

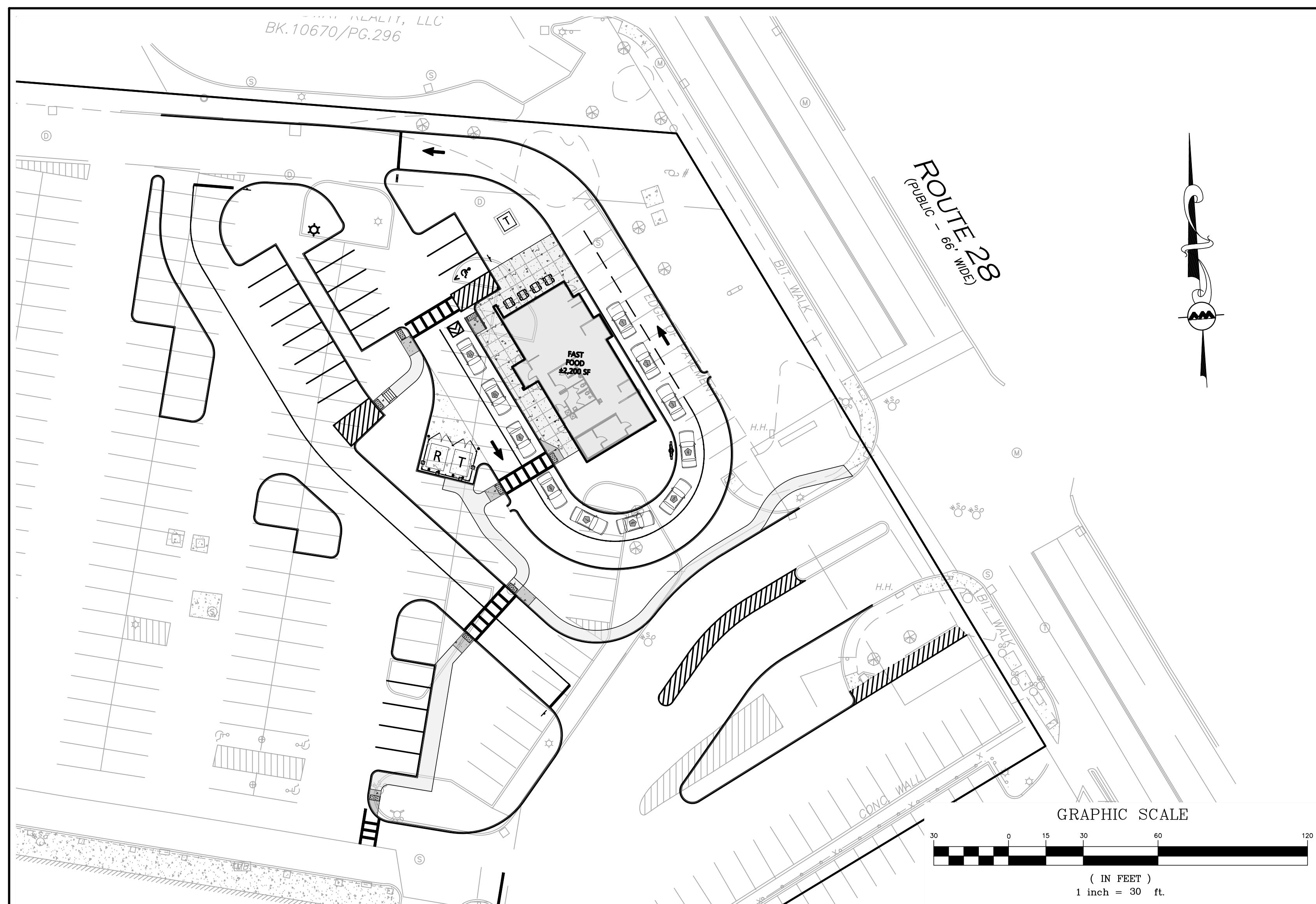
LOCUS MAP
SCALE: 1" = 1,000'

SITE DEVELOPMENT PLANS FOR TACO JOHN'S 436 BROADWAY METHUEN, MA 01844

APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

CIVIL ENGINEER:
ALLEN & MAJOR ASSOCIATES, INC.
400 HARVEY ROAD
MANCHESTER, NH 03103

SURVEYOR:
ALLEN & MAJOR ASSOCIATES, INC.
100 COMMERCE WAY
WOBURN, MA 01801



LIST OF DRAWINGS			
DRAWING TITLE	SHEET NO.	ISSUED	REV1
EXISTING CONDITIONS PLAN	1	03-31-23	05-25-23
SITE PREPARATION PLAN	C-100	03-31-23	05-26-23
OVERALL SITE PLAN	C-101	03-31-23	05-26-23
LAYOUT & MATERIALS PLAN	C-102	03-31-23	05-26-23
GRADING & DRAINAGE PLAN	C-103	03-31-23	05-26-23
UTILITIES PLAN	C-104	03-31-23	05-26-23
TRUCK TURNING PLAN	C-105	03-31-23	05-26-23
DETAILS	C-501	03-31-23	05-26-23
DETAILS	C-502	03-31-23	05-26-23
DETAILS	C-503	03-31-23	05-26-23
DETAILS	C-504	03-31-23	05-26-23
LANDSCAPING PLAN	L-101	03-31-23	05-26-23
LANDSCAPING DETAILS	L-501	03-31-23	05-26-23



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.



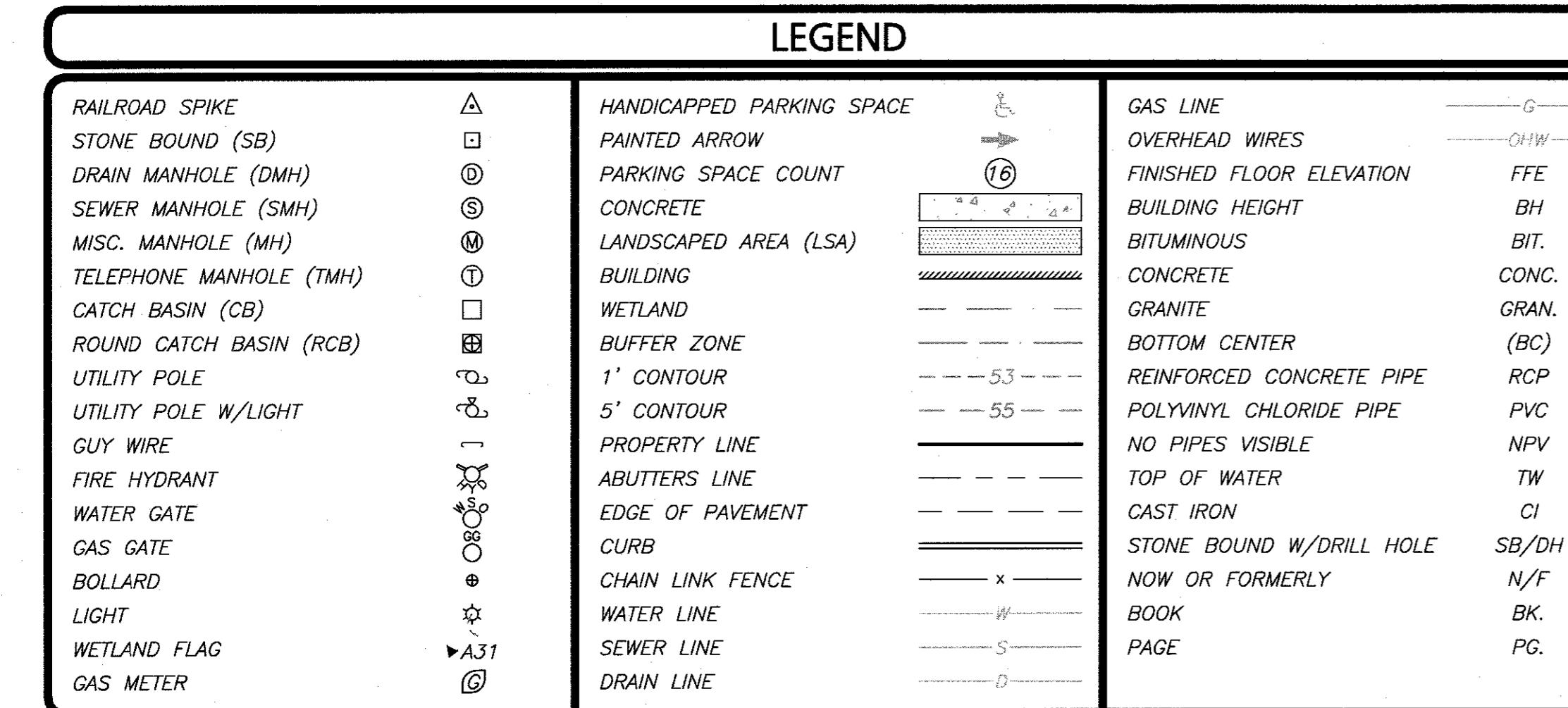
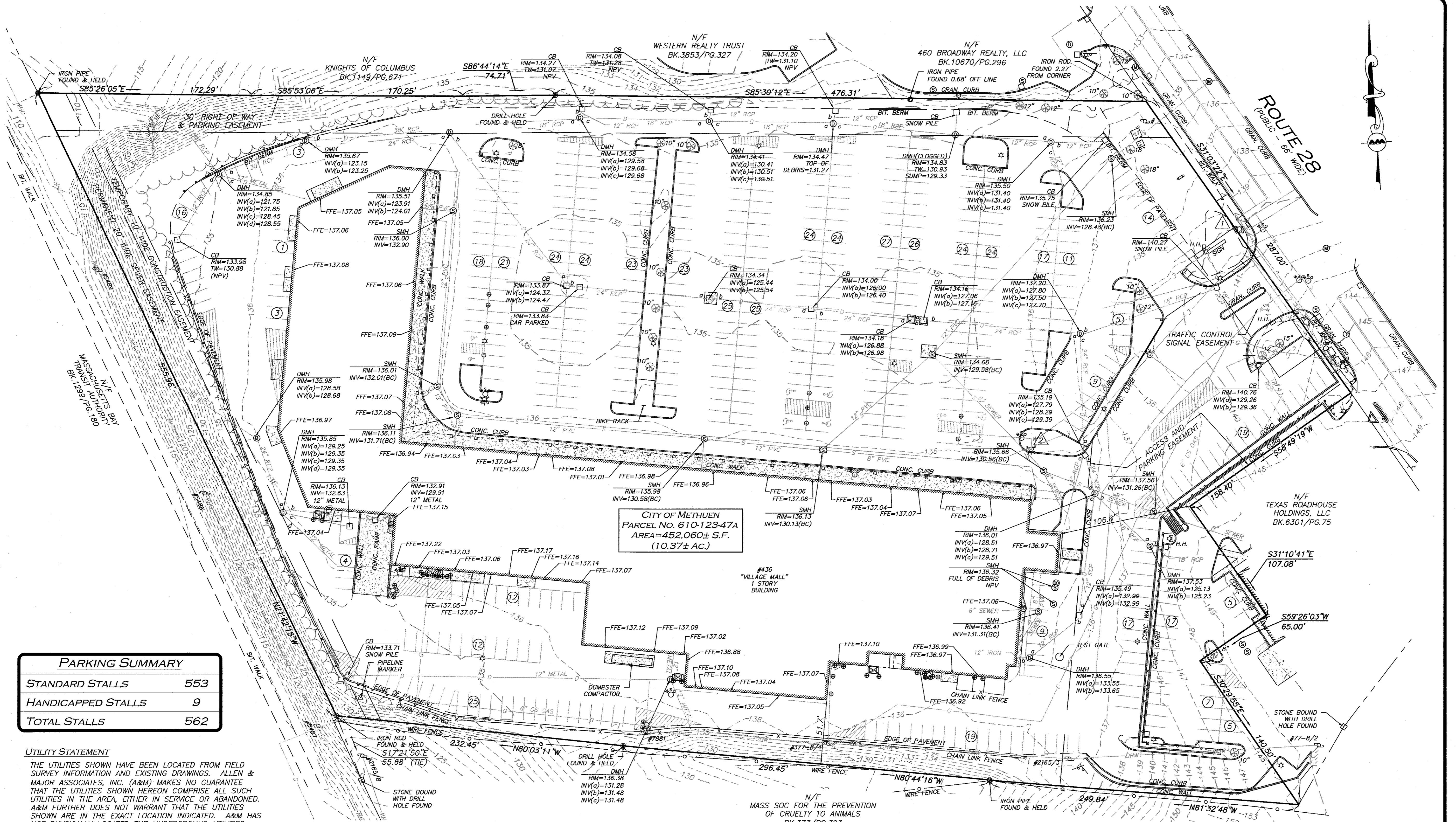
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www.allenmajor.com
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WOBURN MA 01801
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ISSUED FOR SITE PLAN REVIEW: MARCH 31, 2023
REVISION 1: MAY 26, 2023



PROFESSIONAL LAND SURVEYOR FOR
ALLEN & MAJOR ASSOCIATES, INC.

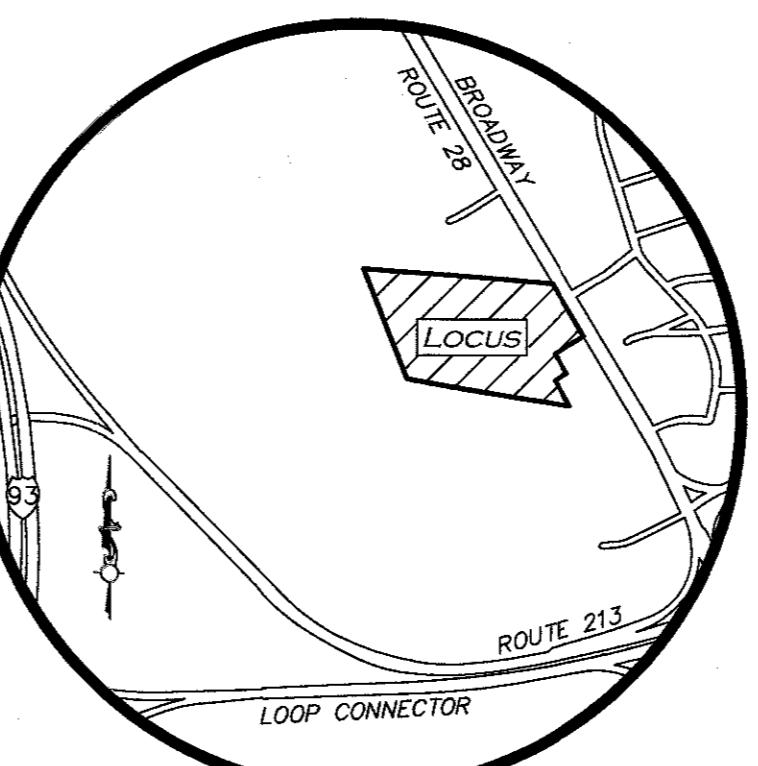


LOCUS REFERENCES
— TOWN OF METHUEN PARCEL NO. 610-123-47A
— RECORD OWNER: SHRI SWAMINE LLC
— DEED BOOK 17223, PAGE 192
— PLAN 9591

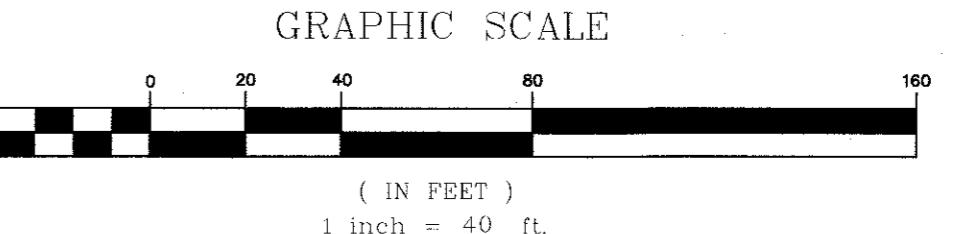
PLAN REFERENCES
— PLAN NO. 288
— PLAN NO. 1309
— PLAN NO. 3704
— PLAN NO. 4580
— PLAN NO. 6040
— PLAN NO. 8046
— PLAN NO. 11577
— PLAN NO. 14081
— S.H.O. NO. 6639 (1984)

NOTES

1. NORTH ARROW IS BASED ON MASSACHUSETTS GRID COORDINATE SYSTEM (MAINLAND ZONE) (NAD 83).
2. BOOK/PAGE AND PLAN REFERENCES ARE TAKEN FROM ESSEX (NORTH) REGISTRY OF DEEDS IN ANDOVER, MA.
3. VERTICAL DATUM IS NAVD 88 ESTABLISHED USING RTK GPS OBSERVATION.
4. CONTOUR INTERVAL IS ONE FOOT (1').
5. SURVEY WAS PERFORMED UNDER SNOW AND ICE CONDITIONS.
6. MANHOLES IN ROUTE 28 WERE UNABLE TO BE OPEN DUE TO BEING FROZEN SHUT AND OR BOLTED SHUT.

