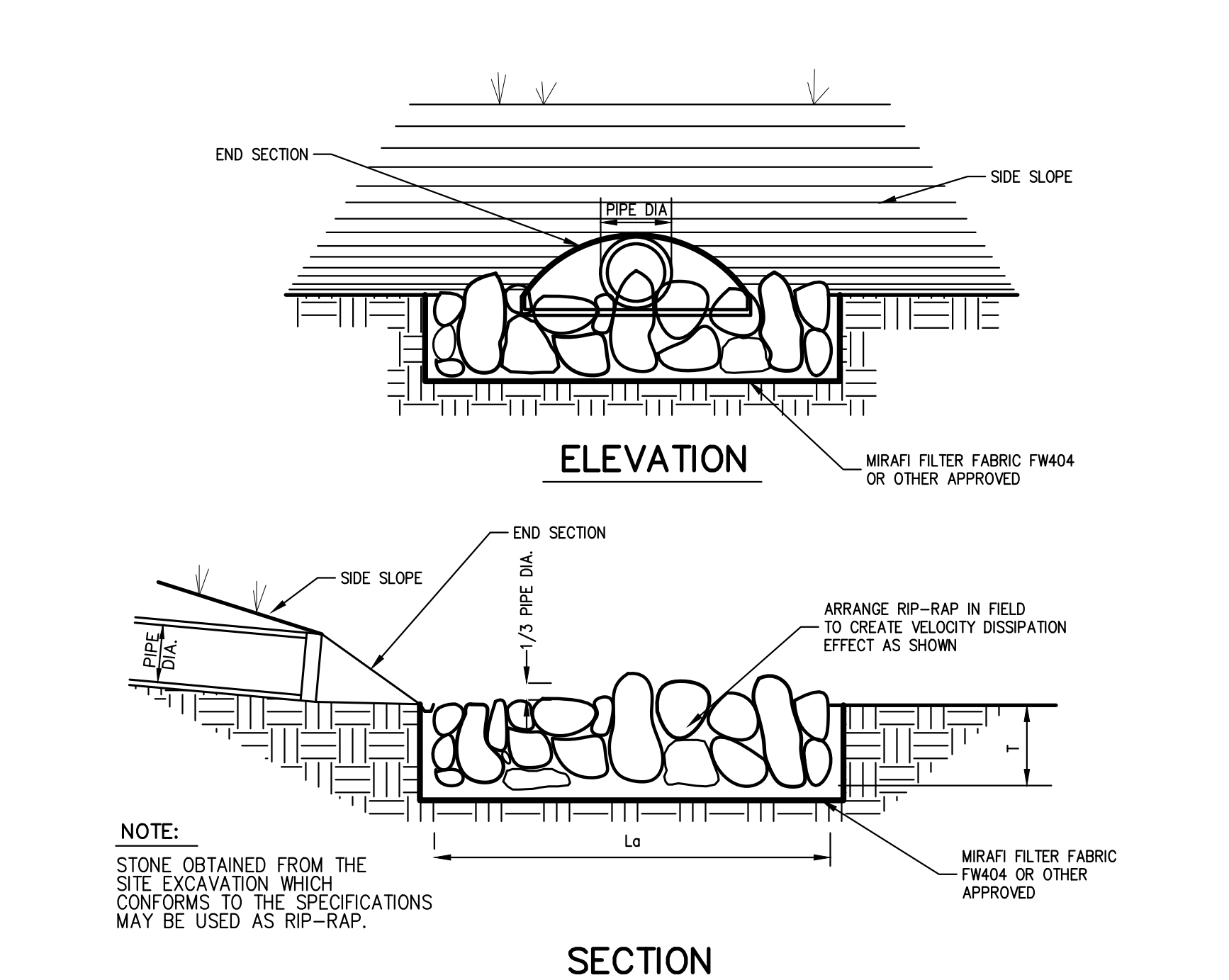
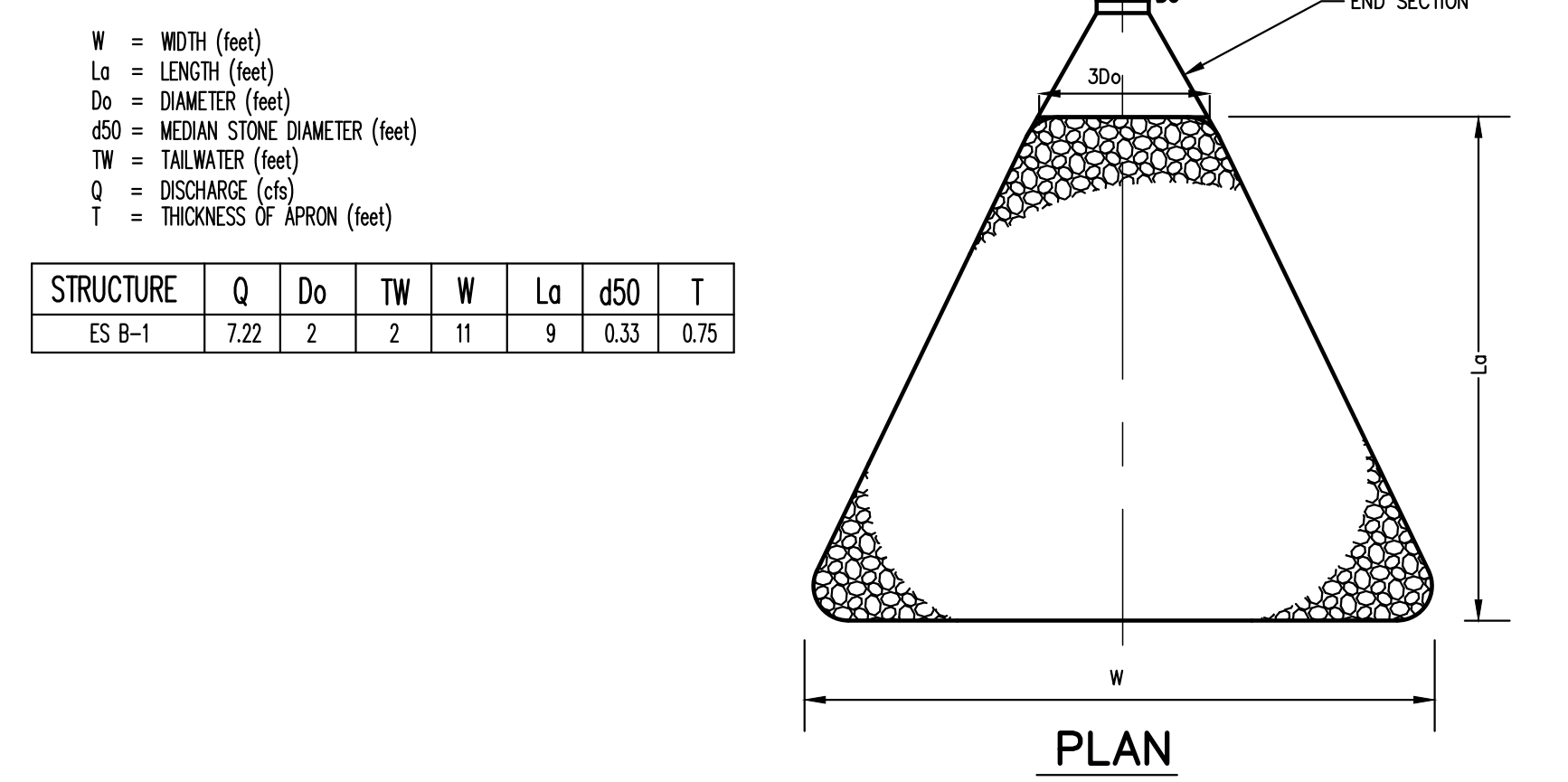
HOODED OUTLET (TRAP)

16



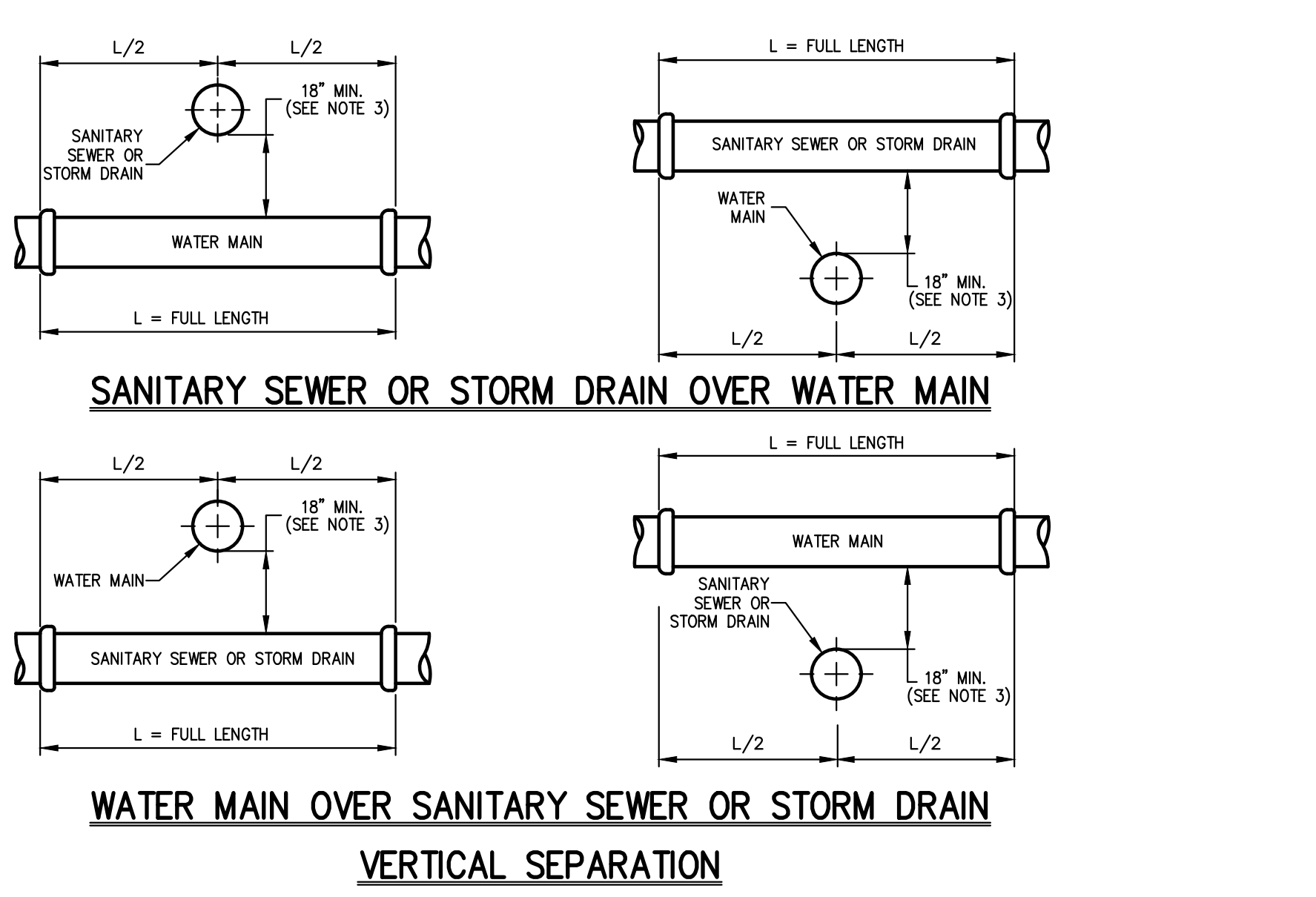
SEPARATION OF WATER AND SANITARY SEWER/STORM DRAIN LINES

20



RIP-RAP APRON/ENERGY DISSIPATOR

17



NOTES:

- NORMAL CONDITIONS:**
 - WHENEVER A WATER MAIN MUST CROSS OVER OR UNDER A SANITARY SEWER OR STORM DRAIN, THE PIPES SHALL BE LAID 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.
 - FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
- WATER MAIN CROSSING UNDER SANITARY SEWERS:**
 - VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED.
 - ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SANITARY SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING.
 - FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
- 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 JOHN MEYER CONSULTING OF THE SPECIFIC CONDITIONS ENCOUNTERED. APPROVAL OF ALTERNATIVE SEPARATION CRITERIA SHALL BE OBTAINED FROM THE] PRIOR TO INSTALLATION.

21

No.	Revision	Date
1.	REVISED PER PRC COMMENTS	03/31/2023

APPLICANT/OWNER:
RAWLAND HOLDINGS, LLC
96 FRENEAU AVENUE
MATATAWAN, NEW JERSEY 07747

ARCHITECT:
MICHELLE DROLETTE ARCHITECT, LLC
129 EAST HIGH STREET
HELLERTOWN, PA 18055

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
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JMC

