



LOCUS / KEY MAP
SCALE: 1" = 1,000'±

SITE PLAN SET FOR FIDC 163 LLC PROPOSED PHARMACY WITH DRIVE-THRU

PARCEL ID: 5B3-0-50
270 CENTRAL STREET (U.S. ROUTE 202)
TOWN OF WINCHENDON, WORCESTER COUNTY, MASSACHUSETTS



Know what's below
Call before you dig.

ZONING LEGEND

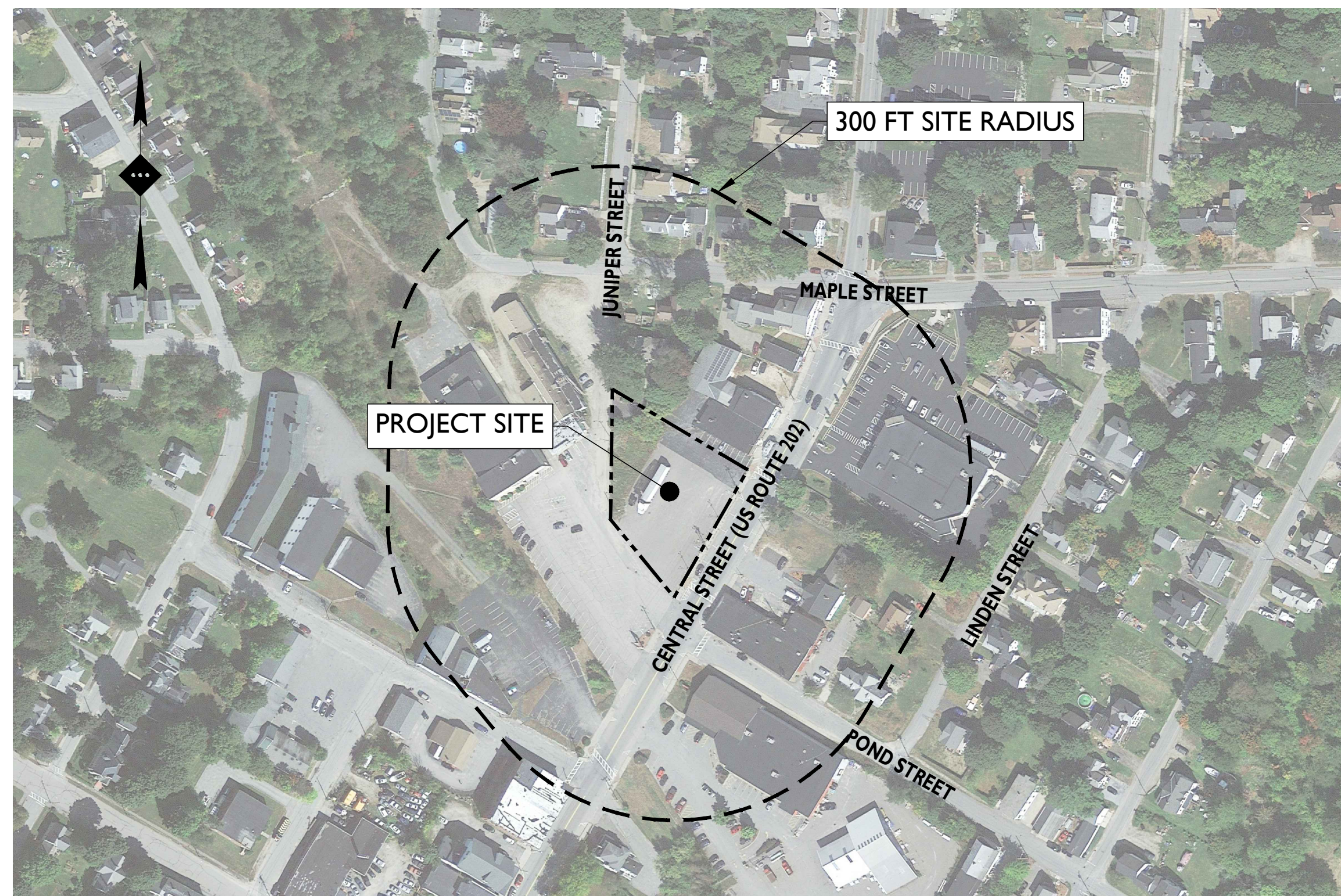
- PD - PLANNED DEVELOPMENT
- R10 - NEIGHBORHOOD RESIDENTIAL
- I - INDUSTRIAL

APPLICANT

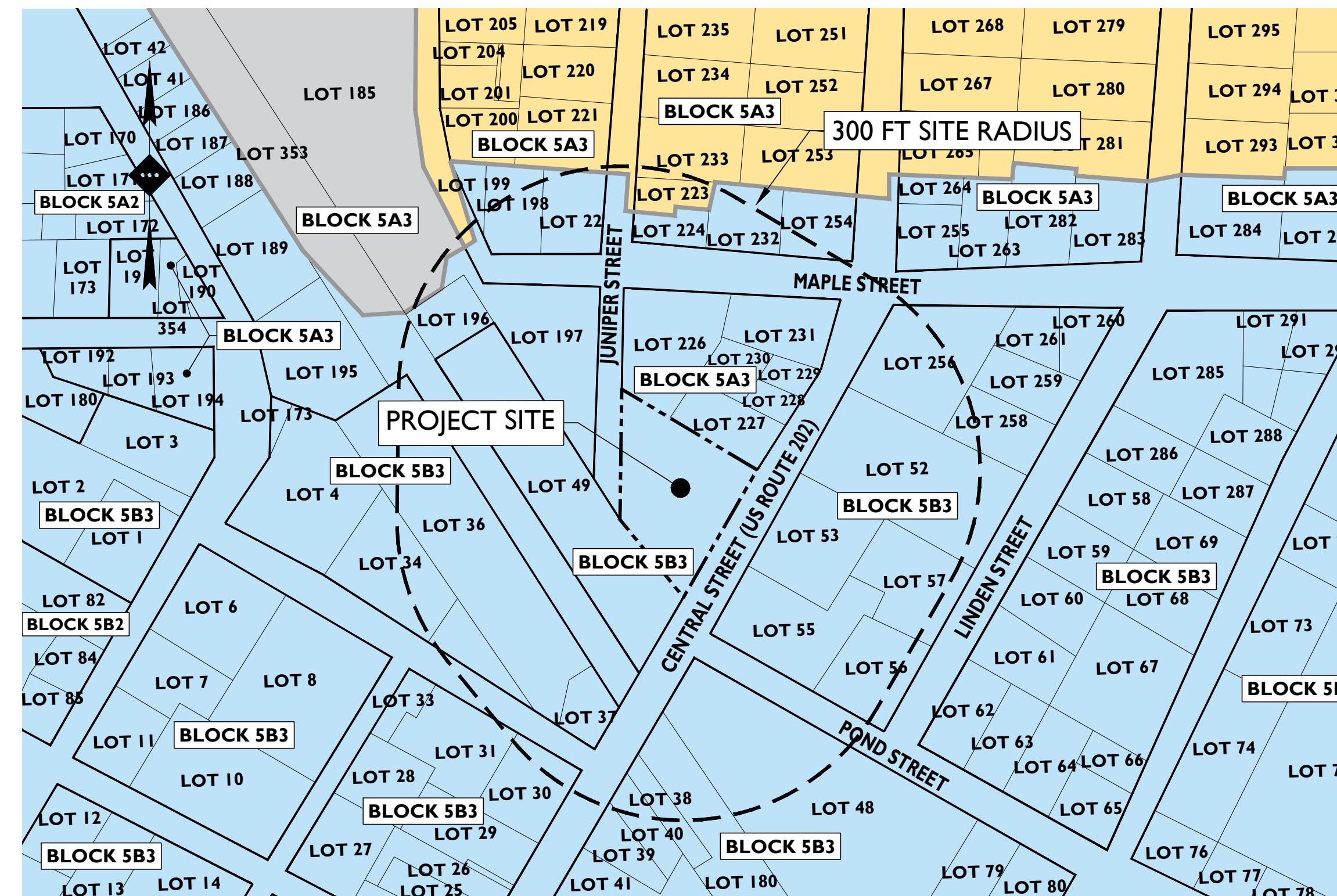
FIDC 163 LLC,
100 DEBAROLO PLACE, SUITE 400
BOARDMAN, OHIO 44512
(330) 729-1010

OWNER

TIGHE J. MATHIEU
105 ISLAND ROAD
WINCHENDON, MA 01475



AERIAL MAP
SCALE: 1" = 150'±



TAX & ZONING MAP
SCALE: 1" = 150'±

PLANS PREPARED BY:



Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com

1 Beacon Street, 15 Floor, Boston, MA 02108
Phone 617.203.2076

PLAN REFERENCE MATERIALS:

1. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO:
 - SURVEY BY AMERICAN NATIONAL LLC, DATED 06/19/21
 - ARCHITECTURAL PLANS BY LINGLE DESIGN GROUP, INC., DATED 08/06/21
 - GEOTECHNICAL REPORT BY INTERTEK PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI), DATED 06/04/21
 - LIGHTING BY KSA LIGHTING AND CONTROLS, DATED 10/22/21
 - IMPROVEMENTS AND RELATED WORK ON CENTRAL STREET (ROUTE 202) FROM FRONT STREET TO MAPLE STREET PLANS BY MASSDOT, DATED 08/11/20
 - DRAINAGE LAYOUT PLAN FOR MANTIS MANAGEMENT GROUP LLC BY HANNIGAN ENGINEERING, INC., DATED 06/11/21
 - AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO, DATED 09/20/2019
 - KEY MAP OBTAINED FROM USGS QUADRANGLE MAP 7.5 MINUTE SERIES, WINCHENDON MA, DATED 2021
 - TAX MAP GIS DATED 9/17/2021 AND ZONING MAP DATED 01/29/2007 OBTAINED FROM TOWN OF WINCHENDON
2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.

SHEET INDEX

DRAWING TITLE	SHEET #	DATE
COVER SHEET	C-1	01/26/2022
EXISTING CONDITIONS PLAN	C-2	01/26/2022
DEMOLITION PLAN	C-3	01/26/2022
SITE PLAN	C-4	01/26/2022
GRADING & DRAINAGE PLAN	C-5	01/26/2022
UTILITY PLAN	C-6	01/26/2022
LIGHTING PLAN	C-7	01/26/2022
SOIL EROSION & SEDIMENT CONTROL PLAN	C-8 - C-9	01/26/2022
LANDSCAPING PLAN	C-10 - C-11	01/26/2022
CONSTRUCTION DETAILS	C-12 - C-17	01/26/2022

APPROVAL OF THIS PLAN IS GRANTED ON THE CONDITIONS LISTED IN A SEPARATE STATEMENT OF CONDITIONS WHICH IS PART OF THE APPROVAL OF THIS SITE PLAN

SIGNATURE BLOCK	
APPROVED BY THE TOWN OF WINCHENDON PLANNING BOARD	
DATE	
DATE	
DATE	
DATE	

ZONING RELIEF TABLE			
RELIEF TYPE	CODE SECTION	REQUIRED	PROPOSED
WAIVER	§ 8.3.1 (ITE TABLE 14-2 (TABLE 8.3))	MAXIMUM PARKING REQUIREMENT: 6.04 SPACES PER 1,000 SF OF GROSS FLOOR AREA	
		2,502 SF X (6.04 SPACES / 1000 SF) = 15 SPACES + 10% = 16.5 SPACES	
	§ 8.3.3	75% OF ITE REQUIREMENT = 75% X 16.5 SPACES = 11 SPACES + 10% = 12 SPACES	17 SPACES
WAIVER	§ 8.8.1.D	MAXIMUM NON-RESIDENTIAL DRIVEWAY SLOPE: AT ANY POINT - 10% SLOPE	10.5%

NO.	DATE	ISSUE	BY	DESCRIPTION
02	01/26/2022	SPM		MUNICIPAL RESUBMISSION
01	10/27/2021	SPM		DRAFT CONSTRUCTION DOCUMENT ISSUANCE

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FIDC 163 LLC
PROPOSED PHARMACY WITH
DRIVE-THRU

BLOCK 5B3, LOT 50
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WORCESTER COUNTY, MASSACHUSETTS

JOSHUA H. KLINE, P.E.
MASSACHUSETTS LICENSE No. 53936
LICENSED PROFESSIONAL ENGINEER

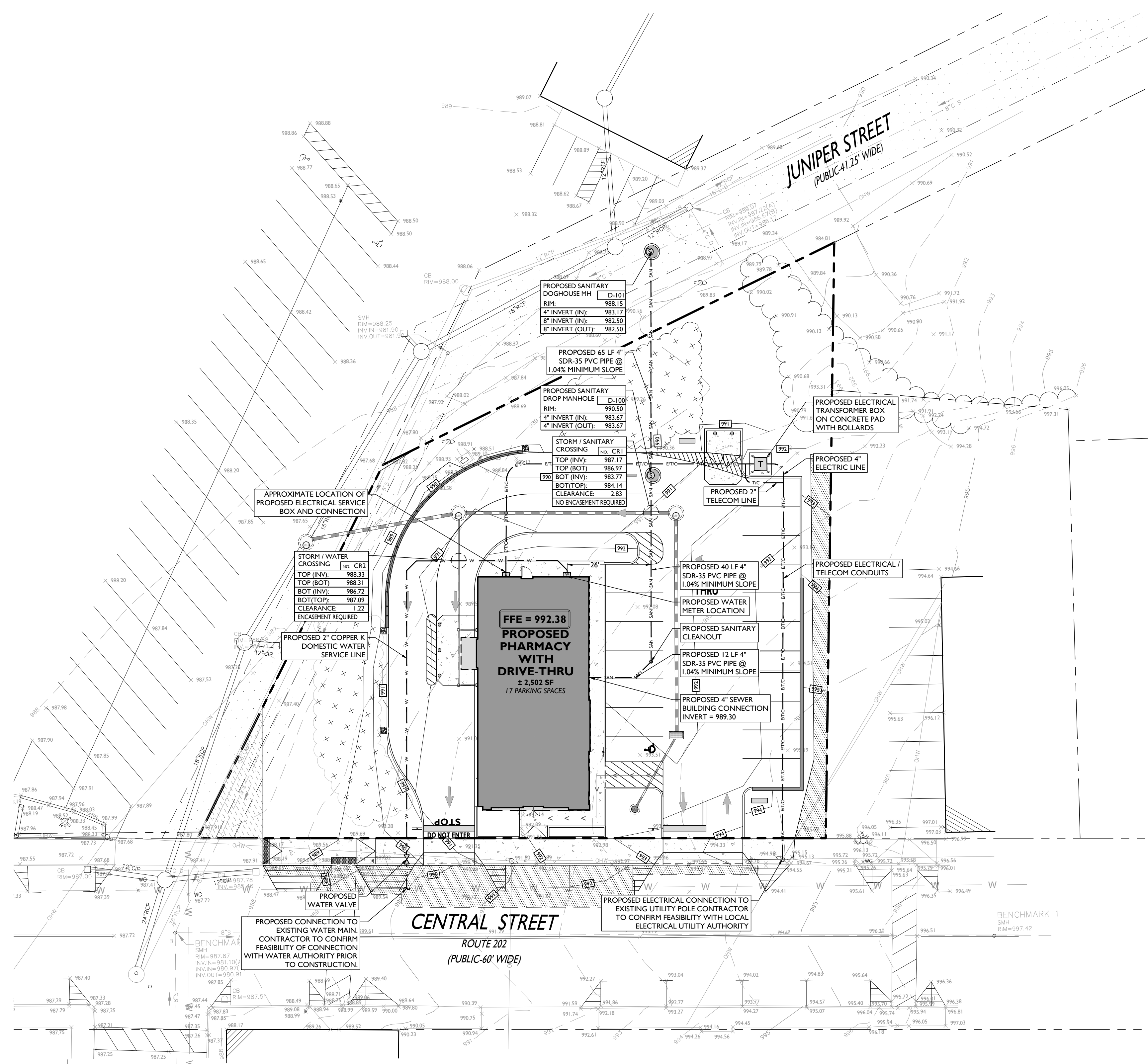
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SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE: **COVER SHEET**

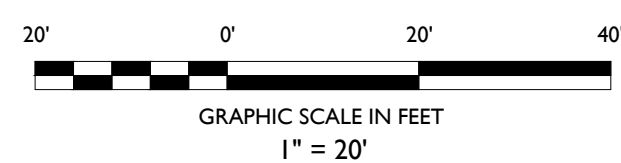
DRAWING: **C-1**

U:\STONFIELD\CONSTRUCTION\2025\163\163 SITE PLAN - WINCHENDON, MA\DWG\163 SITE PLAN.dwg



SYMBOL	DESCRIPTION
---	PROPERTY LINE
— SAN —	PROPOSED SANITARY LATERAL
— W —	PROPOSED DOMESTIC WATER SERVICE
— E/T/C —	PROPOSED ELECTRICAL/DATA CONDUITS
— T/C —	PROPOSED DATA CONDUITS
— E —	PROPOSED ELECTRIC CONDUITS
— G —	PROPOSED GAS LINE
⊗	PROPOSED VALVE
⊕	PROPOSED FIRE DIRECT CONNECTION (FDC)
⊙	PROPOSED SANITARY MANHOLE / CLEANOUT
⊙	PROPOSED UTILITY POLE
⊙	PROPOSED TRANSFORMER ON CONCRETE PAD WITH BOLLARDS

- TOWN OF WINCHENDON NOTES**
1. THE CONTRACTOR SHALL OBTAIN A TOWN OPENING PERMIT PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
 2. ALL WATER AND SEWER MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE TOWN OF WINCHENDON REQUIREMENTS.
 3. ALL WATER AND SEWER CONSTRUCTION SHALL BE INSPECTED BY THE TOWN OF WINCHENDON BEFORE BEING BACKFILLED. THE TOWN SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE REQUIRED INSPECTIONS.
- DRAINAGE AND UTILITY NOTES**
1. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IMMEDIATELY IN WRITING.
 2. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
 3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION.
 4. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
 5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
 6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING.
 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE APPROPRIATE GOVERNING AUTHORITY.
 8. CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY SEWER AT THE LOWEST INVERT AND WORK UP-GRADE.
 9. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DISPICTED WITHIN THIS PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.



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01/07/2025	SPM	DRAFT CONSTRUCTION DOCUMENT ISSUANCE
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SITE PLAN SET

FIDC I63 LLC

PROPOSED PHARMACY WITH DRIVE-THRU

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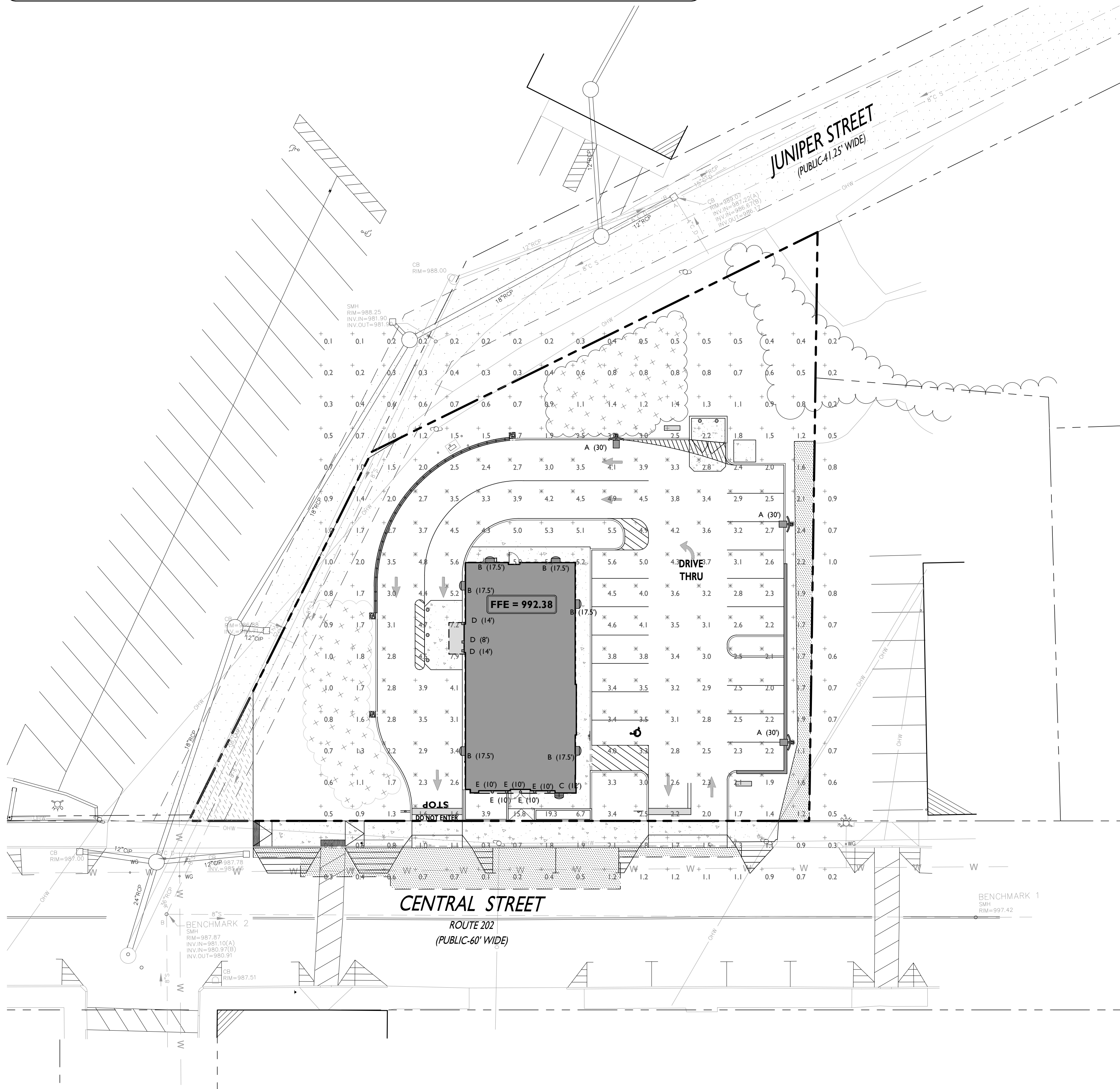
TITLE:
UTILITY PLAN

DRAWING:
C-6

PROPOSED LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QUANTITY	SECURITY LIGHTING	DISTRIBUTION	LLF	MANUFACTURER	IES FILE
	A	3	POLE MOUNTED AREA LIGHT - DSX1 LED P3 40K T4M MVOLT WITH HOUSEHOLD SHIELD	TYPE IV	0.95	LITHONIA	DSX1-LED-PS-40K-T4M-HS.IES
	B	6	WALL MOUNT - DSX1 LED P1 40K T4M MVOLT	TYPE IV	0.95	LITHONIA	DSX1-LED-P1-40K-T4M.IES
	C	1	PENDANT MOUNT - LA401 MO24LD D	TYPE IV	0.95	ANP LIGHTING	LA401-MO24LD-D.IES
	D	3	CANOPY LIGHT - WSQ LED P2-PERFORMANCE PACKAGE SR4 40K AND SR4 OPTIC TYPE	TYPE IV	0.95	LITHONIA	WSQ-LED-P2-SR4-40K.IES
	E	5	CANOPY LIGHT - LDN4 40/10 LO4AR LSS	TYPE IV	0.95	LITHONIA	LDN4-40-10-LO4AR-LSS.IES

LIGHTING REQUIREMENTS		
CODE SECTION	REQUIRED	PROPOSED
§ 8.5.5	MINIMUM LIGHTING IN PARKING AREA: 1 FC MAXIMUM LIGHTING AT PROPERTY LINE: 2 FC	1.6 FC 1.8 FC

WALGREENS SECURITY LIGHTING REQUIREMENT	
REQUIRED	PROPOSED
MINIMUM LIGHTING THROUGHOUT SITE: 3 FC MAXIMUM LIGHTING UNIFORMITY RATIO: 3.5:1	0.1 FC 22.0:1 FC



SYMBOL	DESCRIPTION
---	PROPOSED CALCULATION AREA
A (XX)	PROPOSED LIGHTING FIXTURE (MOUNTING HEIGHT)
+xx	PROPOSED LIGHTING INTENSITY (FOOTCANDLES)
	PROPOSED AREA LIGHT
	PROPOSED BUILDING MOUNTED LIGHT
	PROPOSED CANOPY LIGHT

GENERAL LIGHTING NOTES

- THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH AS WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
- WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS:
 - LIGHT EMITTING DIODES (LED): 0.90
 - HIGH PRESSURE SODIUM: 0.72
 - METAL HALIDE: 0.72
- THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.