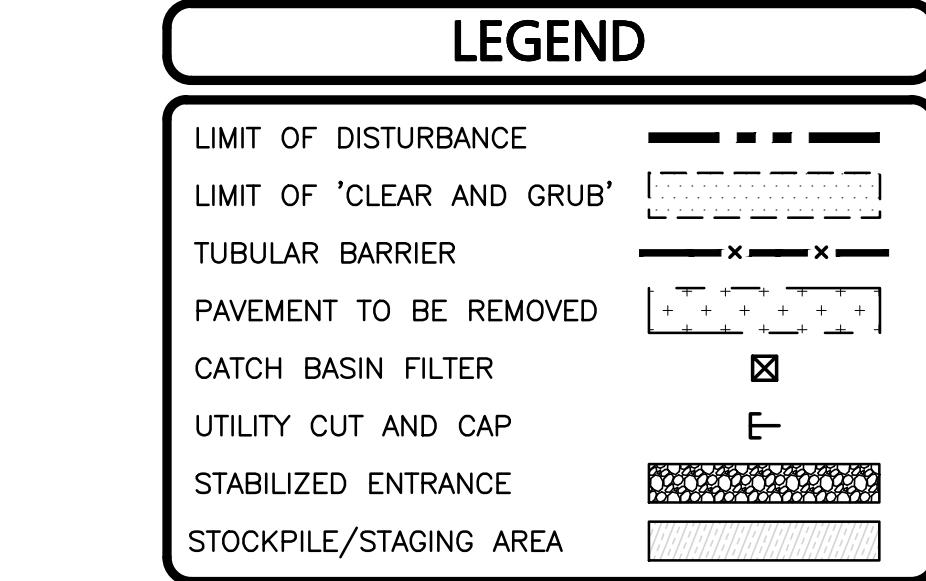
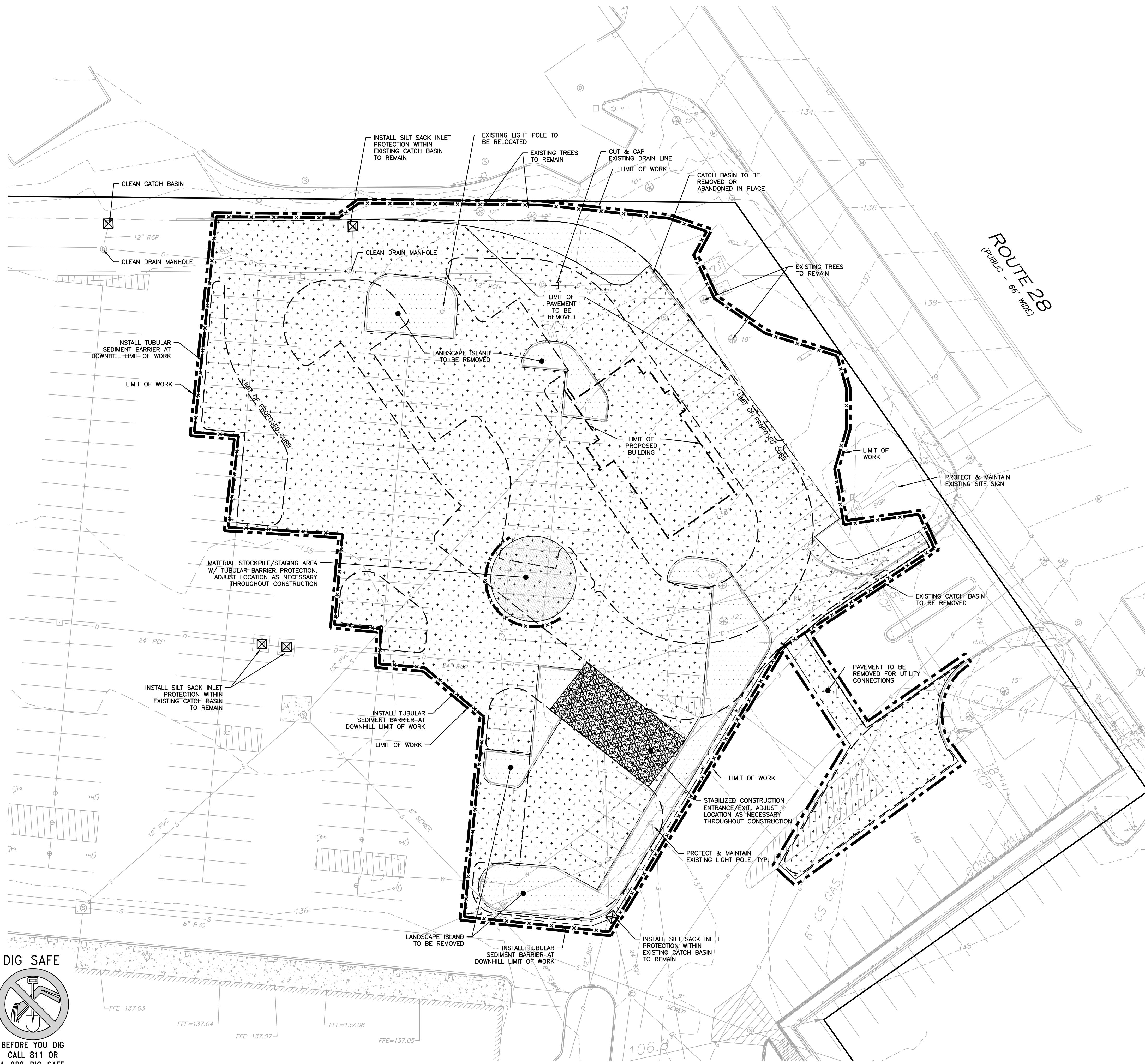


BENCHMARK SUMMARY		
TBM #	DESCRIPTION	ELEV.
1	X-CUT ON HYDRANT FLANGE BOLT	142.49
2	X-CUT ON HYDRANT FLANGE BOLT	138.15



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DRAWING TITLE: EXISTING CONDITIONS SHEET NO. 1
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BRIAN D.
JONES
CIVIL
No. 49212
REGISTERED
PROFESSIONAL
ENGINEER
05-26-23

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
REV DATE DESCRIPTION

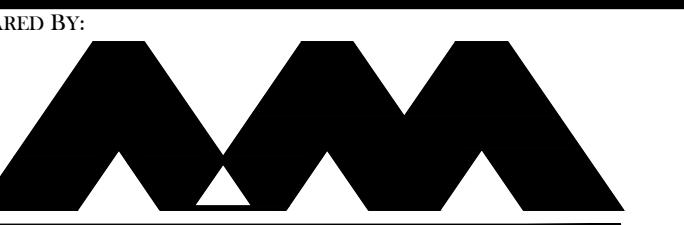
APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

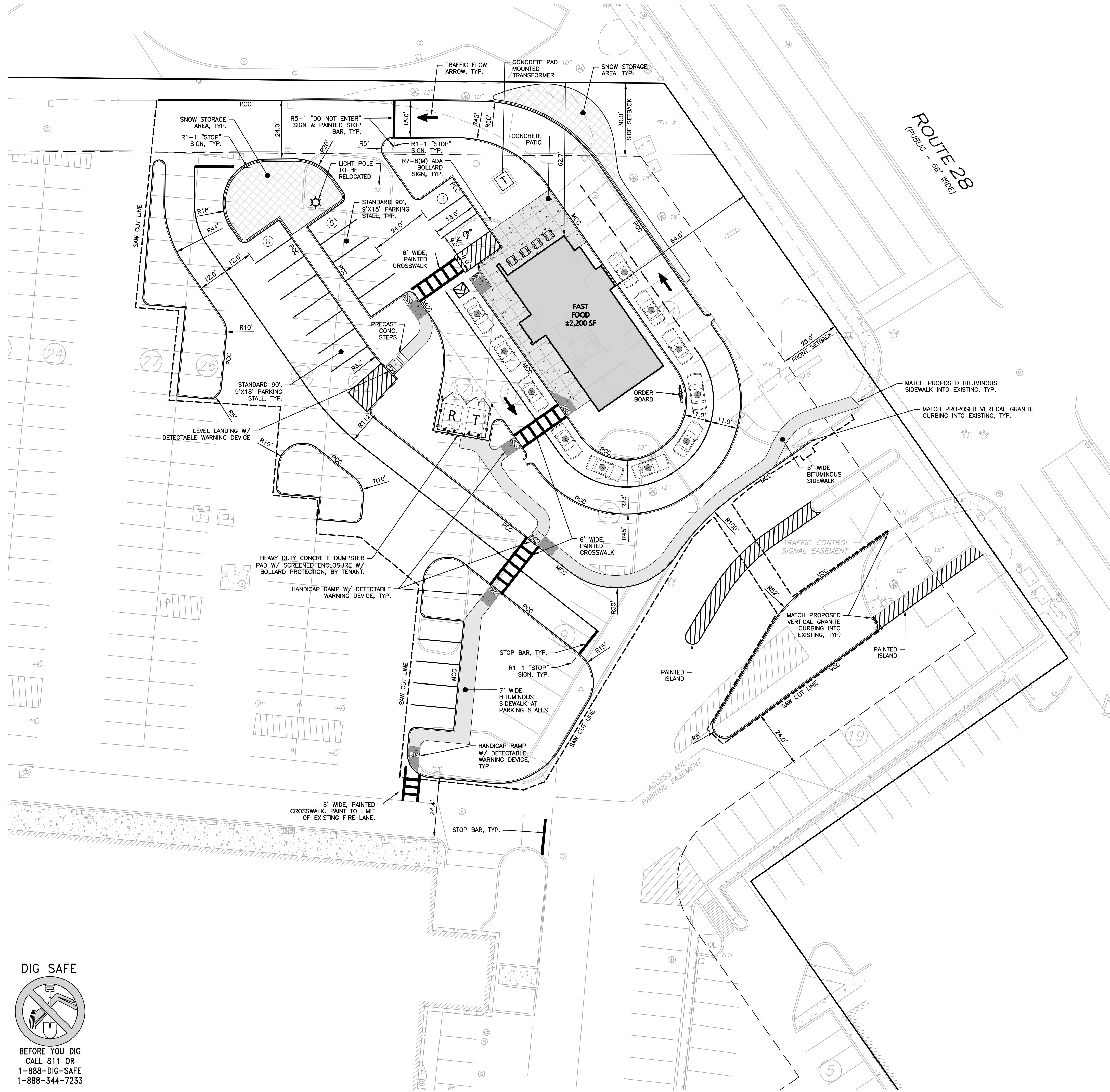
SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

ALLEN & MAJOR
ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
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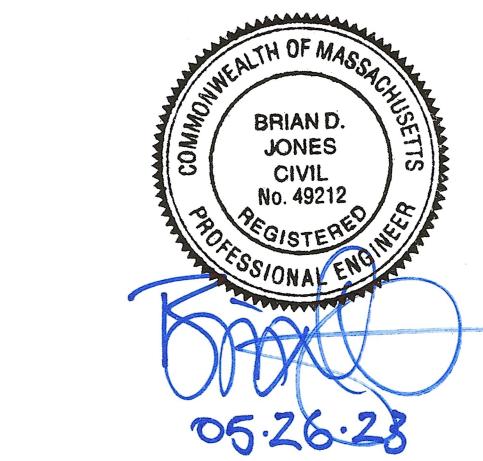
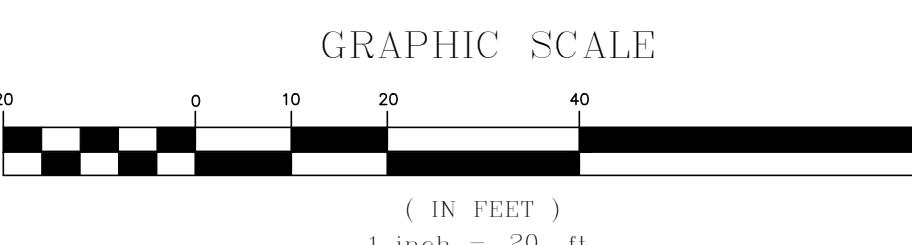
DRAWING TITLE: SITE PREPARATION PLAN SHEET No. C-100
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LEGEND	
PROPERTY LINE	—
SIGN	—
BOLLARD	●
BUILDING	■
BUILDING ARCHITECTURE	■
CURB	—
PARKING STRIPING	—
ROADWAY STRIPING	—
TRAFFIC ARROWS	→
HEAVY DUTY CONCRETE	—
BITUMINOUS SIDEWALK	—
CONCRETE SIDEWALK	—
ADA ACCESSIBLE RAMP	▲
ADA DET. WARNING SURFACE	—
SNOW STORAGE	—
SETBACK LINE	—
SAW-CUT LINE	—
PARKING COUNT	(10)
WOOD FENCE	—
TRANSFORMER	T
PRECAST CONCRETE CURB	PCC
MONOLITHIC CONCRETE CURB	MCC
VERTICAL GRANITE CURB	VGC

NOTES:

1. HOURS OF OPERATION WILL BE 6AM-MIDNIGHT, MONDAY THROUGH SUNDAY.
2. ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
3. PARKING DIMENSIONS ARE TAKEN FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE CITY OF METHUEN, MADOT, MADEP, MUTCD, AND AASHTO.
6. WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR. ALL SITE ITEMS SHALL BE LAID OUT AND AS BUILT BY A LICENSED LAND SURVEYOR.
7. EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC IN FEBRUARY OF 2023, AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
8. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO CONTACT THE CITY OF METHUEN, MA DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF LOCAL UTILITIES.
9. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
REV DATE DESCRIPTIONAPPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

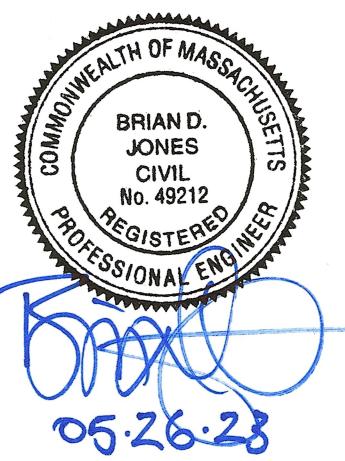
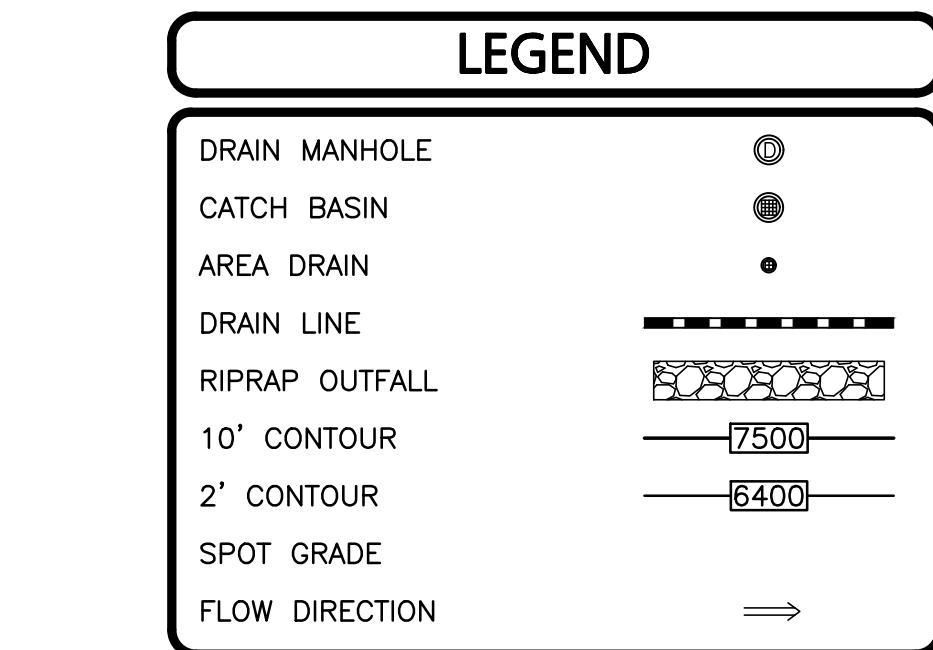
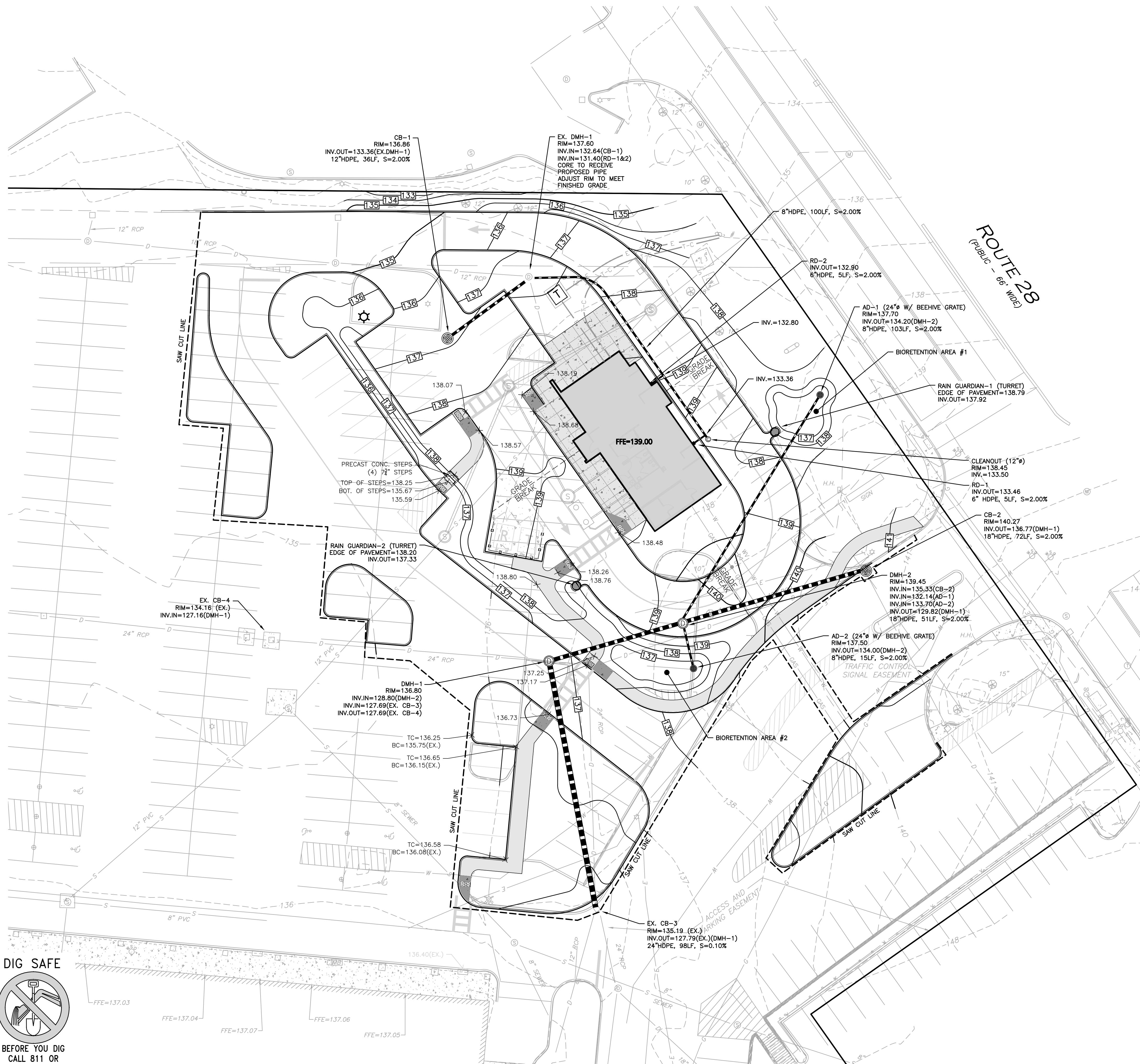
PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allen-major.com
100 COMMERCE WAY, SUITE 5
WOBURN, MA 01801
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1 05-26-23 REVISION 1
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PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

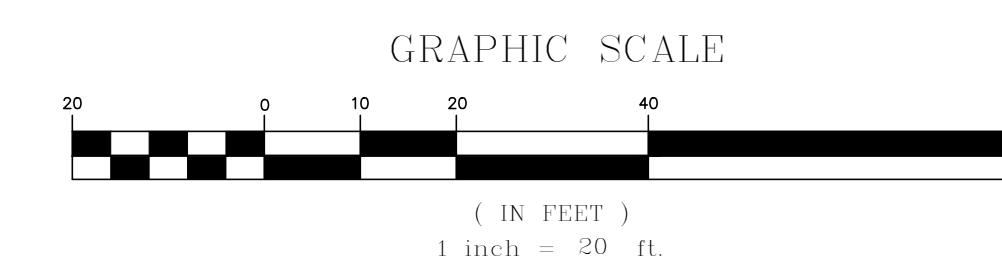
SCALE: 1" = 20' DWG. NAME: C-3115-01A

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100 COMMERCE WAY, SUITE 5
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UTILITY NOTES:

1. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER MAINS AND/OR STORM DRAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE DIFFERENCE IN ELEVATION BETWEEN THE WATER MAIN AND THE SEWER MAIN SHALL BE AT LEAST 18 INCHES.
2. IN THE CASE THAT WATER MAINS CROSS SANITARY SEWER MAINS AND/OR STORM DRAINS AND ARE SEPARATED BY LESS THAN 18" OF VERTICAL CLEARANCE, THE CROSSING PIPES SHALL BE ENCASED IN CONCRETE OR SLEEVED IN A LARGER DIAMETER PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.
3. THE CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL ROOF DRAIN LATERALS AND UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRIC, TELEPHONE, AND GAS SERVICE. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND COORDINATE WITH THE PROPER AGENCY THE LOCATION AND SCHEDULING OF CONNECTIONS WITH THEIR FACILITIES.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.