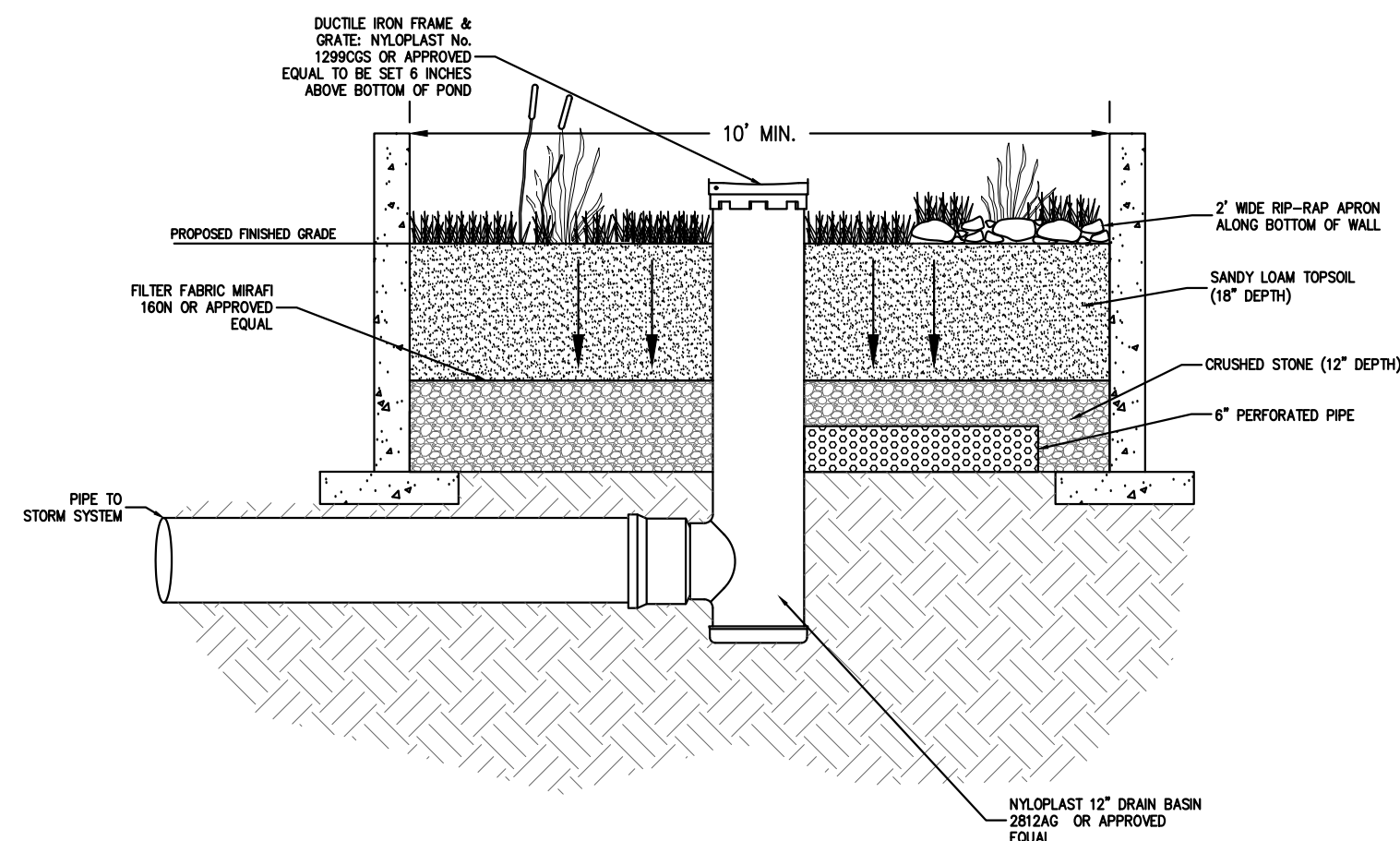
CONSTRUCTION DETAILS

DATA CENTER BUILDING EXPANSION

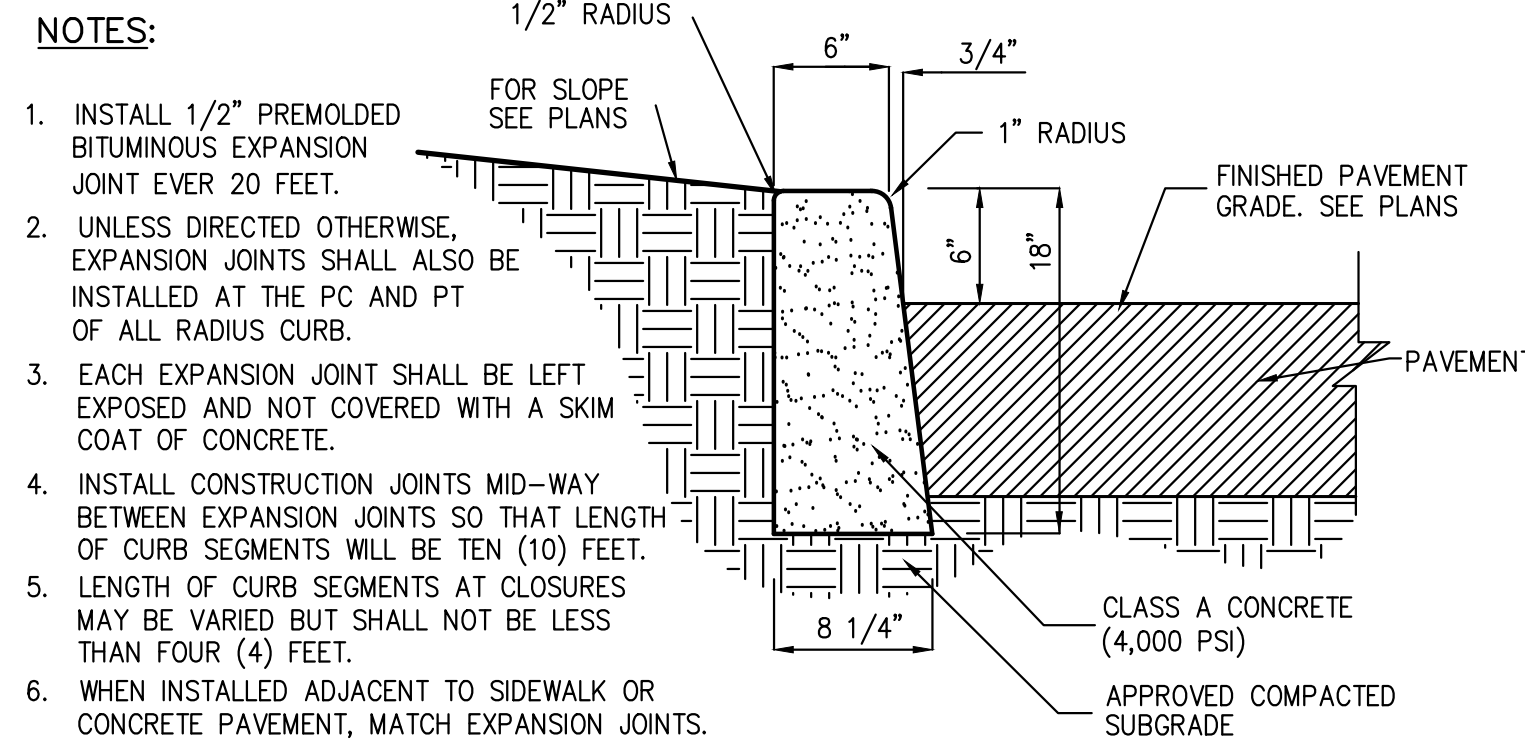
TOWN OF ORANGE TOWN, NEW YORK

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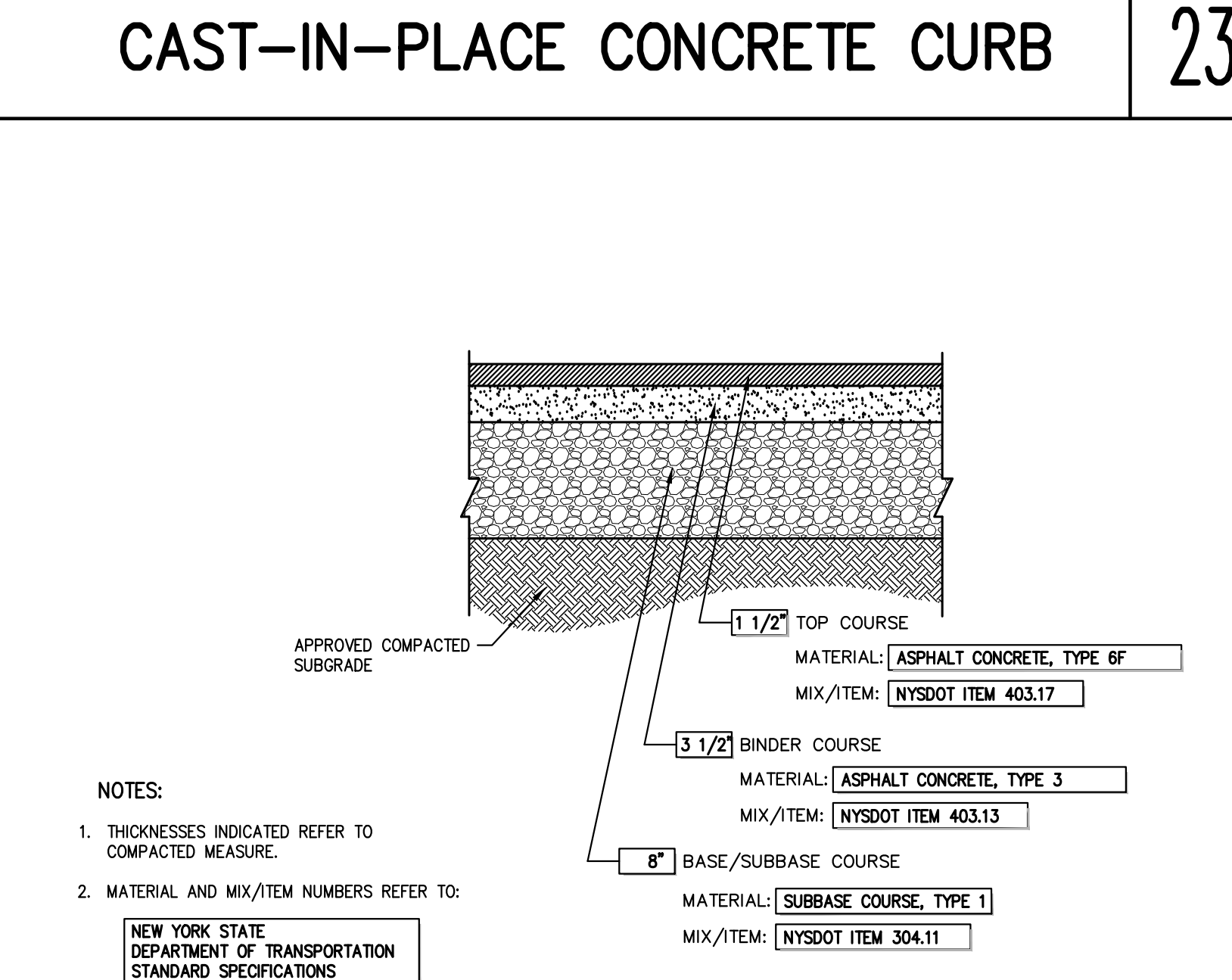
Client:	RR	Approval:	BD
Scale:	NOT TO SCALE		
Date:	10/18/2022		
Project No.:	13016		
1306-GENS	C-902	-	
Drawing No.:	C-902		



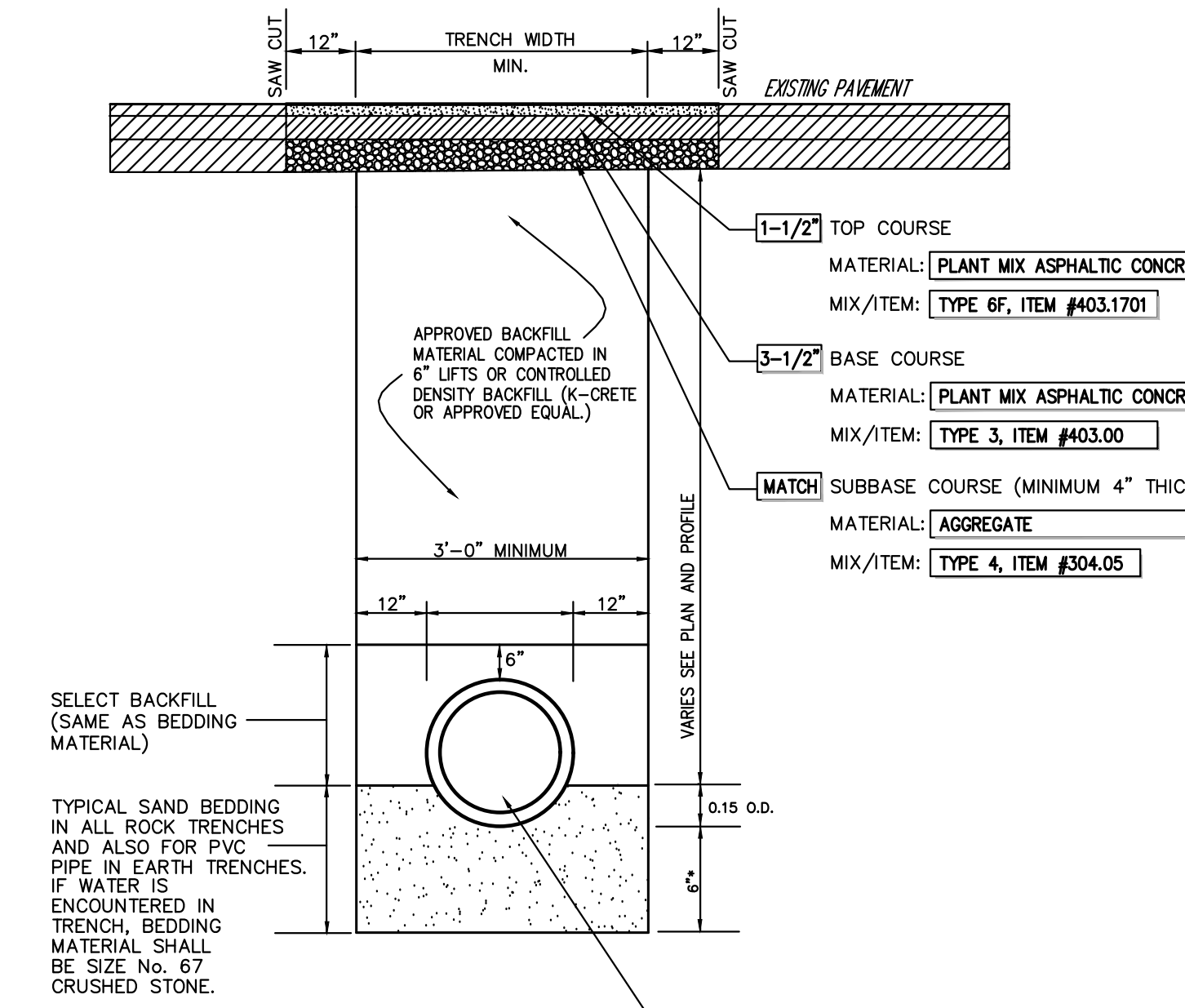
- NOTES:**
- FLOW-THROUGH AND INFILTRATION STORMWATER PLANTERS SHOULD NOT RECEIVE DRAINAGE FROM IMPERVIOUS AREAS GREATER THAN 15,000 SQUARE FEET.
 - INFILTRATION PLANTERS SHOULD BE LOCATED A MINIMUM DISTANCE OF TEN FEET FROM STRUCTURES.
 - RIP-RAP MUST BE PLACED BELOW DOWNSPOUTS OR WHERE STORMWATER ENTERS 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.