ATM LIGHTING NOTES:

- THE CONTRACTOR SHALL REPLACE LAMP COVERS, RE-LAMP AND RE-BALLAST EXISTING LIGHT FIXTURES AS INDICATED WITHIN THE PLAN SET. THE EXISTING FIXTURE HEIGHT SHALL BE MAINTAINED UNLESS INDICATED OTHERWISE. THE LIGHTING DESIGN IS SUBJECT TO CHANGE IF THE EXISTING LIGHT FIXTURES ARE NOT GREATER THAN OR EQUAL TO THE FOLLOWING WATTAGE:
 - FIXTURE 'x' = MINIMUM X WATTS
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING IF THE EXISTING LIGHT FIXTURES ARE NOT THE MINIMUM WATTAGE SPECIFIED WITHIN THE PLAN SET.
- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY EXISTING LIGHT POLES IDENTIFIED FOR REUSE WITH A PROPOSED LIGHT FIXTURE(S) SHALL BE IN ACCEPTABLE WORKING CONDITION AND HAVE THE CAPACITY TO SUPPORT THE PROPOSED LIGHT FIXTURE(S). ANY MOUNTING EQUIPMENT REQUIRED TO ATTACH THE PROPOSED LIGHTING FIXTURE TO THE EXISTING LIGHT POLE SHALL BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CONFIRM THAT THE LOCATION OF ANY PROPOSED BUILDING MOUNTED LIGHTING FIXTURE WILL NOT CONFLICT WITH ANY EXISTING OR PROPOSED STRUCTURAL ELEMENT (E.G. CANOPY SUPPORT BEAMS). THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING OF ANY FIXTURE CONFLICT PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING TREE LIMBS WITHIN THE 60 FOOT ATM RADIUS SHOWN IN THE PLAN SET SHALL BE TRIMMED TO A MINIMUM OF 6 FEET ABOVE GRADE. ALL SHRUBS WITHIN THE 60 FOOT ATM RADIUS SHALL BE TRIMMED TO A MINIMUM OF 36 INCHES ABOVE GRADE. ALL BRUSH SHALL BE REMOVED. THE CONTRACTOR SHALL CONSIDER ALL FUTURE GROWTH AND FULL BLOOM WHEN TRIMMING LANDSCAPING. EXISTING TREE LIMBS ADJACENT TO LIGHTING FIXTURES SHALL BE TRIMMED AS REQUIRED TO PREVENT LIGHT INTERFERENCE.
- PRIOR TO BID, CONTRACTOR SHALL VERIFY EXISTING EXTERIOR LIGHTING CONDITIONS AFTER DUSK AND NOTIFY THE DEVELOPER/OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC OF DAMAGED OR INOPERABLE LIGHTS. THE CONTRACTOR SHALL REPAIR ALL INOPERABLE LIGHTS UNLESS OTHERWISE NOTED WITHIN THIS PLAN SET.
- THE ILLUMINATION LEVELS DEPICTED WITHIN THE PLAN SET ARE BASED ON REGULATORY STATE STANDARDS FOR SAFETY LIGHTING AND ON CLIENT STANDARDS.
- ALL LIGHTING FIXTURES, UNLESS OTHERWISE NOTED WITHIN THIS PLAN SET, HAVE THE PHOTOCELL OPTION ENABLED.
- EXISTING LIGHTING FIXTURES CONTROLLED BY OUTSIDE ENTITIES (E.G. LANDLORD) HAVE BEEN EXCLUDED FROM THE LIGHTING ANALYSIS REFLECTED WITHIN THE PLAN SET. THE PROPOSED LIGHT LEVELS HAVE BEEN DESIGNED TO COMPLY WITH ALL APPLICABLE ATM AND SAFETY LIGHTING REQUIREMENTS INDEPENDENT OF ANY UNCONTROLLED LIGHT FIXTURES.

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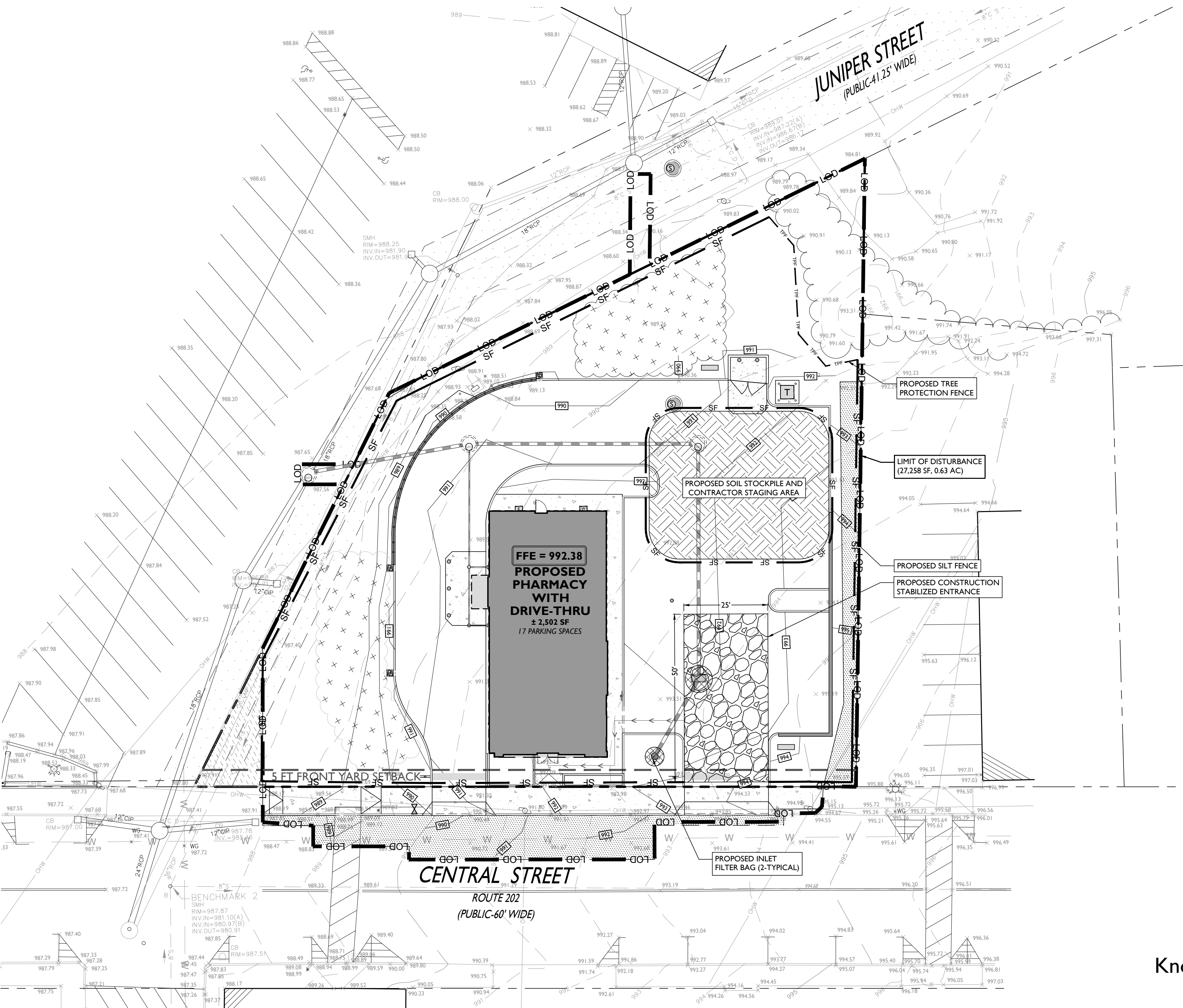
SCALE: 1" = 20' PROJECT ID: BOS-210033

TITLE:
LIGHTING PLAN

DRAWING:
C-7

- TOWN OF WINCHENDON SOIL EROSION AND SEDIMENT CONTROL NOTES**
1. THE TOWN OF WINCHENDON FORBIDS THE USE OF FILL CONTAINING HAZARDOUS MATERIALS.
 2. THE TOWN OF WINCHENDON SHALL REQUIRE THE CLEANING OF CATCHBASINS, SUMPS AND STORMWATER BASINS FOLLOWING CONSTRUCTION AND ANNUALLY THEREAFTER.
 3. RESTRICT THE HAULING OF EARTH MATERIALS TO OR FROM THE SITE TO THE HOUSE BETWEEN 9 A.M. AND 4 P.M. ON WEEKDAYS.
 4. THE TOWN OF WINCHENDON REQUIRES THE DESCRIPTION OF THE MATERIALS TO BE USED IN THE CONSTRUCTION OF IMPERMEABLE SURFACES SUCH AS SIDEWALKS AND DRIVEWAYS.
 5. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
 6. EROSION CONTROL SHALL CONFORM TO THE TOWN OF WINCHENDON CONSERVATION COMMISSION REQUIREMENTS AS STATED IN THE ORDER OF CONDITIONS.

SOIL CHARACTERISTICS CHART	
TYPE OF SOIL	SKERRY FINE SANDY LOAM (365B)
PERCENT OF SITE COVERAGE	85.0%
HYDROLOGIC SOIL GROUP	C/D
DEPTH TO RESTRICTIVE LAYER	21 TO 43 INCHES
SOIL PERMEABILITY	0.01 TO 1.42 IN / HR
DEPTH TO WATER TABLE	18 TO 30 INCHES



STABILIZATION SPECIFICATIONS:

I.A. TEMPORARY SEEDING AND MULCHING:
 TIME OF PLANTING - PLANTING SHOULD PREFERABLY BE DONE BETWEEN APRIL 1 AND JUNE 30, AND SEPTEMBER 1 THROUGH SEPTEMBER 30. IF PLANTING IS DONE IN THE MONTHS OF JULY AND AUGUST, IRRIGATION MAY BE REQUIRED. IF PLANTING IS DONE BETWEEN OCTOBER 1 AND MARCH 31, MULCHING SHOULD BE APPLIED IMMEDIATELY AFTER PLANTING. IF SEEDING IS DONE DURING THE SUMMER MONTHS, IRRIGATION OF SOME SORT WILL PROBABLY BE NECESSARY.
 SITE PREPARATION - BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES/WALES, LEVEL SPREADERS, AND SEDIMENT BASINS.
 SEEDBED PREPARATION - IF INERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING LAND SHAPING, IT IS BEST TO STOCKPILE TOPSOIL AND RESPADE IT OVER THE FINISHED SLOPE AT A MINIMUM 2- TO 6-INCH DEPTH AND ROLL IT TO PROVIDE A FIRM SEEDBED. IF CONSTRUCTION FILL OPERATIONS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH, OR IRREGULAR SURFACE, SMOOTH WITH BLADE AND ROLL. LOOSEN THE SOIL TO A DEPTH OF 3-5 INCHES WITH SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT.
 SEEDING - SELECT ADAPTED SPECIES FROM THE ACCOMPANYING TABLE IN THE MA SESC HANDBOOK. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED IN THE TABLE BY BROADCASTING, DRILLING OR HYDRAULIC APPLICATION. COVER SEEDS WITH SUITABLE EQUIPMENT PER MA SESC HANDBOOK.
 MULCH - USE AN EFFECTIVE MULCH, SUCH AS CLEAN GRAIN STRAW; TACKLED AND/OR TIED DOWN WITH NETTING TO PROTECT SEEDBED AND ENCOURAGE PLANT GROWTH.

I.B. PERMANENT SEEDING AND MULCHING:
 SEEDING GRASSES AND LEGUMES
 INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, BERMS, DIKES, LEVEL SPREADERS, WATERWAYS, AND SEDIMENT BASINS PRIOR TO SEEDING OR PLANTING.
 SEEDBED PREPARATION - IF INERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING LAND SHAPING, IT IS BEST TO STOCKPILE TOPSOIL AND RESPADE IT OVER THE FINISHED SLOPE AT A MINIMUM 2- TO 6-INCH DEPTH AND ROLL IT TO PROVIDE A FIRM SEEDBED. IF CONSTRUCTION FILL OPERATIONS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH, OR IRREGULAR SURFACE, SMOOTH WITH BLADE AND ROLL. LOOSEN THE SOIL TO A DEPTH OF 3-5 INCHES WITH SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT.
 SEEDING - SELECT ADAPTED SPECIES FROM THE ACCOMPANYING TABLE IN THE MA SESC HANDBOOK. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED IN THE TABLE BY BROADCASTING, DRILLING OR HYDRAULIC APPLICATION. COVER SEEDS WITH SUITABLE EQUIPMENT PER MA SESC HANDBOOK.
 MULCH - USE AN EFFECTIVE MULCH, SUCH AS CLEAN GRAIN STRAW; TACKLED AND/OR TIED DOWN WITH NETTING TO PROTECT SEEDBED AND ENCOURAGE PLANT GROWTH.

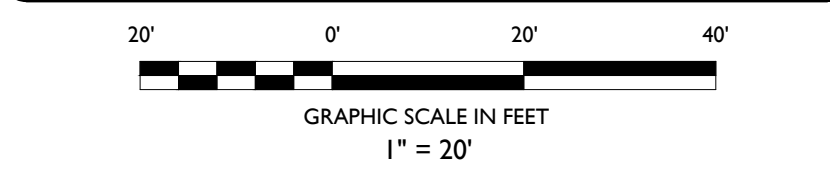
COOL SEASON GRASSES - COOL SEASON GRASSES GROW RAPIDLY IN THE COOL WEATHER OF SPRING AND FALL, AND SET SEED IN JUNE AND JULY. COOL SEASON GRASSES BECOME DORMANT WHEN SUMMER TEMPERATURES PERSIST ABOVE 85 DEGREES AND MOISTURE IS SCARCE. LIME AND FERTILIZER - APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST AND CURRENT EXTENSION SERVICE RECOMMENDATIONS IN ABSENCE OF A SOIL TEST, APPLY LIME (A PH OF 5.5 - 6.0 IS DESIRED) AT A RATE OF 2.5 TONS PER ACRE AND 10-20-20 ANALYSIS FERTILIZER AT A RATE OF 500 POUNDS PER ACRE (40% OF N TO BE AN ORGANIC OR SLOW RELEASE FORM). INCORPORATE LIME AND FERTILIZER INTO THE TOP 2-3 INCHES OF SOIL.
 SEEDING DATES - SEEDING OPERATIONS SHOULD BE PERFORMED WITHIN ONE OF THE FOLLOWING PERIODS:
 • APRIL 1 - MAY 31
 • AUGUST 1 - SEPTEMBER 15
 • NOVEMBER 1 - DECEMBER 15 AS A DORMANT SEEDING (SEEDING RATES SHALL BE INCREASED BY 50% FOR DORMANT SEEDINGS)
 SEEDING METHODS - SEEDING SHOULD BE PERFORMED BY ONE OF THE FOLLOWING METHODS. SEED SHOULD BE PLANTED TO A DEPTH OF 1/2 TO 1 INCHES:
 • DRILL SEEDINGS
 • BROADCAST AND ROLLED, CULTPACKED OR TRACKED WITH A SMALL TRACK PIECE OF CONSTRUCTION EQUIPMENT
 • HYDROSEEDING WITH SUBSEQUENT TRACKING
 MULCH - MULCH THE SEEDINGS WITH STRAW APPLIED AT THE RATE OF 1/2 TONS PER ACRE. ANCHOR THE MULCH WITH EROSION CONTROL NETTING OR FABRIC ON SLOPING AREAS.
 WARM SEASON GRASSES
 WARM SEASON GRASSES BEGIN GROWTH SLOWLY IN THE SPRING, GROW RAPIDLY IN THE HOT SUMMER MONTHS AND SET SEED IN THE FALL. MANY WARM SEASON GRASSES ARE SENSITIVE TO FROST IN THE FALL, AND THE TOP GROWTH MAY DIE BACK. GROWTH BEGINS FROM THE PLANT BASE THE FOLLOWING SPRING.
 LIME AND FERTILIZER - LIME TO ATTAIN A PH OF AT LEAST 5.5. APPLY A 0-10-10 ANALYSIS FERTILIZER AT THE RATE OF 600 LBS/ACRE. INCORPORATE BOTH INTO THE TOP 2-3 INCHES OF SOIL. (30 LBS. OF SLOW RELEASE NITROGEN SHOULD BE APPLIED AFTER EMERGENCE OF GRASS IN THE LATE SPRING.)
 SEEDING DATES - SEEDING OPERATIONS SHOULD BE PERFORMED AS AN EARLY SPRING SEEDING (APRIL 1-MAY 15) WITH THE USE OF COLD TREATED SEED. A LATE FALL EARLY WINTER DORMANT SEEDING (NOVEMBER 1 - DECEMBER 15) CAN ALSO BE MADE, HOWEVER THE SEEDING RATE WILL NEED TO BE INCREASED BY 50%.
 SEEDING METHODS - SEEDING SHOULD BE PERFORMED BY ONE OF THE FOLLOWING METHODS:
 • DRILL SEEDINGS (DE-AWNED OR DE-BEARDED SEED SHOULD BE USED UNLESS THE DRILL IS EQUIPPED WITH SPECIAL FEATURES TO ACCEPT AWNED SEED).
 • BROADCAST SEEDING WITH SUBSEQUENT ROLLING, CULTPACKING OR TRACKING THE SEEDING WITH SMALL TRACK CONSTRUCTION EQUIPMENT. TRACKING SHOULD BE ORIENTED UP AND DOWN THE SLOPE.
 • HYDROSEEDING WITH SUBSEQUENT TRACKING IF WOOD FIBER MULCH IS USED, IT SHOULD BE APPLIED AS A SEPARATE OPERATION AFTER SEEDING AND TRACKING TO ASSURE GOOD SEED TO SOIL CONTACT.
 MULCH - MULCH THE SEEDINGS WITH STRAW APPLIED AT THE RATE OF 1/2 TONS PER ACRE.
 ANCHOR THE MULCH WITH EROSION CONTROL NETTING OR FABRIC ON SLOPING AREAS.
SEED MIXTURES FOR PERMANENT COVER
 RECOMMENDED MIXTURES FOR PERMANENT SEEDING ARE PROVIDED ON THE TABLE IN THE MA SESC HANDBOOK. SELECT PLANT SPECIES WHICH ARE SUITED TO THE SITE CONDITIONS AND PLANNED USE. SOIL MOISTURE CONDITIONS, OFTEN THE MAJOR LIMITING SITE FACTOR, ARE USUALLY CLASSIFIED AS FOLLOWS:
 • DRY - SANDS AND GRAVELS TO SANDY LOAMS, NO EFFECTIVE MOISTURE SUPPLY FROM SEEPAGE OR A HIGH WATER TABLE.
 • MOIST - WELL DRAINLED TO MODERATELY WELL DRAINLED SANDY LOAMS, LOAMS, COARSE SANDS OR COARSE TEXTURED MATERIAL WITH MODERATE INFLUENCE ON ROOT ZONE FROM SEEPAGE OR A HIGH WATER TABLE.
 • WET - ALL TEXTURES WITH A WATER TABLE AT OR VERY NEAR THE SOIL SURFACE, OR WITH ENDURING SEEPAGE, WHEN OTHER FACTORS STRONGLY INFLUENCE SITE CONDITIONS, THE PLANTS SELECTED MUST ALSO BE TOLERANT OF THESE CONDITIONS.