5. ABANDONED EXISTING UTILITIES AND UTILITIES TO BE ABANDONED SHALL EITHER BE ABANDONED IN PLACE AS NOTED OR SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED. ALL UTILITIES SCHEDULED FOR ABANDONMENT OR REMOVAL AND DISPOSAL MUST BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY OWNER.

6. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF NATURAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY BY THE UTILITY OWNER.

7. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4.5 FEET OF COVER AND A MAXIMUM OF 8 FEET OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE.

8. ALL WATER MAINS 3 INCHES AND LARGER SHALL BE CEMENT LINED DUCTILE IRON - CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.

9.

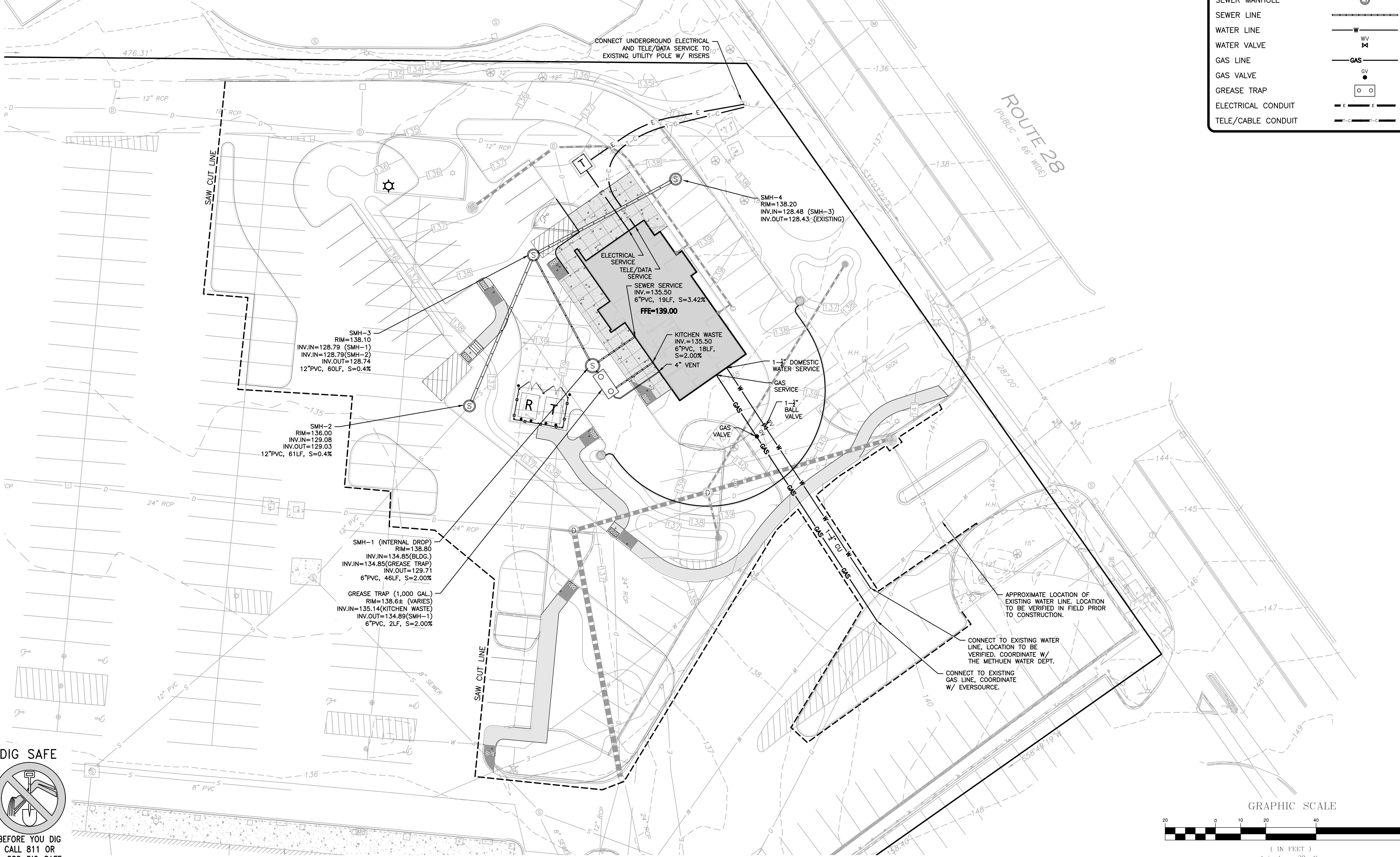
10.

11. GENERALLY, WATER MAIN FITTINGS, AND VALVES SHOWN ON THIS DRAWING ARE FOR INSTALLATION LOCATION PURPOSES. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS AND VALVES ARE NOTED, SHOWN OR INDICATED.

12. LOCATION OF PROPOSED ELECTRICAL/COMMUNICATION SERVICE IS SCHEMATIC IN NATURE AND FOR COORDINATION PURPOSES ONLY. SPECIFIC ALIGNMENTS ARE TO BE DESIGNED BY OTHERS AND REVIEWED BY THE UTILITY PROVIDING SERVICE. PROPOSED ELECTRICAL SERVICE TO BE BURIED IN ACCORDANCE WITH THE TOWN OF NEWINGTON REGULATIONS AND ELECTRIC COMPANY.

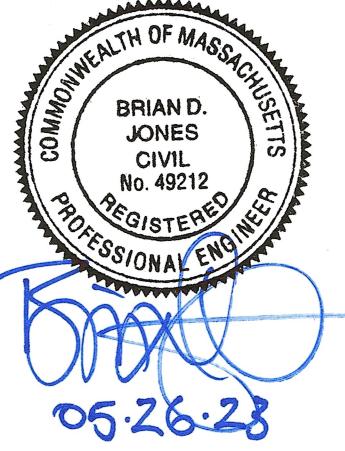
13. LOCATION OF PROPOSED GAS MAIN IS SCHEMATIC IN NATURE AND FOR COORDINATION PURPOSES ONLY. SPECIFIC ALIGNMENTS ARE TO BE DESIGNED BY OTHERS AND REVIEWED BY THE UTILITY PROVIDING SERVICE.

14. THE LOCATION OF THE EXISTING WATER LINE IS SCHEMATIC IN NATURE AND IS TO BE CONFIRMED USING GROUND PENETRATING RADAR (GPR).



LEGEND

SEWER MANHOLE	
SEWER LINE	
WATER LINE	
WATER VALVE	
GAS LINE	
GAS VALVE	
GREASE TRAP	
ELECTRICAL CONDUIT	
TELE/CABLE CONDUIT	



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
REV DATE DESCRIPTION

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PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

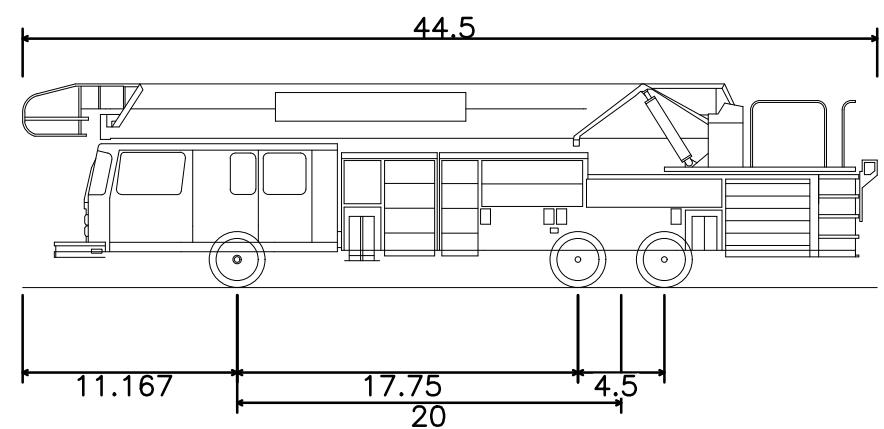
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NOTES:

1. VEHICLE TRACKING SOFTWARE BY AUTODESK WAS USED TO MODEL THE METHUEN 95' AERIALCAT REAR MOUNT PLATFORM FIRE TRUCK.
2. EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC IN FEBRUARY OF 2023, AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
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95' AERIALCAT REAR MOUNT PLATFORM
 OVERALL LENGTH 44.5 FT
 OVERALL WIDTH 8.3 FT
 OVERALL BODY HEIGHT 11.75 FT
 MIN BODY GROUND CLEARANCE 1.4 FT
 TRACK WIDTH 8.3 FT
 LOCK-TO-LOCK TIME 6.00s
 MAX WHEEL ANGLE 45.00°

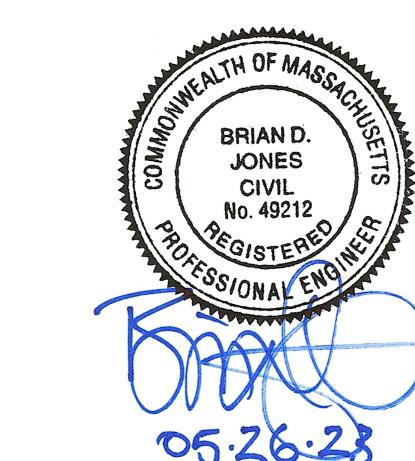
N/F
 KNIGHTS OF COLUMBUS
 BK.1149/PG.671

N/F
 WESTERN REALTY TRUST
 BK.3853/PG.327

N/F
 460 BROADWAY REALTY, LLC
 BK.10670/PG.296

IRON PIPE
 FOUND 2.27' FROM CORNER
 GRAN. CURB

ROUTE 28
 (PUBLIC)
 66' MILE



PROFESSIONAL ENGINEER FOR
 ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
 REV DATE DESCRIPTION

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 PO BOX 2022
 DANVERS, MA 01923

PROJECT:
 TACO JOHN'S
 436 BROADWAY
 THE VILLAGE MALL
 METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 40' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

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 civil engineering • land surveying
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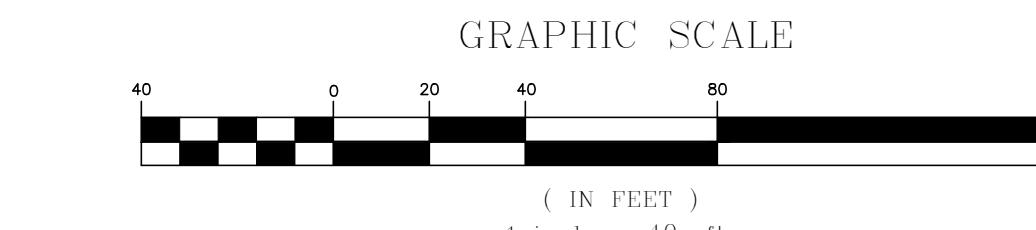
TRUCK TURNING PLAN

C-105

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 1-888-344-7233



N/F
 MASS SOC FOR THE PREVENTION
 OF CRUELTY TO ANIMALS
 BK.373/PG.393

CITY OF METHUEN
 PARCEL NO. 610-123-47A
 AREA=452,060± S.F.
 (10.37± AC.)

#436
 "VILLAGE MALL"
 1 STORY
 BUILDING

TEST
 CHAIN LINK FENCE

CONC. CURB
 CONC. WALL

H.H.

CONC. CURB
 CONC. WALL

TEST

CHAIN LINK FENCE

CONC. CURB
 CONC. WALL

H.H.