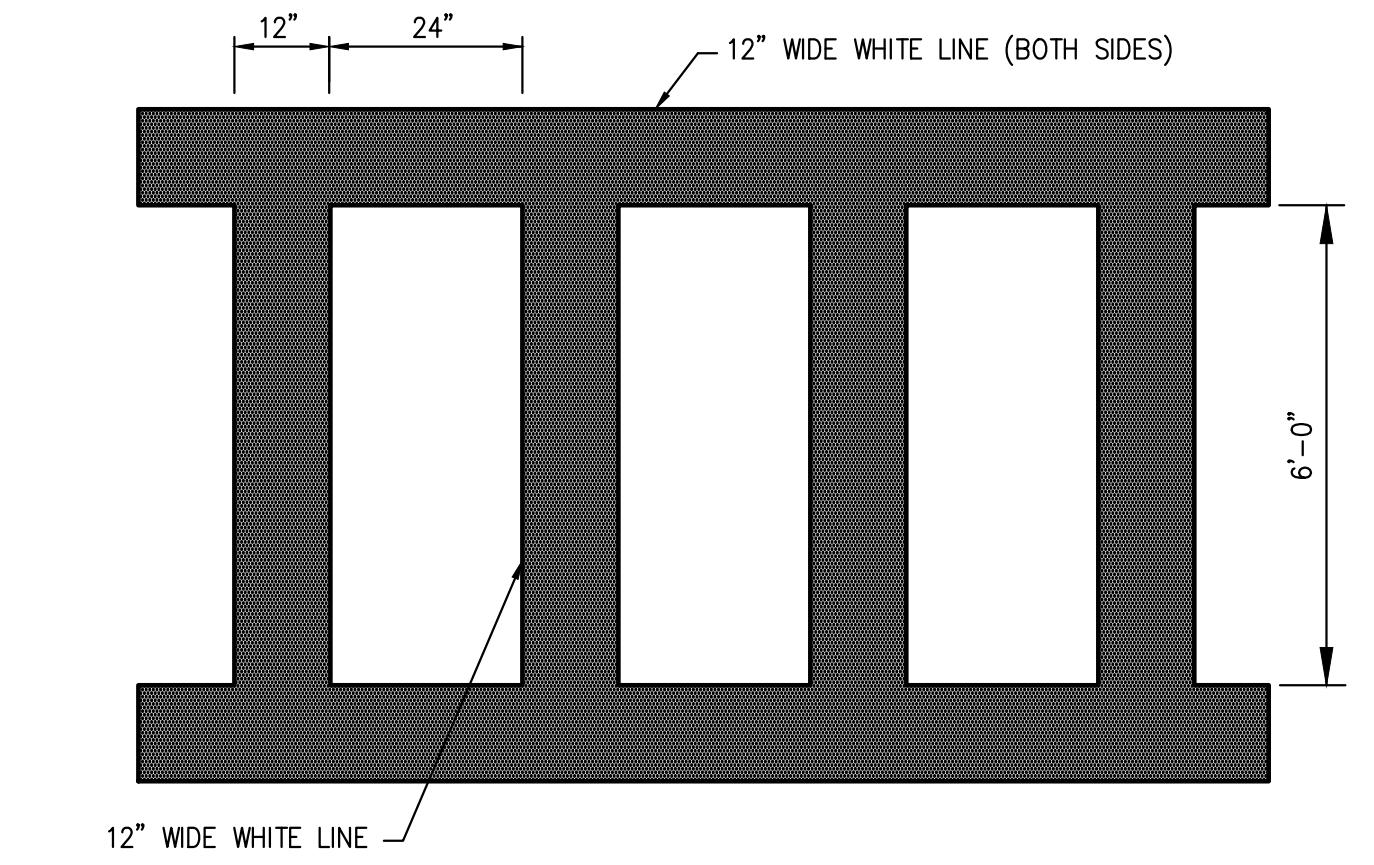
CAST-IN-PLACE CONCRETE CURB 23



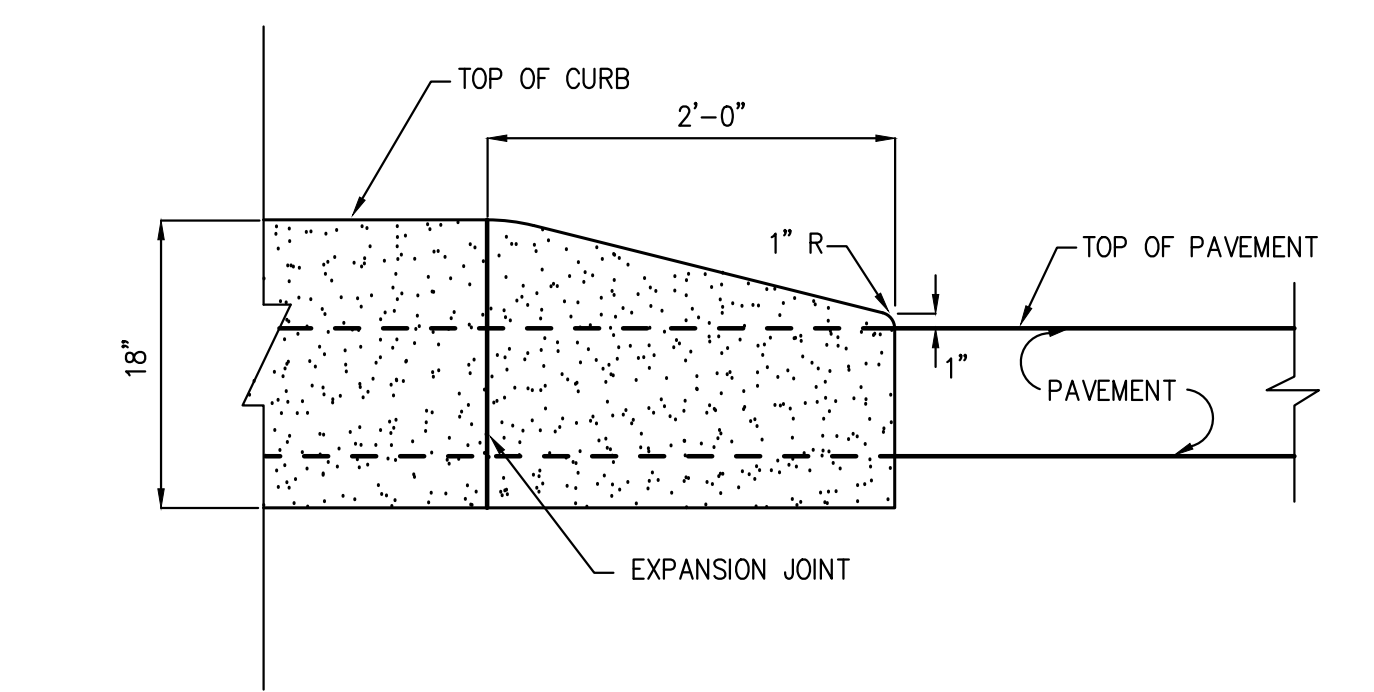
SITE PAVEMENT (Heavy Duty) 24



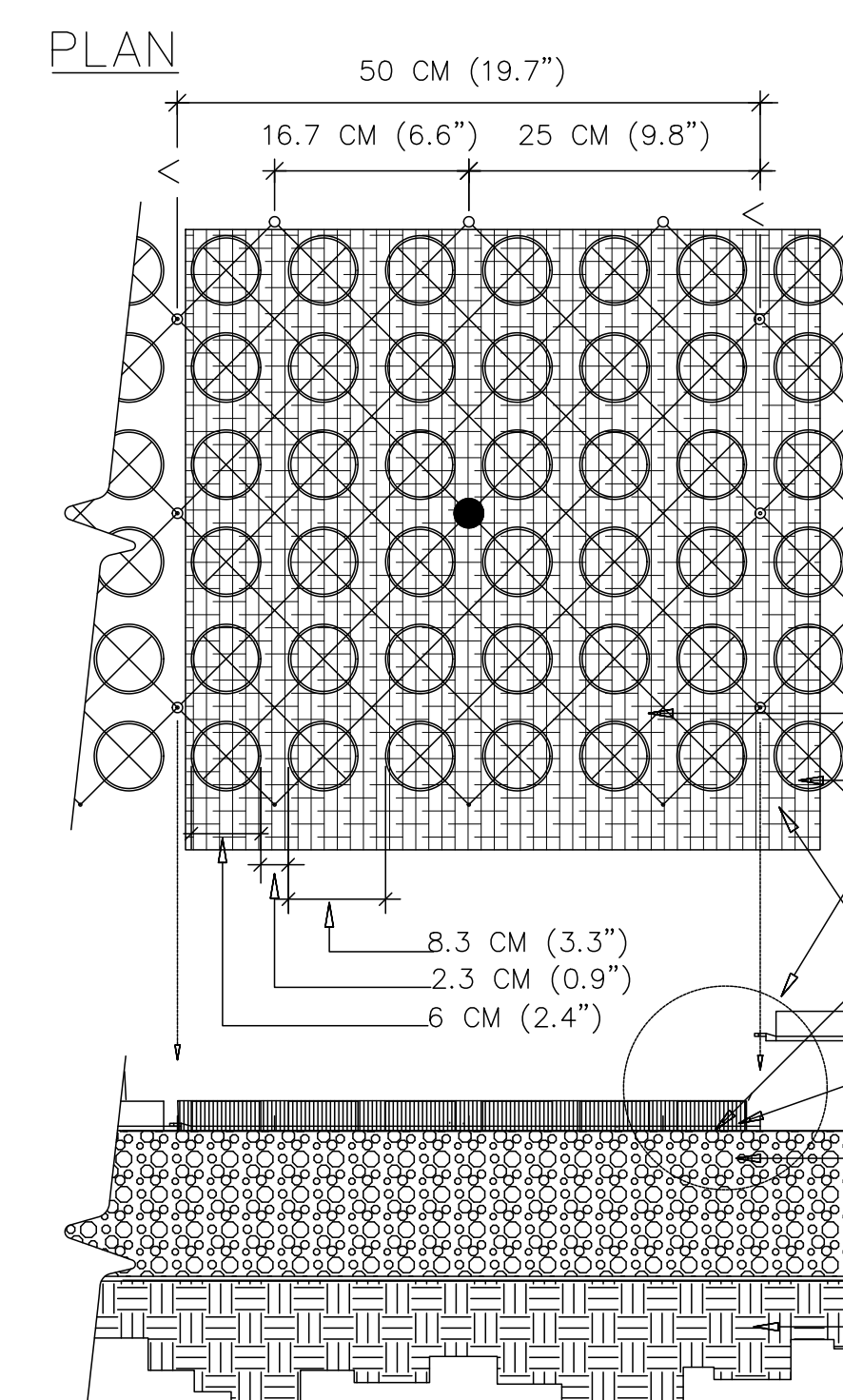
TRENCH PAVEMENT REPLACEMENT 25



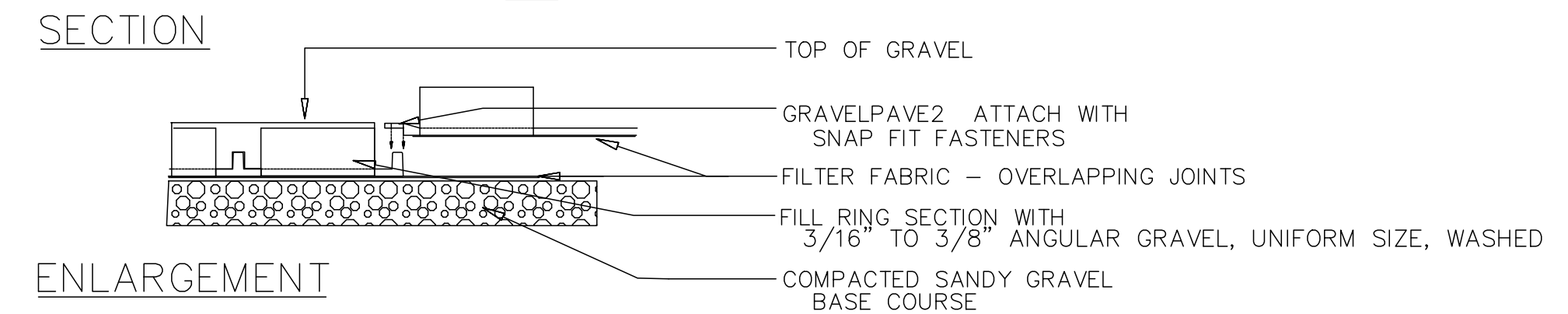
PEDESTRIAN CROSSING 26



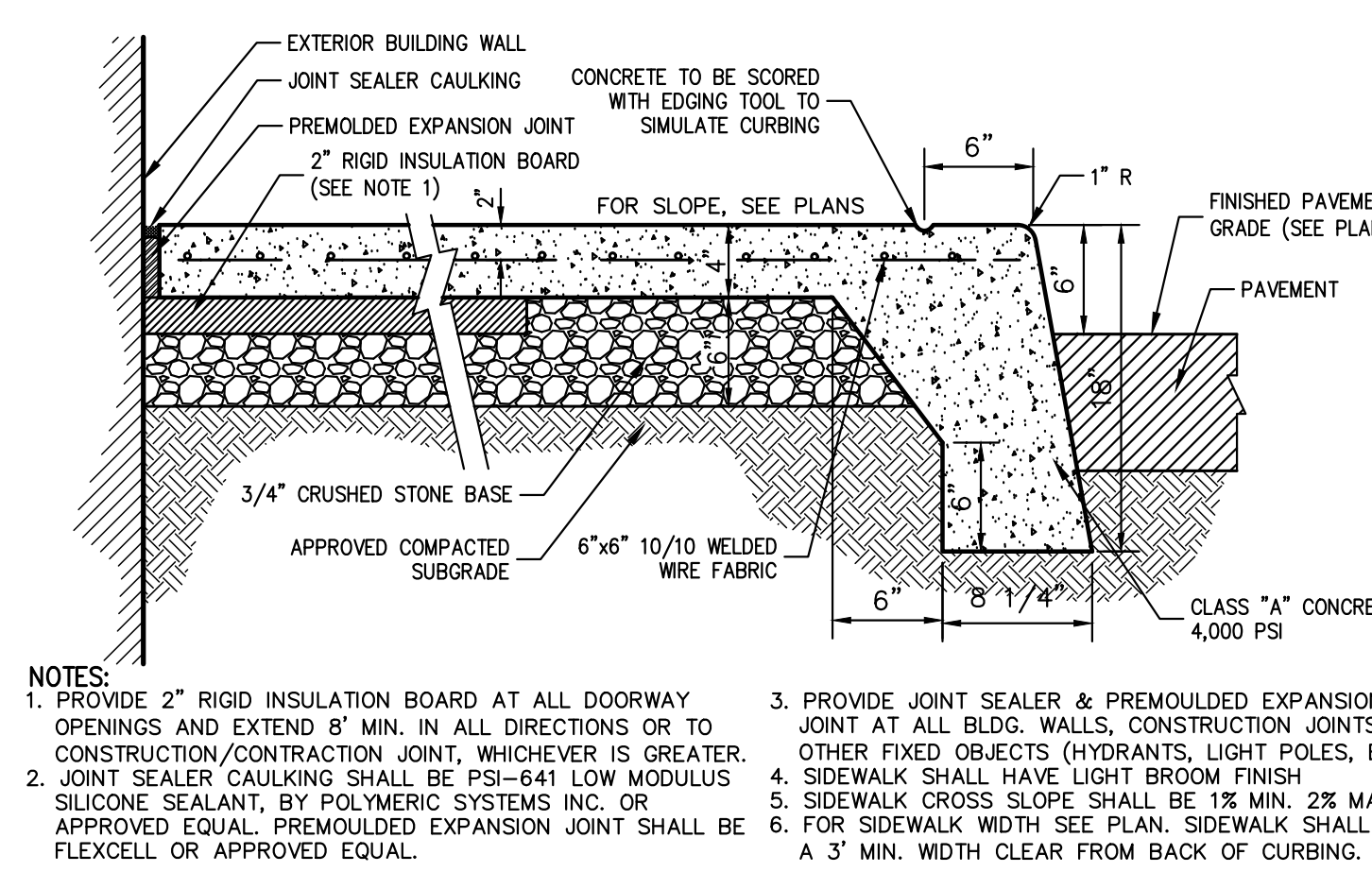
CONCRETE CURB ENDING 27



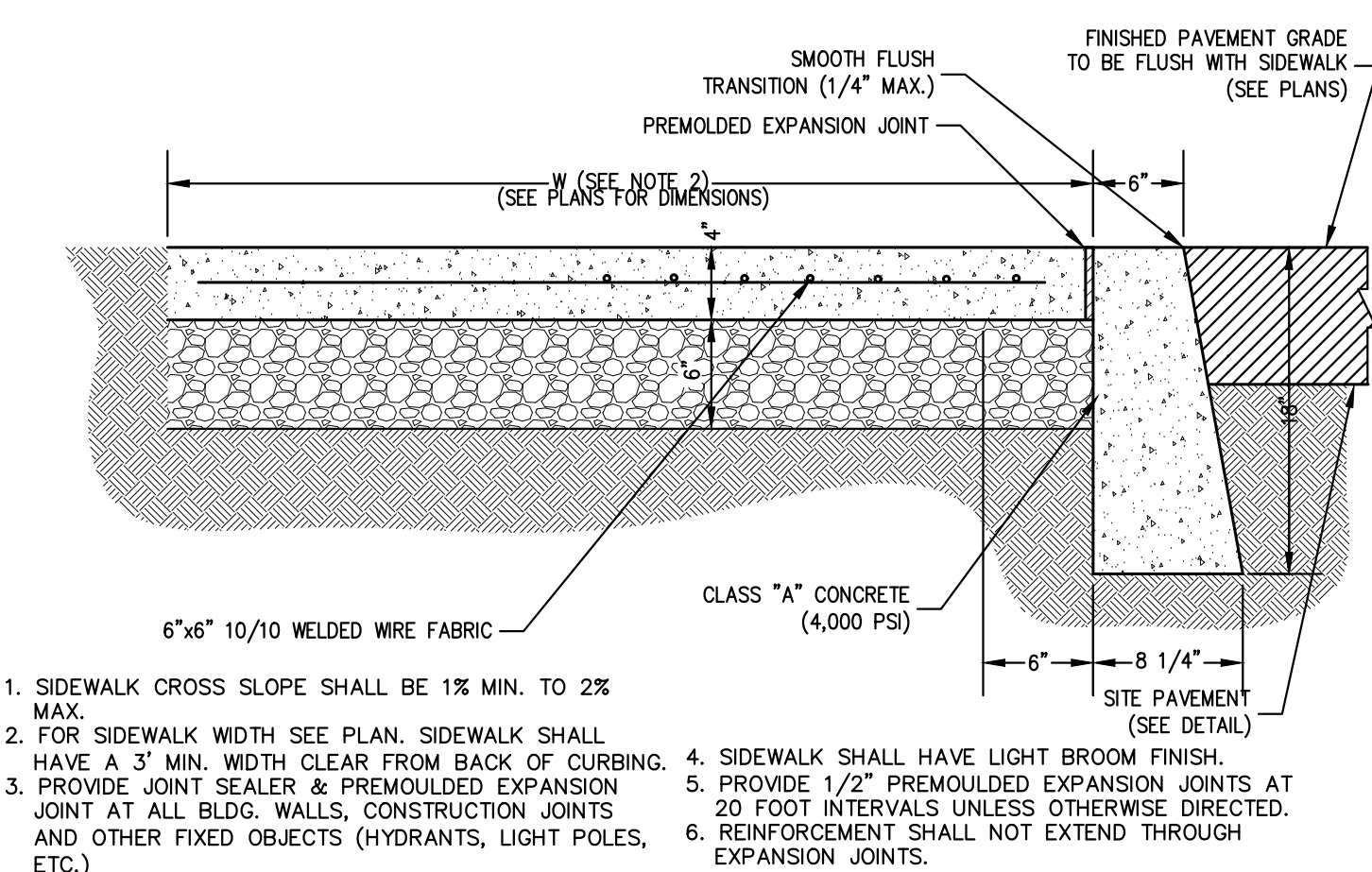
- SPECIFICATIONS**
- UNITS**
UNIT SIZE - 50 CM X 50 CM X 2.5 CM OR 1 M X 1 M X 2.5 CM (20" X 20" X 1" OR 40" X 40" X 1")
- AVAILABLE IN 9 STANDARD ROLL SIZES
- UNIT WEIGHT - 538 GRAMS (19 OZ.) OR 2.2 KG (4.8 POUNDS)
- STRENGTH - 1121 KG/GM (15,940 PSI)
- COLOR - BLACK (STANDARD)
- RESIN - 100% POST-CONSUMER RECYCLED HDPE
- FABRIC WEIGHT - 1.4 TO 1.7 OZ/SY(47-58 GM/M)
- TENSILE - 120 LB/FT (585 KG/M)
- FLOW - 275 GAL/MIN/SF (11,200 L/MIN/M)