SYMBOL	DESCRIPTION
---	PROPERTY BOUNDARY
- - - -	ADJACENT PROPERTY BOUNDARY
---	LOD
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED SILT FENCE
---	TPF
---	PROPOSED TREE PROTECTION FENCE
---	PROPOSED STOCKPILE & EQUIPMENT STORAGE
---	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
---	PROPOSED INLET PROTECTION FILTER

- SOIL EROSION AND SEDIMENT CONTROL NOTES**
1. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
 2. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.
 3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN 1 INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.

- DUST CONTROL NOTES**
1. VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
 2. MULCH (INCLUDING GRAVEL, MULCH) - WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.
 3. SPRAY-ON ADHESIVE - LATEX EMULSIONS OR RESIN IN WATER CAN BE SPRAYED ONTO MINERAL SOIL TO PREVENT PARTICLES FROM BLOWING AWAY.
 4. CALCIUM CHLORIDE - CALCIUM CHLORIDE MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE.
 5. SPRINKLING - THE SITE MAY BE SPRINKLED UNTIL THE SURFACE IS WET. SPRINKLING IS ESPECIALLY EFFECTIVE FOR DUST CONTROL ON PAVED ROADS AND OTHER TRAFFIC ROADS.
 6. STONE - USED TO STABILIZE CONSTRUCTION ROADS, CAN ALSO BE EFFECTIVE FOR DUST CONTROL.
 7. BARRIERS - A BOARD FENCE, WIND FENCE, SEDIMENT FENCE, OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AND BLOWING SOIL. ALL OF THESE FENCES ARE NORMALLY CONSTRUCTED OF WOOD AND THEY PREVENT EROSION BY OBSTRUCTING THE WIND NEAR THE GROUND AND PREVENTING THE SOIL FROM BLOWING OFFSITE. A WIND BARRIER GENERALLY PROTECTS SOIL DOWNWARD FOR A DISTANCE OF 10 TIMES THE HEIGHT OF THE BARRIER. PERENNIAL GRASS AND STANDS OF EXISTING TREES MAY ALSO SERVE AS WIND BARRIERS.

- SEQUENCE OF CONSTRUCTION**
1. INSTALL CONTROL MEASURES IDENTIFYING LIMITS OF DISTURBANCE AND AREAS INTERNAL TO THE SITE THAT REQUIRE PROTECTION BEFORE START OF LAND DISTURBANCE.
 2. INSTALL ALL EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE MA SESC HANDBOOK AND/OR THE MA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AS AMENDED). UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
 3. CONSTRUCTION ACTIVITIES:
 - 3.1 DEMOLISH EXISTING SITE FEATURES (1 WEEK).
 - 3.2 ROUGH GRADING AND TEMPORARY SEEDING (2 WEEKS).
 - 3.3 EXCAVATE AND INSTALL UTILITY IMPROVEMENTS IN ACCORDANCE WITH LOCAL UTILITY AUTHORITY REQUIREMENTS (3 WEEKS).
 - 3.4 BUILDING CONSTRUCTION AND SITE IMPROVEMENTS (12 WEEKS).
 - 3.5 CONSTRUCT RIGHT-OF-WAY IMPROVEMENTS (2 WEEKS).
 - 3.6 LANDSCAPING IMPROVEMENTS AND FINAL SEEDING (1 WEEK).
 4. UPON COMPLETION OF SITE CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.
 5. PERFORM ROUTINE INSPECTIONS AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS ONGOING AS REQUIRED.
 6. PERFORM FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED.
 7. REMOVE OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.
- NOTE: TIME DURATIONS ARE APPROXIMATE AND ARE INTENDED TO ACT AS A GENERAL GUIDE TO THE CONSTRUCTION TIMELINE. ALL DURATIONS ARE SUBJECT TO CHANGE BY CONTRACTOR. CONTRACTOR SHALL SUBMIT CONSTRUCTION SCHEDULE TO TOWNSHIP AND ENGINEER. CONTRACTOR SHALL PHASE CONSTRUCTION ACCORDINGLY.



811
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DATE	ISSUE	BY	DESCRIPTION
01/26/2022	01	SPM	MUNICIPAL RESUBMISSION
10/27/2021	02	SPM	DRAFT CONSTRUCTION DOCUMENT ISSUANCE

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 PROPOSED PHARMACY WITH
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BLOCK 583, LOT 50
 270 CENTRAL STREET (U.S. ROUTE 202)
 TOWN OF WINCHENDON
 WORCESTER COUNTY, MASSACHUSETTS

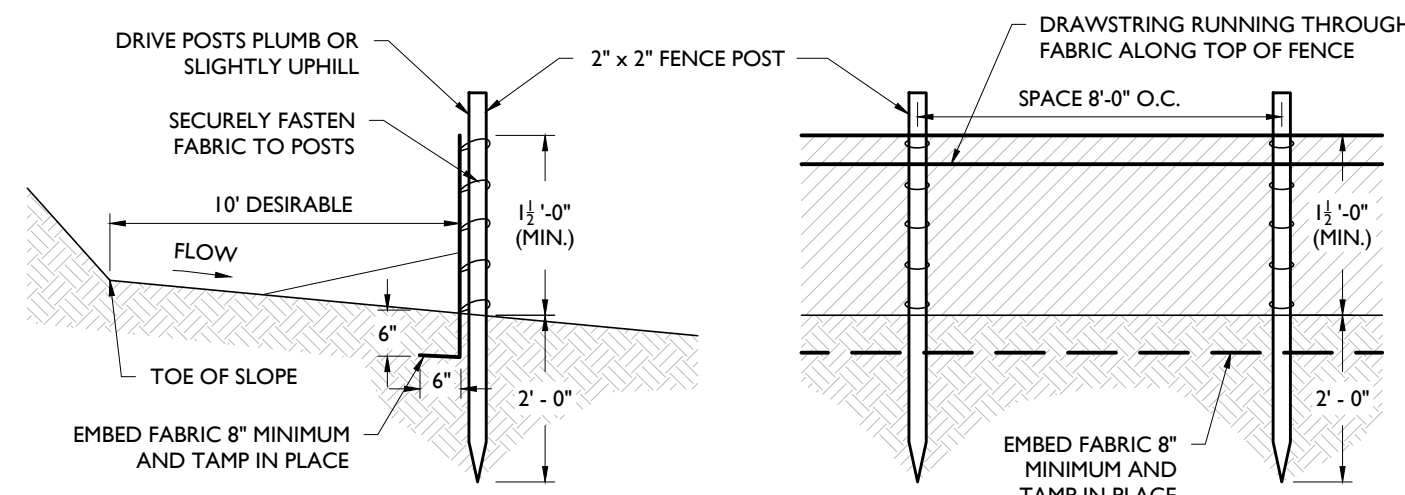
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JOSHUA H. KLINE, P.E.
 MASSACHUSETTS LICENSE NO. 53936
 LICENSED PROFESSIONAL ENGINEER

SCALE: 1" = 20' PROJECT ID: BOS-210033

TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN

DRAWING:
C-8

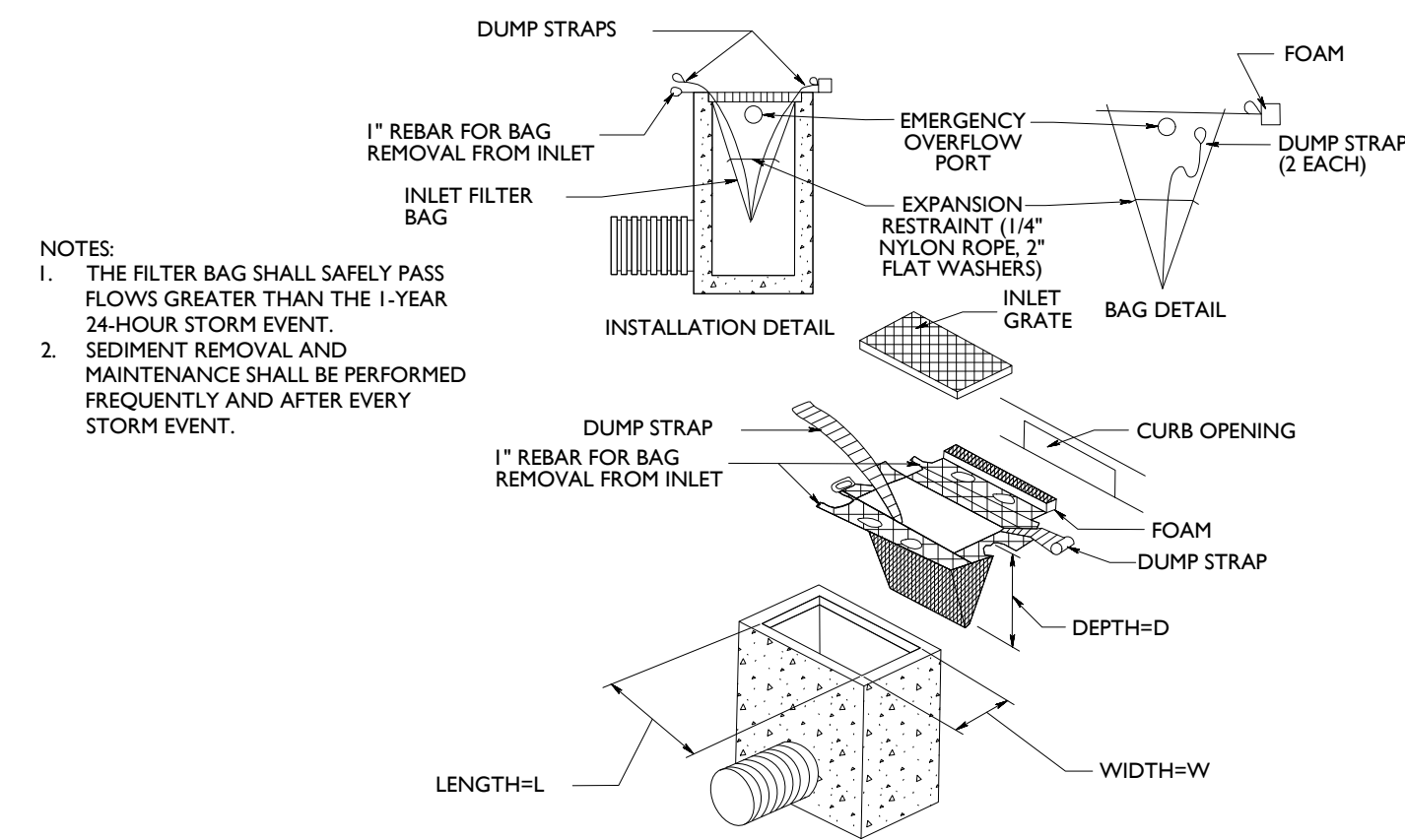


- NOTES:
1. SECURELY FASTEN GEOTEXTILE TO FENCE POST BY USE OF WIRE TIES, HOG RINGS, STAPLES OR POKETS. FOUR TO SIX FASTENERS PER POST.
 2. GEOTEXTILE FABRIC TO BE EMBEDDED 8" (MIN.) AND TAMP IN PLACE.
 3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
 4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIRABLE.

SILT FENCE DETAIL

NOT TO SCALE

1

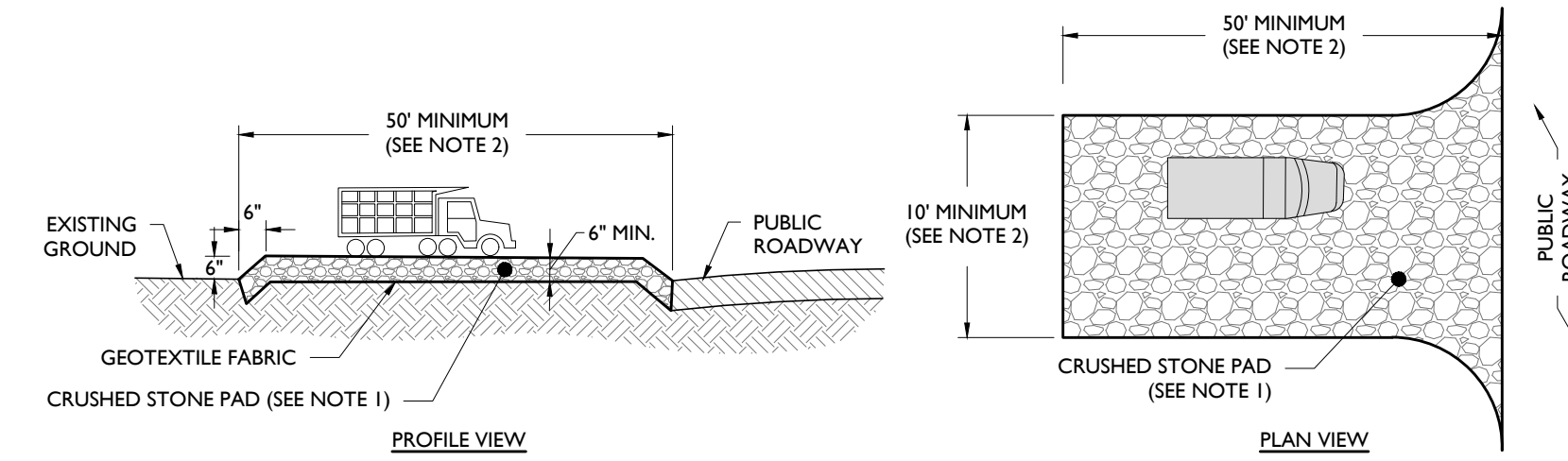


- NOTES:
1. THE FILTER BAG SHALL SAFELY PASS FLOWS GREATER THAN THE 1-YEAR 24-HOUR STORM EVENT.
 2. SEDIMENT REMOVAL AND MAINTENANCE SHALL BE PERFORMED FREQUENTLY AND AFTER EVERY STORM EVENT.

INLET FILTER BAG DETAIL

NOT TO SCALE

2

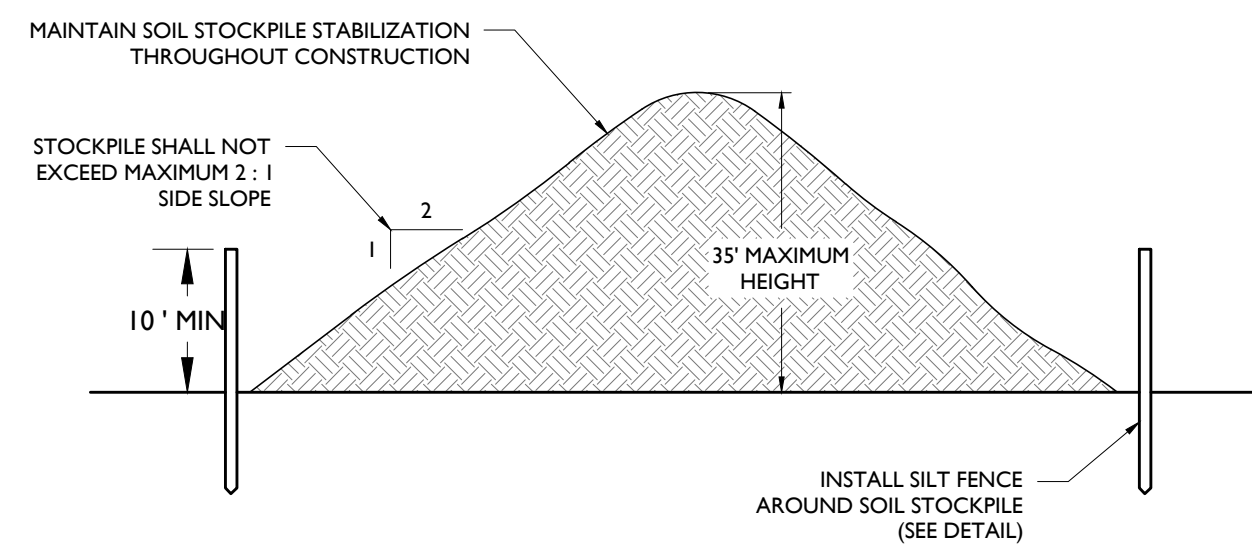


- NOTES:
1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 3-INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT PLACED ON A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
 2. THE MINIMUM LENGTH OF THE GRAVEL PAD SHALL BE 50 FEET. EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH MAY BE USED. THE WIDTH SHALL BE 10' MINIMUM OR THE FULL WIDTH OF THE ACCESS POINT, WHICHEVER IS GREATER.
 3. GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE FILL AND THE EARTH SURFACE BELOW THE PAD TO REDUCE THE MIGRATION OF SOIL PARTICLES FROM THE UNDERLYING SOIL INTO THE STONE AND VICE VERSA. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
 5. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHOULD BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
 6. WASHING: IF THE SITE CONDITIONS ARE SUCH THAT THE MAJORITY OF MUD IS NOT REMOVED FROM THE VEHICLE TIRES BY THE GRAVEL PAD, THEN THE TIRES SHOULD BE WASHED BEFORE THE VEHICLE ENTERS THE ROAD OR STREET. THE WASH AREA SHOULD BE A LEVEL AREA WITH 3-INCH WASHED STONE MINIMUM, OR A COMMERCIAL RACK. WASH WATER SHOULD BE DIRECTED INTO A SEDIMENT TRAP, A VEGETATED FILTER STRIP, OR OTHER APPROVED SEDIMENT TRAPPING DEVICE. SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY WATERCOURSES.
 7. A FILTER FABRIC FENCE SHOULD BE INSTALLED DOWN-GRADE FROM THE CONSTRUCTION ENTRANCE IN ORDER TO CONTAIN ANY SEDIMENT-LADEN RUNOFF FROM THE ENTRANCE.

STABILIZED CONSTRUCTION ACCESS DETAIL

NOT TO SCALE

3

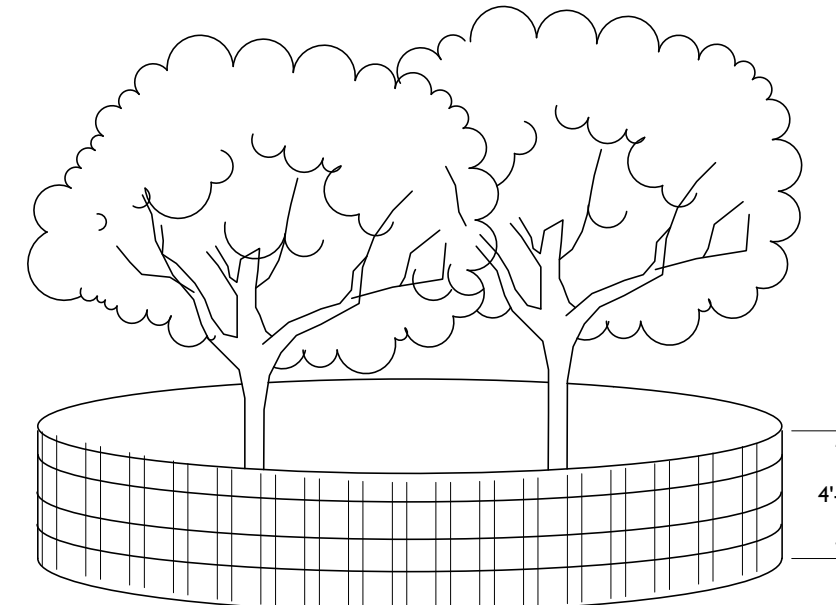


- NOTES:
1. LOCATE THE TOPSOIL STOCKPILE SO THAT IT DOES NOT INTERFERE WITH WORK ON THE SITE.
 2. SURROUND ALL TOPSOIL STOCKPILES WITH AN INTERCEPTOR DIKE WITH GRAVEL OUTLET AND SILT FENCE.
 3. EITHER SEED OR COVER STOCKPILES WITH CLEAR PLASTIC OR OTHER MULCHING MATERIALS WITHIN 7 DAYS OF THE FORMATION OF THE STOCKPILE.

SOIL STOCKPILE DETAIL

NOT TO SCALE

4



- NOTES:
1. SNOW FENCING IS TO BE 4'-0" HIGH AND SELF SUPPORTED.
 2. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT WITHIN THE TREE PROTECTION FENCING.
 3. SNOW FENCE TO BE INSTALLED AT DRIP LINE OF EXISTING TREE OR TREE CLUSTER TO BE PROTECTED OR NO CLOSER THAN 6' FROM TREE TRUNK IF NECESSARY.
 4. IF THE PROJECT AREA ENCOMPASSES A PORTION OF THE DRIP LINE OF THE TREE, NO MORE THAN ONE THIRD OF THE OF THE TOTAL AREA OF WITHIN THE DRIP LINE SHOULD BE DISTURBED BY CONSTRUCTION OR REGRADING AND A 3" THICK LAYER OF MULCH SHALL BE INSTALLED OVER THE AREA OF THE DRIP LINE WHICH IS NOT PROTECTED BY FENCING TO PROVIDE A CUSHION.