TEST

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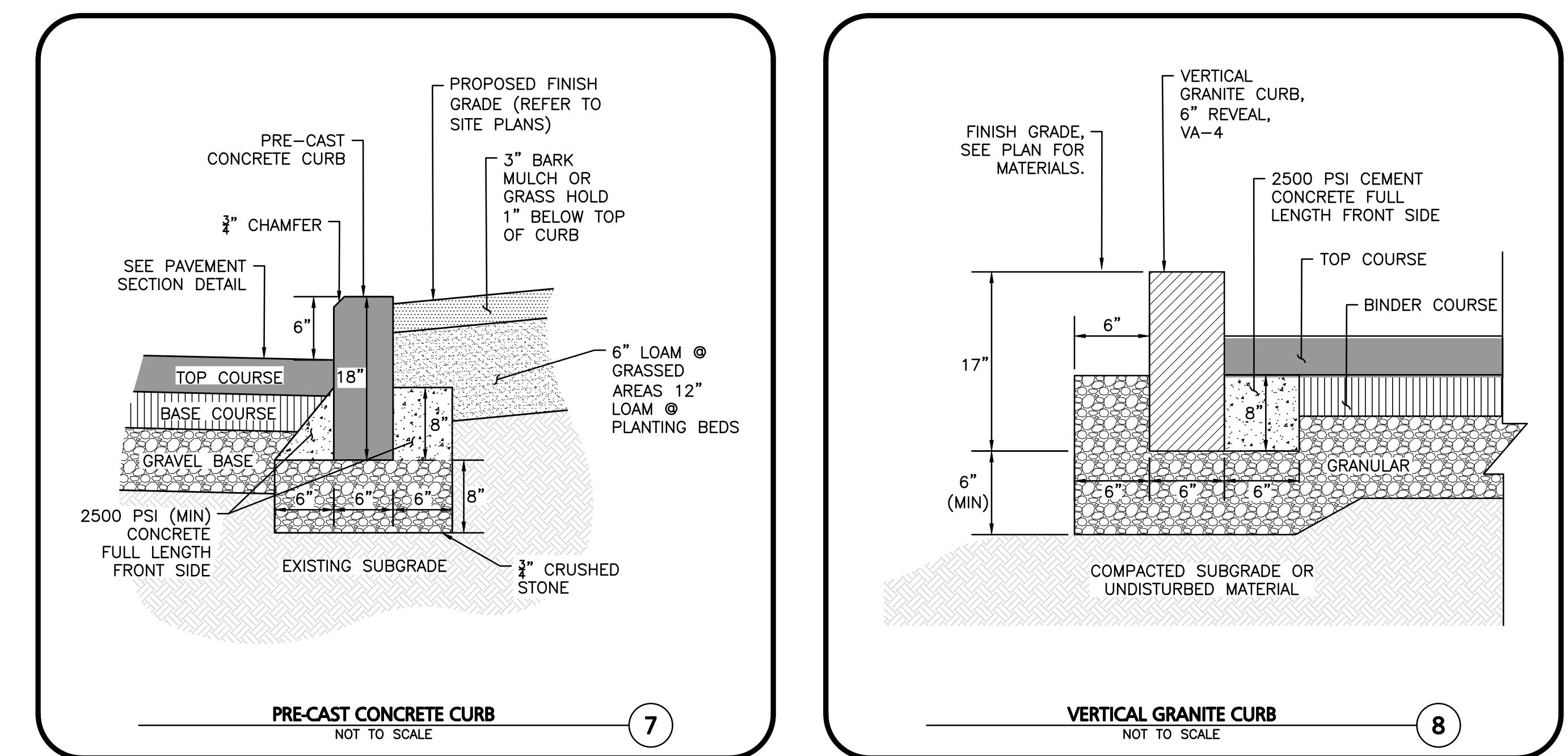
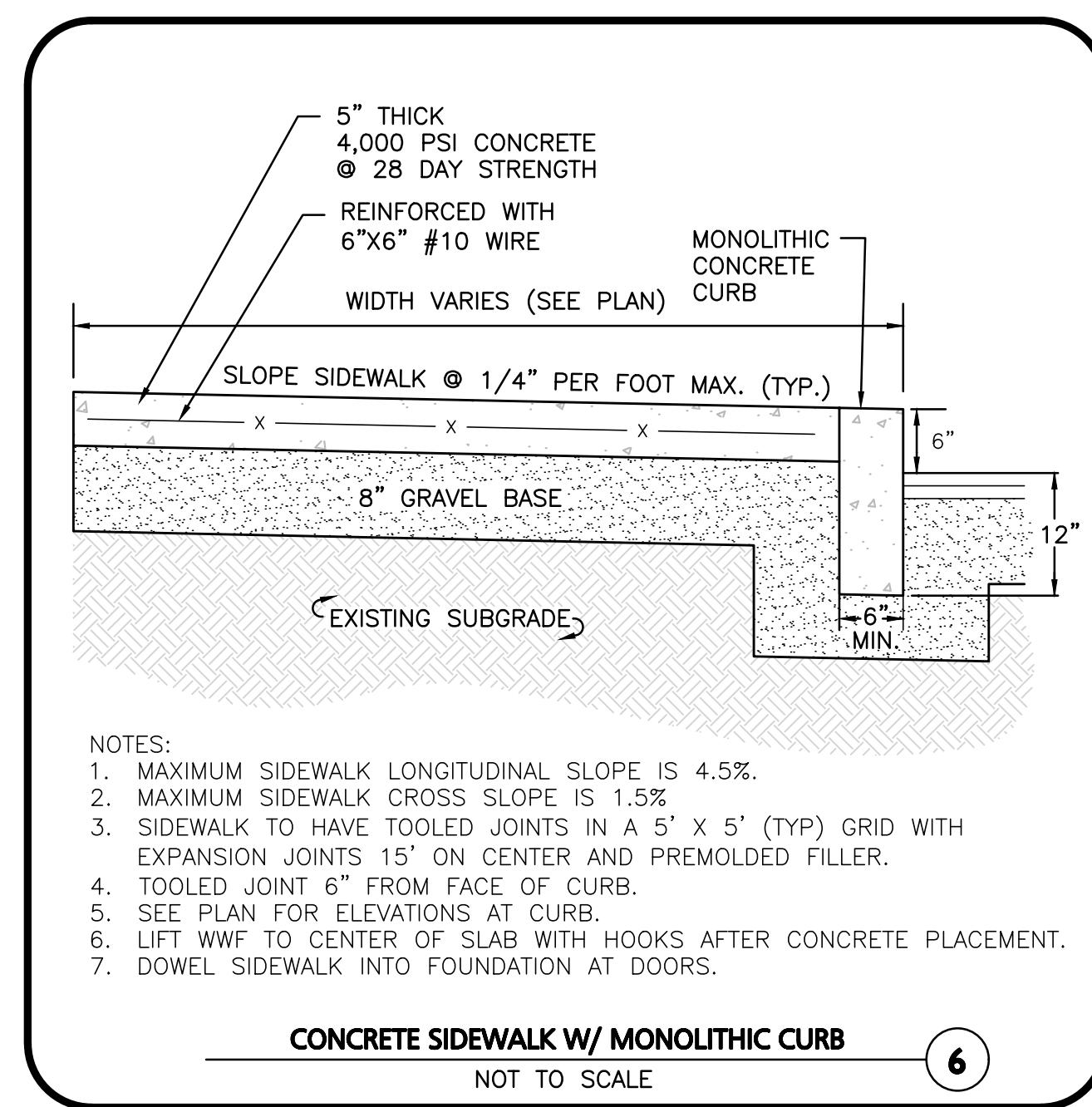
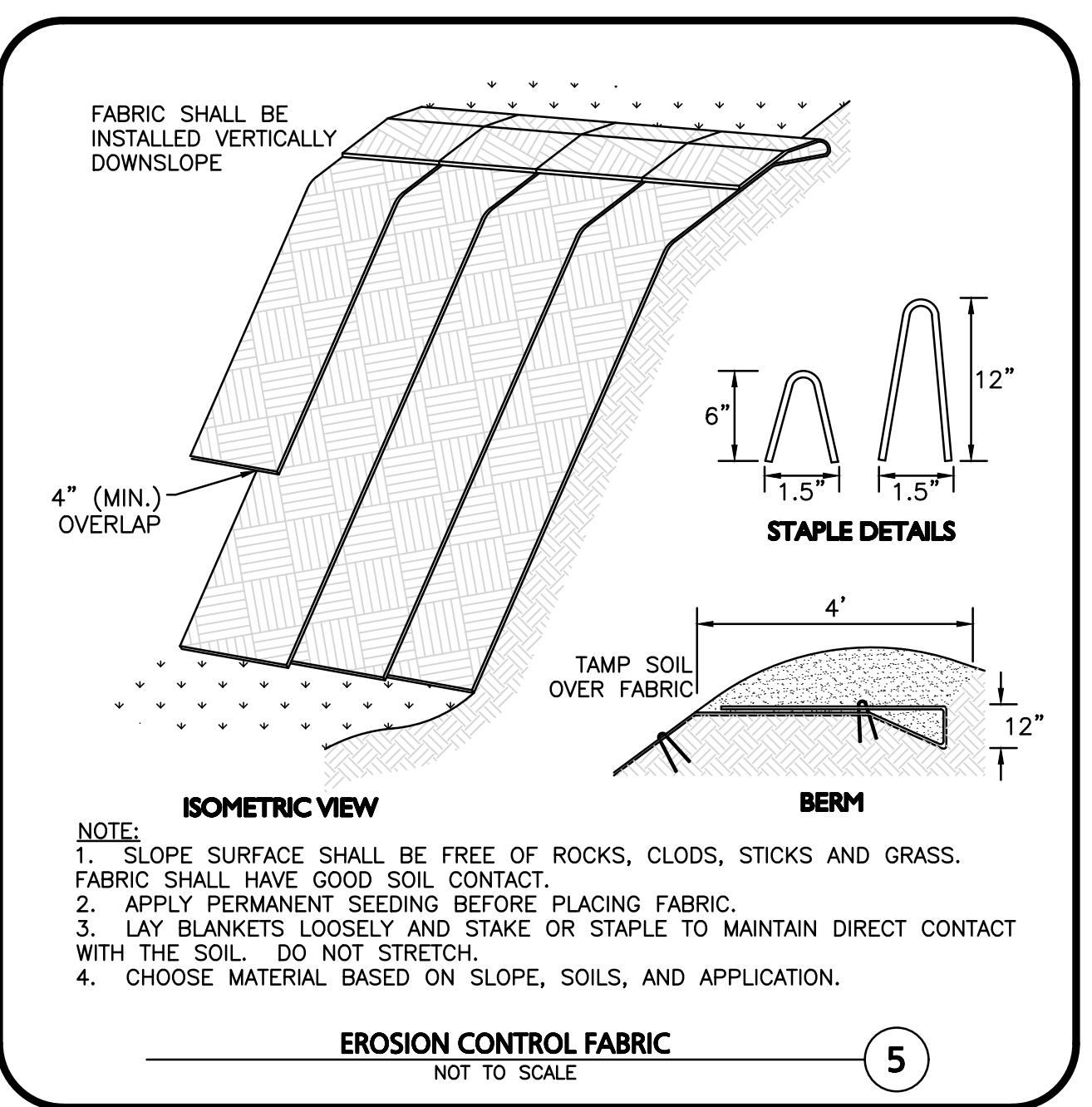
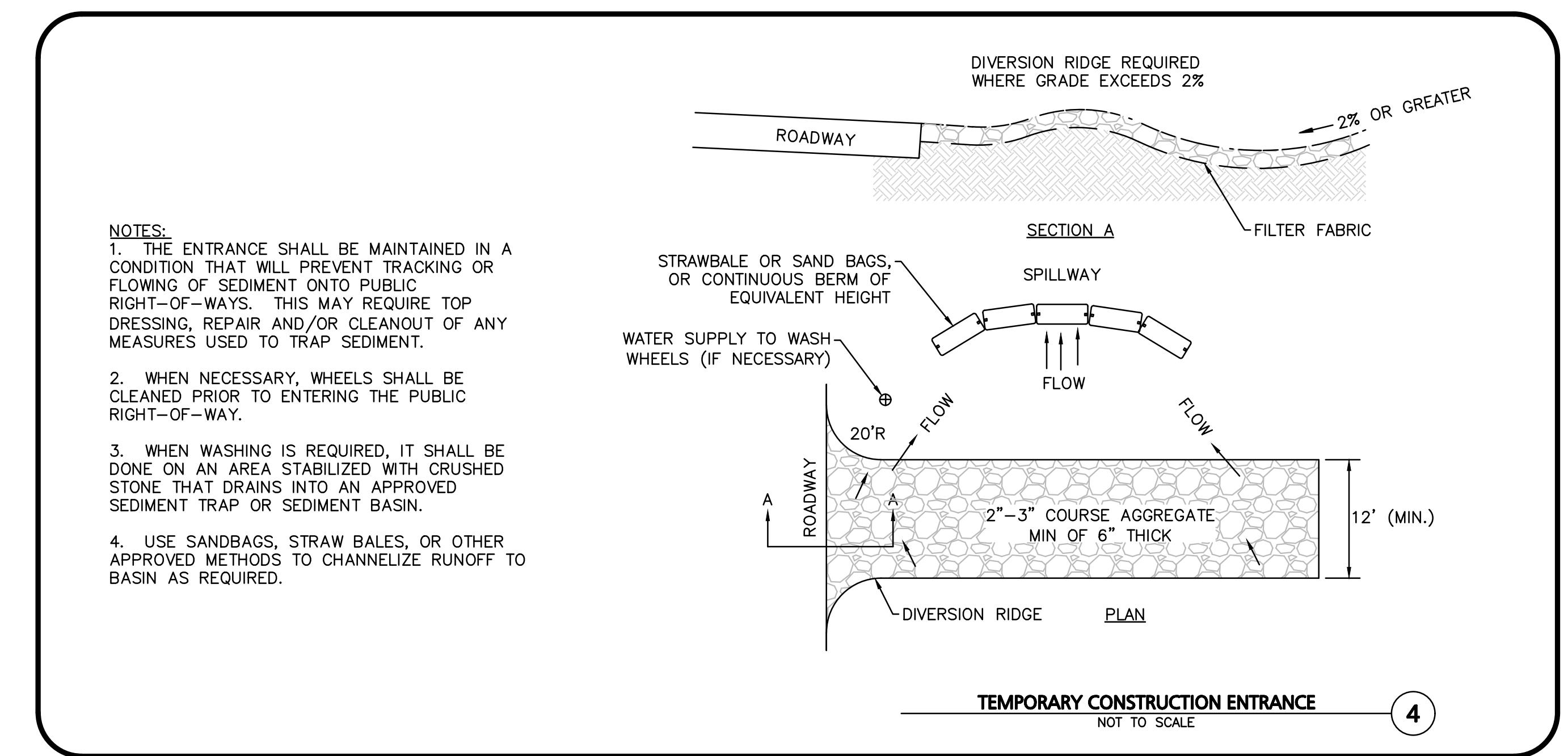
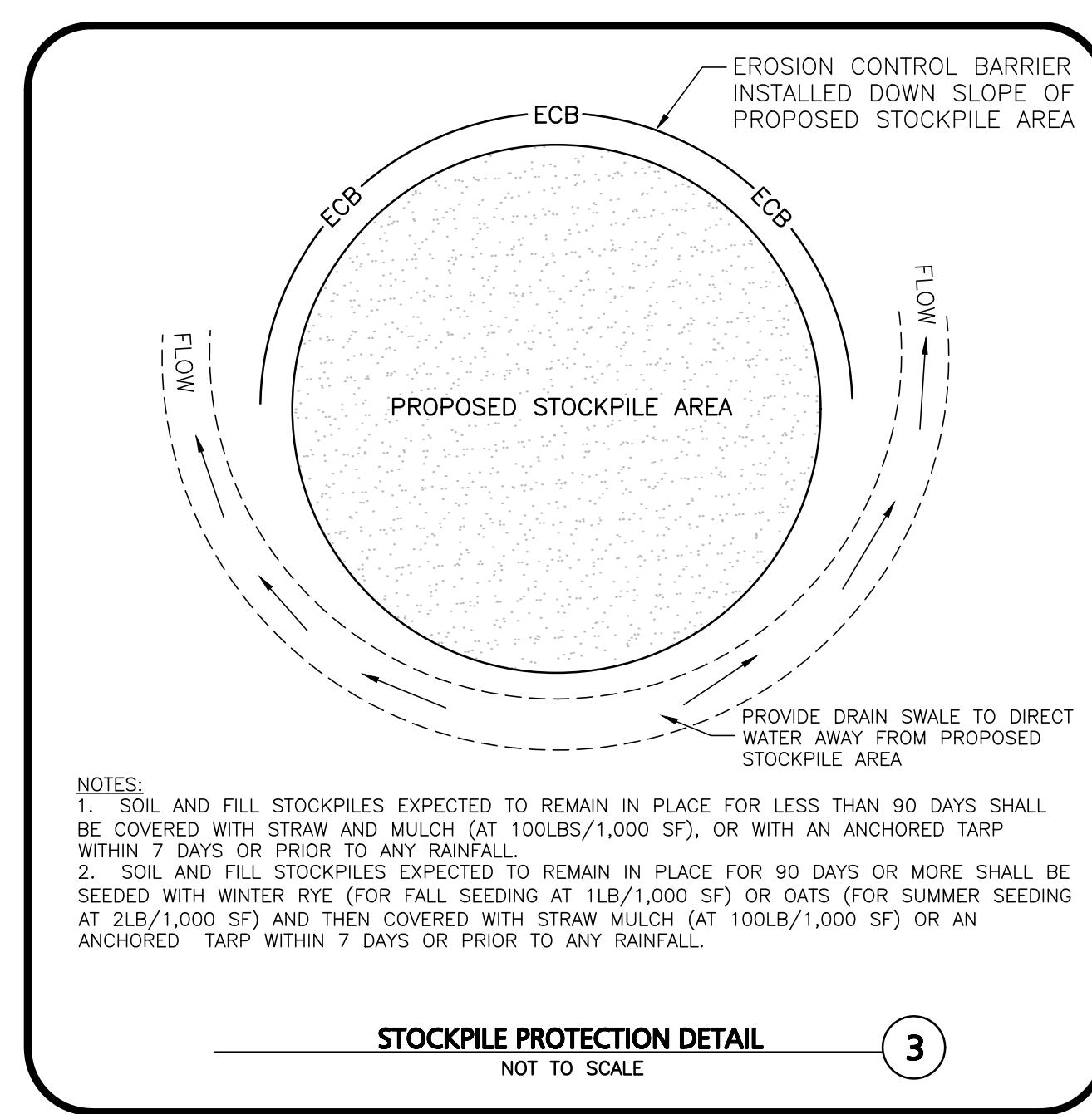
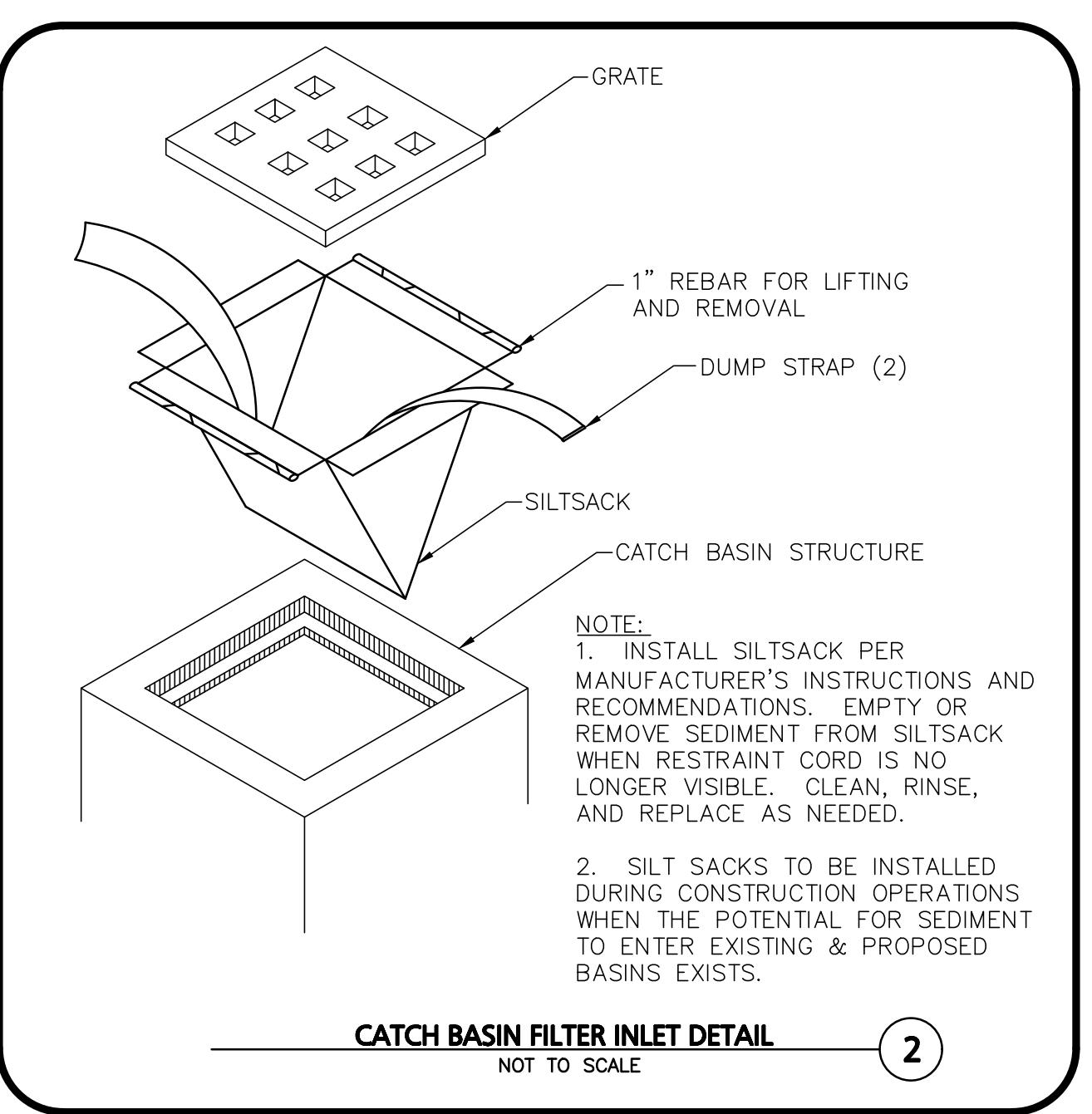
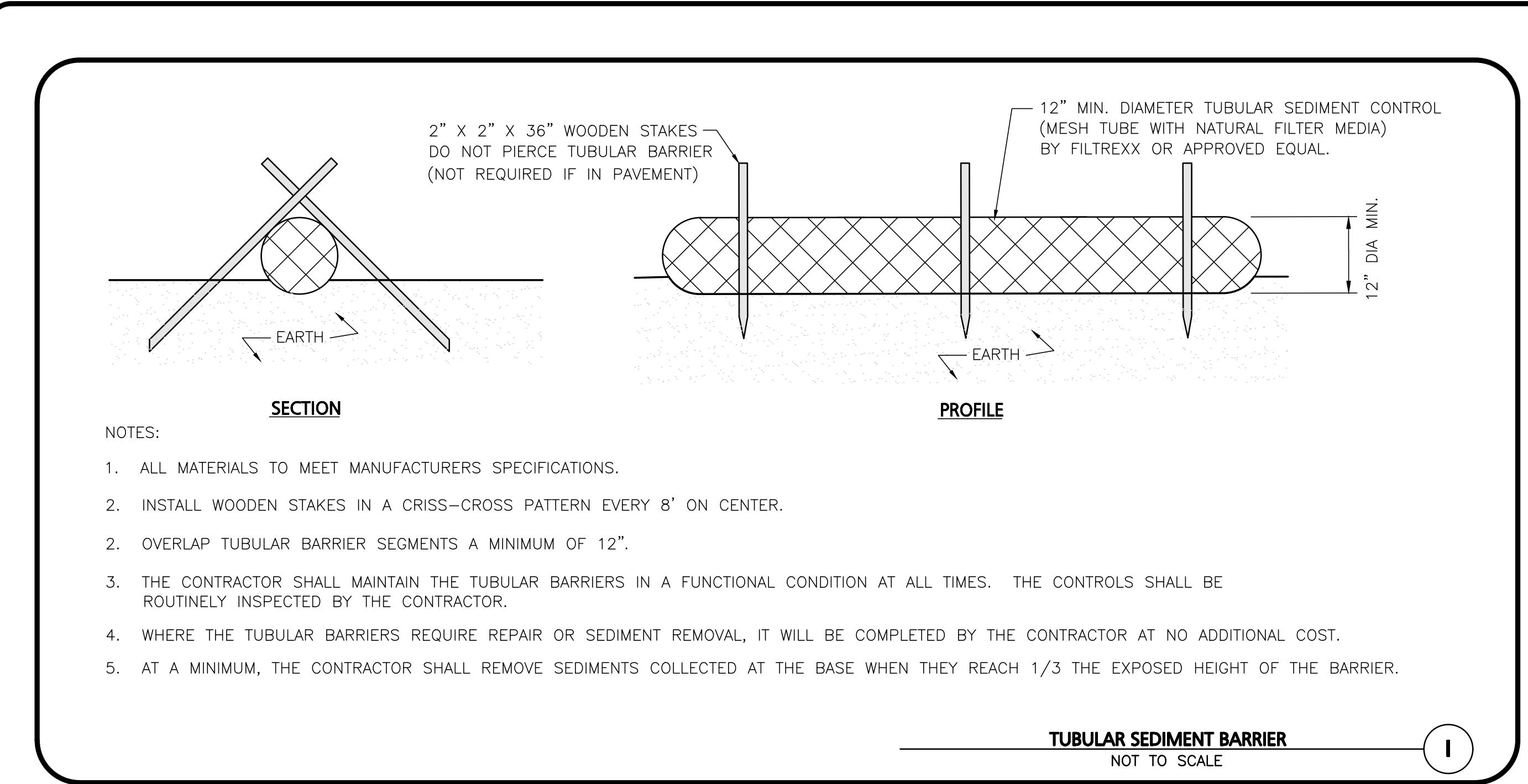
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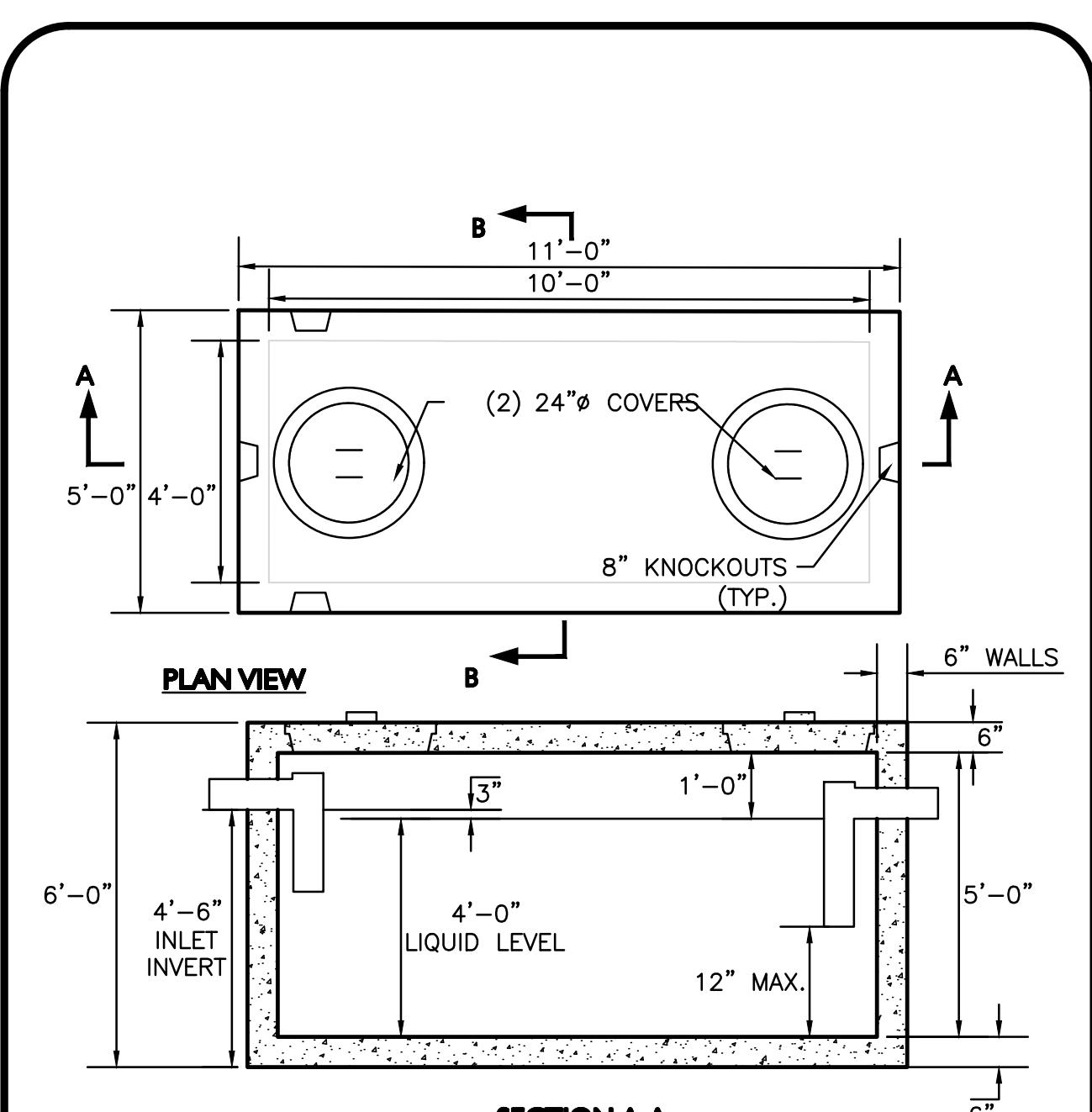
CHAIN LINK FENCE