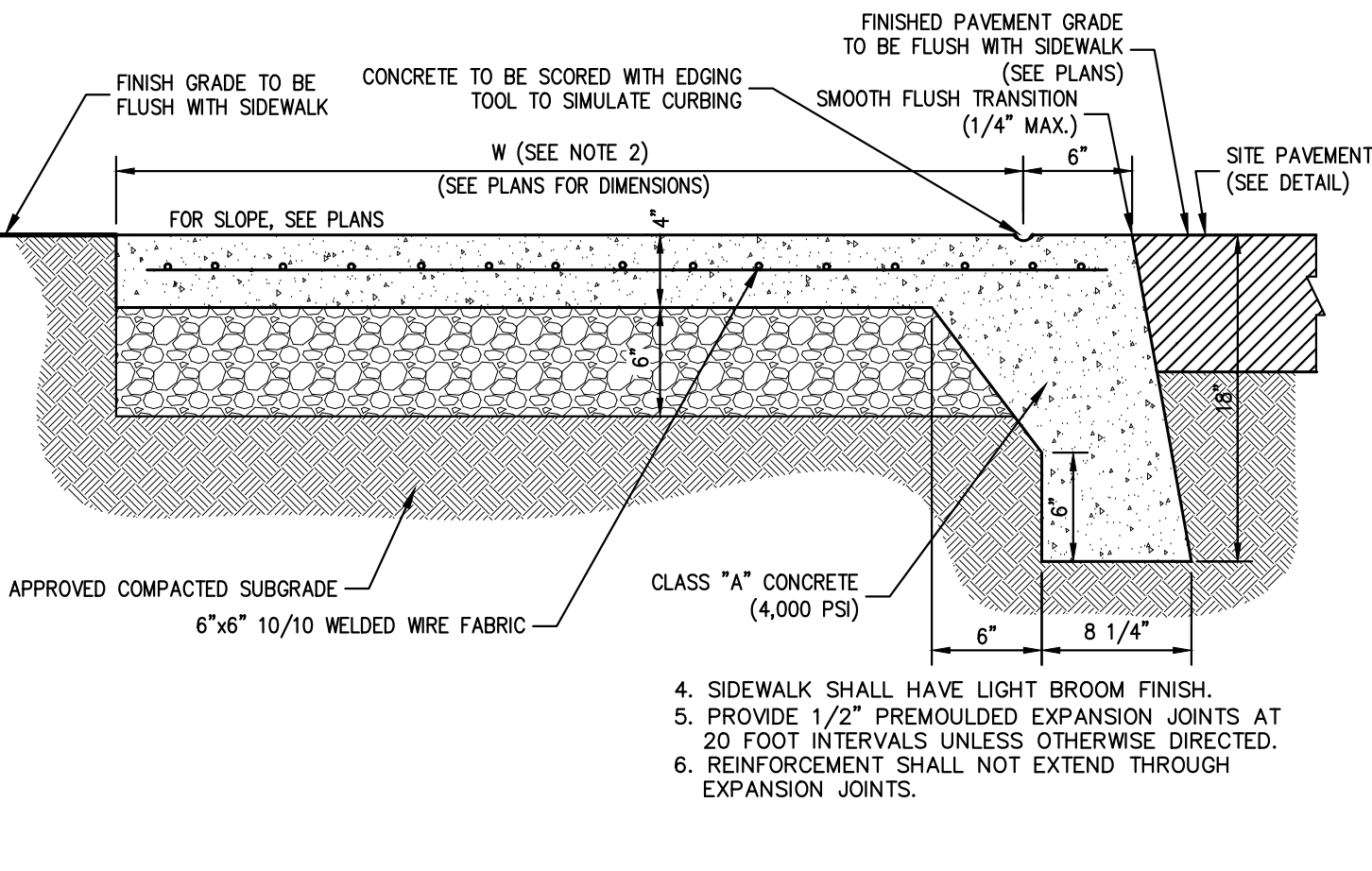
GRAVEL PAVE (GRAVELPAVE2) 28



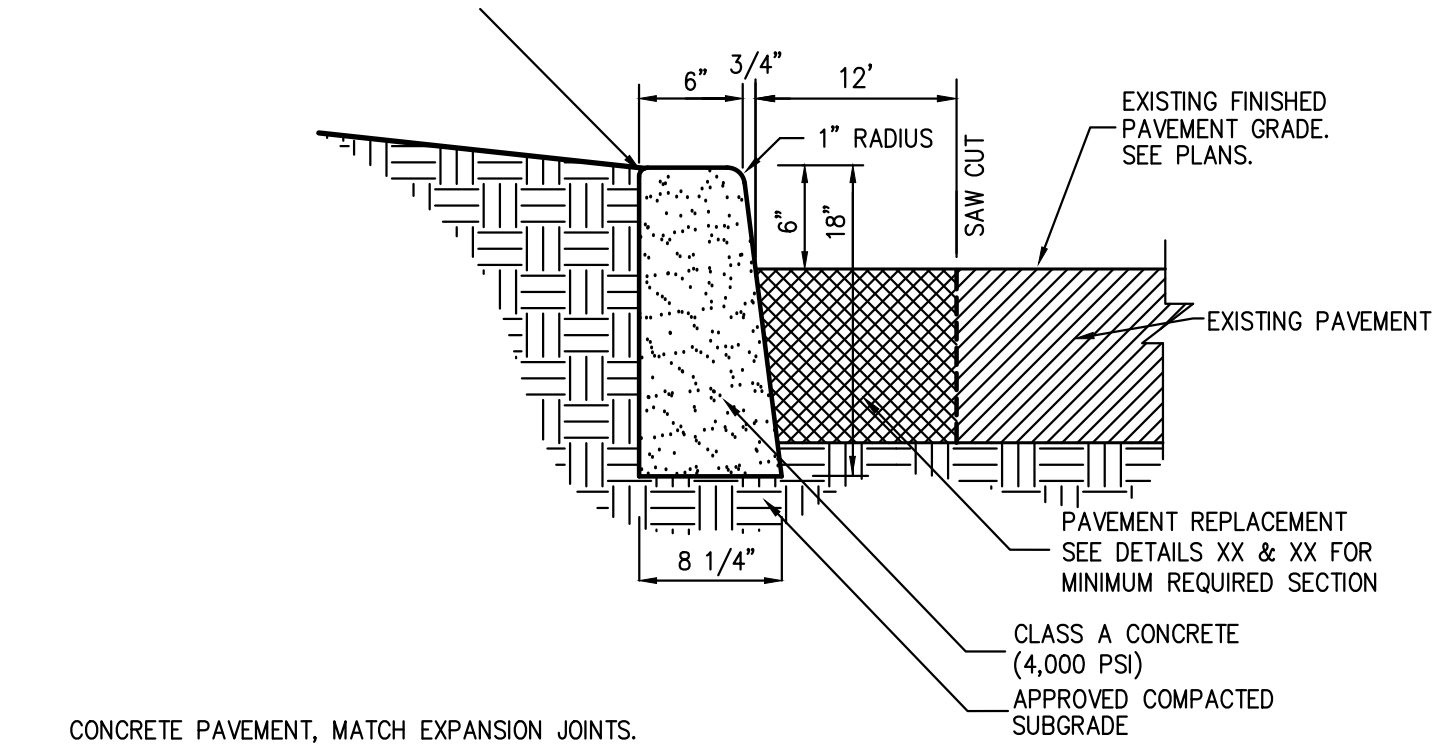
BUILDING PERIMETER MONOLITHIC CURB & SIDEWALK 29



CONCRETE FLUSH CURB AND SIDEWALK 31



MONOLITHIC CONCRETE FLUSH CURB AND SIDEWALK 30



CAST-IN-PLACE CONCRETE CURB (IN EXISTING PAVEMENT) 32

NOT FOR CONSTRUCTION

No.	Revision	Date
1.	REVISED PER PRC COMMENTS	03/31/2023
		BD

APPLICATION/OWNER: **RAWLAND HOLDINGS, LLC**
86 FRENEAU AVENUE
MATTAWAN, NEW JERSEY 07747

ARCHITECT: **MICHELLE DROLETTE ARCHITECT, LLC**
129 EAST HIGH STREET
HELLERTOWN, PA 18055

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

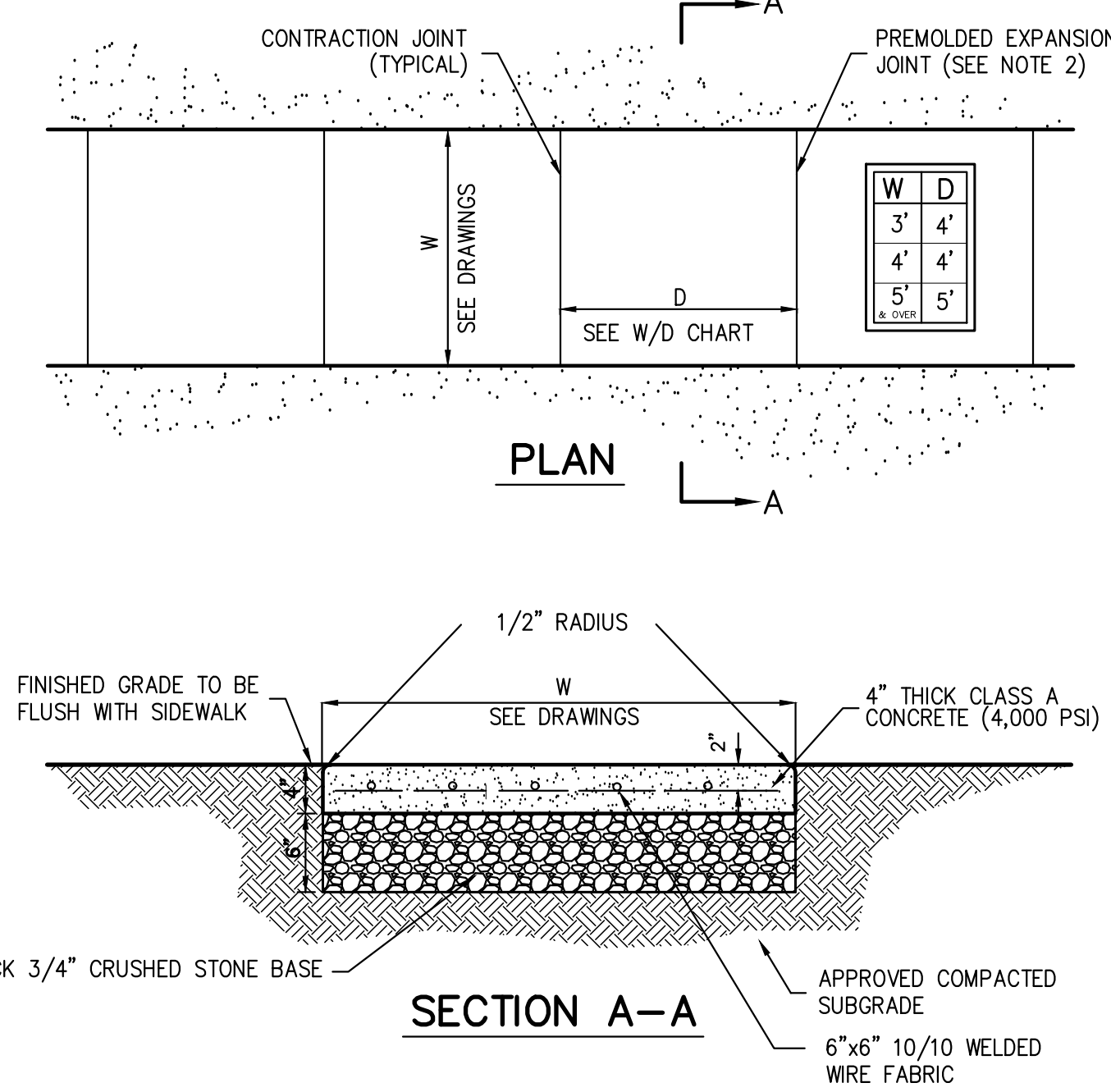
120 BEDFORD ROAD • BRIDGEVIEW, NY 0504
voice 914.273.8225 • fax 914.273.2102
www.jmcpllc.com



CONSTRUCTION DETAILS
DATA CENTER BUILDING EXPANSION
1 RAWLAND ROAD
TOWN OF ORANGE TOWN, NEW YORK

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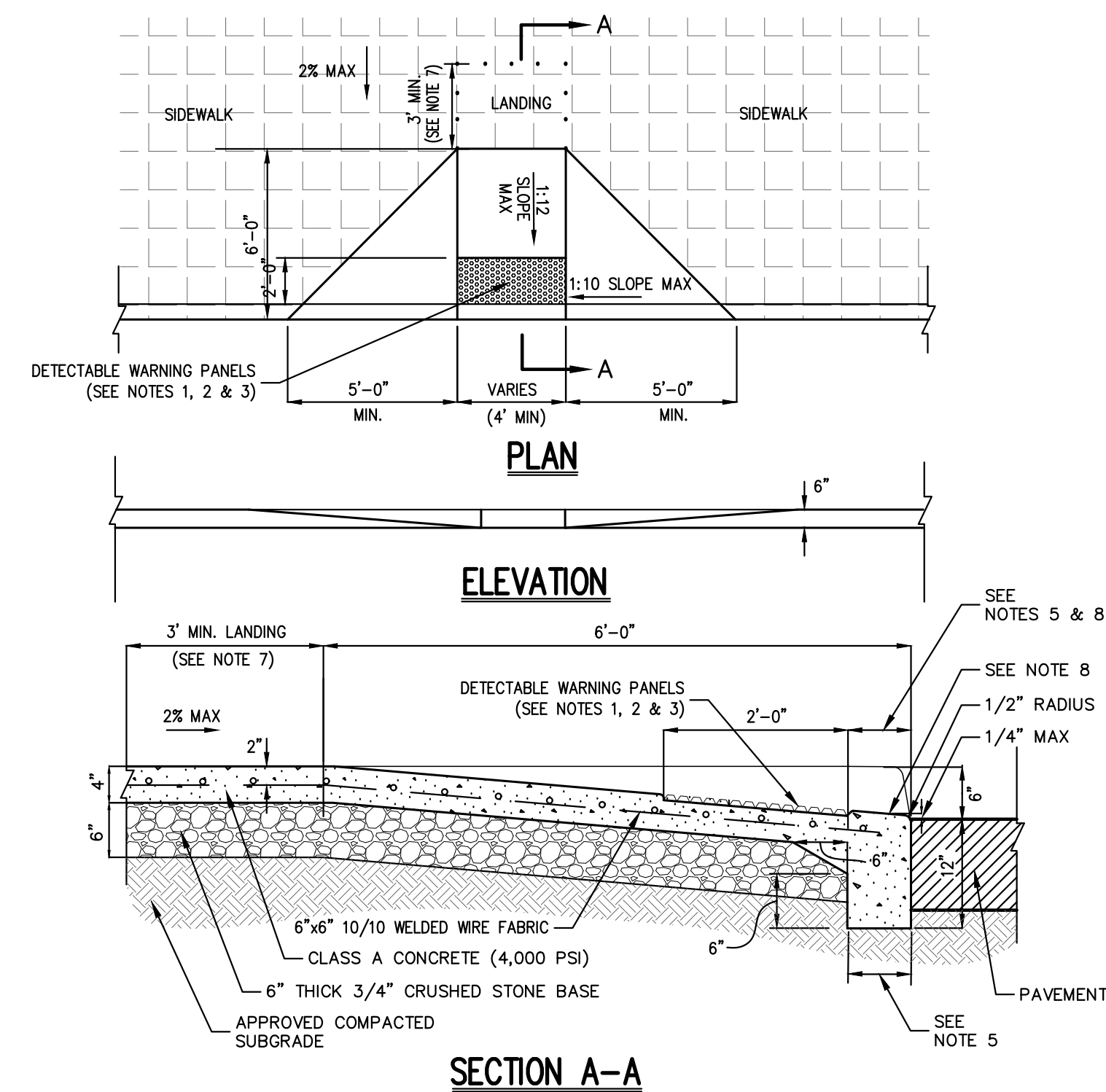
Client:	RR	Approved:	BD
Scale:	NOT TO SCALE		
Date:	10/18/2022		
Project No.:	13016		
1306-GENS	C-903		
Drawing No.:	C-903		



- NOTES:**
- SIDEWALK CROSS SLOPE SHALL BE 1% MIN. TO 2% MAX.
 - PROVIDE 1/2" PREFORMED EXPANSION JOINTS AT 20' INTERVALS UNLESS OTHERWISE DIRECTED.
 - REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
 - SIDEWALK SHALL HAVE LIGHT BROOM FINISH.

CONCRETE SIDEWALK

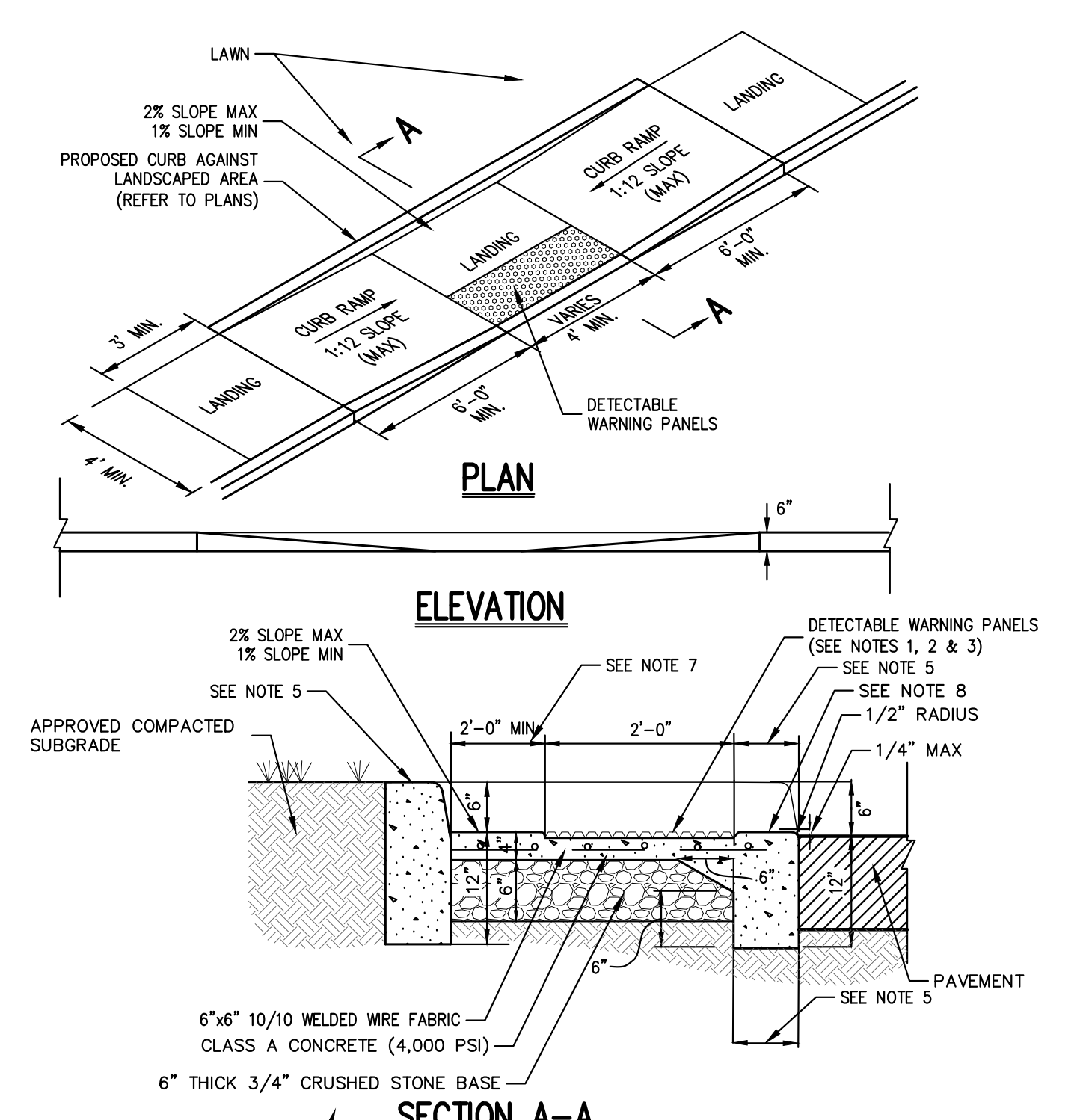
33



- NOTES:**
- RAMPS SHALL HAVE CAST IN PLACE DETECTABLE/TACTILE WARNING SURFACE TILES AS MANUFACTURED BY ARMOR-TILE (OR APPROVED EQUAL) AND SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES.
 - DETECTABLE WARNING PANELS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT IN ACCORDANCE WITH SECTION 4.29.2, FEDERAL REGISTER, VOLUME 56, NO. 144, RULES AND REGULATIONS, APPENDIX A TO PART 36 - STANDARDS FOR ACCESSIBLE DESIGN (AMERICANS WITH DISABILITIES ACT), LATEST EDITION.
 - 24" WIDTH OF PANELS TO BE INSTALLED DIRECTLY BEHIND CURB AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
 - CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE AND SEE CURB DETAIL FOR DIMENSIONS.
 - RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
 - WHEN LANDING OF RAMP ADJACENT TO A DOORWAY THEN THE MINIMUM DOORWAY MANEUVERING AREA SHALL BE AT LEAST THE WIDTH OF THE DOORWAY AND SHALL HAVE A MINIMUM DEPTH OF: MANUAL SWING DOORS = 60" MIN. FULL POWERED AUTOMATIC SLIDING DOORS = 48" MIN.
 - CONTRACTOR TO ENSURE TOP OF CURB MATCHES SLOPE OF RAMP.