TREE PROTECTION DETAIL

NOT TO SCALE

5

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NO.	DATE	BY	DESCRIPTION
02	01/26/2025	SPM	MUNICIPAL RESUBMISSION
01	10/29/2024	SPM	DRAFT CONSTRUCTION DOCUMENT ISSUANCE

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SITE PLAN SET

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PROPOSED PHARMACY WITH
DRIVE-THRU

BLOCK 5B3, LOT 50
270 CENTRAL STREET (U.S. ROUTE 202)
TOWN OF WINCHENDON
WORCESTER COUNTY, MASSACHUSETTS

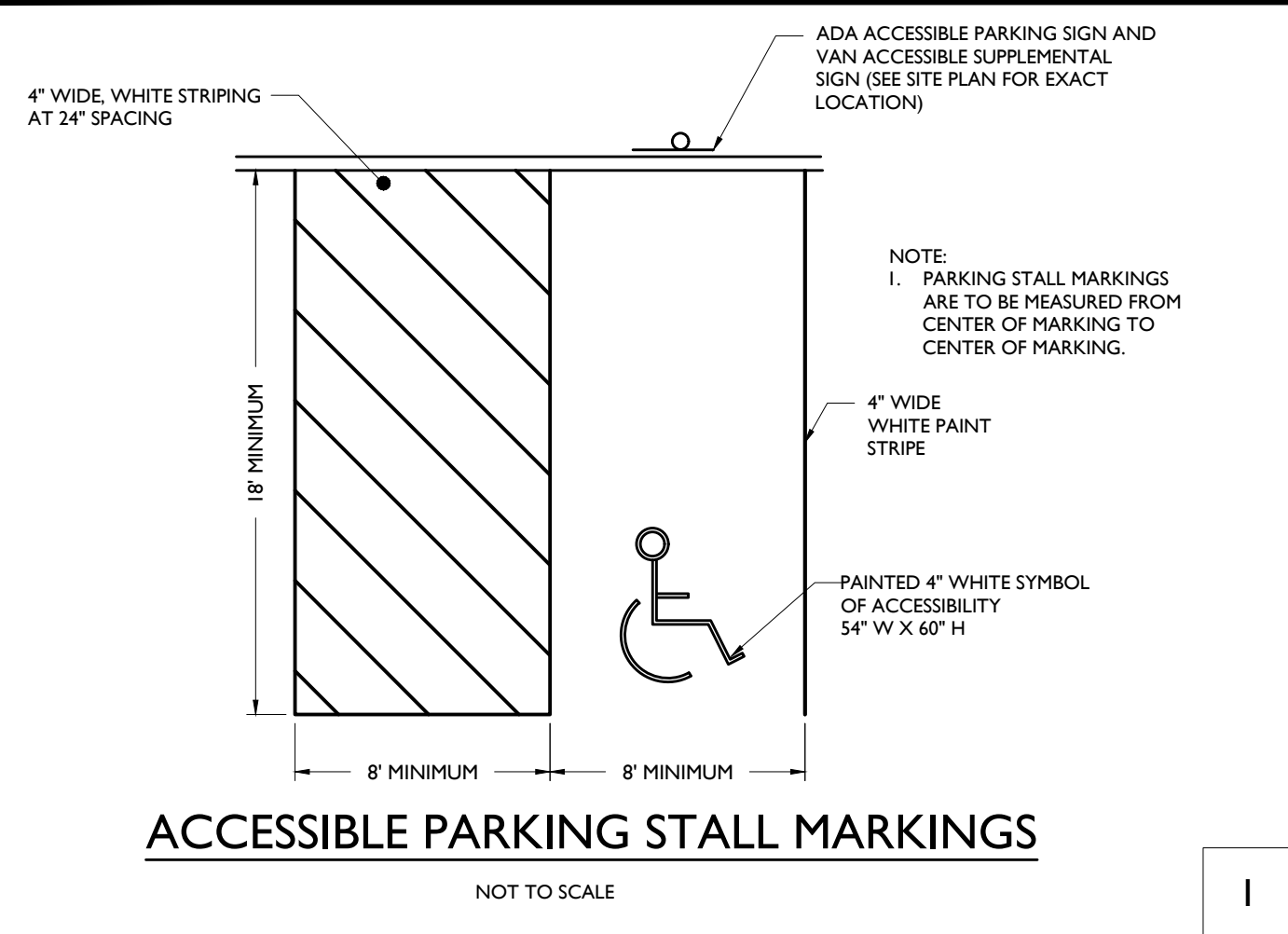
JOSHUA H. KLINE, P.E.
MASSACHUSETTS LICENSE No. 53936
LICENSED PROFESSIONAL ENGINEER

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SCALE: 1" = 20' PROJECT ID: BOS-210033

TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN DETAILS

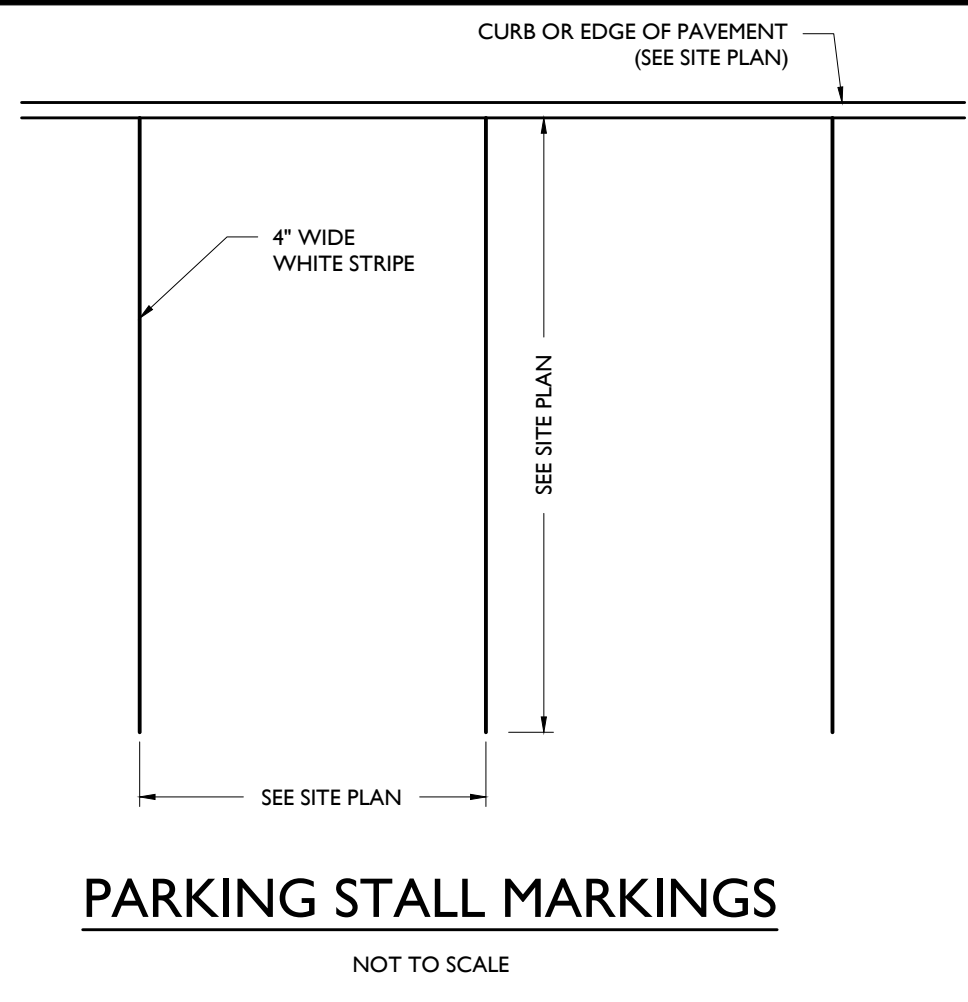
DRAWING:
C-9



ACCESSIBLE PARKING STALL MARKINGS

NOT TO SCALE

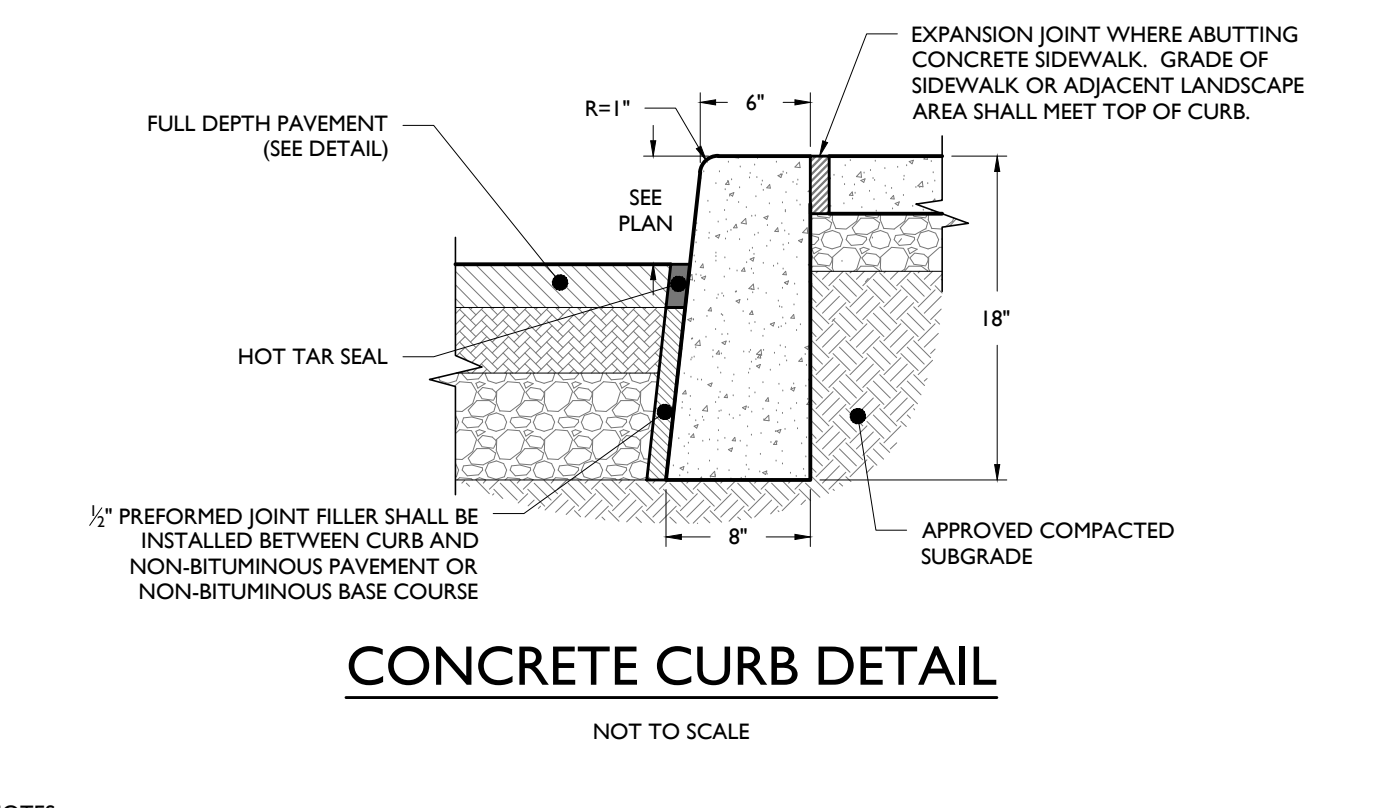
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PARKING STALL MARKINGS

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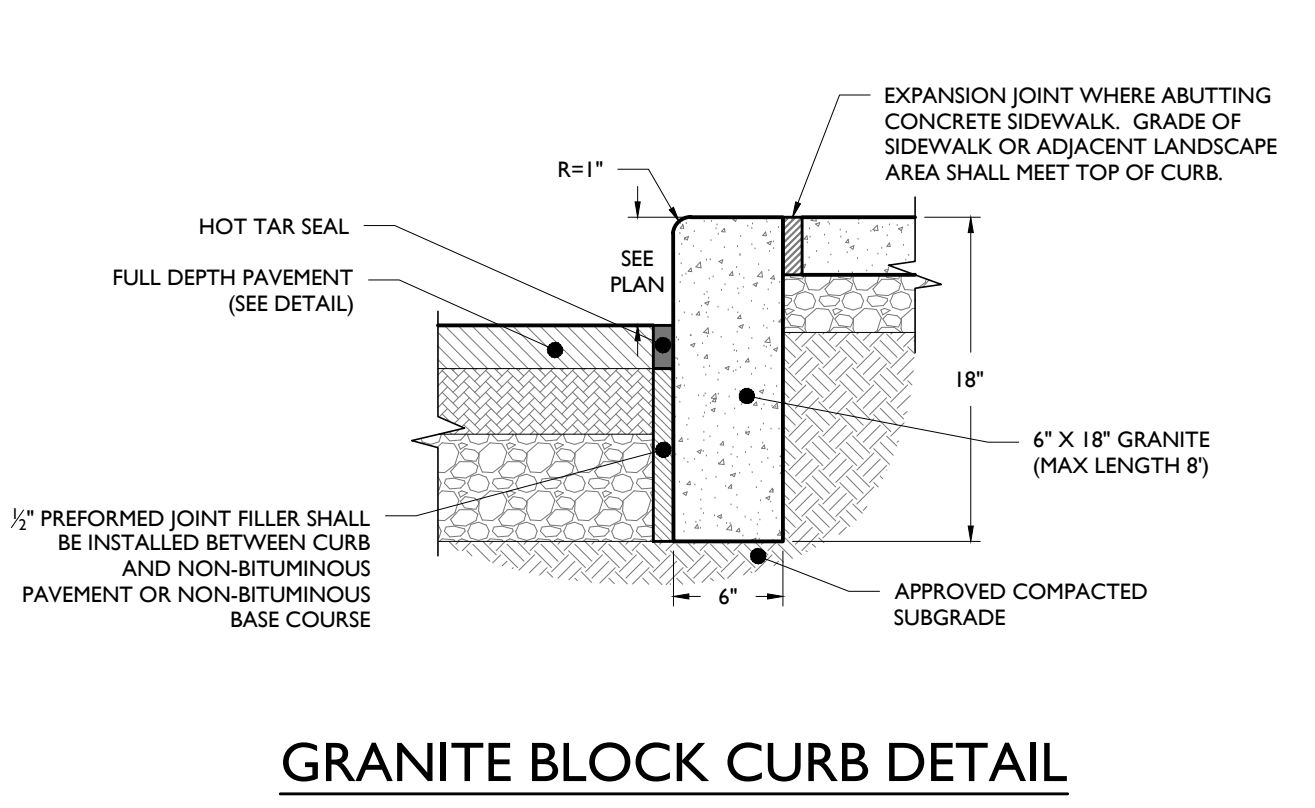
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CONCRETE CURB DETAIL

NOT TO SCALE

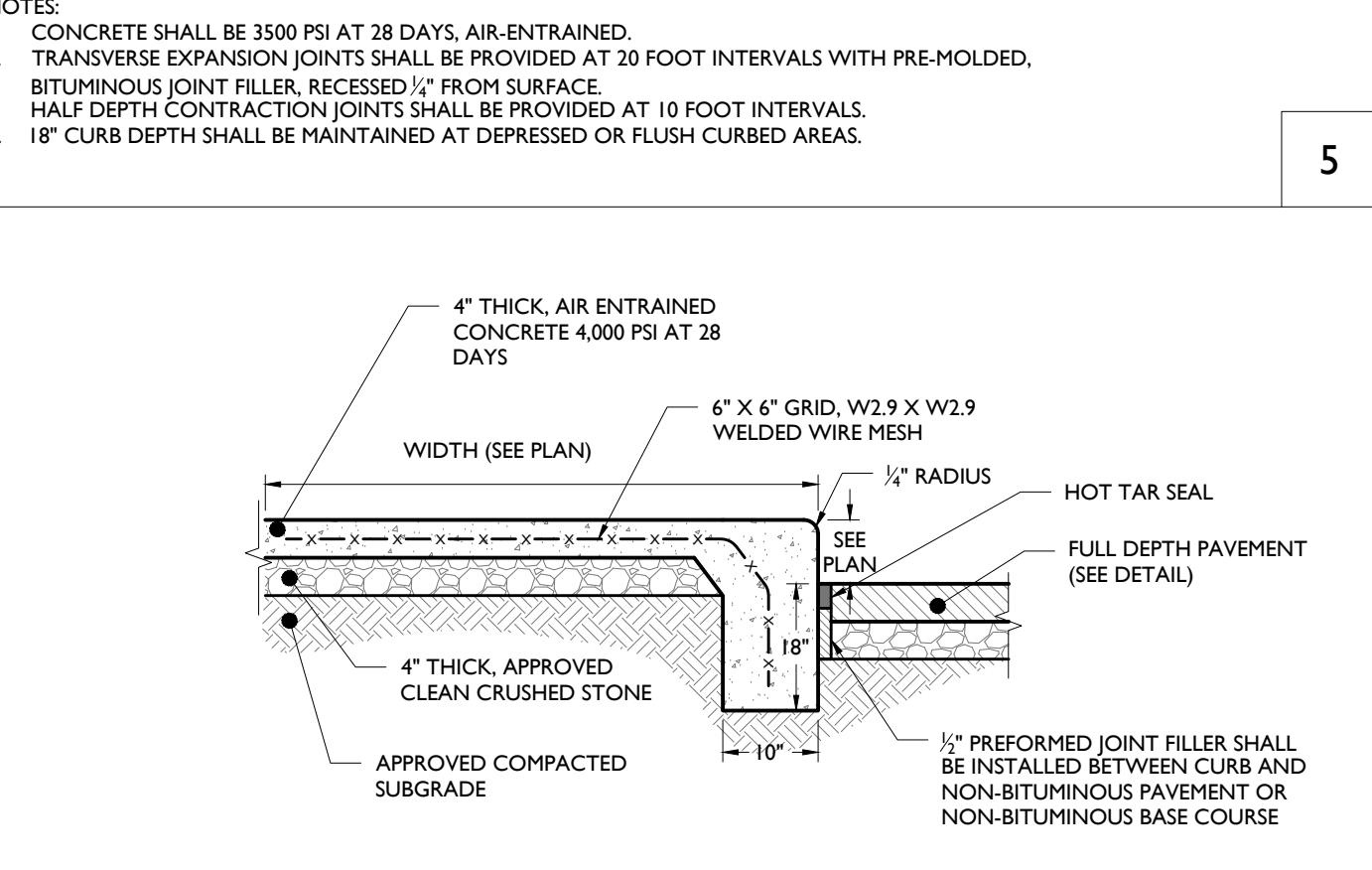
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GRANITE BLOCK CURB DETAIL

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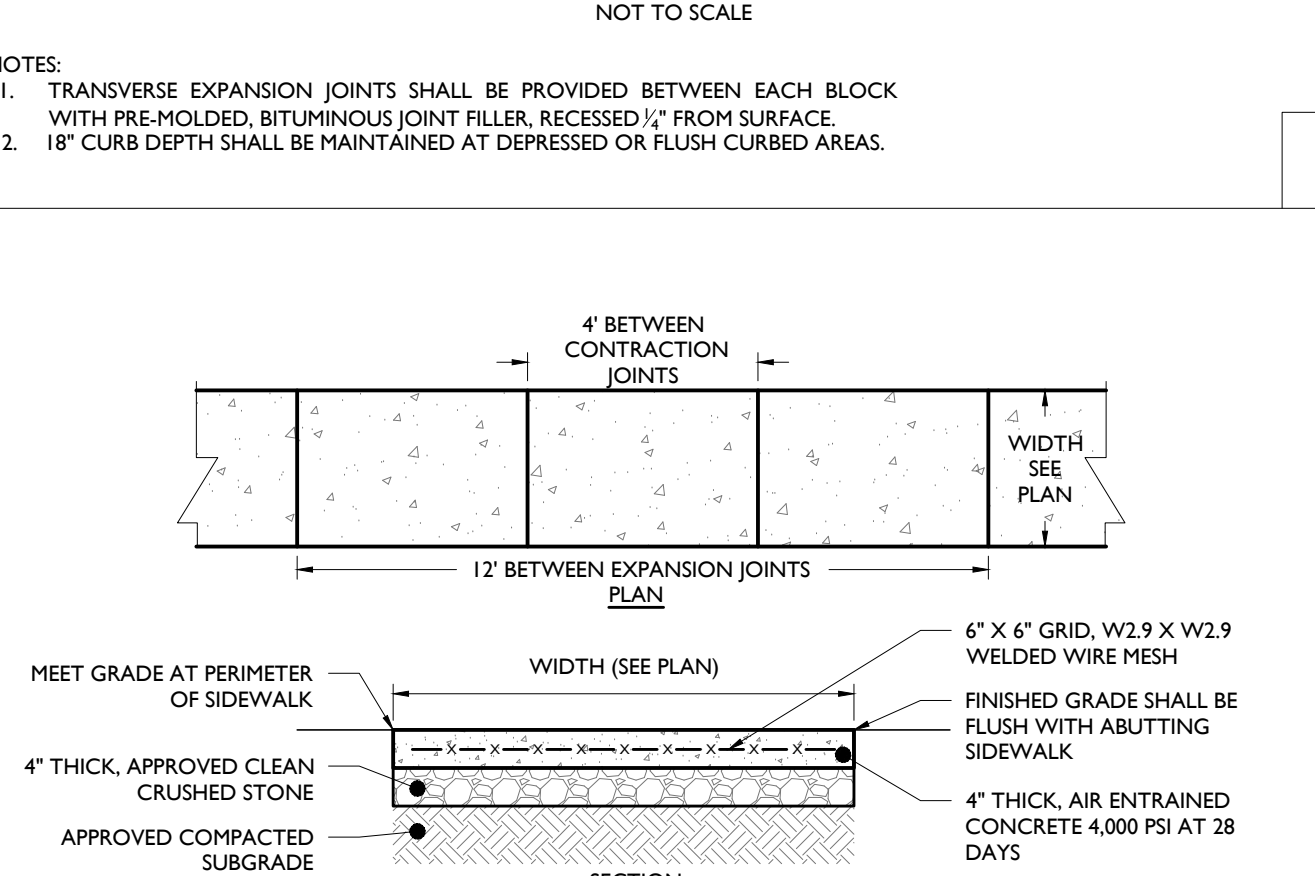
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MONOLITHIC CONCRETE CURB DETAIL