CONC. CURB
 CONC. WALL

H.H.

CONC. CURB
 CONC. WALL</p





MANUFACTURER'S NOTES:

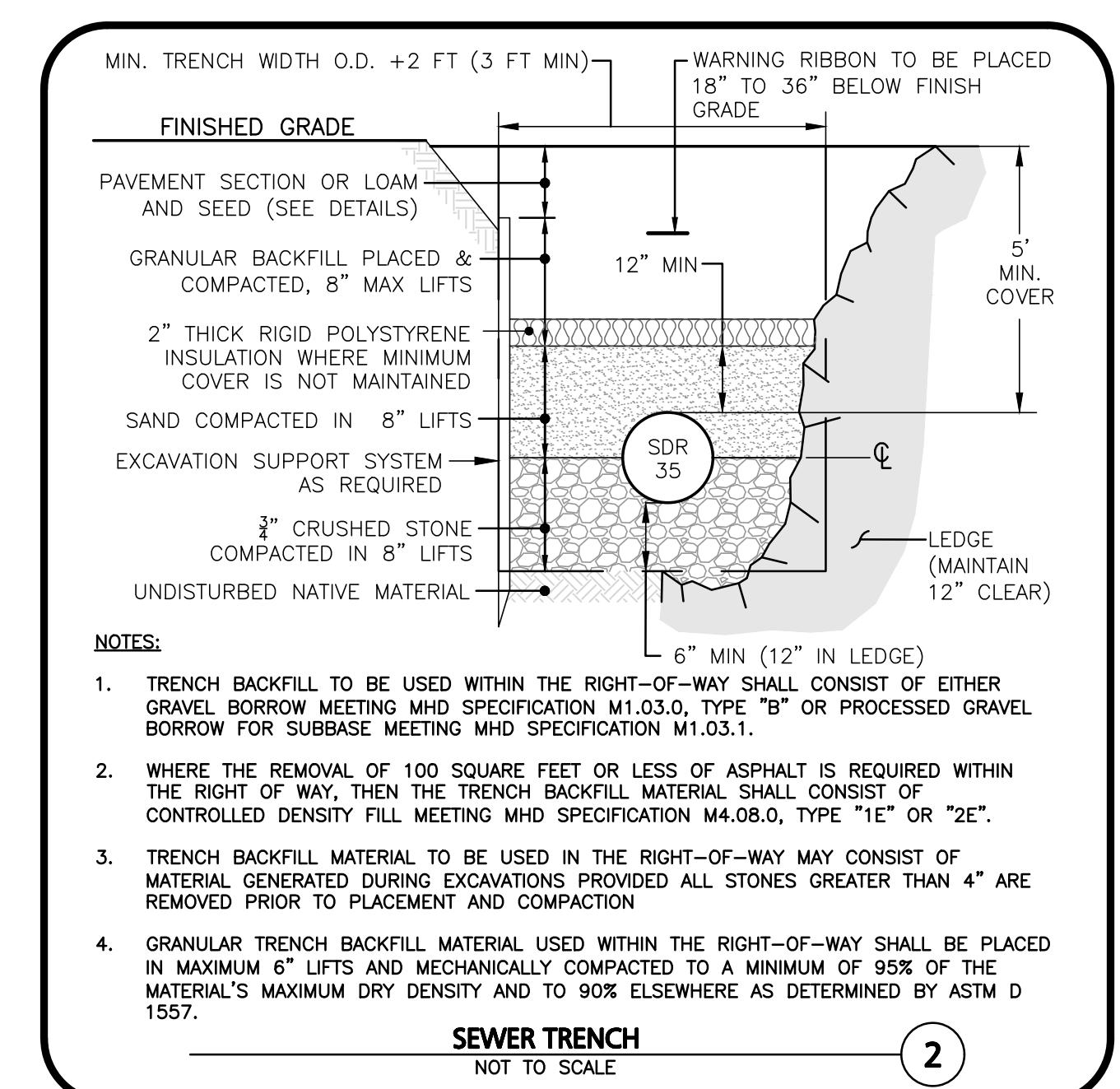
1. CONCRETE: 5,000 PSI MINIMUM STRENGTH @ 28 DAYS.
2. STEEL REINFORCING-ASTM A-615, GRADE 60.
3. COVER TO STEEL-1" MINIMUM.
4. TANKS ARE DESIGNED TO MEET ASTM C858 AND ACI 318 WITH ASHHTO HS-20 LOADING.
5. EARTH COVER: 1 TO 5 FEET MAX.
6. CONSTRUCTION JOINT SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT.
7. APPROX. WEIGHTS: TOP SLAB = 2.3 TONS; BOTTOM SECTION = 8.5 TONS.

ADDITIONAL NOTES:

1. ALL PIPE GOING TO, WITHIN, AND TO 10 FEET BEYOND THE CONCRETE STRUCTURE, INCLUDING THE 4" VENT PIPE, SHALL BE THE RESPONSIBILITY OF THE PLUMBING PROFESSIONAL.
2. ALL PIPE, INCLUDING THE 4" VENT PIPE TO THE ROOF, SHALL BE CAST IRON.
3. THE PLUMBING PROFESSIONAL SHOULD COORDINATE INSTALLATION OF THE TANK, ACCESS MANHOLES, AND DETAILS OF EXCAVATION, BACKFILLING, AND WATERPROOFING WITH THE CIVIL ENGINEER.
4. ADJUST TO GRADE WITH MINIMUM 12" OF CONCRETE BRICK AND MORTAR (RED BRICK SHALL NOT BE USED).
5. BUTYL RUBBER JOINT SEALANT SHALL BE USED AT ALL JOINTS.

GREASE TRAP (1,000 GAL)
NOT TO SCALE

1

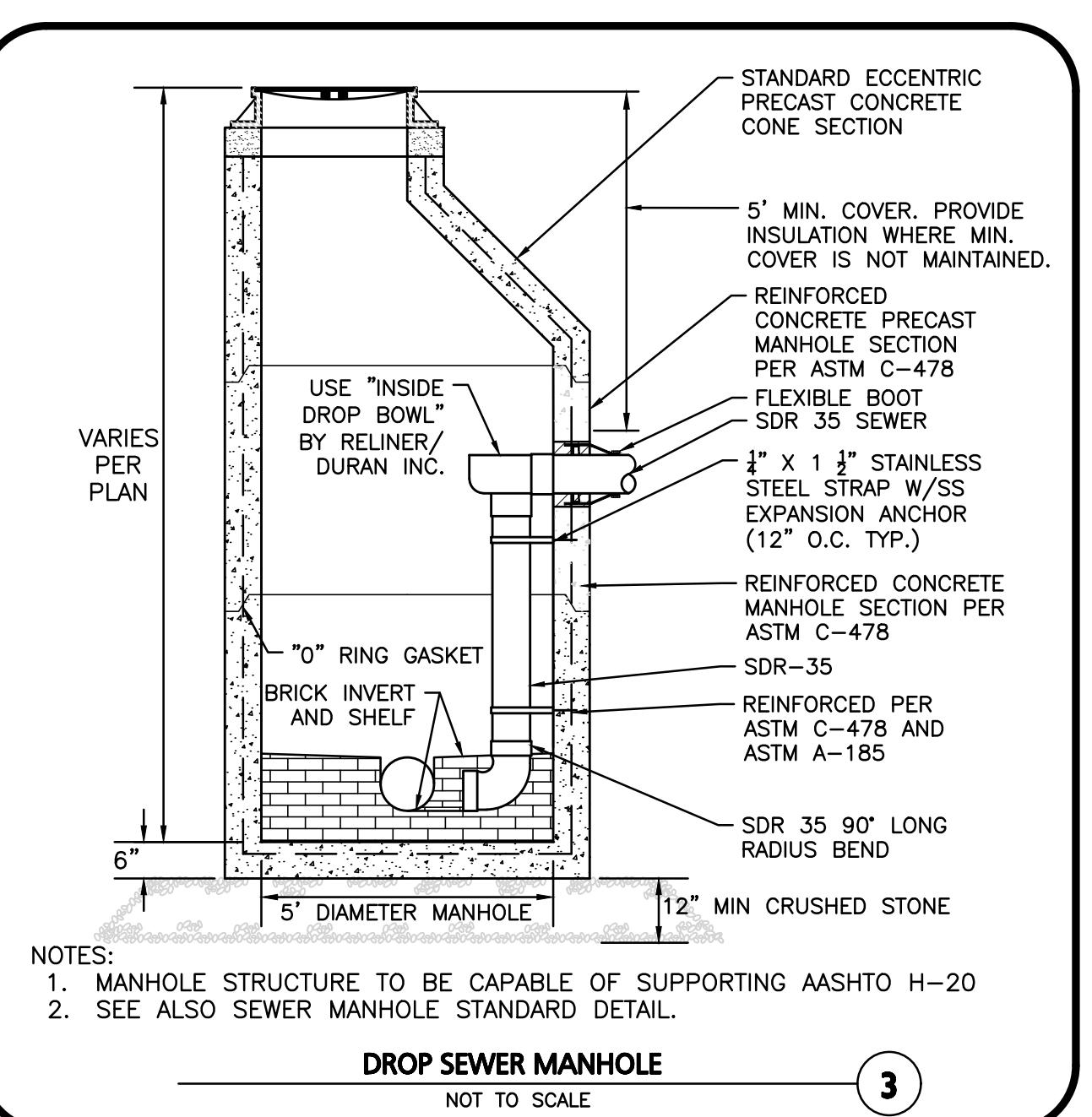


NOTES:

1. TRENCH BACKFILL TO BE USED WITHIN THE RIGHT-OF-WAY SHALL CONSIST OF EITHER GRAVEL, BORROW MEETING MHD SPECIFICATION M1.03.0, TYPE "B" OR PROCESSED GRAVEL BORROW FOR SUBBASE MEETING MHD SPECIFICATION M1.03.1.
2. WHERE THE REMOVAL OF 100 SQUARE FEET OR LESS OF ASPHALT IS REQUIRED WITHIN THE RIGHT-OF-WAY, THEN THE TRENCH BACKFILL MATERIAL SHALL CONSIST OF CONTROLLED DENSITY FILM MEETING MHD SPECIFICATION M4.08.0, TYPE "1E" OR "2E".
3. TRENCH BACKFILL MATERIAL TO BE USED IN THE RIGHT-OF-WAY MAY CONSIST OF MATERIAL GENERATED DURING EXCAVATIONS PROVIDED ALL STONES GREATER THAN 4" ARE REMOVED PRIOR TO PLACEMENT AND COMPACTION.
4. GRANULAR TRENCH BACKFILL MATERIAL USED WITHIN THE RIGHT-OF-WAY SHALL BE PLACED IN MAXIMUM 6" LIFTS AND MECHANICALLY COMPACTION TO A MINIMUM OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AND TO 90% ELSEWHERE AS DETERMINED BY ASTM D 1557.