DROP CURB & RAMP (TYPE A)
WITH DETECTABLE WARNING

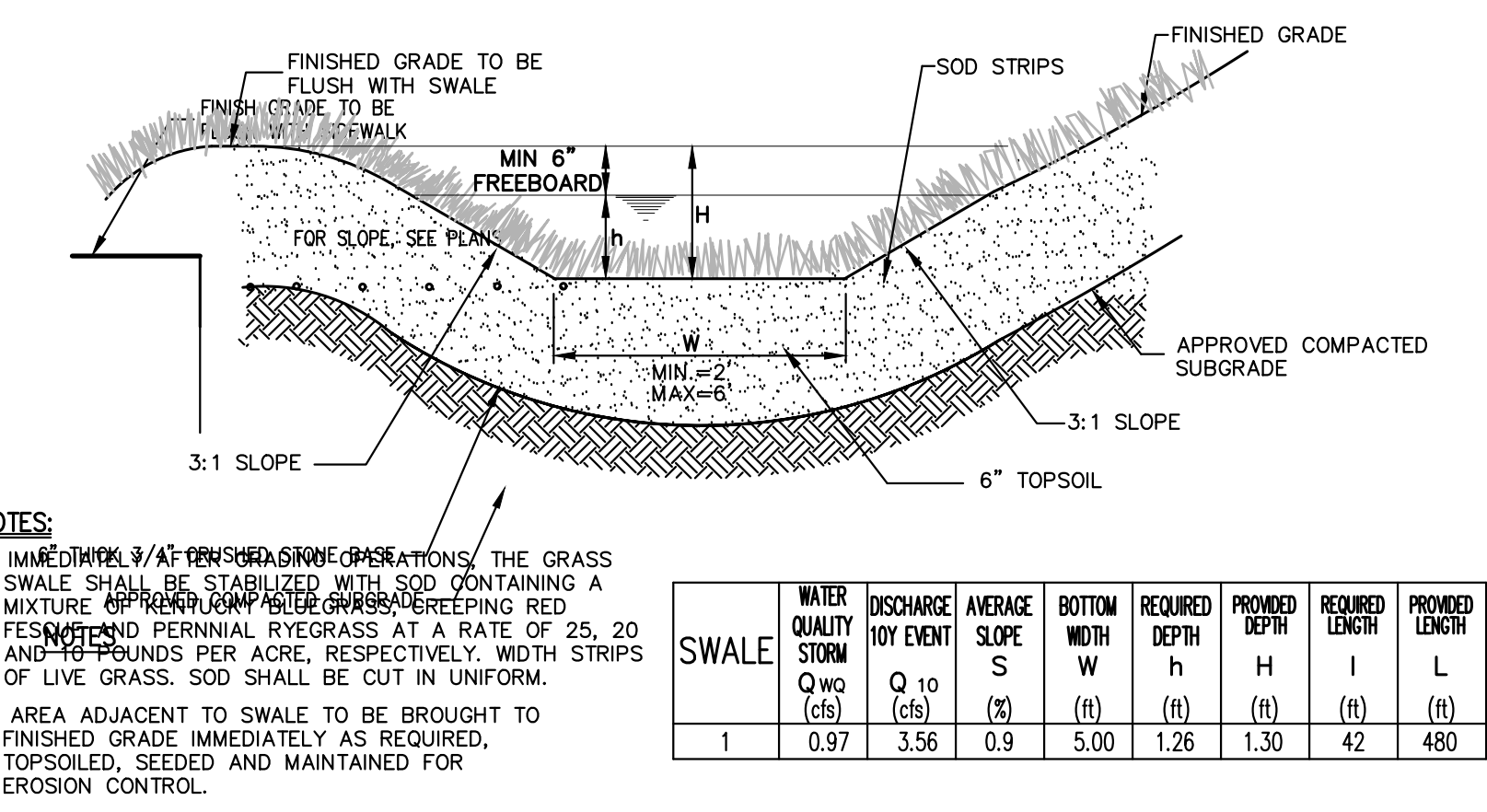
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- NOTES:**
- RAMPS SHALL HAVE CAST IN PLACE DETECTABLE/TACTILE WARNING SURFACE TILES AS MANUFACTURED BY ARMOR-TILE (OR APPROVED EQUAL) AND SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES.
 - DETECTABLE WARNING PANELS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT IN ACCORDANCE WITH SECTION 4.29.2, FEDERAL REGISTER, VOLUME 56, NO. 144, RULES AND REGULATIONS, APPENDIX A TO PART 36 - STANDARDS FOR ACCESSIBLE DESIGN (AMERICANS WITH DISABILITIES ACT), LATEST EDITION.
 - 24" WIDTH OF PANELS TO BE INSTALLED DIRECTLY BEHIND CURB AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
 - SIDEWALK CROSS SLOPE SHALL BE 1% MIN. TO 2% MAX.
 - RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
 - FOR UNBARRICADED CURBS, THE MINIMUM DOORWAY MANEUVERING AREA SHALL BE AT LEAST THE WIDTH OF THE DOORWAY AND SHALL HAVE A MINIMUM DEPTH OF: MANUAL SWING DOORS = 60" MIN. FULL POWERED AUTOMATIC SLIDING DOORS = 48" MIN.
 - CONTRACTOR TO ENSURE TOP OF CURB MATCHES SLOPE OF RAMP.

DROP CURB & RAMP (TYPE B)
WITH DETECTABLE WARNING

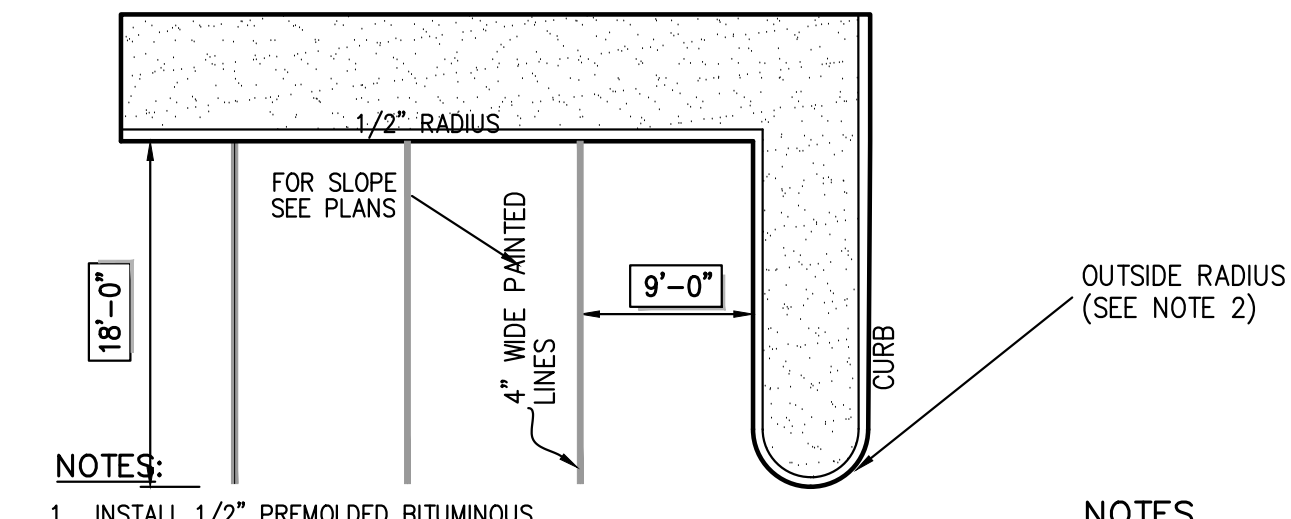
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- NOTES:**
- IMMEDIATELY AFTER SWALE CONSTRUCTION, THE GRASS SWALE SHALL BE STABILIZED WITH SOD CONTAINING A MIXTURE OF 80% TOPSOIL AND 20% COMPOST AT A RATE OF 25, 20 AND 10 POUNDS PER ACRE, RESPECTIVELY. WIDTH STRIPS OF LIVE GRASS, SOD SHALL BE CUT IN UNIFORM.
 - AREA ADJACENT TO SWALE TO BE BROUGHT TO FINISHED GRADE IMMEDIATELY AS REQUIRED, TOPSOILED, SEEDED AND MAINTAINED FOR EROSION CONTROL.
- | SWALE | WATER QUALITY SCORE | DISCHARGE VOL EVENT | AVERAGE VELOCITY S | BOTTOM WIDTH W | REQUIRED DEPTH H | PROMISED DEPTH H | REQUIRED LENGTH L | PROMISED LENGTH L |
|-------|---------------------|---------------------|--------------------|----------------|------------------|------------------|-------------------|-------------------|
| 1 | 0.97 | 3.56 | 0.9 | 5.00 | 1.26 | 1.30 | 42 | 480 |

VEGETATED SWALE

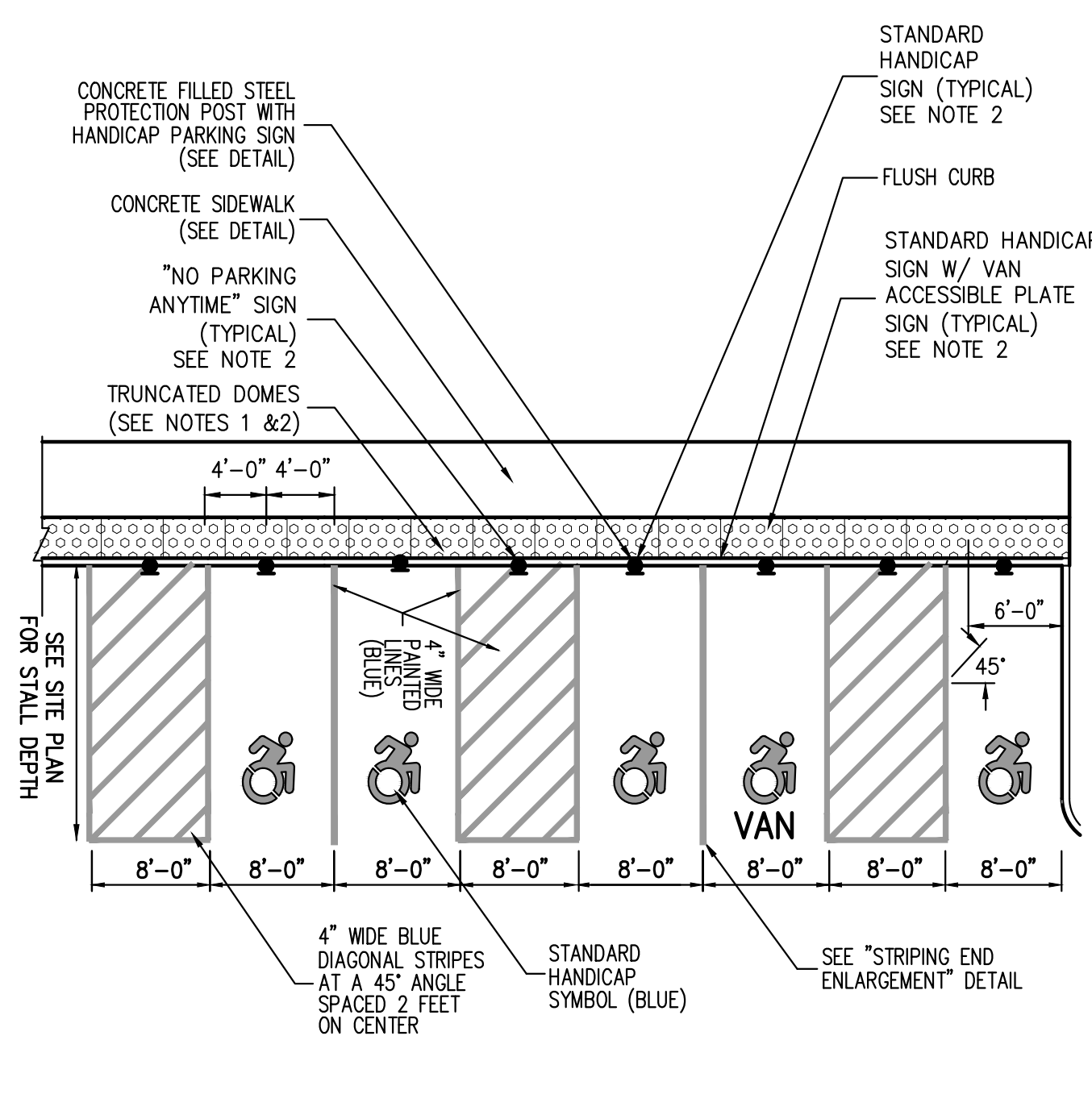
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- NOTES:**
- INSTALL 1/2" PREFORMED BITUMINOUS EXPANSION JOINT EVERY 20 FEET.
 - INSTALL CONSTRUCTION JOINTS MID-WAY BETWEEN EXPANSION JOINTS SO THAT LENGTH OF CURB SEGMENTS WILL BE TEN (10) FEET.
 - LENGTH OF CURB SEGMENTS AT CLOSURES MAY BE VARIED BUT SHALL NOT BE LESS THAN FOUR (4) FEET.
 - WHEN INSTALLED ADJACENT TO SIDEWALK OR
- NOTES:**
- COLOR OF PAINT SHALL BE XXXXXX
 - OUTSIDE RADIUS MAY VARY DEPENDING ON SHAPE OF ISLAND, RADIUS SHALL BE AS SHOWN ON LAYOUT PLAN.

90° PARKING
(SINGLE STRIPING-CURBED END)

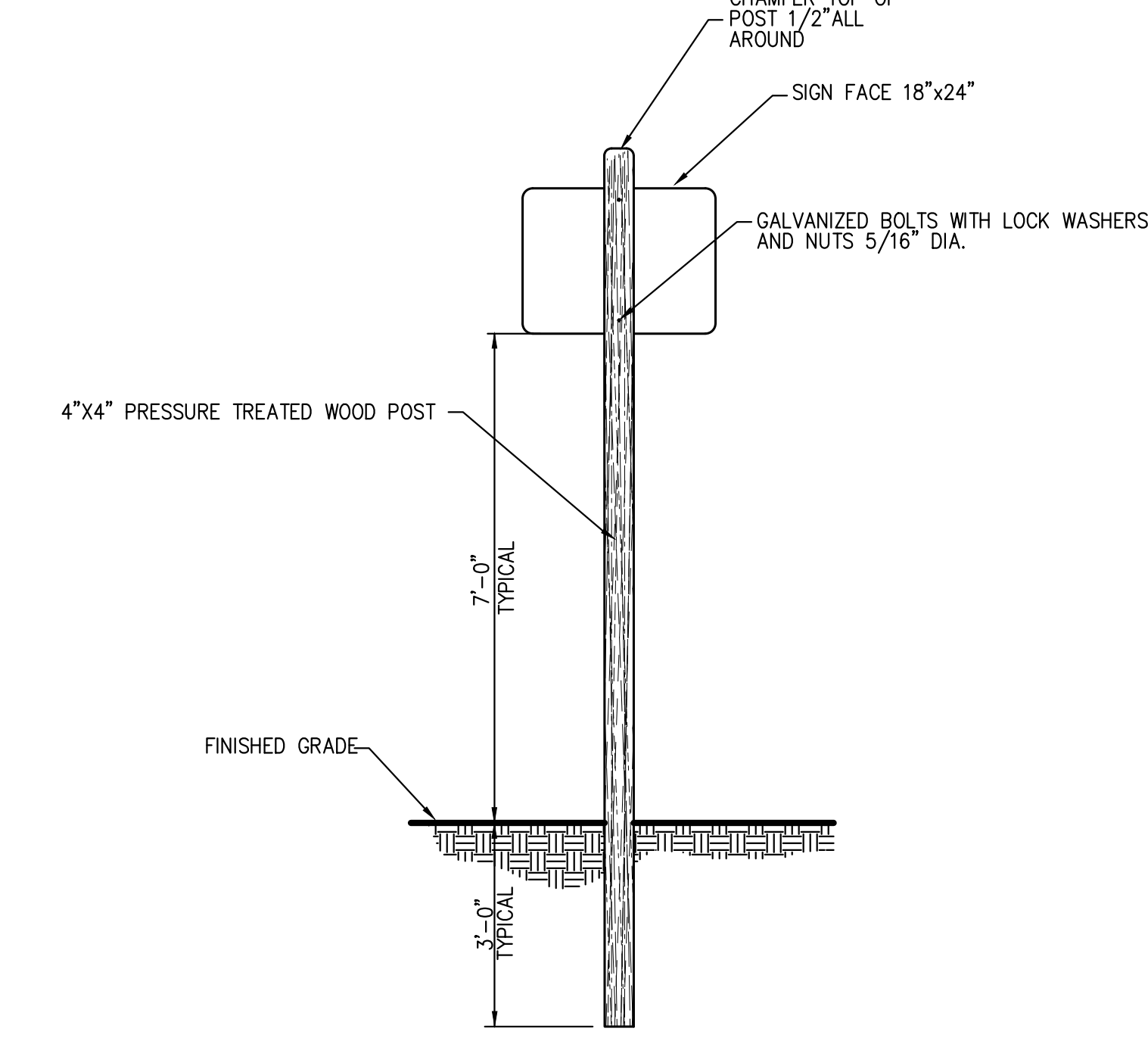
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- NOTES:**
- RAMPS AND SIDE RAMPS SHALL HAVE DETECTABLE WARNINGS CONSISTING OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES.
 - THEY SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT IN ACCORDANCE WITH SECTION 4.29.2, FEDERAL REGISTER, VOLUME 56, NO. 144, RULES AND REGULATIONS, APPENDIX A TO PART 36 - STANDARDS FOR ACCESSIBLE DESIGN (AMERICANS WITH DISABILITIES ACT), DATED JULY 26, 1991 AND SUBSEQUENT REVISIONS.
 - SLOPES IN HANDICAP PARKING AREAS SHALL NOT EXCEED 1.5%.
 - SEE SITE PLANS/SIGN TABLE FOR SIGN DESIGNATIONS, LOCATIONS AND SPECIFICATIONS.