NOT TO SCALE

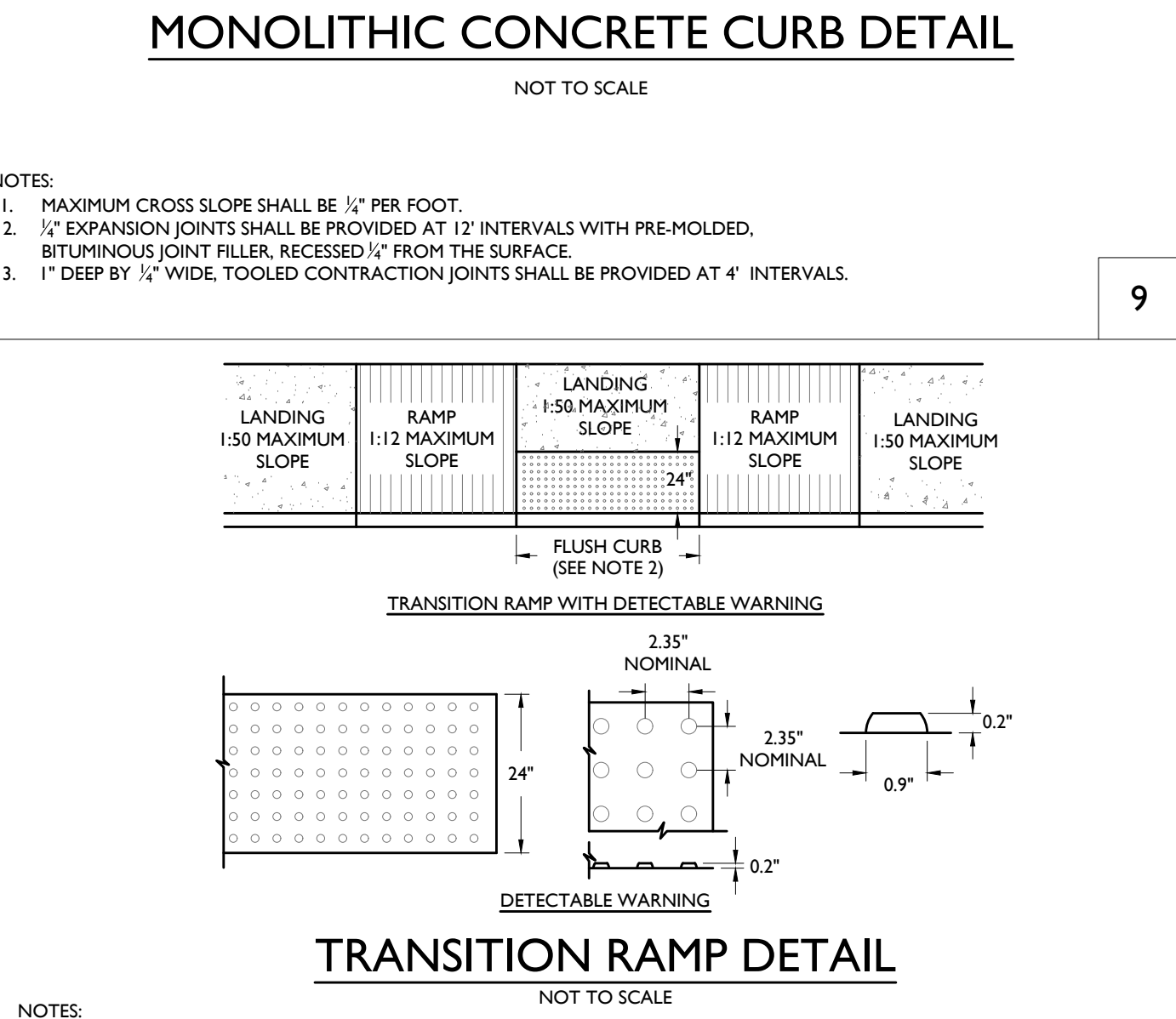
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REINFORCED CONCRETE WALKWAY DETAIL

NOT TO SCALE

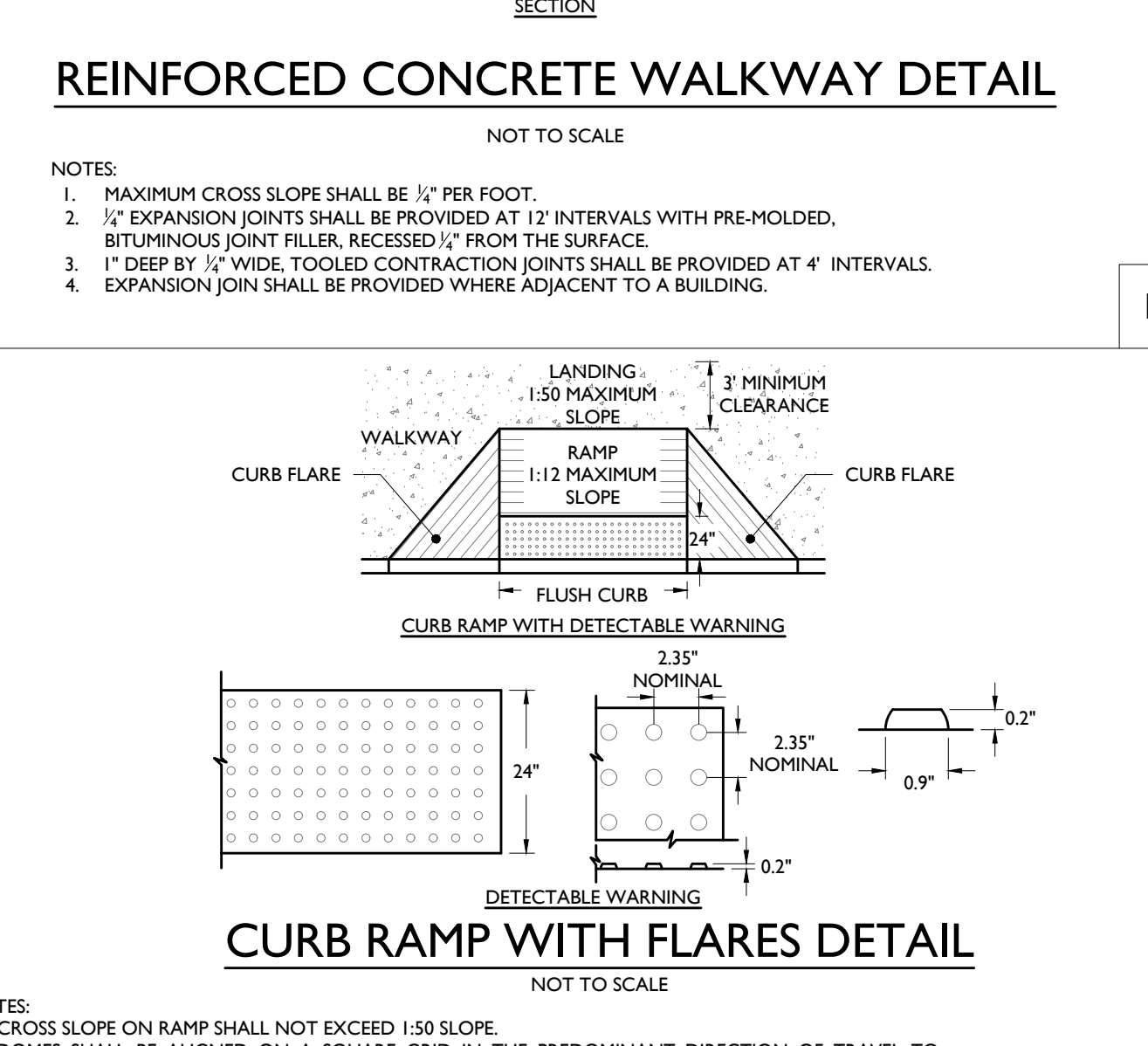
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TRANSITION RAMP DETAIL

NOT TO SCALE

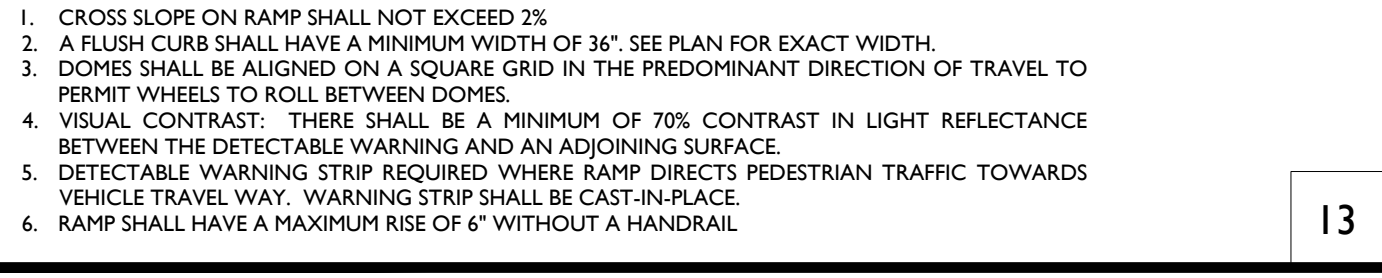
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CURB RAMP WITH FLARES DETAIL

NOT TO SCALE

14



CONCRETE WALL DETAIL

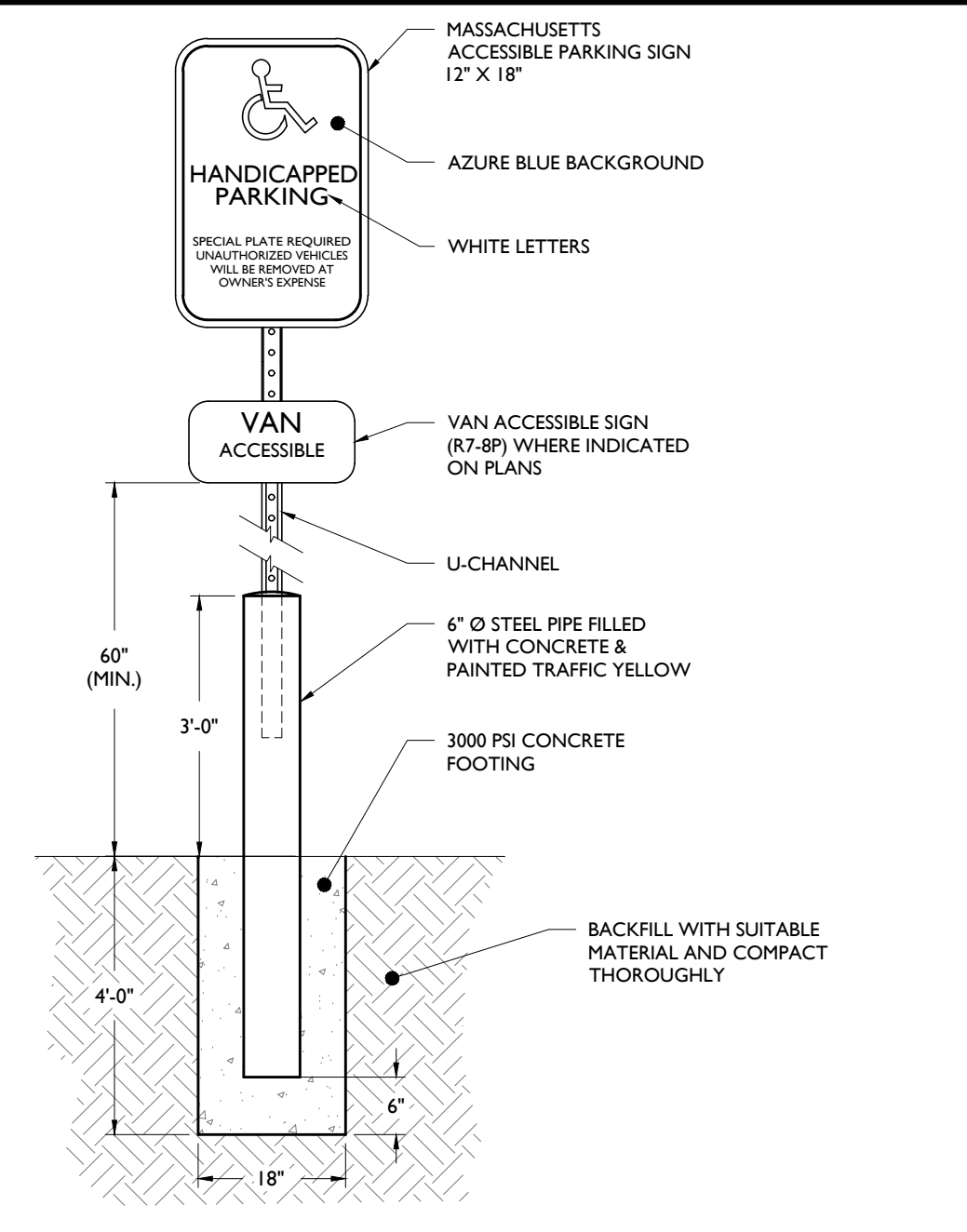
NOT TO SCALE

15

NOTES:
 1. MAXIMUM CROSS SLOPE SHALL BE 1/2" PER FOOT.
 2. 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/2" FROM THE SURFACE.
 3. 1" DEEP BY 1/2" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT 4' INTERVALS.

NOTES:
 1. CROSS SLOPE ON RAMP SHALL NOT EXCEED 2%.
 2. A FLUSH CURB SHALL HAVE A MINIMUM WIDTH OF 36". SEE PLAN FOR EXACT WIDTH.
 3. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
 4. VISUAL CONTRAST: THERE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE.
 5. DETECTABLE WARNING STRIP REQUIRED WHERE RAMP DIRECTS PEDESTRIAN TRAFFIC TOWARDS VEHICLE TRAVEL WAY. WARNING STRIP SHALL BE CAST-IN-PLACE.
 6. RAMP SHALL HAVE A MAXIMUM RISE OF 6" WITHOUT A HANDRAIL.

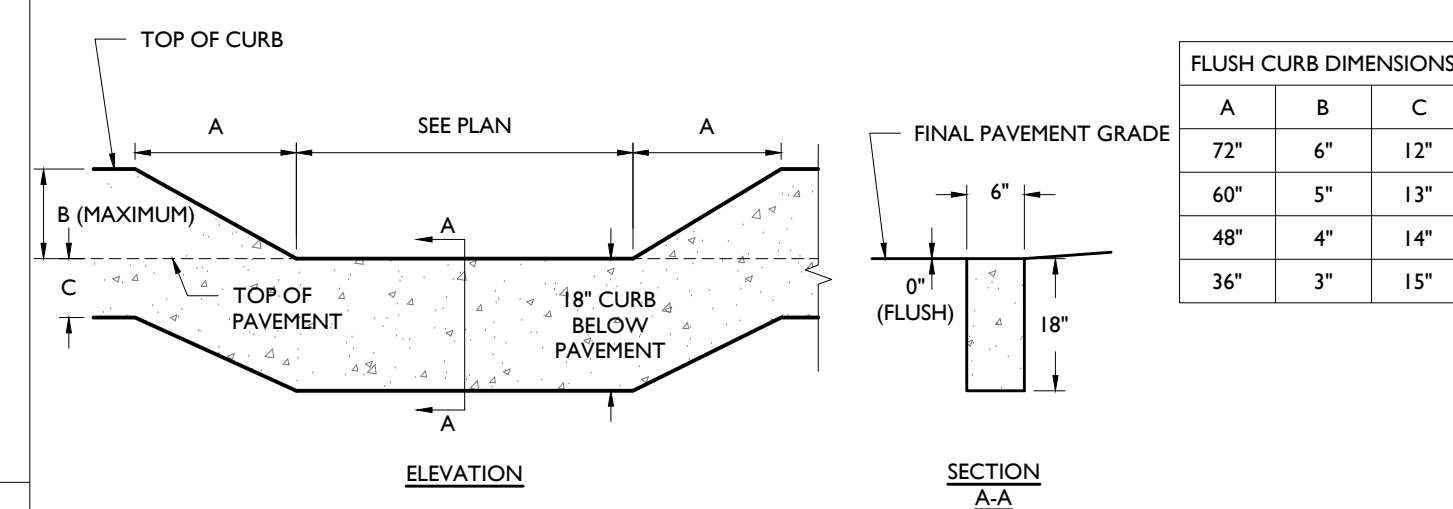
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ACCESSIBLE PARKING SIGN WITH BOLLARD DETAIL

NOT TO SCALE

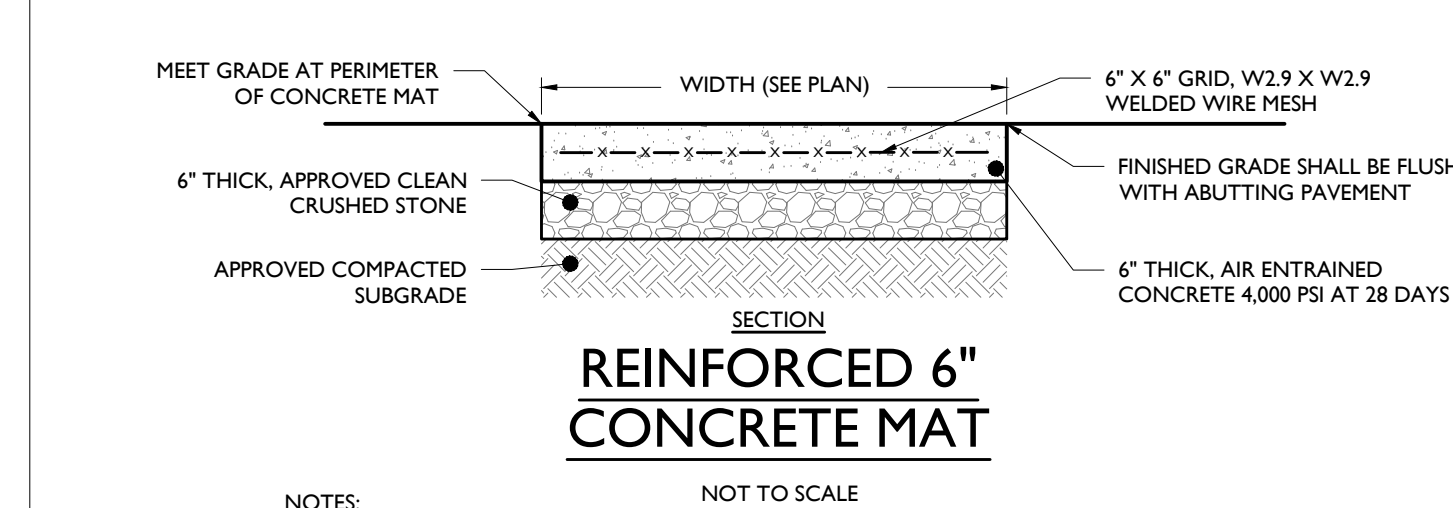
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FLUSH CURB DETAIL

NOT TO SCALE

7



REINFORCED 6" CONCRETE MAT

NOT TO SCALE

11

NOTES:
 1. 1/2" EXPANSION JOINTS WITH WATER SEAL SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/2" FROM THE SURFACE. LONGITUDINAL REBAR TO BE CUT AT EXPANSION JOINTS.
 2. 1" DEEP BY 1/2" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT MID-POINT BETWEEN EXPANSION JOINTS OR 6' INTERVALS MAX.
 3. CONCRETE SHALL RECEIVE BROOM FINISH.
 4. ALL EXPOSED CORNERS TO HAVE 12" CHAMFER.