SEWER TRENCH
NOT TO SCALE

2

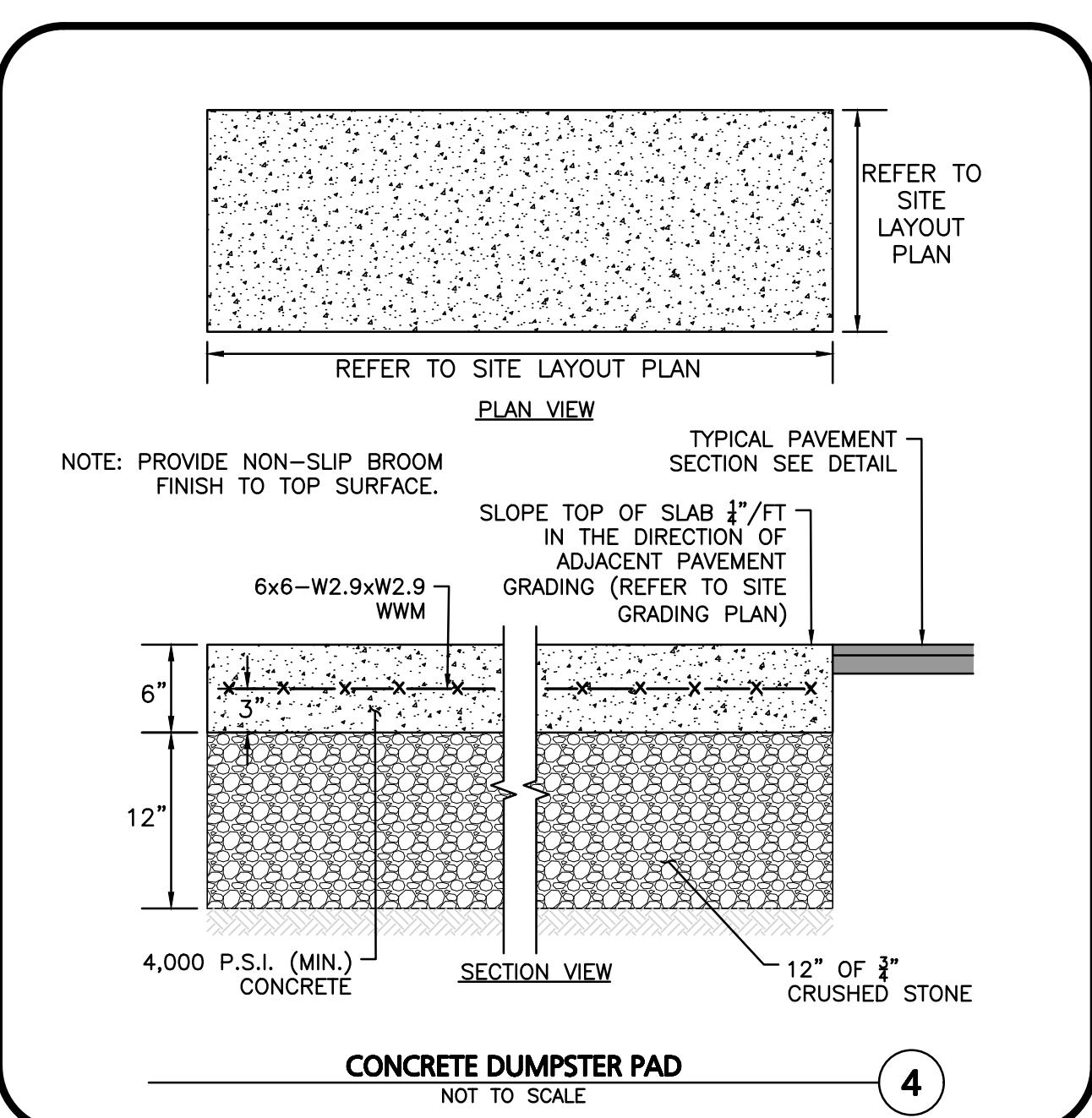


NOTES:

1. MANHOLE STRUCTURE TO BE CAPABLE OF SUPPORTING AASHTO H-20
2. SEE ALSO SEWER MANHOLE STANDARD DETAIL.

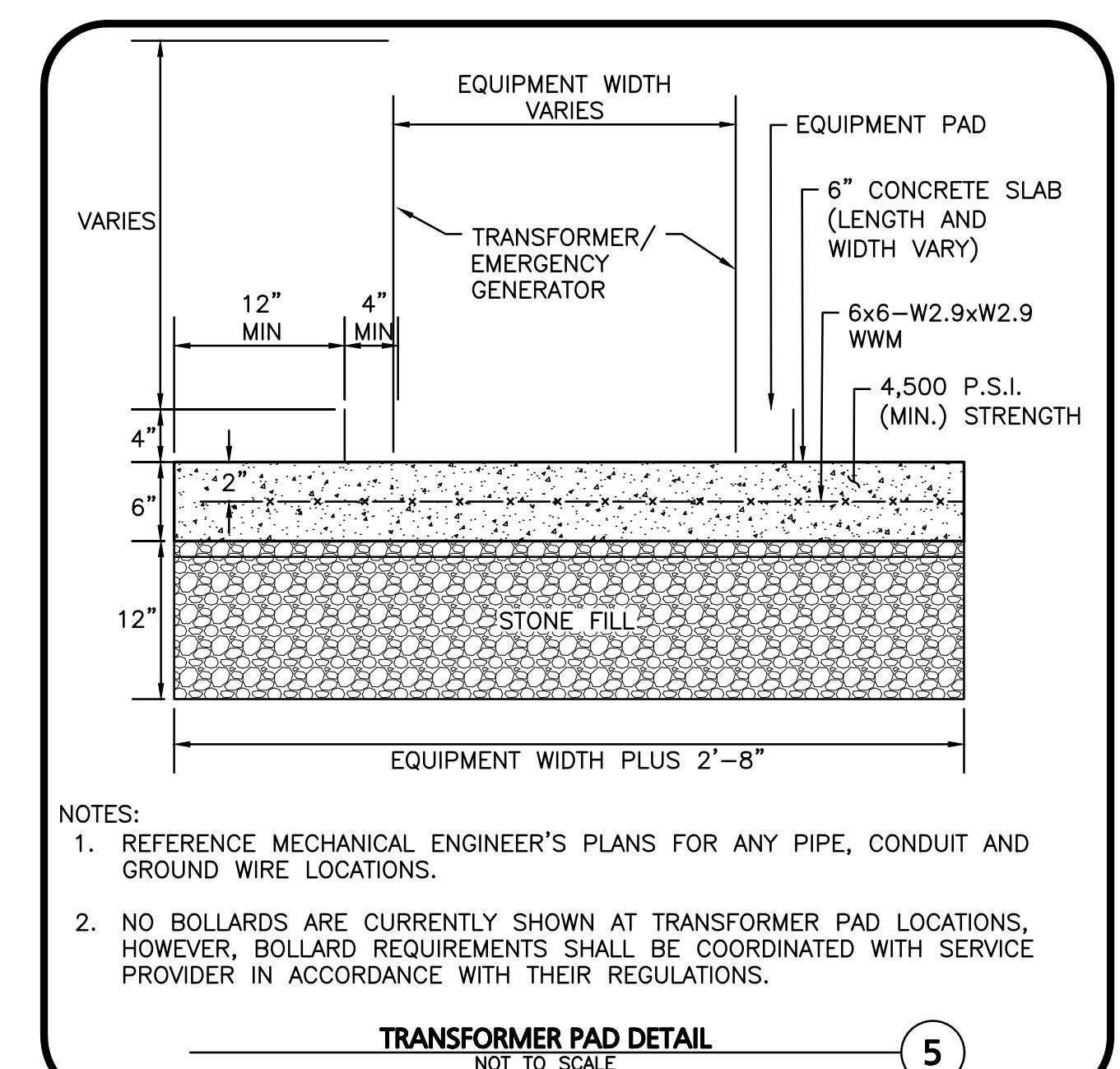
DROP SEWER MANHOLE
NOT TO SCALE

3



CONCRETE DUMPSTER PAD
NOT TO SCALE

4

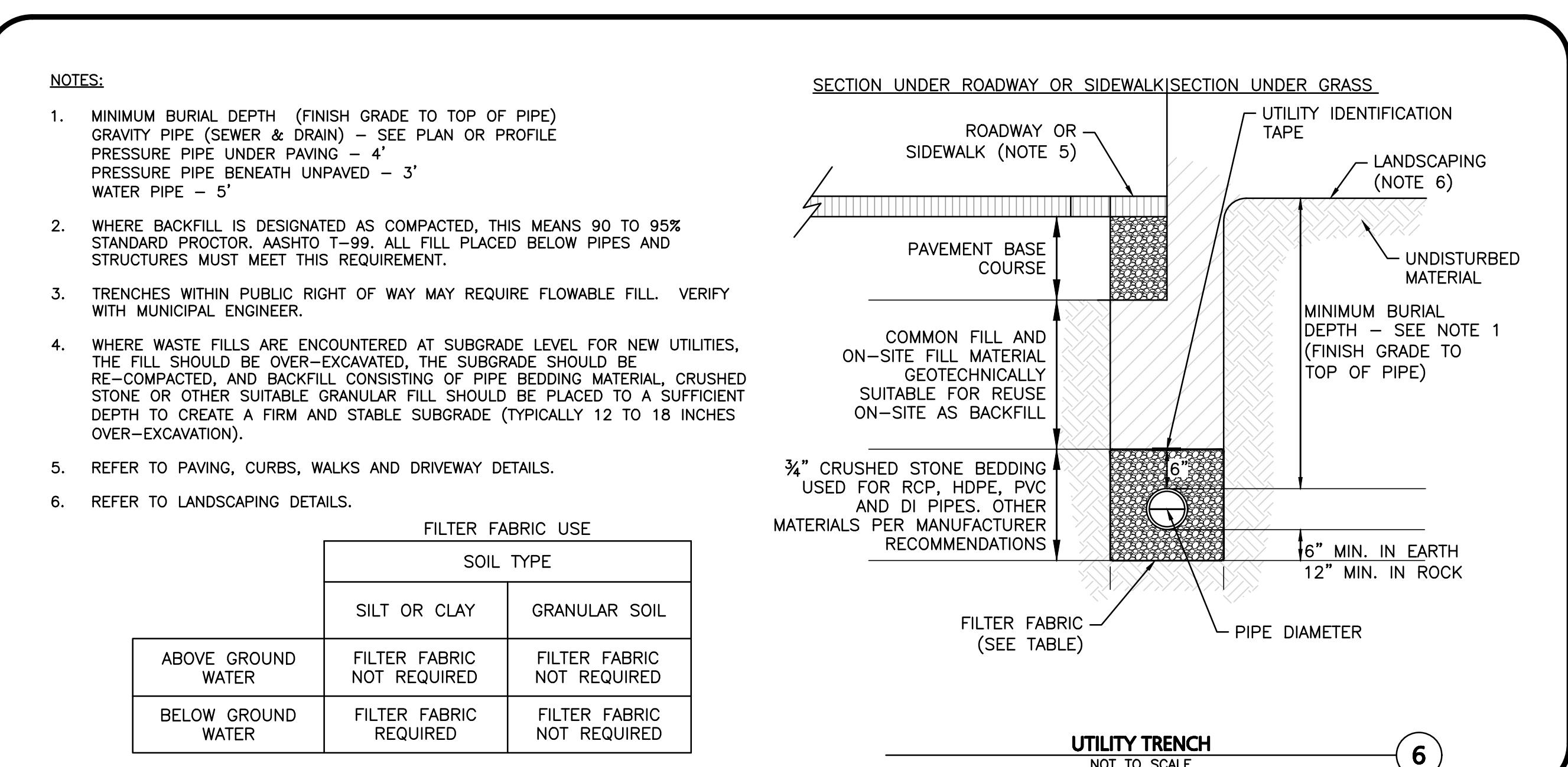


NOTES:

1. REFERENCE MECHANICAL ENGINEER'S PLANS FOR ANY PIPE, CONDUIT AND GROUND WIRE LOCATIONS.
2. NO BOLLARDS ARE CURRENTLY SHOWN AT TRANSFORMER PAD LOCATIONS, HOWEVER, BOLLARD REQUIREMENTS SHALL BE COORDINATED WITH SERVICE PROVIDER IN ACCORDANCE WITH THEIR REGULATIONS.

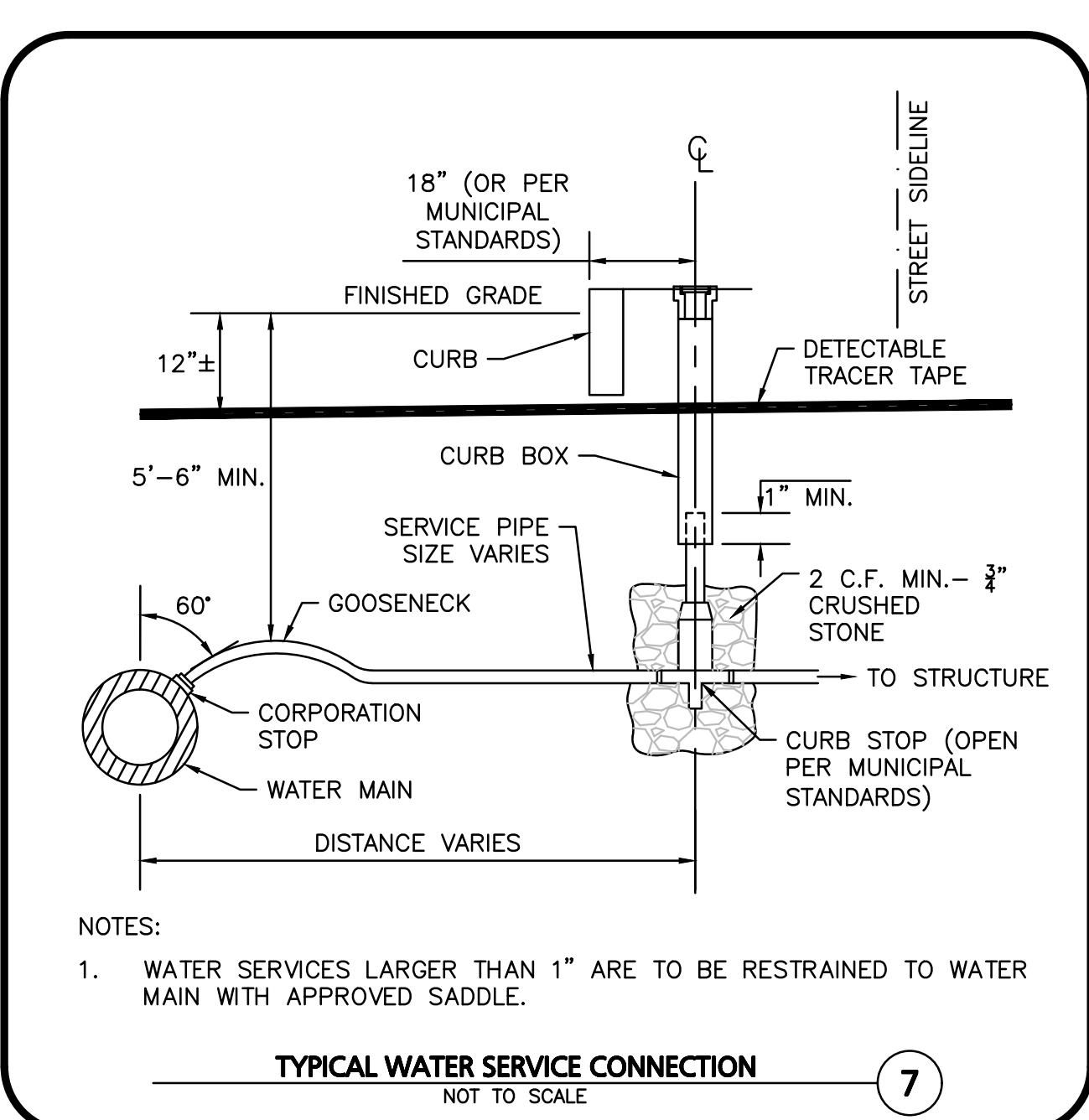
TRANSFORMER PAD DETAIL
NOT TO SCALE

5



UTILITY TRENCH
NOT TO SCALE

6

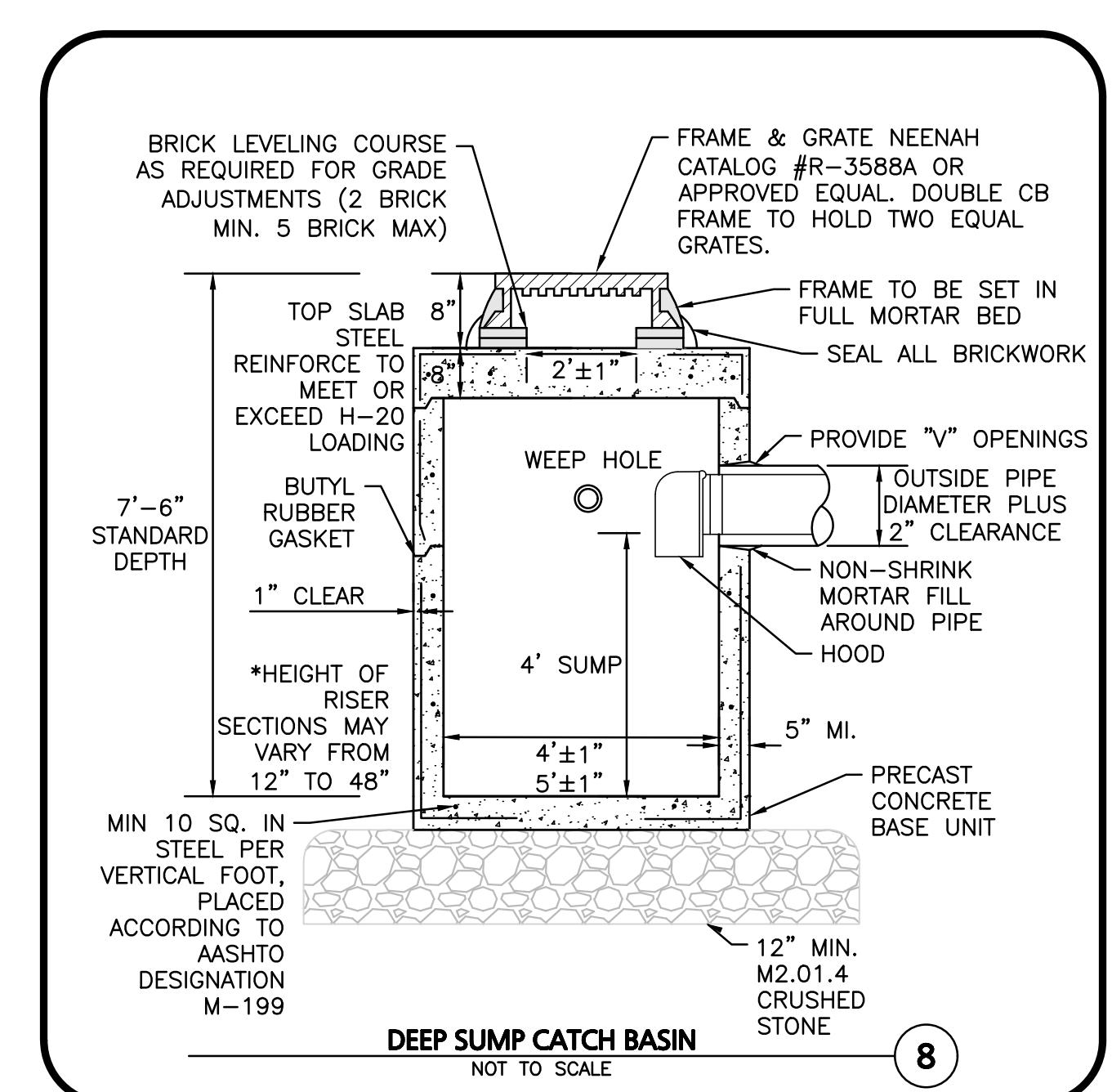


NOTES:

1. WATER SERVICES LARGER THAN 1" ARE TO BE RESTRAINED TO WATER MAIN WITH APPROVED SADDLE.

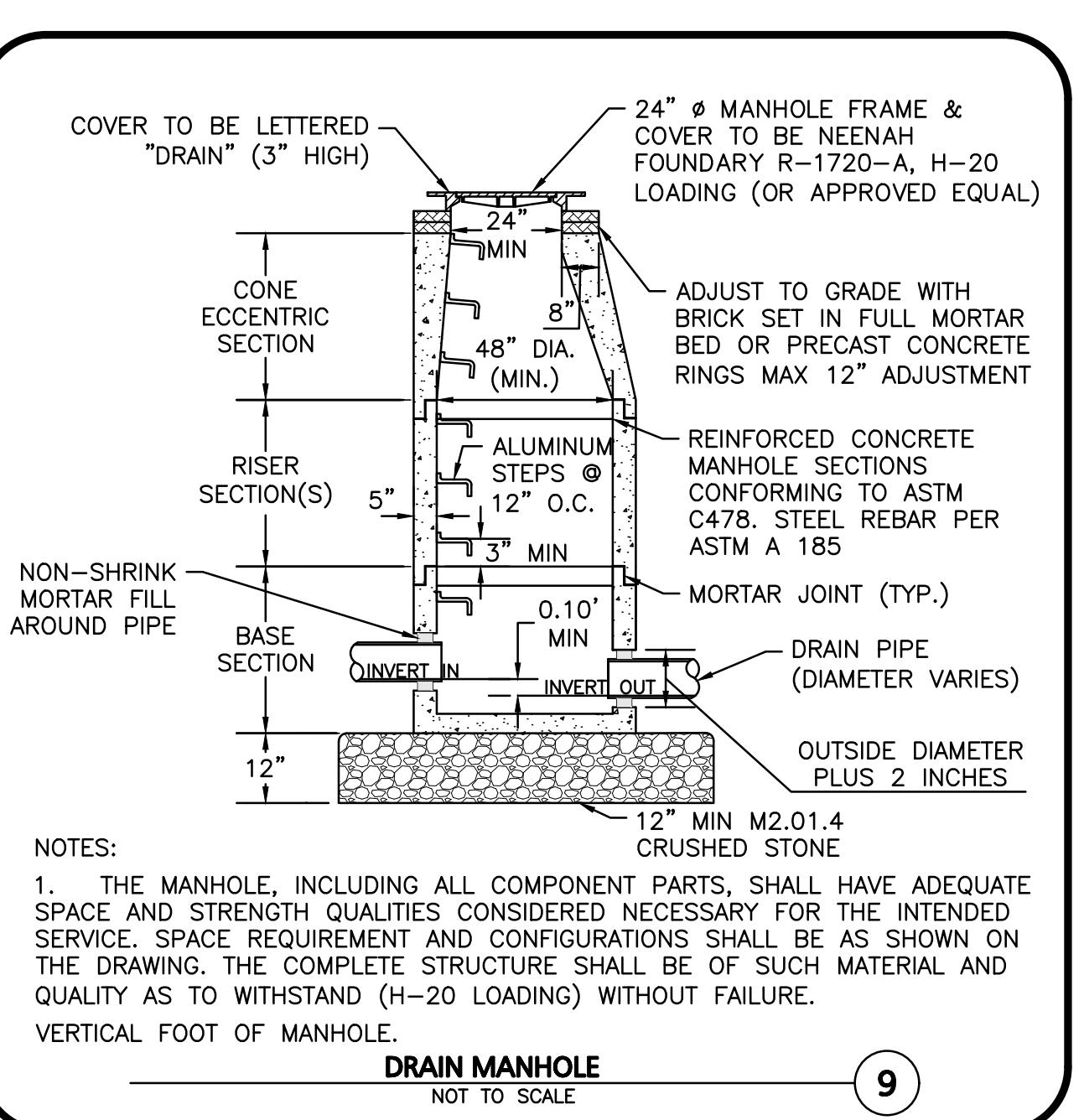
TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

7



DEEP SUMP CATCH BASIN
NOT TO SCALE

8

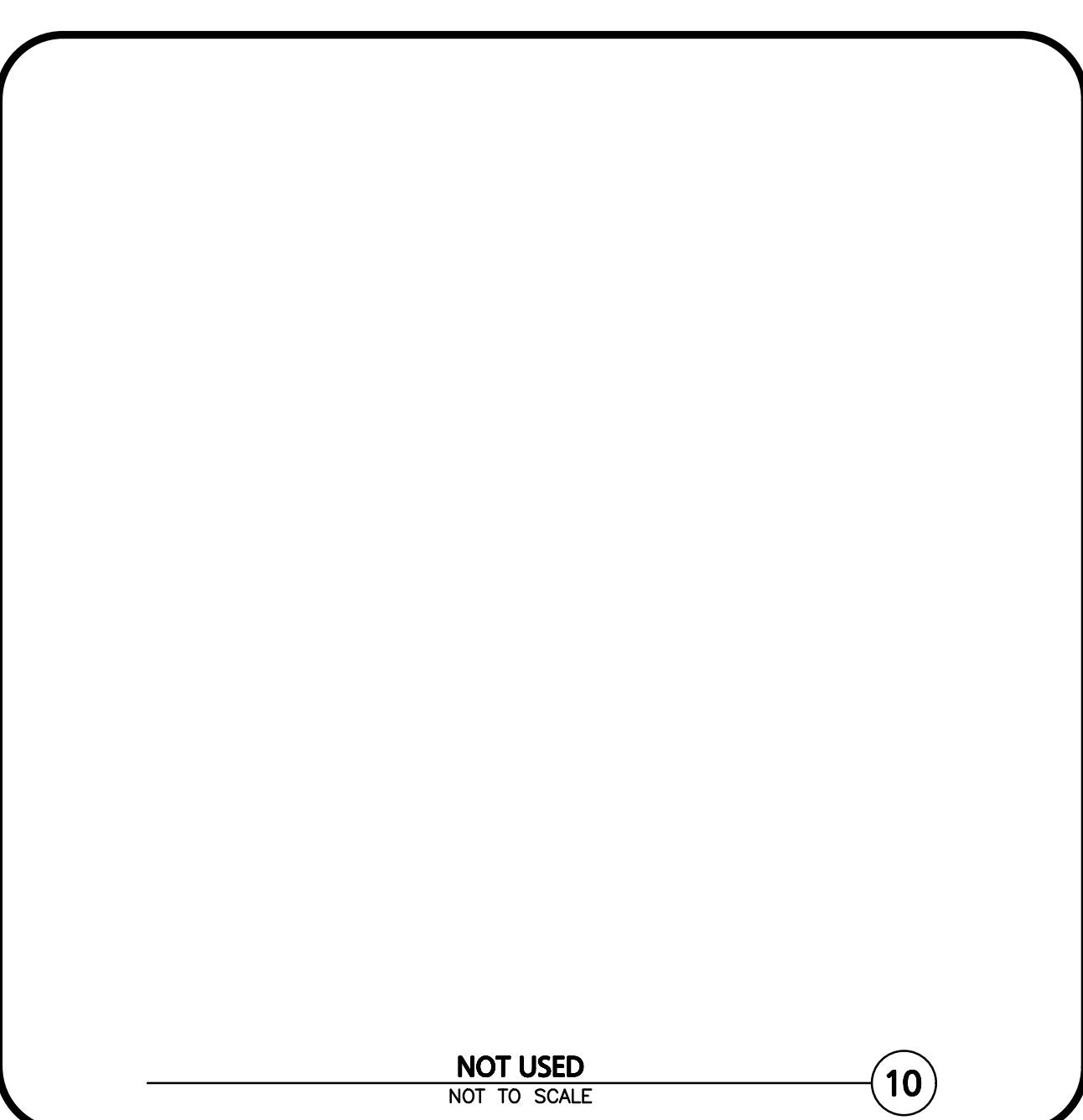


NOTES:

1. THE MANHOLE, INCLUDING ALL COMPONENT PARTS, SHALL HAVE ADEQUATE SPACE AND STRENGTH QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENT AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND (H-20 LOADING) WITHOUT FAILURE.

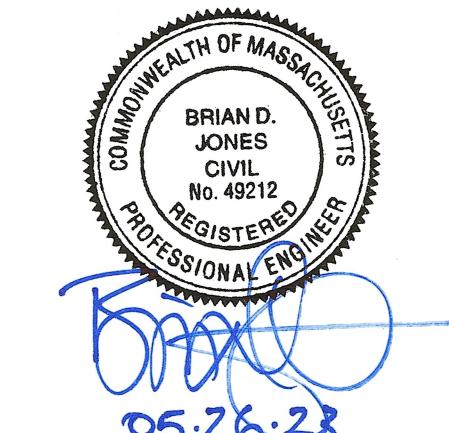
DRAIN MANHOLE
NOT TO SCALE

9



NOT USED
NOT TO SCALE

10



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
REV DATE DESCRIPTION

APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: AS SHOWN DWG. NAME: C-3115-01A

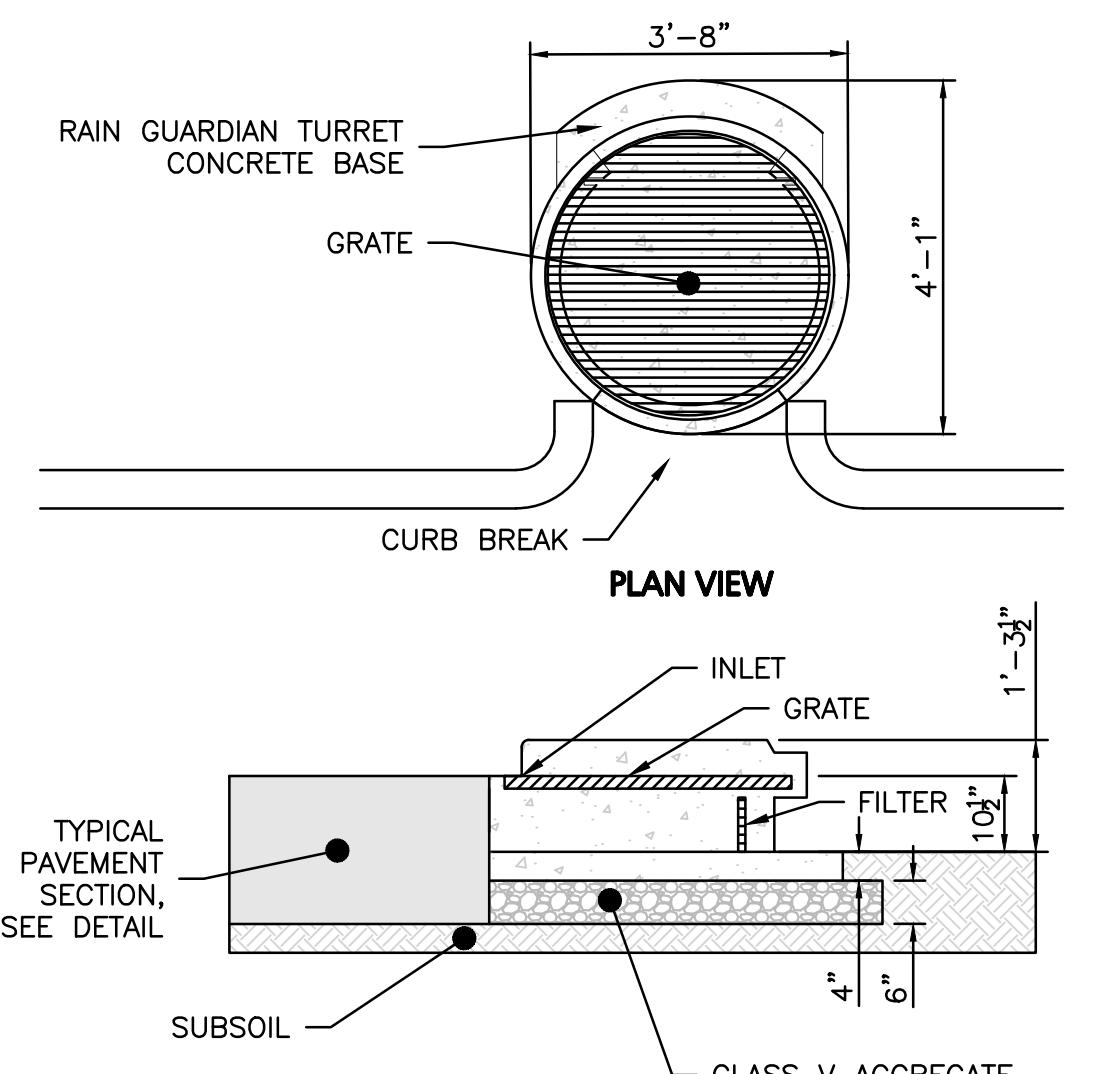
DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

**ALLEN & MAJOR
ASSOCIATES, INC.**
civil engineering • land surveying
environmental consulting • landscape architecture
www.allen-major.com
100 COMMERCIAL WAY, SUITE 5
WOBURN, MA 01801
TEL: (781) 935-8889
FAX: (781) 935-2896

WOBURN, MA • LAKELVILLE, MA • MANCHESTER, NH
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DRAWING TITLE: DETAILS
SHEET NO. C-503



NOTES:

1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS).
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (4% TO 8% BY VOLUME).
3. MANUFACTURED AND DESIGNED TO ASTM C858.
4. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
5. SOIL UNDER BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.
6. TWO-PIECE LIGHT DUTY GALVANIZED GRATE (34.5 LBS/PIECE) FOR 541 LB CONCENTRATED LOAD OR 309 LB/SQ FT UNIFORM LOAD.
7. TWO-PIECE HEAVY DUTY GALVANIZED GRATE (77.5 LBS/PIECE) FOR 2,456 LB CONCENTRATED LOAD OR 1,404 LB/SQ FT UNIFORM LOAD.
8. USE EXPANSION JOINT MATERIAL BETWEEN TURRET AND BIOPRETENTION INLET.