HANDICAP PARKING
SINGLE STRIPING - CURBED ALIGNMENT - W/SIDEWALK
(NEW YORK)

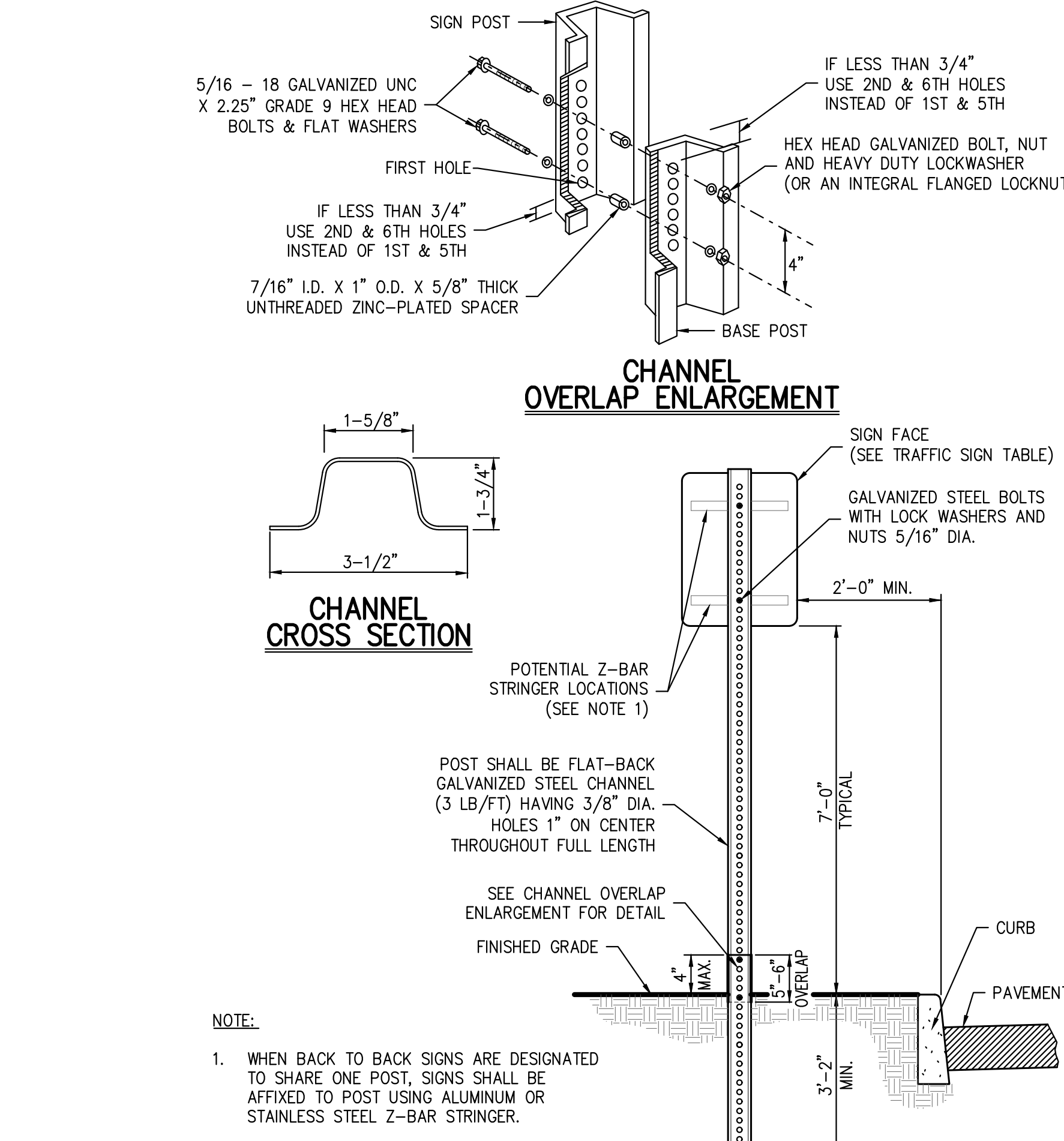
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- NOTES:**
- THE SIGN MUST BE ERECTED IN THE IMMEDIATE VICINITY OF THE STORMWATER PRACTICE, BEARING THE FOLLOWING INFORMATION:
STORMWATER MANAGEMENT PRACTICE-(NAME OF THE PRACTICE)
PROJECT IDENTIFICATION-(SPDES CONSTRUCTION PERMIT #)
MUST BE MAINTAINED IN ACCORDANCE WITH O&M PLAN
DO NOT REMOVE OR ALTER
 - A SHOP DRAWING OF THE PROPOSED SIGN WITH ALL PERTINENT INFORMATION SHALL BE PROVIDED TO JOHN MEYER CONSULTING PRIOR TO FABRICATION AND INSTALLATION.

STORMWATER MANAGEMENT PRACTICE IDENTIFICATION SIGN
(WOOD)

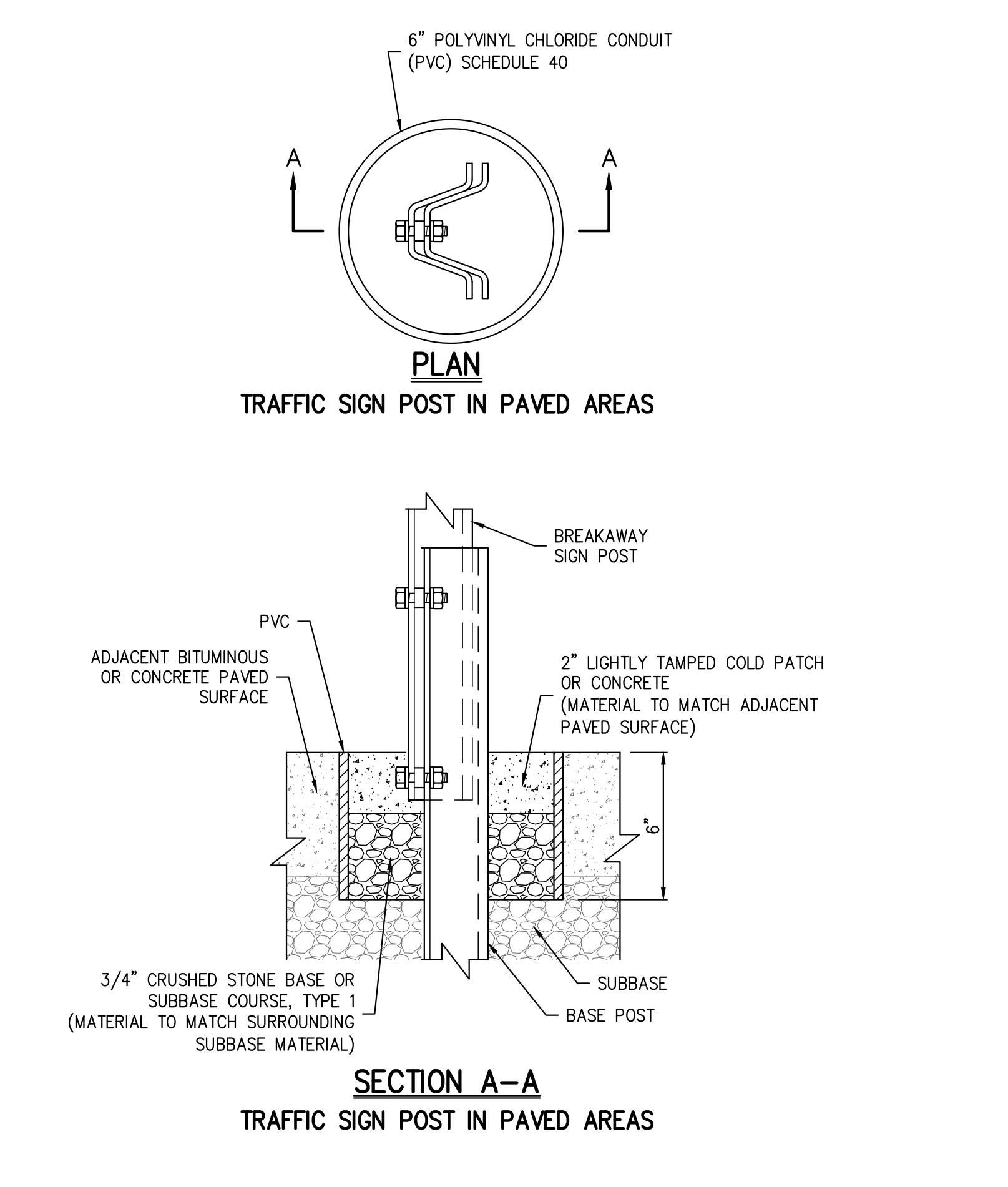
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- NOTES:**
- WHEN BACK TO BACK SIGNS ARE DESIGNATED TO SHARE ONE POST, SIGNS SHALL BE AFFIXED TO POST USING ALUMINUM OR STAINLESS STEEL Z-BAR STRINGER.

TRAFFIC SIGN POST
(BREAKAWAY STEEL CHANNEL)

40



- NOTES:**
- 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.

CONSTRUCTION DETAILS
DATA CENTER BUILDING EXPANSION
TOWN OF ORANGE TOWN, NEW YORK

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 JMC Site Development Consultants, LLC
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 120 BEDFORD ROAD - BIRMGHAM, NY 10504
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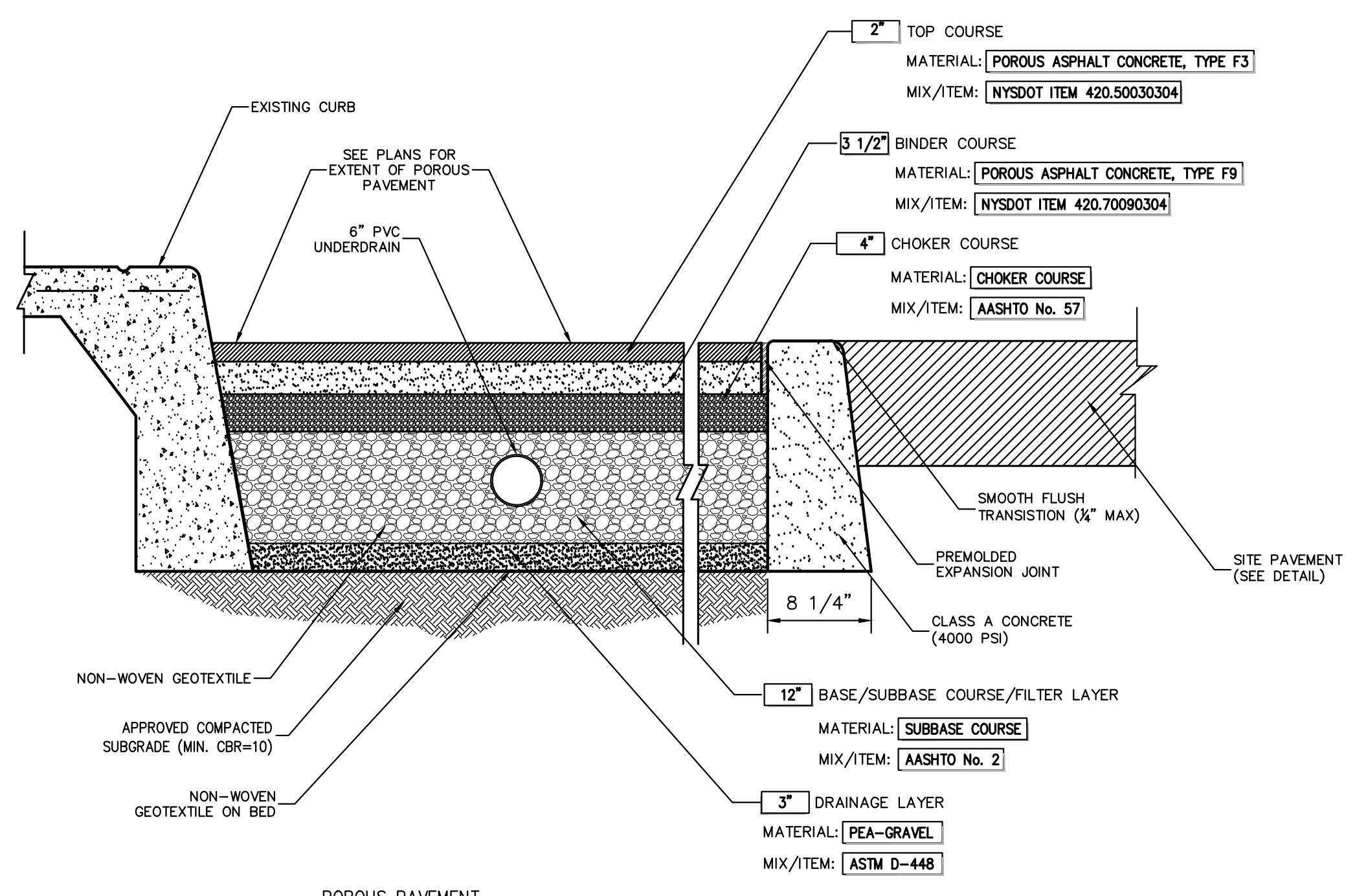
APPLICATION OWNER: RAWLAND HOLDINGS, LLC
 96 FRENEAU AVENUE
 MATTAWAN, NEW JERSEY 07747
 ARCHITECT: MICHELLE DROLETTE ARCHITECT, LLC
 129 EAST HIGH STREET
 HELLETTOWN, PA 18055

Date: 03/31/2023
 Revision: REVISED PER IRC COMMENTS
 No. 1.