NOTES:
 1. CONTRACTOR SHALL ENSURE 3" MINIMUM EMBEDMENT FOR REBAR EXPOSED TO EARTH AND 3" MINIMUM EMBEDMENT FOR REBAR EXPOSED TO WEATHER (SURFACE). NOSING REBAR TO BE EMBEDDED 1 1/2".
 2. BACKFILL TO BE SUITABLE MATERIAL, COMPACTED TO 95% OF MAXIMUM DENSITY IN 6" TO 8" LIFTS

NOTES:
 1. APRON @ CHANNEL BOTTOM GRADE
 2. SIDE SLOPE RANGE FROM 1:1 TO 2:1
 3. RIPRAP SHALL BE COMPOSED OF A WELL-GRADED MIXTURE OF STONE SIZE SO THAT 50% OF THE PEGS, BY WEIGHT, SHALL BE LARGER THAN THE #50 SIZE.
 4. BASKET WIRE TO BE GALVANIZED STEEL. MESH OPENING SHALL NOT EXCEED 45" OR HAVE AN AREA GREATER THAN 10 SQ IN

RIP-RAP PAD

RIP-RAP PAD

NOT TO SCALE

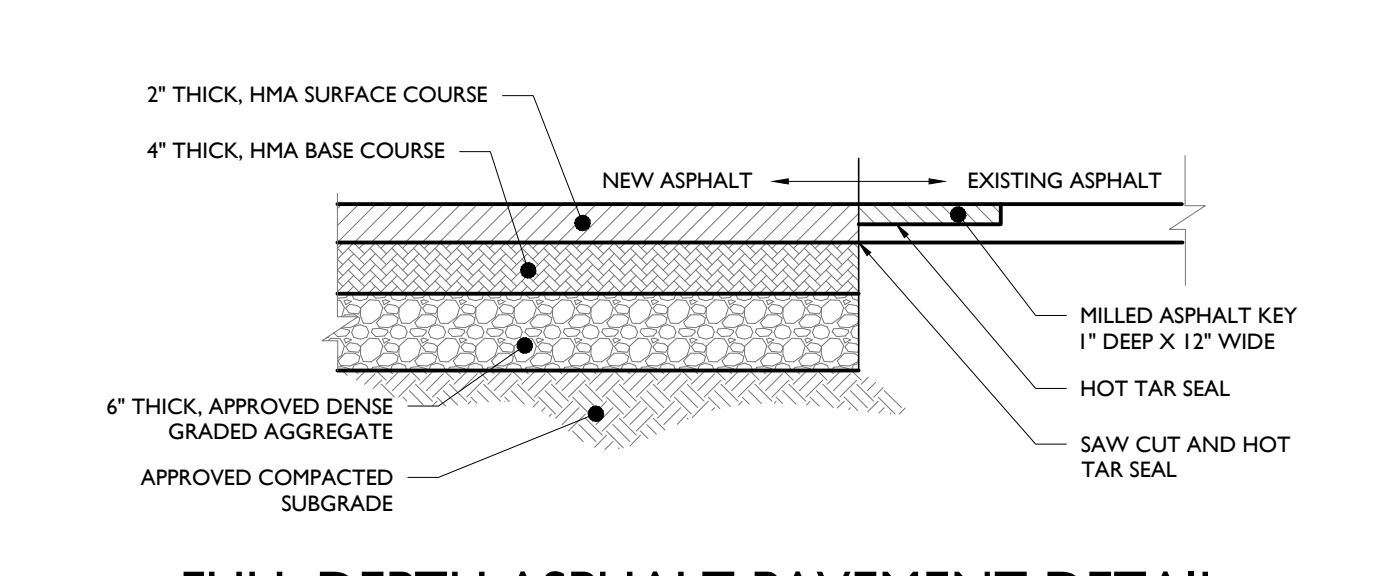
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M.U.T.C.D. NUMBER	TEXT	COLOR		SIZE OF SIGN (WIDTH X HEIGHT)	TYPE OF MOUNT
		LEGEND	BACKGROUND		
STOP SIGN (R1-1)		RED	WHITE	36"x36"	GROUND
DO NOT ENTER (R5-1)		RED	WHITE	30"x30"	GROUND

SIGN DATA TABLE

NOT TO SCALE

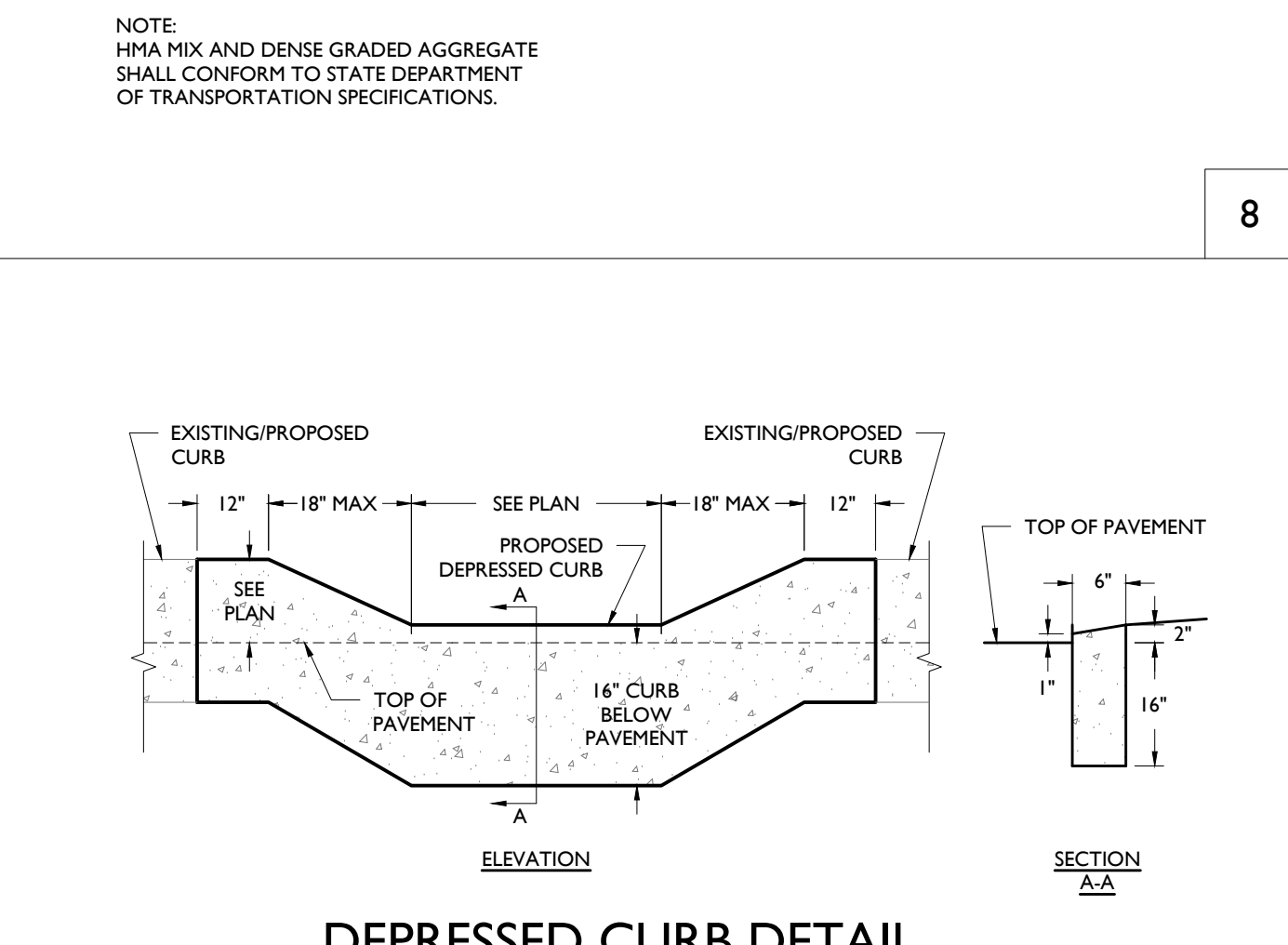
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FULL DEPTH ASPHALT PAVEMENT DETAIL

NOT TO SCALE

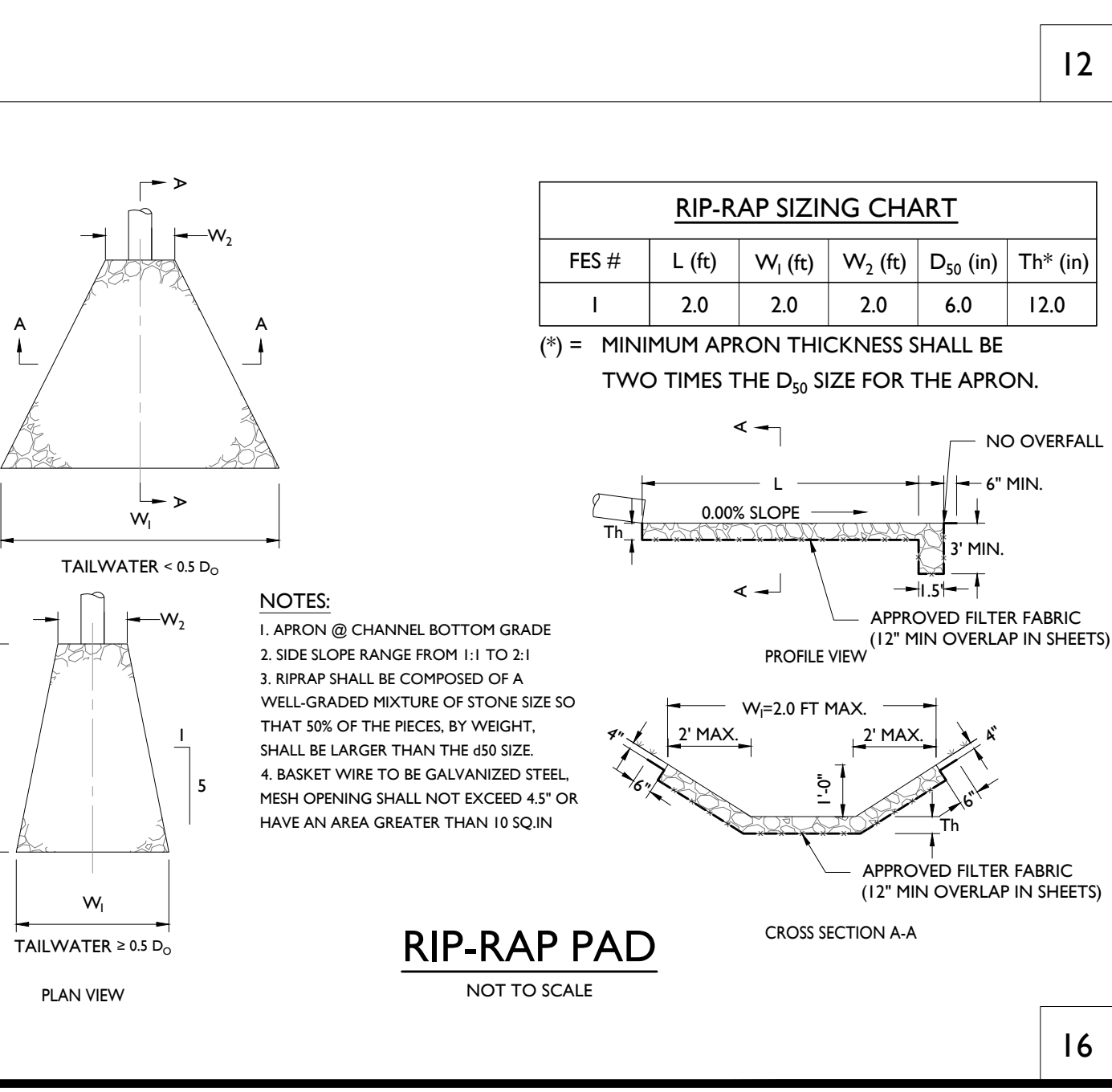
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DEPRESSED CURB DETAIL

NOT TO SCALE

12



RIP-RAP SIZING CHART

FES #	L (ft)	W ₁ (ft)	W ₂ (ft)	D ₅₀ (in)	Th ^a (in)
1	2.0	2.0	2.0	6.0	12.0

(*) = MINIMUM APRON THICKNESS SHALL BE TWO TIMES THE D₅₀ SIZE FOR THE APRON.

RIP-RAP PAD

NOT TO SCALE

16

DATE	BY	DESCRIPTION
01/09/2021	SPM	MUNICIPAL RESUBMISSION
02/01/2021	SPM	DRAFT CONSTRUCTION DOCUMENT ISSUANCE

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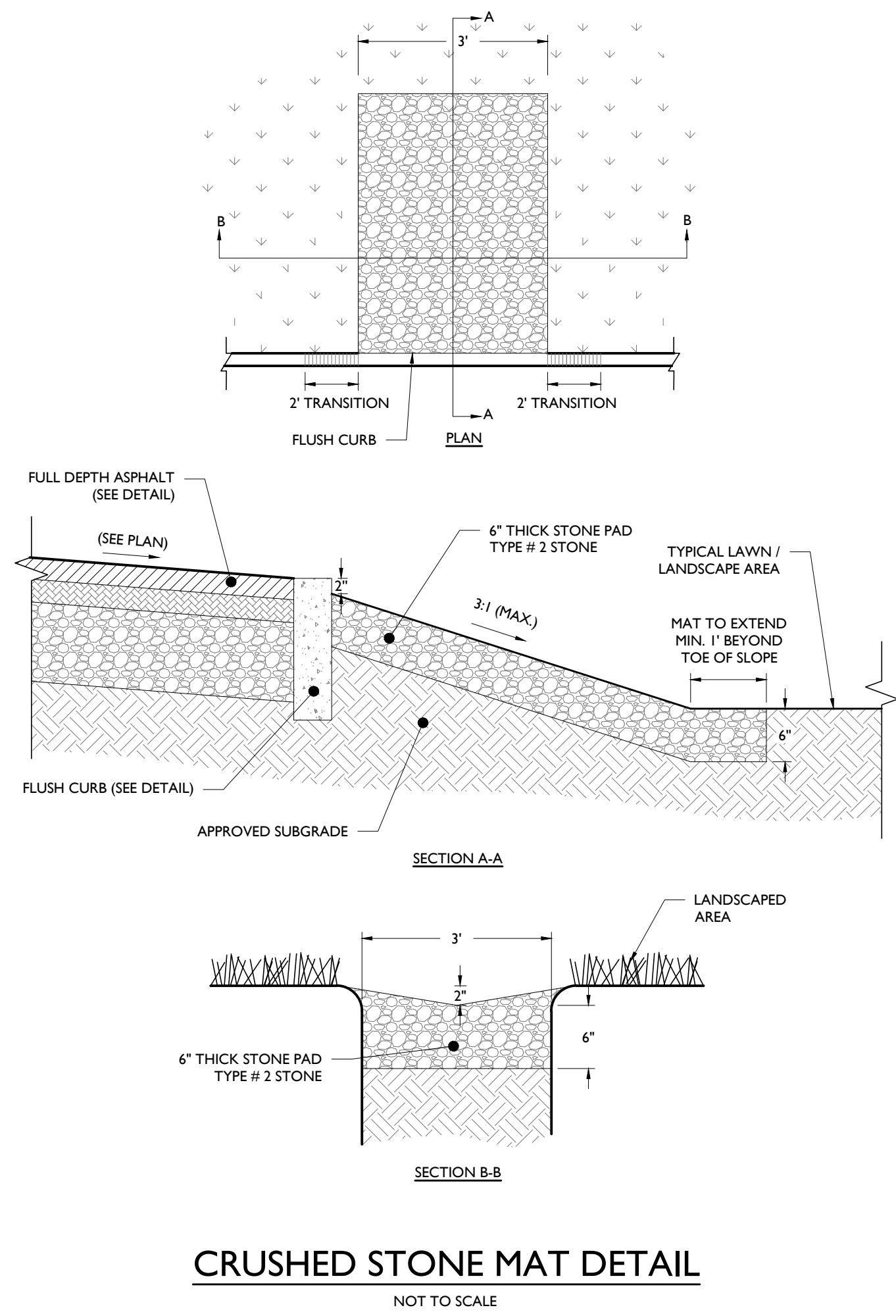
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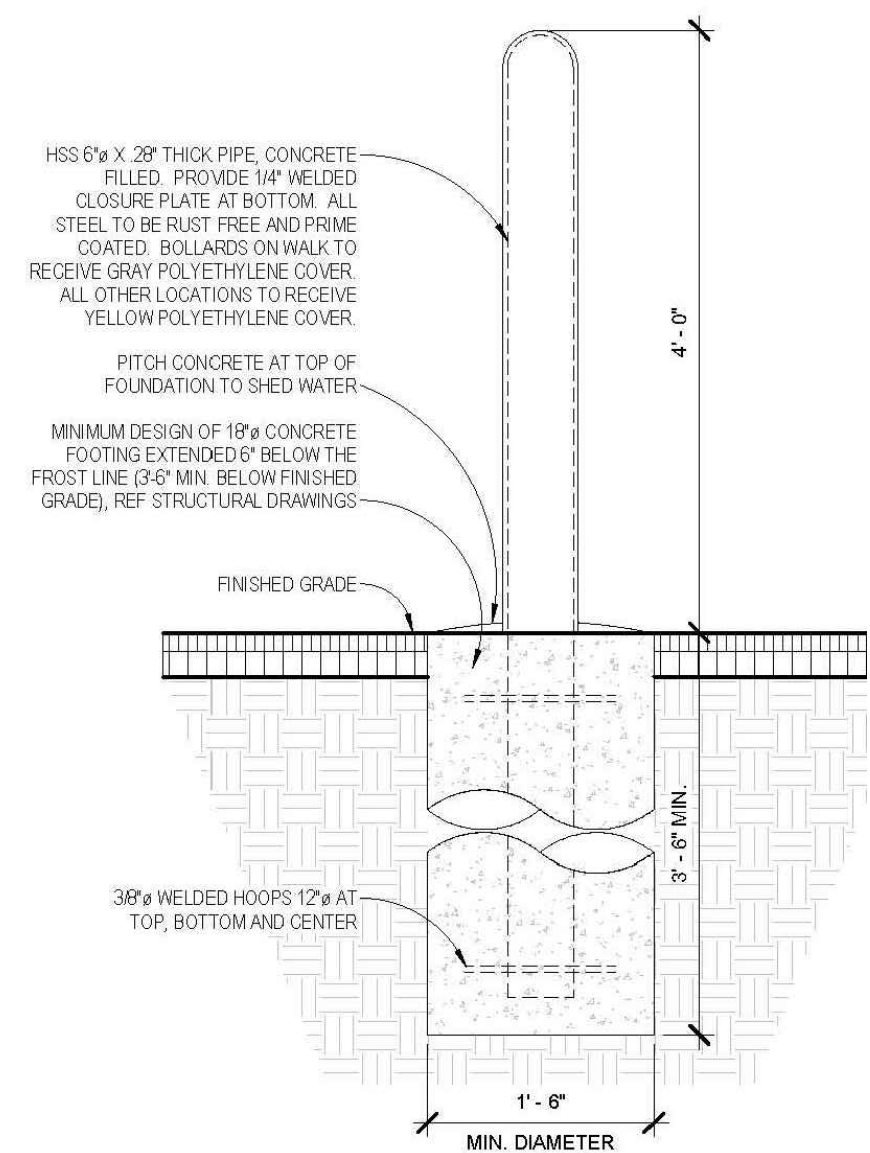
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TITLE: CONSTRUCTION DETAILS

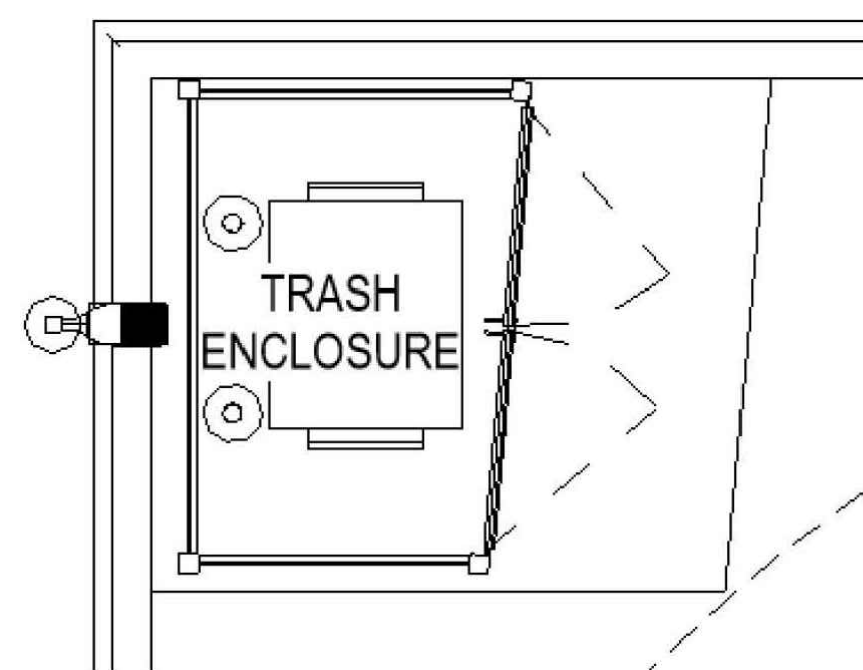
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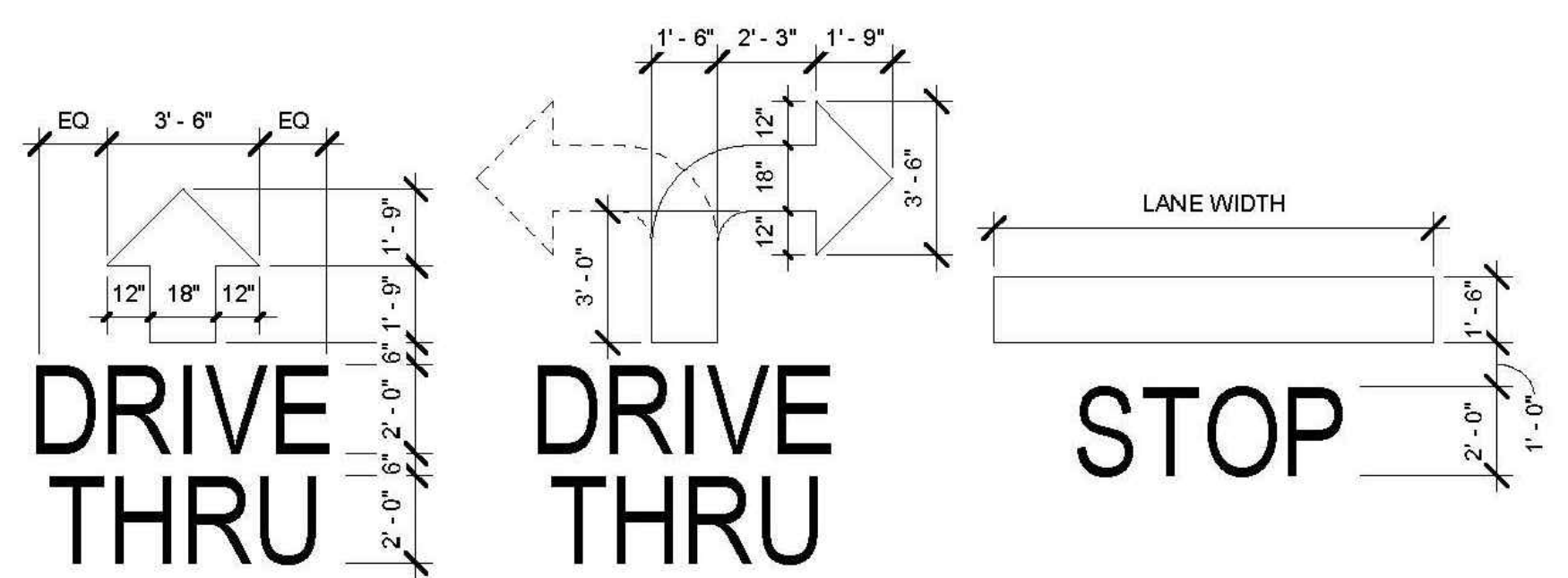
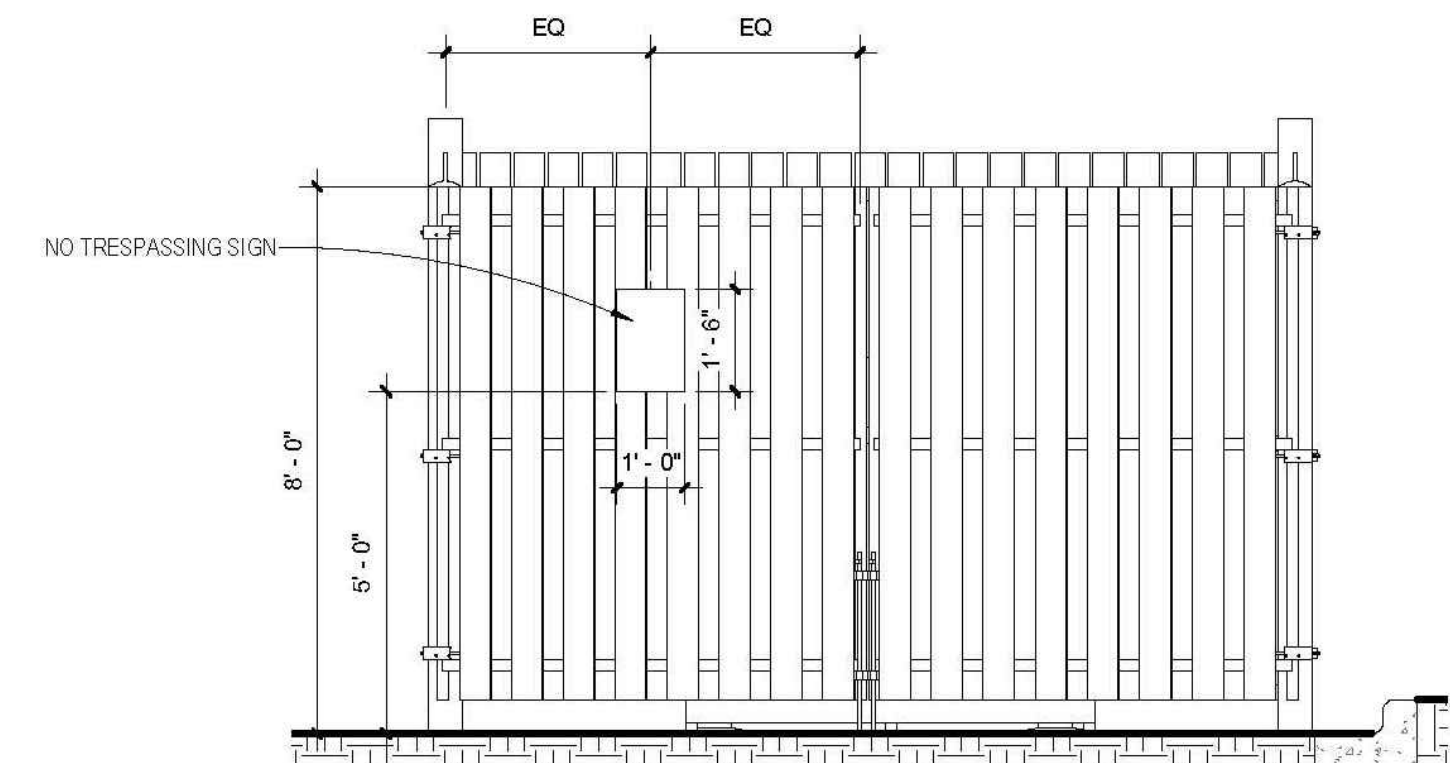
CRUSHED STONE MAT DETAIL
NOT TO SCALE