SECTION VIEW

RAIN GUARDIAN TURRET - TYPICAL DETAIL

NOT TO SCALE

1

NOT USED

NOT TO SCALE

2

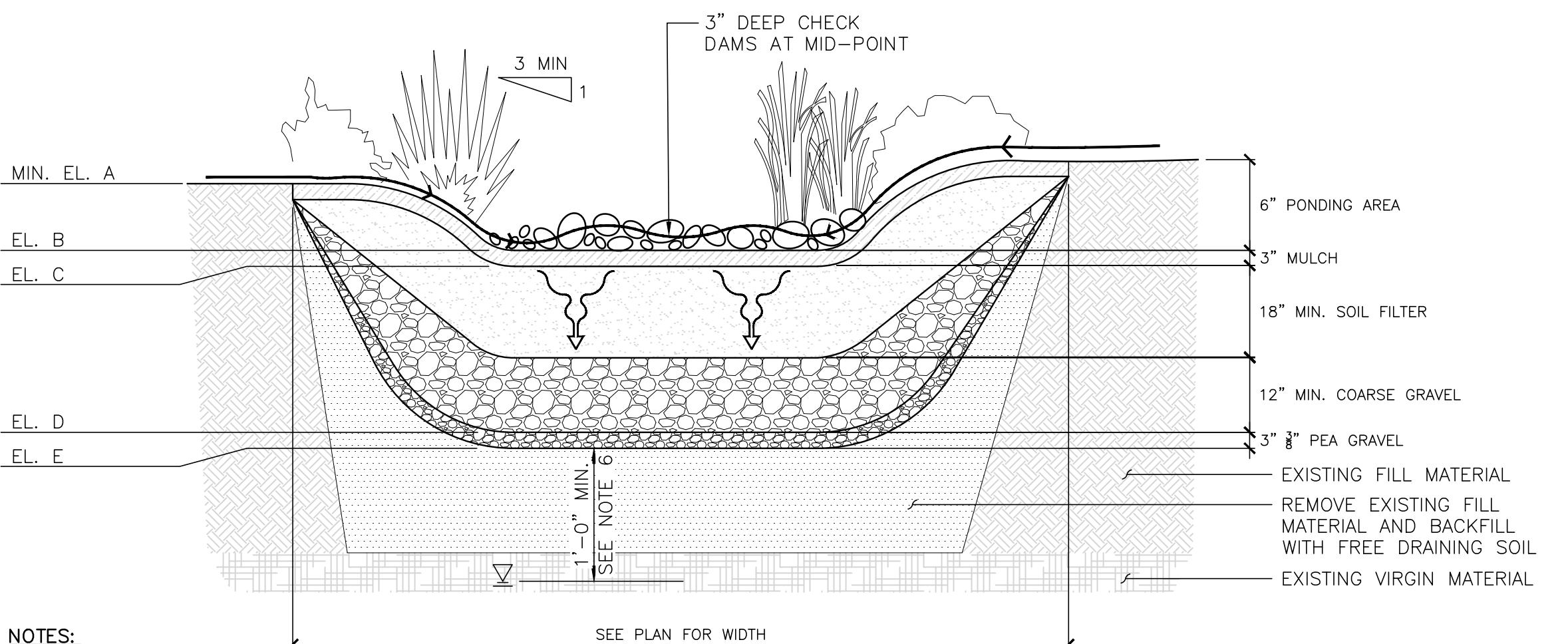
NOT USED

NOT TO SCALE

3

BIOPRETENTION ELEVATION TABLE		
ELEV. ID	BIOPRETENTION #1	BIOPRETENTION #2
A	137.00	137.00
B	136.50	136.50
C	136.25	136.25
D	133.75	133.75
E	133.50	133.50

BIOPRETENTION FILTER MEDIA			
COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	GRADATION OF MATERIAL	
		SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE
FILTER MEDIA OPTION A			
ASTM C-22 CONCRETE SAND	50 TO 55		
LOAMY SAND TOPSOIL, WITH FINES AS INDICATED	20 TO 30	200	15 TO 25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	<5
FILTER MEDIA OPTION B			
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	<5
LOAMY COARSE SAND	70 TO 80	10 20 60 200	85 TO 100 70 TO 100 15 TO 40 8 TO 15



1. SEE LANDSCAPE PLAN FOR PLANT TYPES.
2. GRADING, AND PLANTING OF BIOPRETENTION SHALL BE COMPLETED IN EARLY PHASES OF CONSTRUCTION. PLANTS AND SEED ON SLOPES AND BOTTOM OF BASIN MUST BE ESTABLISHED PRIOR TO CONNECTING STORM DRAINAGE SYSTEM OUTLETS TO BIOPRETENTION AREA. PLANTS AND SEED MIX SHALL HAVE A MINIMUM OF 6 MONTHS GROWING, BE ESTABLISHED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONNECTING STORM DRAINAGE SYSTEM OUTLETS TO BIOPRETENTION AREA.
3. EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN, SHALL BE IN PLACE PRIOR TO ANY REGRADING ACTIVITY.
4. EXCAVATION, FILLING AND PLANTING SHALL OCCUR IN THE DRY. WATER LEVELS MUST BE LOWERED IN THE BIOPRETENTION AREA BY RELYING ON DRY SEASON AND OR DRY SPELLS; OR MAY BE ACCOMPLISHED THROUGH THE USE OF DEWATERING METHODS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ANY DEWATERING METHODS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
5. WATER FROM ANY DEWATERING OPERATION SHALL BE TREATED TO REDUCE TOTAL SUSPENDED SOLIDS AND BE IN COMPLIANCE WITH STATE AND FEDERAL STANDARDS.
6. A MINIMUM OF 1 FOOT SEPARATION BETWEEN THE BOTTOM OF THE PRACTICE AND SEASONAL HIGH WATER TABLE SHALL BE PROVIDED, VERIFY IN FIELD. IF SEPARATION CAN NOT BE ACHIEVED, SET UNDERDRAIN AT BOTTOM OF COARSE GRAVEL LAYER, OMIT PEA GRAVEL LAYER, AND PROVIDE IMPERMEABLE LINER AT BOTTOM OF PRACTICE.

BIOPRETENTION SYSTEM DETAIL

NOT TO SCALE

4

NOT USED

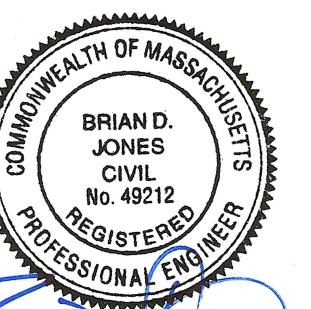
NOT TO SCALE

7

NOT USED

NOT TO SCALE

8

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.1 05-26-23 REVISION 1
REV DATE DESCRIPTION
APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: AS SHOWN DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

ALLEN & MAJOR
ASSOCIATES, INC.civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN, MA 01801
TEL: (781) 935-6899
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DRAWING TITLE: DETAILS

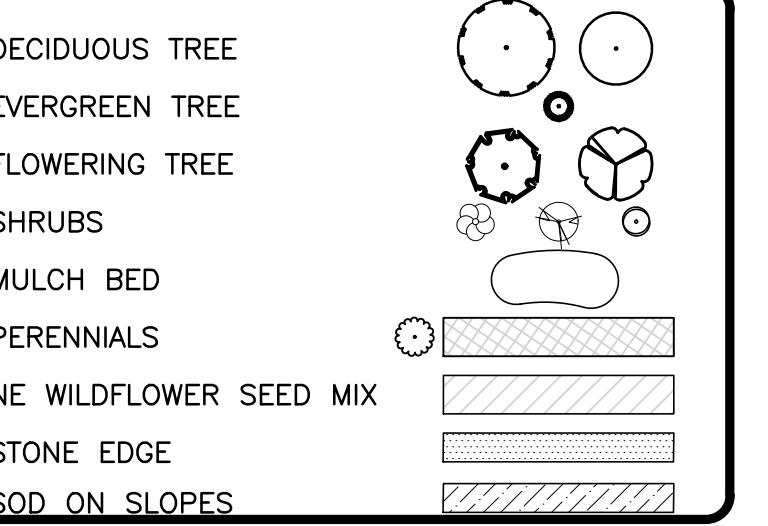
SHEET NO.

C-504

CITY OF METHUEN ZONING SUMMARY - LANDSCAPE

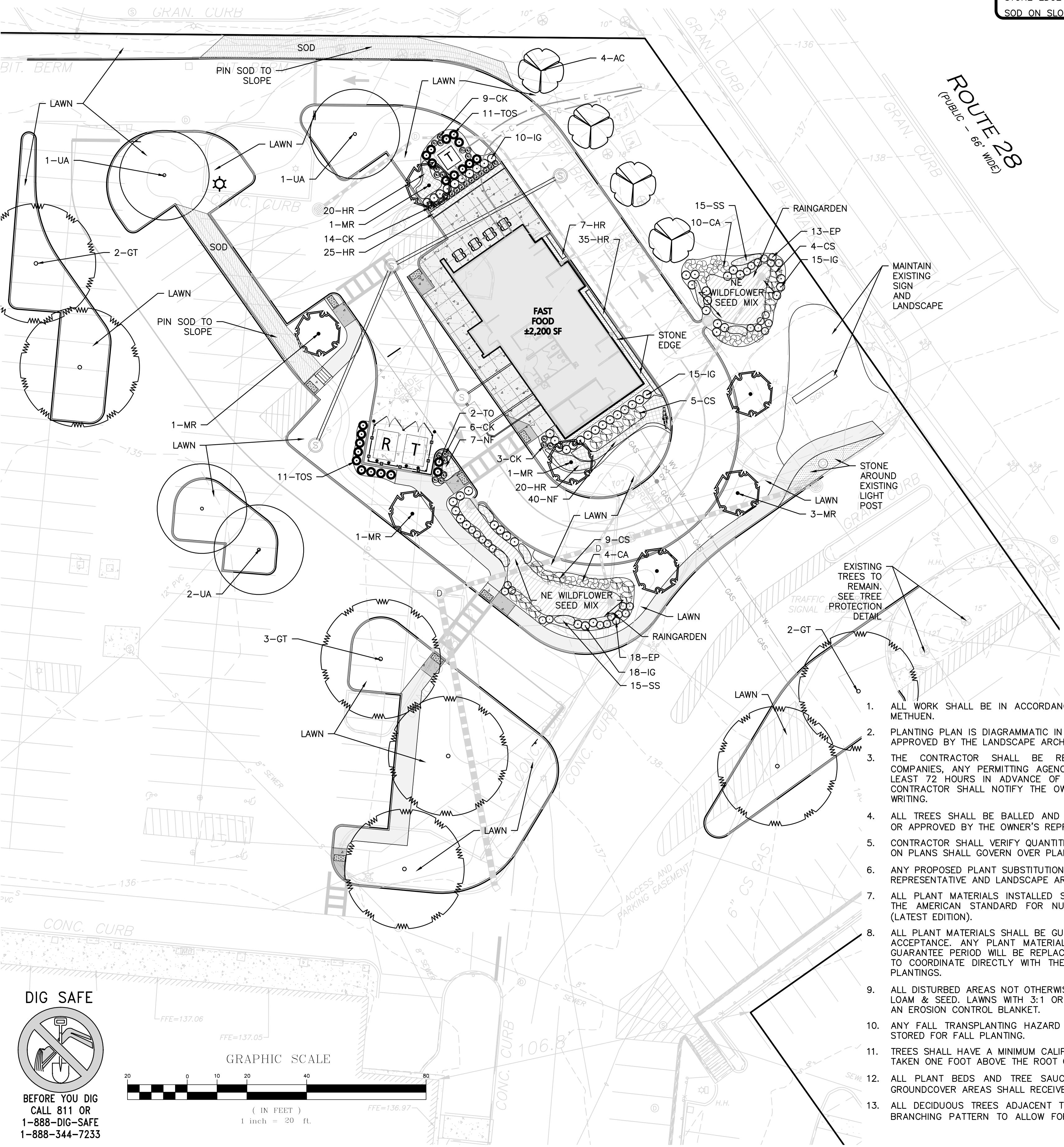
REGULATION	ITEM	REQUIRED / ALLOWED	PROPOSED
SECTION 6.2.E(4)	A FIFTEEN-FOOT LANDSCAPED STRIP SHALL BE PROVIDED ADJACENT TO THE STREET RIGHT-OF-WAY LINE WHEN A FRONT YARD IS USED FOR PARKING IN BUSINESS AND INDUSTRIAL DISTRICTS.	FIFTEEN-FOOT LANDSCAPED STRIP.	>42' PROVIDED

LEGEND



NOTES:

- EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC. AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
- VERTICAL DATUM IS NAVD88. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
- SEE SHEET L-501 FOR NOTES AND DETAILS



PLANTING SCHEDULE -TREES, SHRUBS, GROUNDCOVERS & PERENNIALS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS SHADE AND FLOWERING TREES						
*	GT	7 GLEDITIA TRIACANTHOS 'SKYLINE'	SKYLINE HONEY LOCUST	3" CAL.	AS SHOWN	B&B
*	UA	4 ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	3" CAL.	AS SHOWN	B&B
ORNAMENTAL TREES						
*	AC	4 AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	7-8' HT.	AS SHOWN	B&B - MULTISTEM
MR	7	MALUS 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	2.5-3" CAL.	AS SHOWN	B&B
EVERGREEN TREES						
*	TOS	22 THUJA OCCIDENTALIS 'SMARAGD'	AMERICAN ARBORVITAE	5-6' HT.	AS SHOWN	B&B
SHRUBS						
*	CA	14 CLETHRA ALNIFOLIA	SUMMERSWEET	#5	AS SHOWN	POT
*	CS	18 CORNUS SERICEA 'FARROW'	ARCTIC FIRE DOGWOOD	#5	AS SHOWN	POT
*	IG	58 ILEX GLABRA 'Densa'	INKBERRY	#5	AS SHOWN	POT
PERENNIALS/GRASSES						
CK	32	CALAMAGROSTIS 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#2	AS SHOWN	STAGGERED
*	EP	31 EUTROCHIUM PURPUREUM 'LITTLE JOE'	SWEET JOE PYE WEED	#2	AS SHOWN	STAGGERED
HR	107	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1	18" O.C.	STAGGERED
NF	47	NEPETA X FAASENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	#2	24" O.C.	STAGGERED
*	SS	30 SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#2	18" O.C.	STAGGERED
SEED MIX						
SEED	TBD	NE WILDFLOWER MIX	RAIN GARDEN	TBD	AS SHOWN	SEE NOTES
LAWN	TBD	LOAM AND SEED	DISTURBED AREAS	TBD	AS SHOWN	SEE NOTES
* DENOTES NATIVE SPECIES OR NATIVE CULTIVAR						
SEED MIXES FROM NEW ENGLAND WETLAND PLANTS. WWW.NEWPL.COM						

LANDSCAPE NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF METHUEN.
- PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS IN WRITING.
- ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICANHORT (LATEST EDITION).
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIALS WHICH DIE WITHIN THE ONE YEAR PLANT GUARANTEE PERIOD WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR. OWNERS TO COORDINATE DIRECTLY WITH THE LANDSCAPE CONTRACTOR FOR REPLACEMENT PLANTINGS.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED. LAWNS WITH 3:1 OR GREATER SLOPES SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET.
- ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- TREES SHALL HAVE A MINIMUM CALIPER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
- ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH. GROUNDCOVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH.
- ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7' OF CLEARANCE BETWEEN

THE GROUND AND THE LOWEST BRANCH.

- CONTRACTOR RESPONSIBLE FOR WATERING AND RESEEDING OF BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
- SOIL SAMPLES, TESTS, AND SHOP DRAWINGS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- NO MULCH IS ALLOWED WITHIN 18" OF ALL BUILDINGS PER THE LATEST EXECUTIVE OFFICE OF PUBLIC SAFETY AND SECURITY DEPARTMENT OF FIRE SERVICES REGULATION (527 CMR 17.00).
- ALL LANDSCAPED AREAS WITH SHRUBS, TREES, AND PERENNIALS TO HAVE 2 FEET MINIMUM DEPTH OF TOPSOIL. TWO FEET OF TOPSOIL AROUND TREES AND SHRUBS DOES NOT INCLUDE AMENDED PLANTING SOIL WITHIN TREE / SHRUB PIT FOR FULL DEPTH OF FOOTBALLS. SEE PLANTING DETAILS FOR PLANTING DEPTH AT SHRUBS AND TREES. ALL AREAS OF LOAM AND SEED TO HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL TO BE TESTED BY CONTRACTOR, AND APPROVED BY A&M PRIOR TO PURCHASE AND OR PLACEMENT. GENERAL, DEMOLITION, AND LANDSCAPE CONTRACTORS TO COORDINATE PROPER DEPTH OF EXISTING MATERIAL REMOVAL ACROSS SITE SO THAT 2 FEET MINIMUM AND 6" MINIMUM DEPTHS OF PROPOSED TOPSOIL NOTED ABOVE ARE MET. SEE TOPSOIL DETAIL.
- PRIOR TO LAYING TOPSOIL, ALL SUBSOIL (BELOW PROPOSED TOPSOIL) TO BE TILLED TO A DEPTH OF AT LEAST 18" TO REMOVE CONSTRUCTION COMPACTION AND ALLOW FOR PROPER DRAINAGE OF TOPSOILS.
- ALL SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SEEDING OF BARE SPOTS. CONTRACTOR TO ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS & UNTIL SLOPES ARE FULLY STABLE. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING.
- AFTER SEEDING, ALL AREAS TO BE LIGHTLY MULCHED WITH WEED FREE STRAW & CONTINUALLY WATERED EVERY DAY SO THAT SEED IS KEPT MOIST UNTIL SEED IS ESTABLISHED & APPROVED BY A&M LANDSCAPE ARCHITECT (USE NO HAY).
- IF THERE IS NO PROPOSED IRRIGATION SYSTEM AFTER PLANTINGS & LAWNS & SEDED AREAS HAVE BEEN INSTALLED, LANDSCAPE CONTRACTOR RESPONSIBLE TO TEMPORARILY WATER ALL INSTALLED PLANTINGS, SEDED AREAS, & LAWN AREAS MIN 4 TIMES A WEEK DURING INITIAL ESTABLISHMENT PERIOD OF 6 MONTHS AFTER ALL LANDSCAPING IS INSTALLED.
- ALL PROPOSED LANDSCAPE AREAS INCLUDING: MOWED LAWNS, TREES, SHRUB BEDS, AND PERENNIALS SHALL BE PROVIDED WITH WATER EFFICIENT UNDERGROUND IRRIGATION DESIGN AND INSTALLATION OF IRRIGATION SYSTEM TO BE PERFORMED BY AN APPROVED IRRIGATION DESIGN BUILD CONTRACTOR OR BY AN APPROVED EQUAL TO BE DETERMINED BY THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT. IRRIGATION SYSTEM IS TO BE DESIGNED FOR EFFICIENT WATER USAGE INCLUDING: USE OF DRIP IRRIGATION FOR SHRUBS AND PERENNIALS, IRRIGATION SYSTEM WITH HEAD-TO-HEAD COVERAGE, A CENTRAL SHUT-OFF VALVE, SEPARATE ZONES FOR EACH TYPE OF BEDDING AREA BASED ON WATERING NEEDS, AND A RAIN SENSOR TO SHUT OFF IRRIGATION DURING RAIN EVENTS.
- SEEDING OF BIORETENTION & DETENTION AREAS & OTHER SLOPE AREAS SHALL OCCUR IN THE DRY & AFTER SLOPES ARE COMPACTION. IT IS IMPORTANT, THAT THE BIORETENTION AREAS / DETENTION BASIN BE SEDED AT THE BEGINNING OF THE PROJECT & PRIOR TO ANY DRAINAGE BEING DIRECTED TOWARDS THE BASIN. THE SEED AT DETENTION AREAS & OTHER SLOPED AREAS WILL NEED A MINIMUM OF 6 MONTHS TO INITIALLY ESTABLISH PRIOR TO THE DETENTION BASIN BEING UTILIZED SO THAT THERE IS NOT EROSION & SLOPE FAILURE. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT. SEE SEED MIX DETAIL NOTES.



PROFESSIONAL LANDSCAPE ARCHITECT FOR ALLEN & MAJOR ASSOCIATES, INC.

1 05-26-23 REVISION 1
REV DATE DESCRIPTION
APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1"- 20' DWG. NAME: L-3115-01A

DESIGNED BY: JBT/BCD CHECKED BY: BDJ

PREPARED BY:

ALLEN & MAJOR
ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allen-majAssoc.com
100 COMMERCIAL WAY, SUITE 5
WOBURN, MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH
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DRAWING TITLE: LANDSCAPE PLAN SHEET No. L-101
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