Scale: NOT TO SCALE
 Date: 10/18/2022
 Project No: 13016
 1306-GENS C-904
 Drawing No: C-904

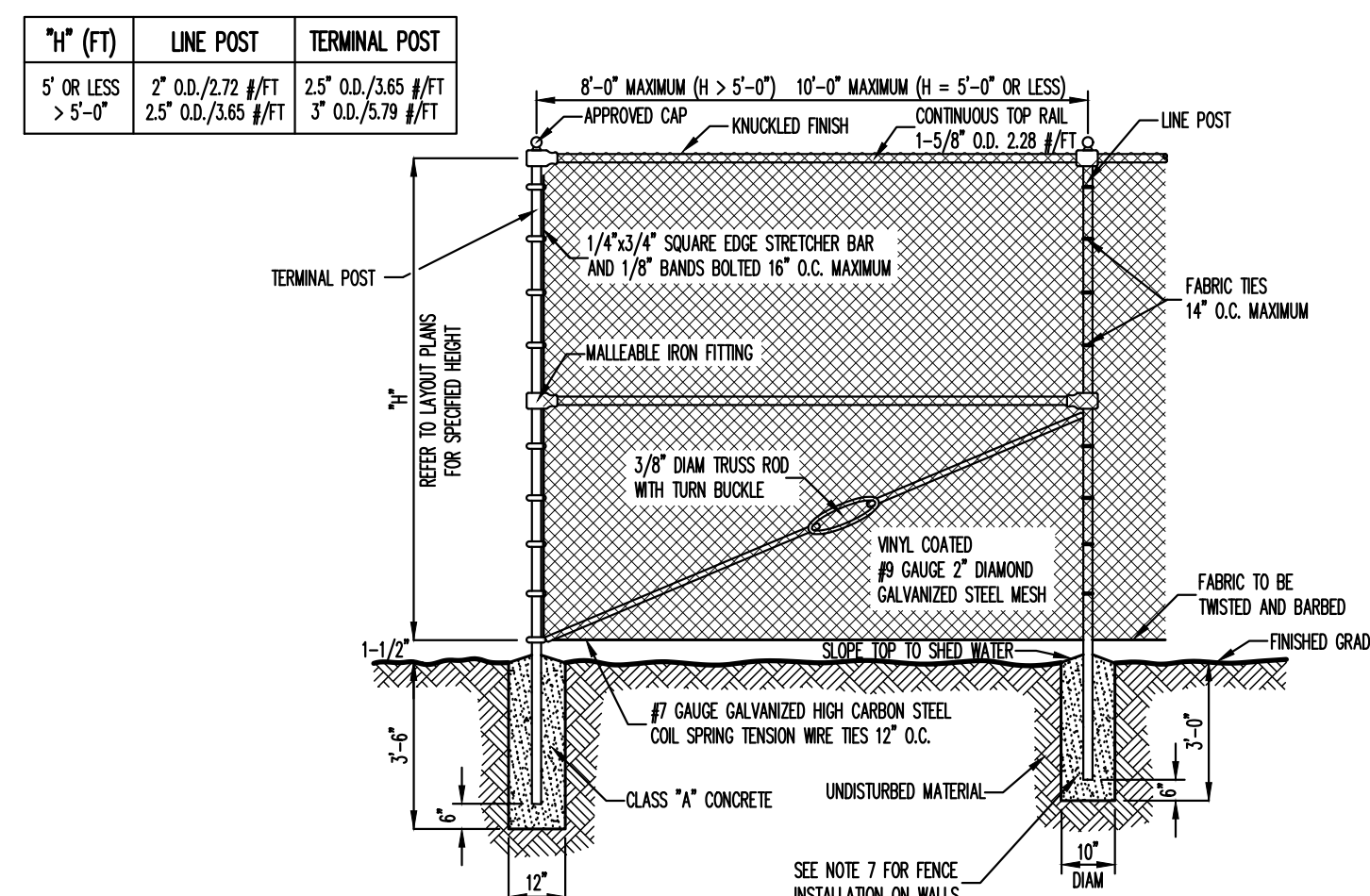
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NOT FOR CONSTRUCTION



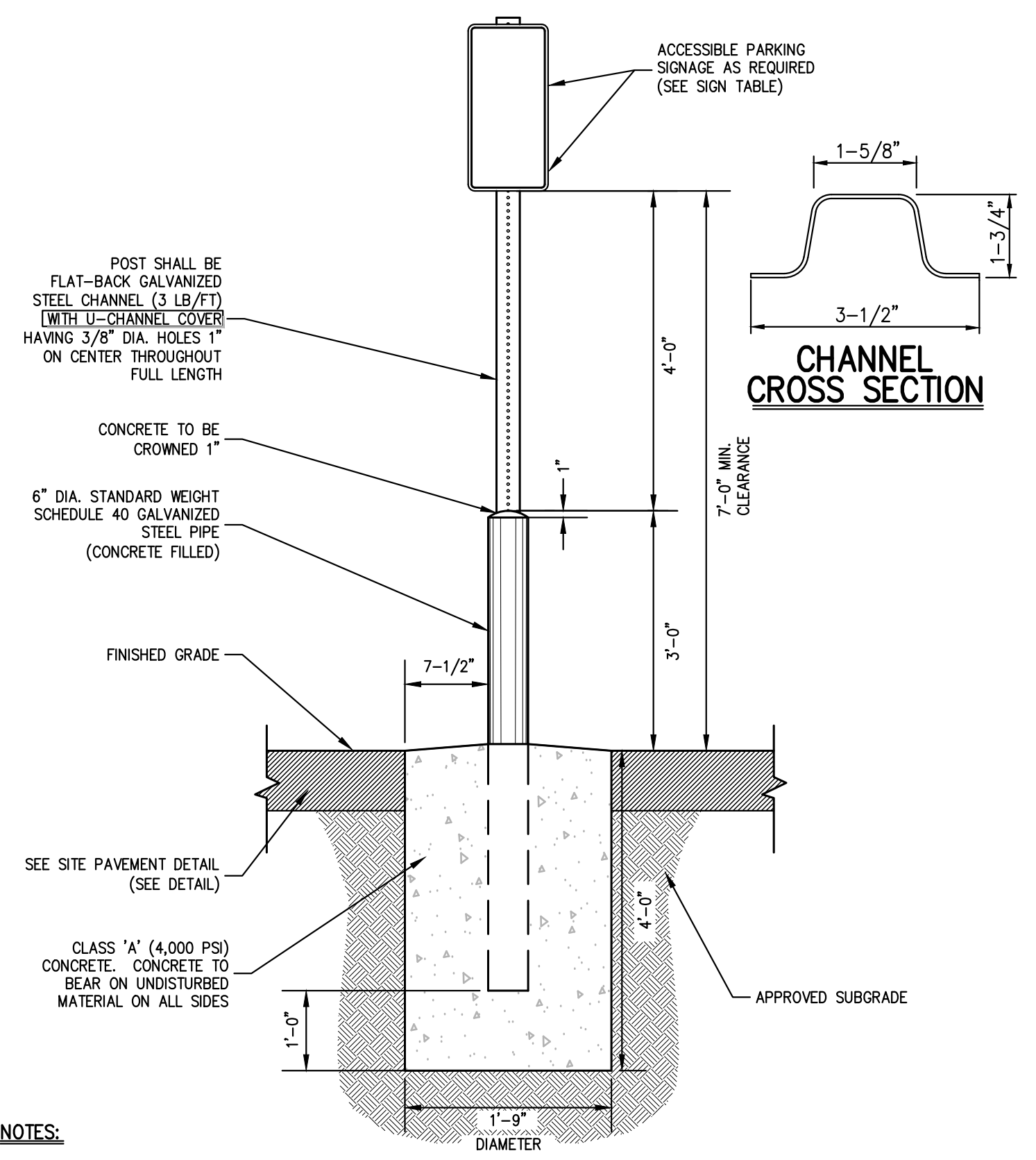
POROUS PAVEMENT

- NOTES:**
- THICKNESSES INDICATED REFER TO COMPACTED MEASURE.
 - MATERIAL AND MIX/ITEM NUMBERS REFER TO TRANSPORTATION SPECIFICATIONS, THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), AND AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)



NOTES:

- ALL POSTS, RAILS, FABRIC AND ACCESSORIES SHALL BE VINYL COATED. COLOR OF VINYL COATING SHALL BE BLACK.
- POST AND RAILS SHALL BE STANDARD FULL WEIGHT VINYL COATED GALVANIZED SCHEDULE 40 PIPE MANUFACTURED AND GALVANIZED IN ACCORDANCE WITH ASTM A-123. ALL MATERIALS SHALL BE NEW AND FIRST CLASS AND SHALL NOT INCLUDE RECONDITIONED OR REROLLED PIPE.
- FITTINGS SHALL BE VINYL COATED MALLEABLE IRON FITTINGS CONFORMING TO THE REQUIREMENTS OF ASTM A-47 GALVANIZED IN ACCORDANCE WITH ASTM A-123.
- FABRIC SHALL BE 9 GAUGE GALVANIZED 2\"/>



NOTES:

- GALVANIZED STEEL CHANNEL SHALL BE EMBEDDED A MIN. OF 3 FT. INTO THE CONCRETE
- POSTS FOR HANDICAP PARKING STALLS AND ACCESS AISLES SHALL BE PAINTED BLUE AS FOLLOWS:
 - SOLVENT CLEAN TO REMOVE OIL, GREASE AND OTHER CONTAMINANTS.
 - APPLY METAL PRIMER FOR GALVANIZED SURFACES.
 - PAINT TWO (2) FINISH COATS OF APPROVED EXTERIOR PAINT FOR METAL SURFACES.
- 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.
- FASTEN SIGN TO POSTS WITH GALVANIZED STEEL BOLTS, LOCK WASHERS, AND NUTS (5/16\"/>

POROUS PAVEMENT

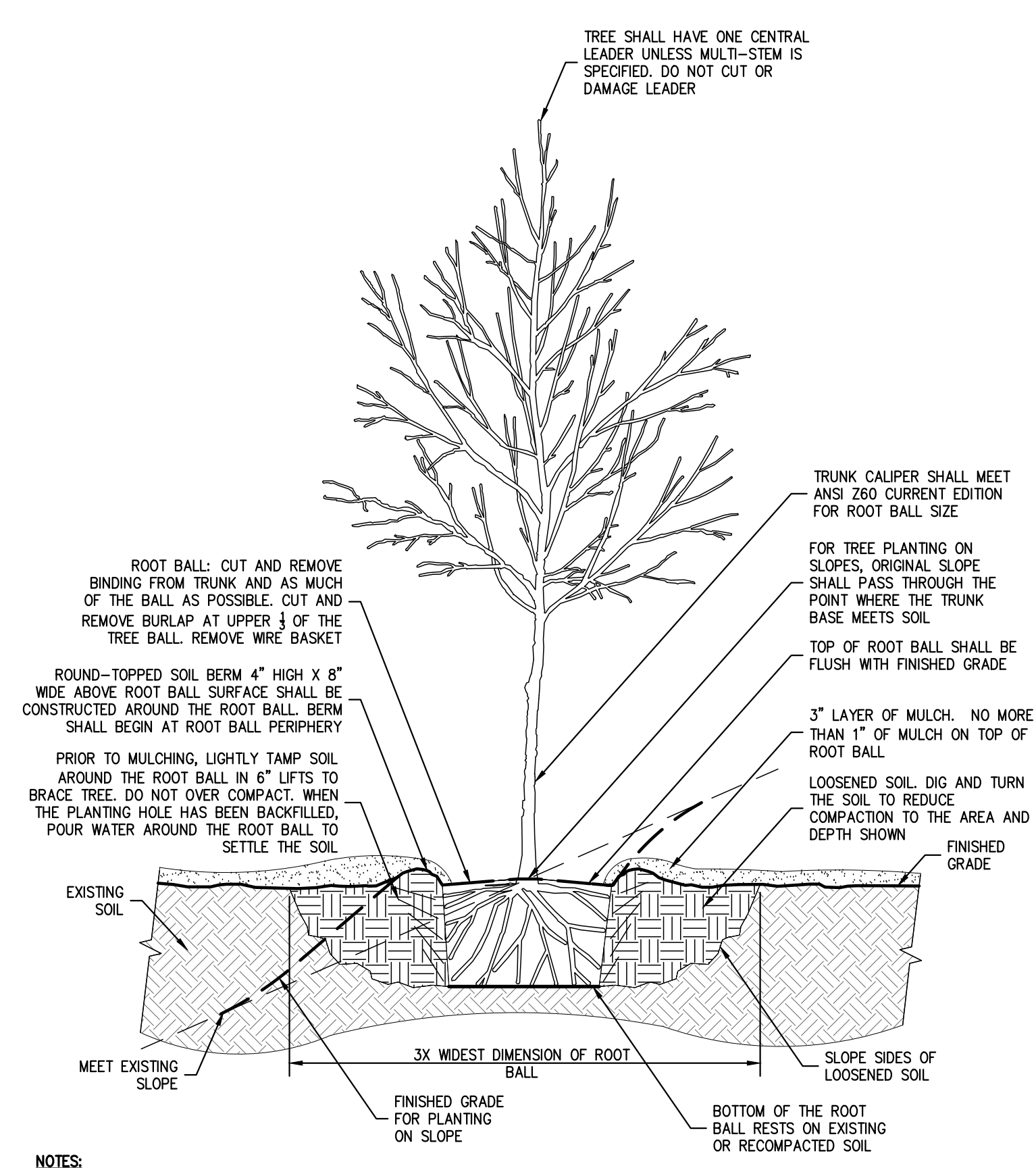
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CHAIN LINK FENCE (VINYL COATED)

42

ACCESSIBLE PARKING SIGN DETAIL

43



- NOTES:**
- ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.
 - PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.
 - PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.
 - SEE TREE STAKING DETAIL IF STAKING IS REQUIRED.

TREE PLANTING (DECIDUOUS AND EVERGREEN)

44

X

X

NOT FOR CONSTRUCTION

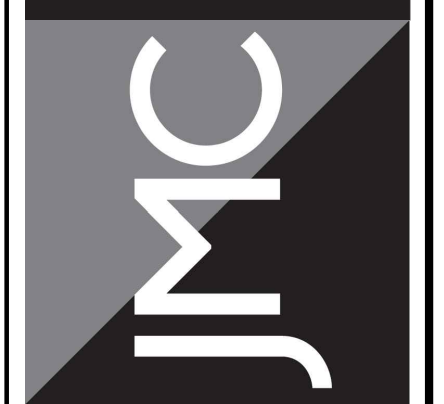
Revision	Date	By
1. REVISED PER IFC COMMENTS	03/31/2023	BD

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DATA CENTER BUILDING EXPANSION

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