PIPE BOLLARD DETAIL
NOT TO SCALE



TRASH ENCLOSURE DETAIL
NOT TO SCALE



NOTES:
1. PAINT COLOR TO BE YELLOW FOR ARROWS AND LETTERS. "DRIVE THRU" AND "STOP" LETTERS TO BE ELONGATED HELVETICA MEDIUM, 4" WIDE STROKE.
2. PAINT 2" BLACK OUTLINE AROUND ARROWS AND LETTERS FOR PROJECTS WITH CONCRETE PARKING LOTS.

PAVEMENT MARKING DETAILS
NOT TO SCALE

U:\STONEFIELD\CG\CONSTRUCTION\2022\180218031 COCCA DEVELOPMENT - 7N CENTRAL STREET WINCHENDON, MASSACHUSETTS\1-21-2022.DWG

NO.	DATE	BY	DESCRIPTION
02	01/26/2022	SPM	MUNICIPAL RESUBMISSION
01	10/27/2021	SPM	DRAFT CONSTRUCTION DOCUMENT ISSUANCE

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SITE PLAN SET
FIDC I63 LLC
PROPOSED PHARMACY WITH DRIVE-THRU

BLOCK 5B3, LOT 50
270 CENTRAL STREET (U.S. ROUTE 202)
TOWN OF WINCHENDON
WORCESTER COUNTY, MASSACHUSETTS



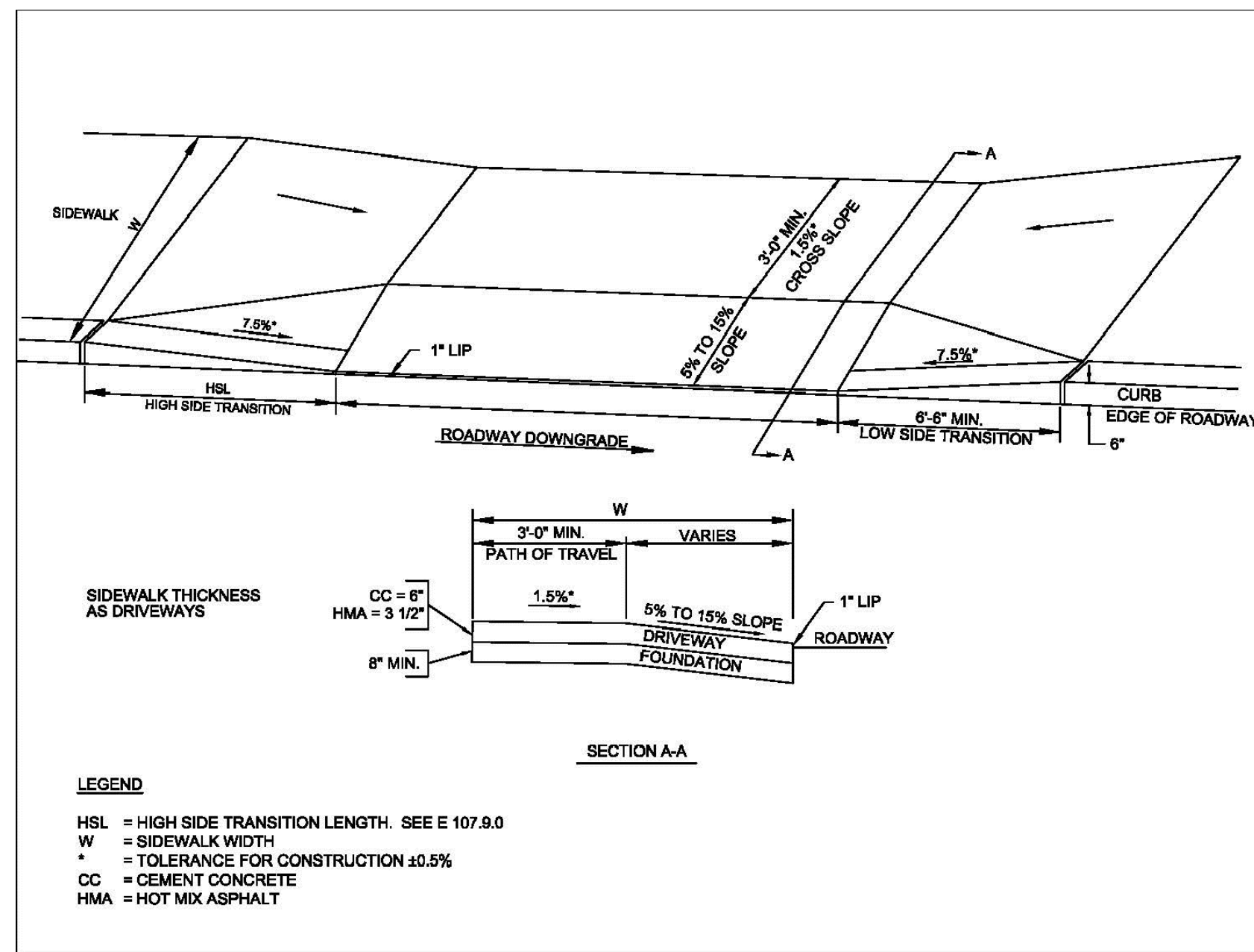
JOSHUA H. KLINE, P.E.
MASSACHUSETTS LICENSE No. 53936
LICENSED PROFESSIONAL ENGINEER

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SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:
CONSTRUCTION DETAILS

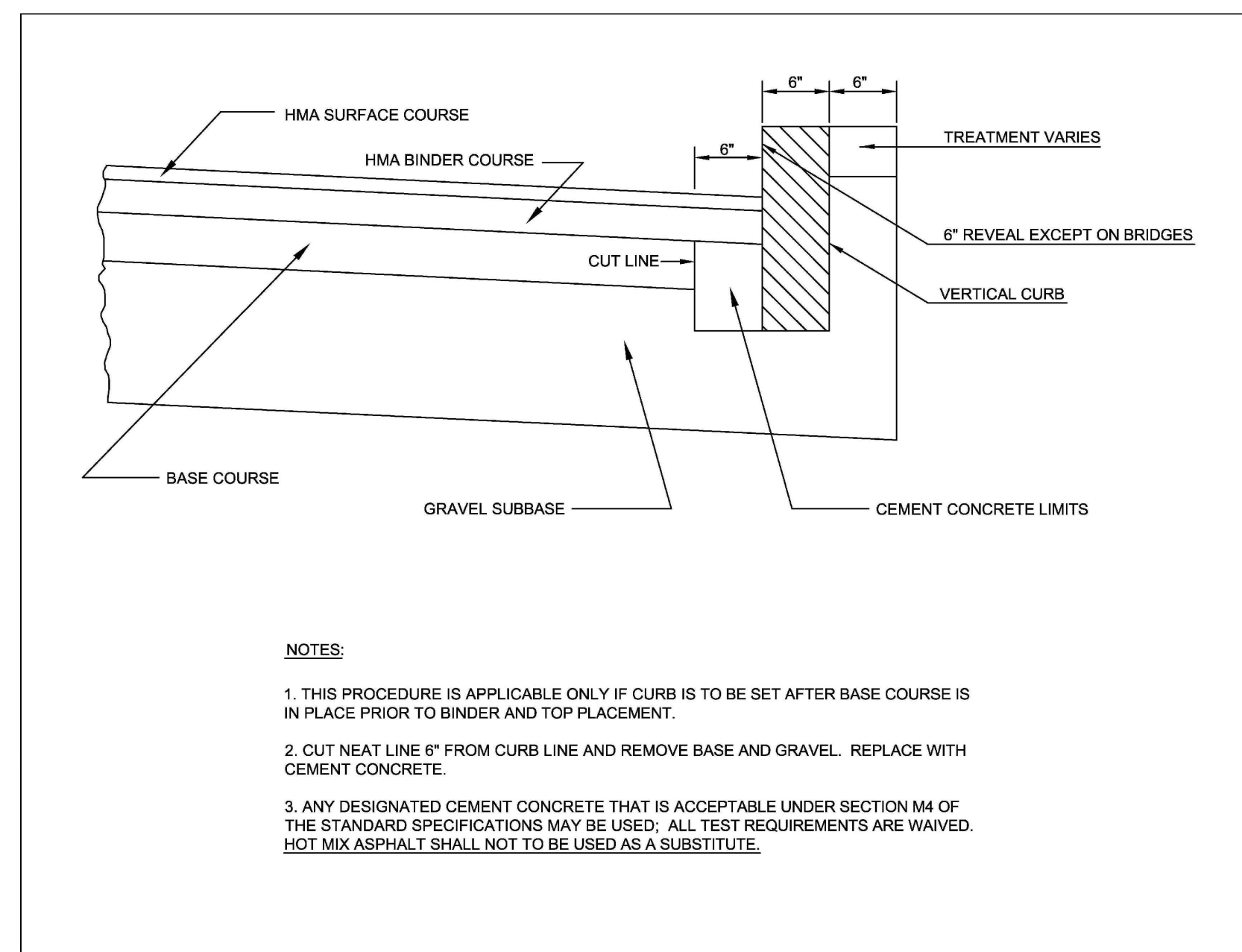
DRAWING:
C-13



SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS DETAIL

DRAWING E 107.7.0 - NOT TO SCALE

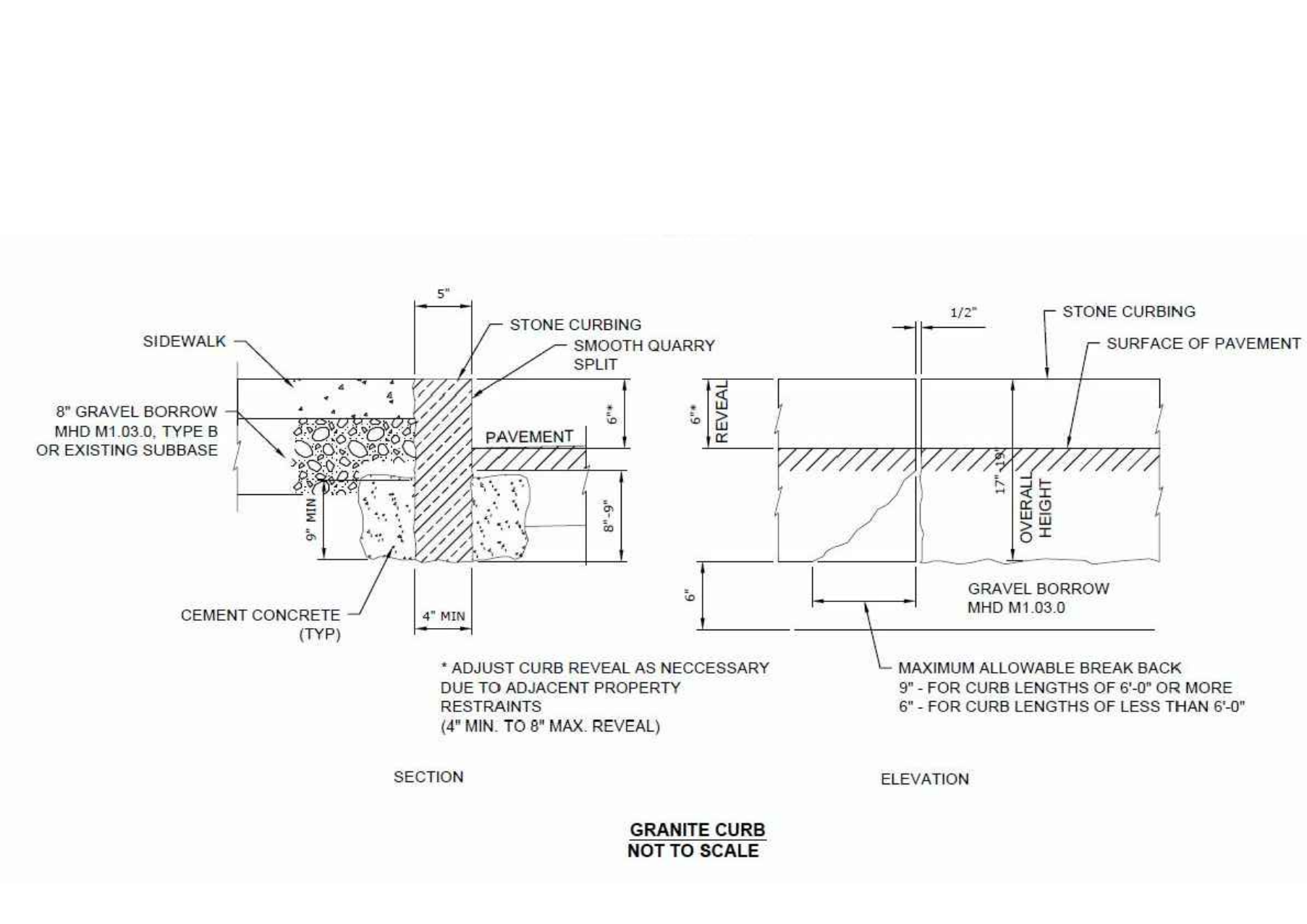
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METHOD OF SETTING VERTICAL CURB DETAIL

DRAWING E 106.3.0 - NOT TO SCALE

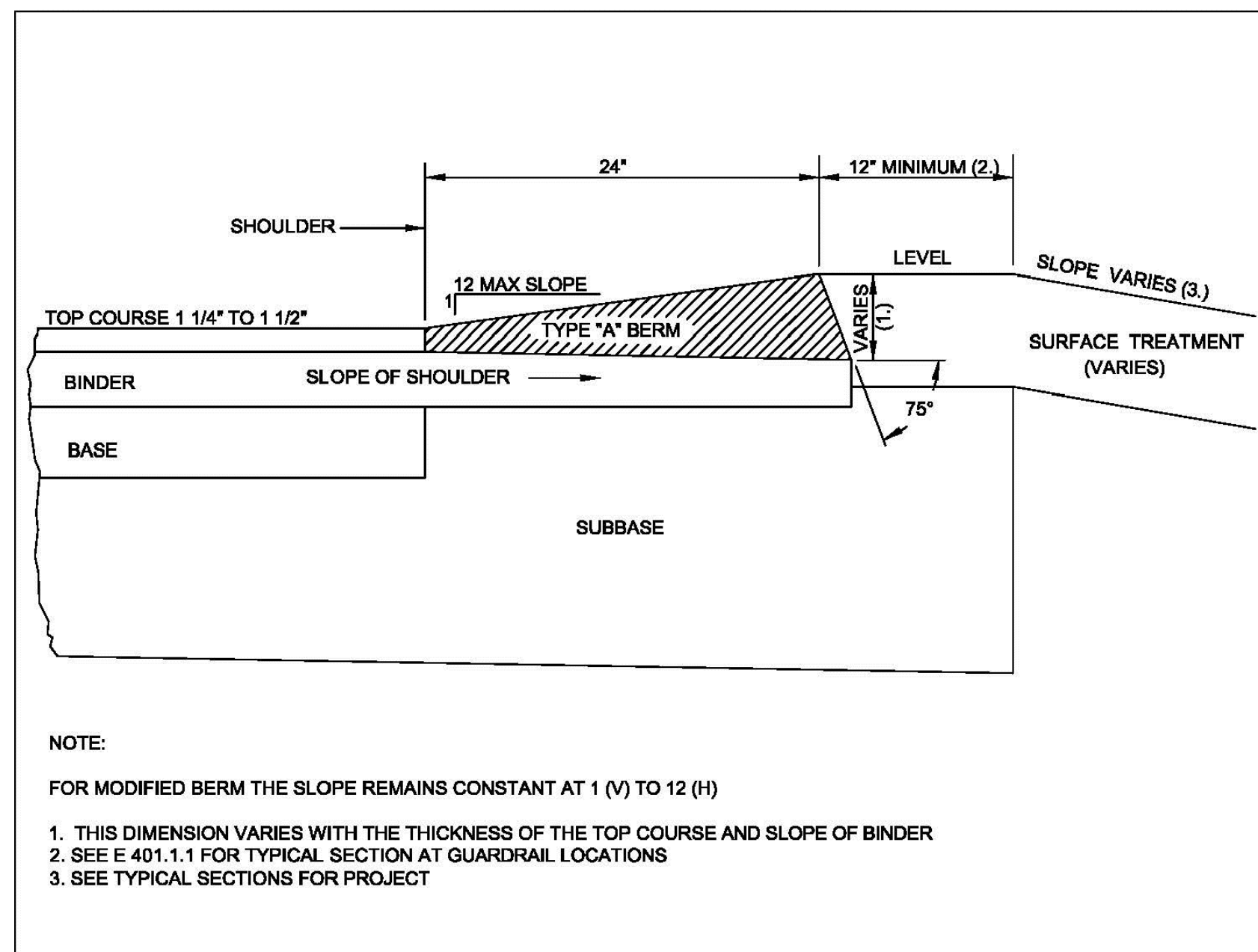
2



GRANITE CURB DETAIL

NOT TO SCALE

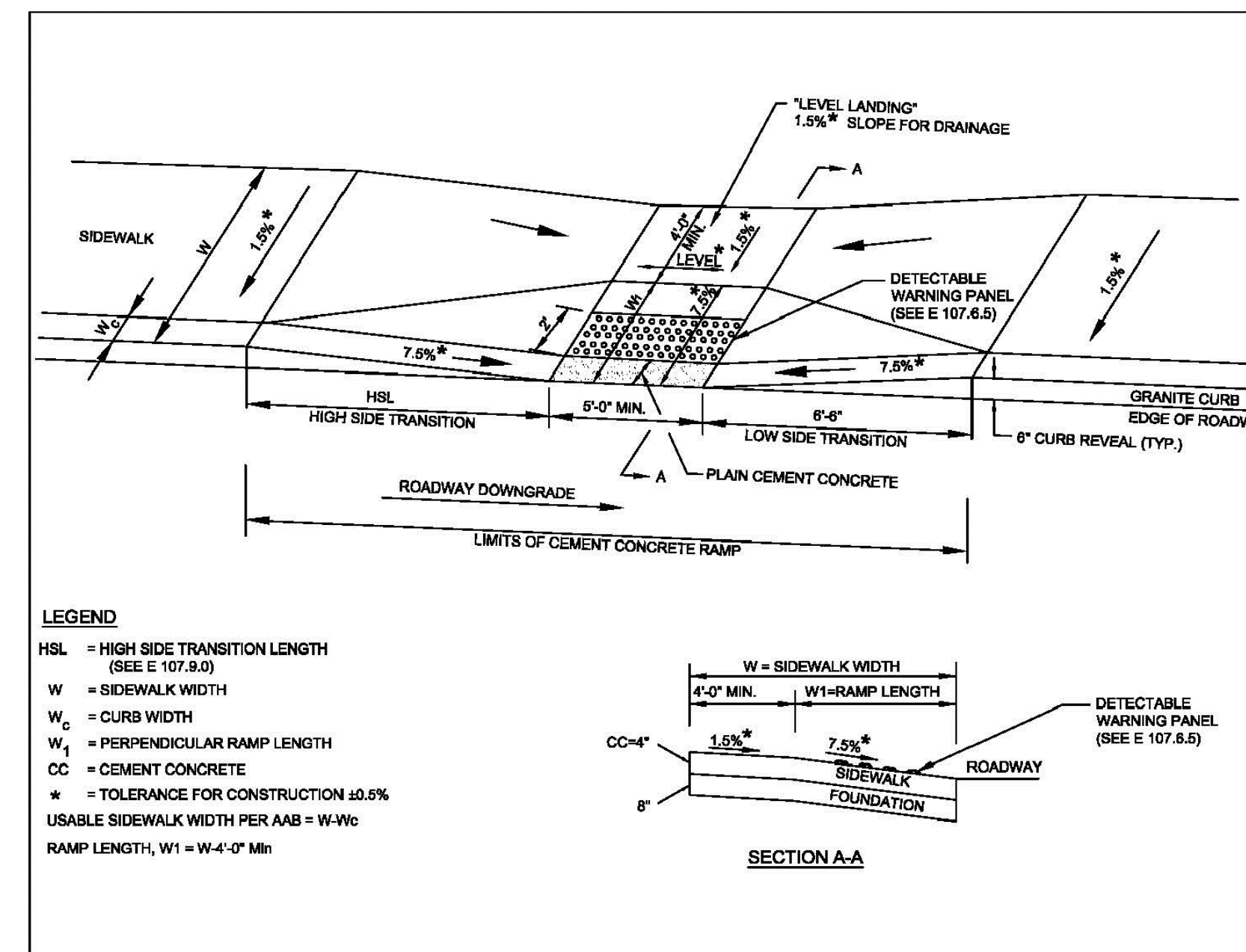
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HOT MIX ASPHALT BERM TYPE A DETAIL

DRAWING E 106.1.0 - NOT TO SCALE

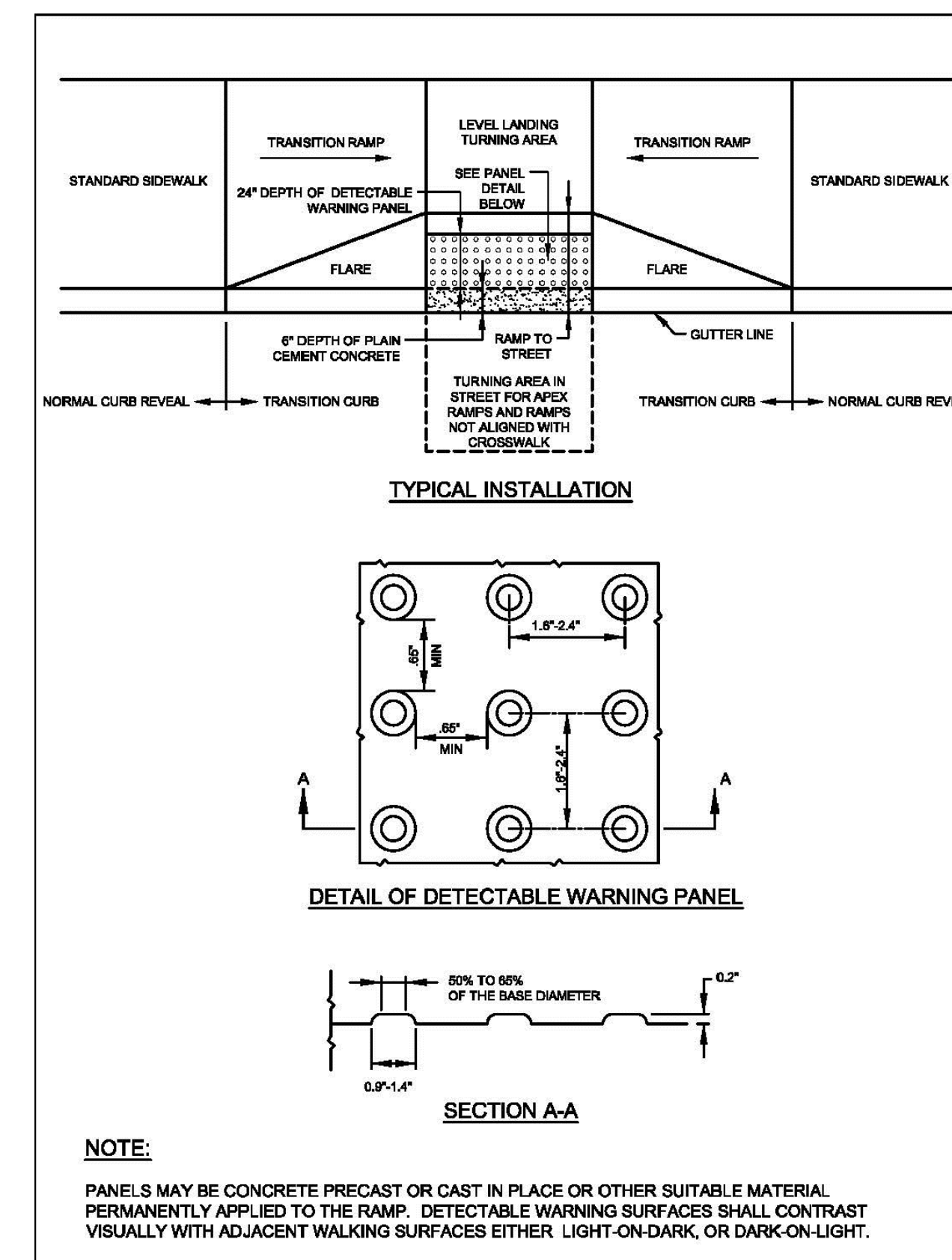
4



WHEELCHAIR RAMP LESS THAN 12'-4" SIDEWALK DETAIL

DRAWING E 107.6.5.7 & 107.6.5.8 - NOT TO SCALE

5



DETECTABLE WARNING PANEL DETAIL

6

NO.	DATE	ISSUE	BY	DESCRIPTION
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SITE PLAN SET

FIDC I63 LLC

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WORCESTER COUNTY, MASSACHUSETTS

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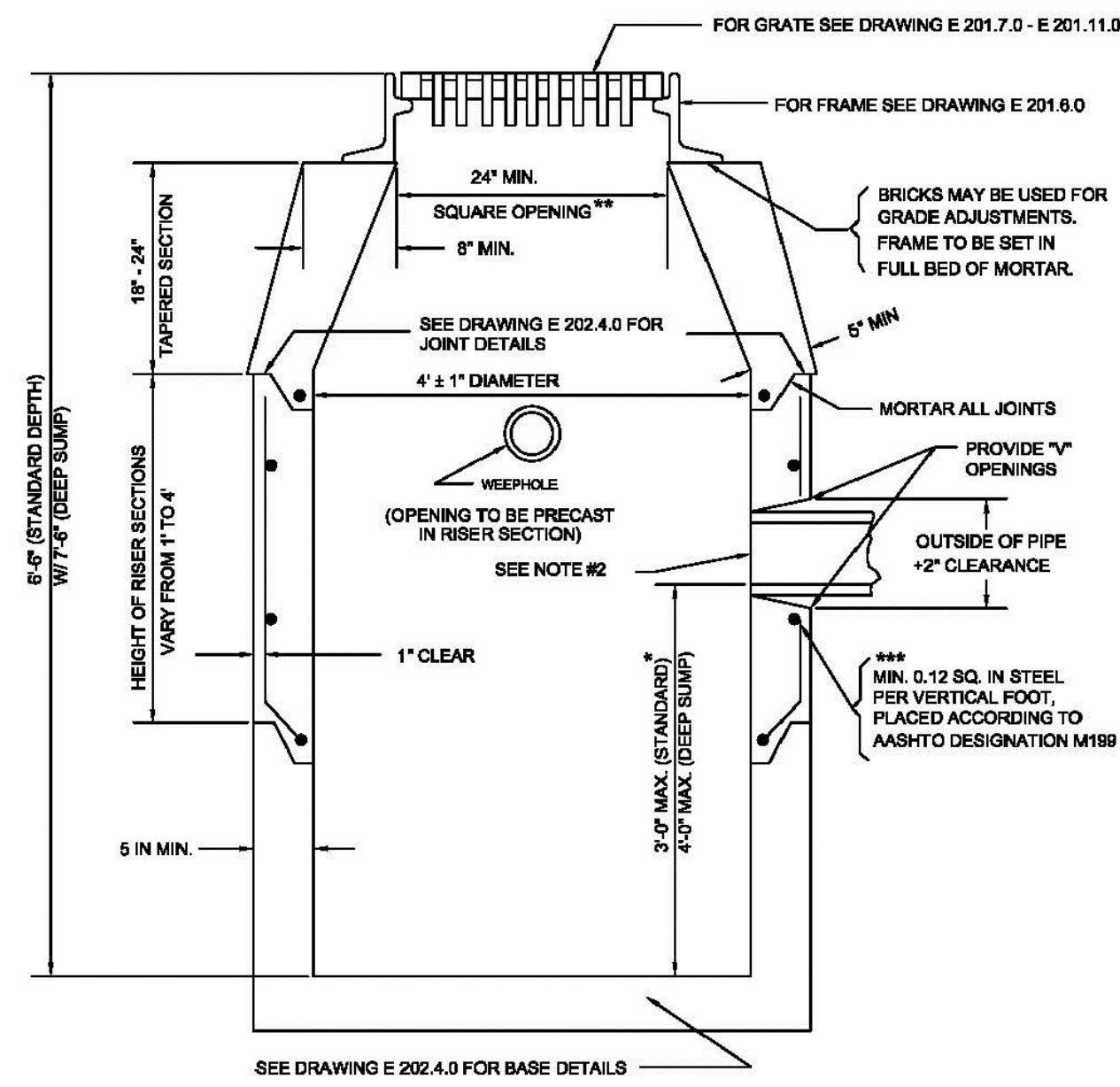


SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:
CONSTRUCTION DETAILS

DRAWING:

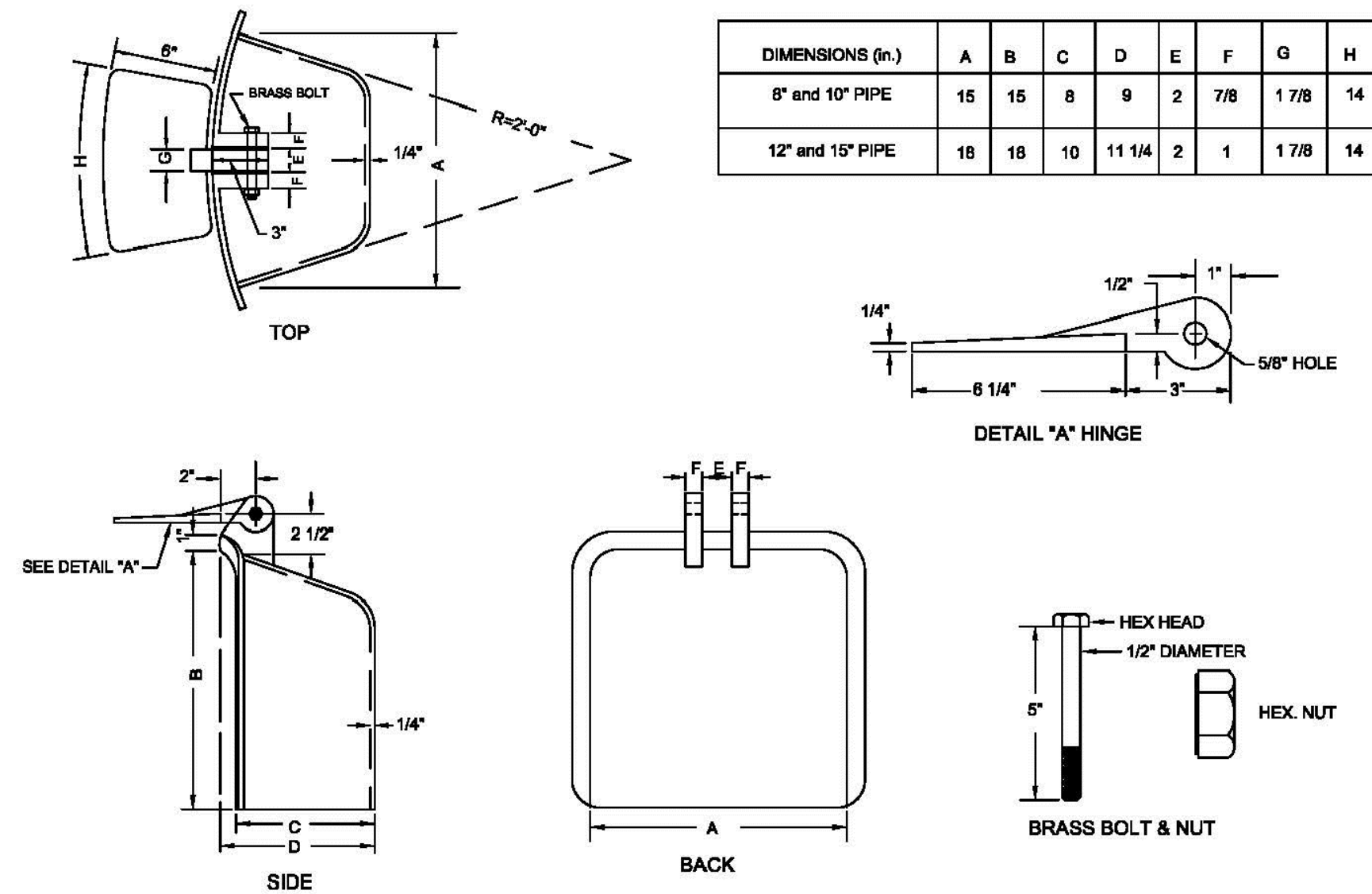
C-15



- NOTES:
- * MINIMUM DEPTH OF SUMP TO BE 2 FT
 - ** WHEN A CURB INLET IS INSTALLED, THE OPENING IS TO BE 24"x1' X 27"x1'
 - *** REINFORCING STEEL BASED ON A WALL THICKNESS OF 5"

PRECAST CONCRETE CATCH BASIN DETAIL

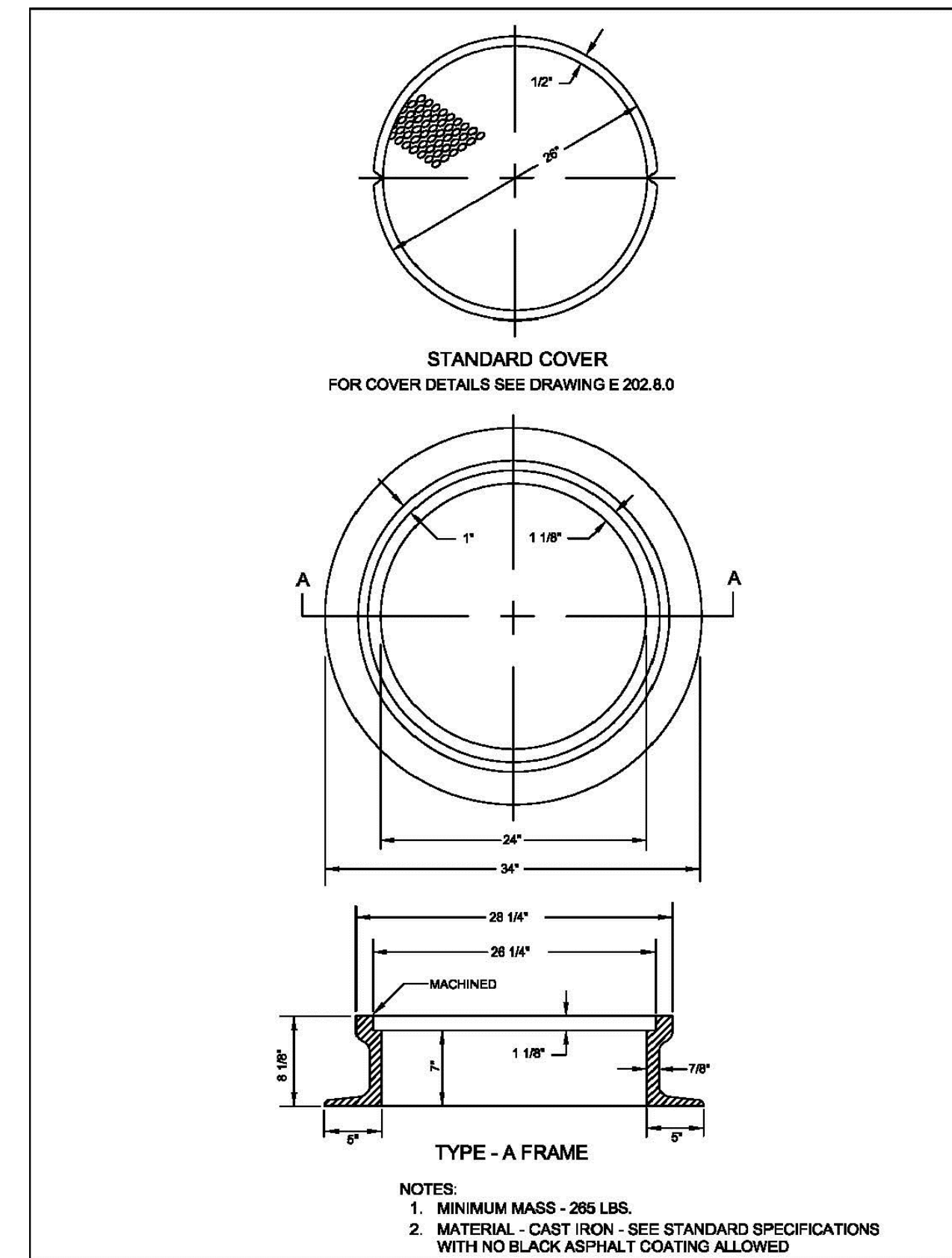
DRAWING E 201.4.0 - NOT TO SCALE



- NOTE:
- 1. HOODS TO BE GRAY CAST IRON - SEE STANDARD SPECIFICATIONS WITH NO BLACK ASPHALT COATING ALLOWED

CATCH BASIN HOOD DETAIL

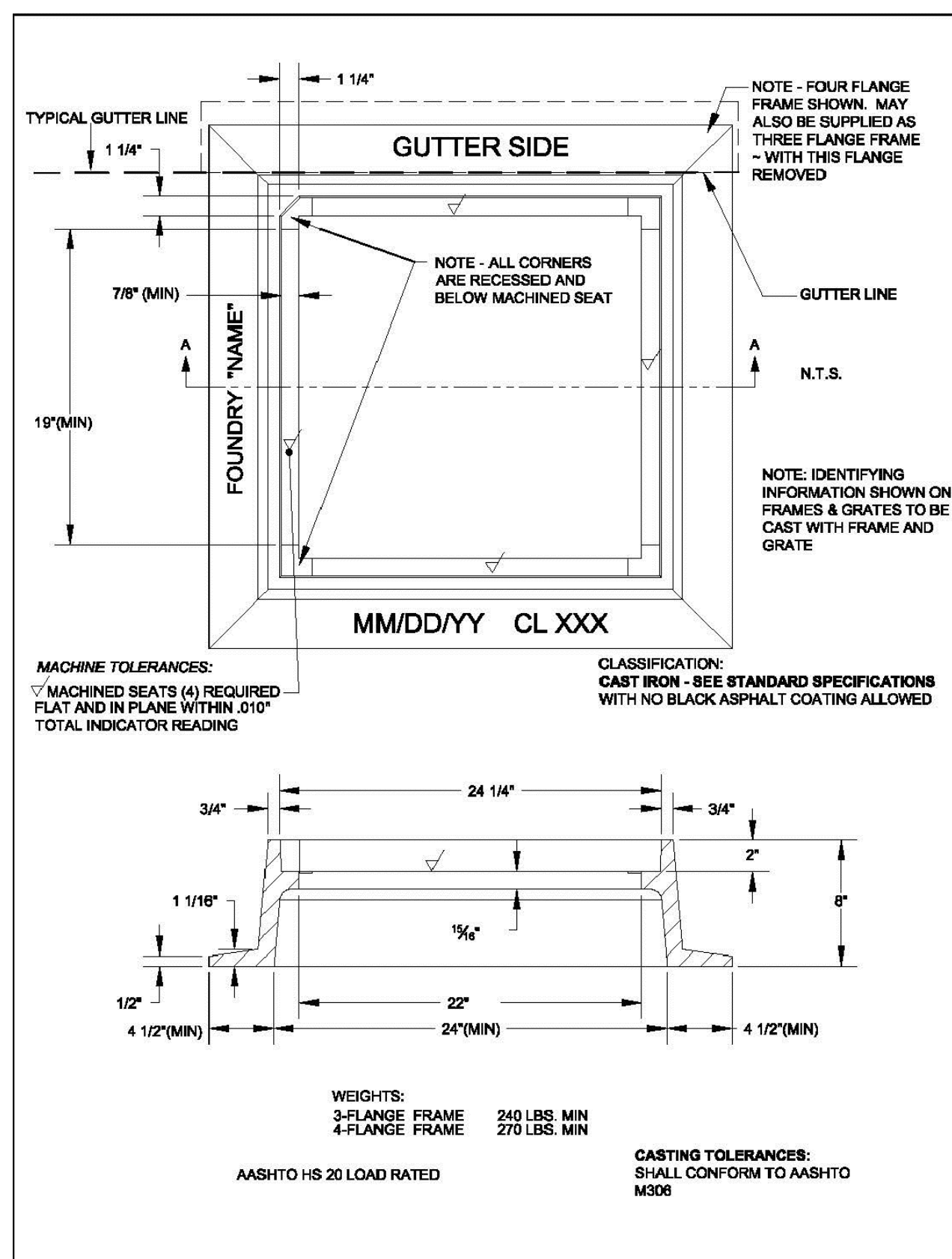
DRAWING E 201.12.0 - NOT TO SCALE



- NOTES:
- 1. MINIMUM MASS - 265 LBS.
 - 2. MATERIAL - CAST IRON - SEE STANDARD SPECIFICATIONS WITH NO BLACK ASPHALT COATING ALLOWED

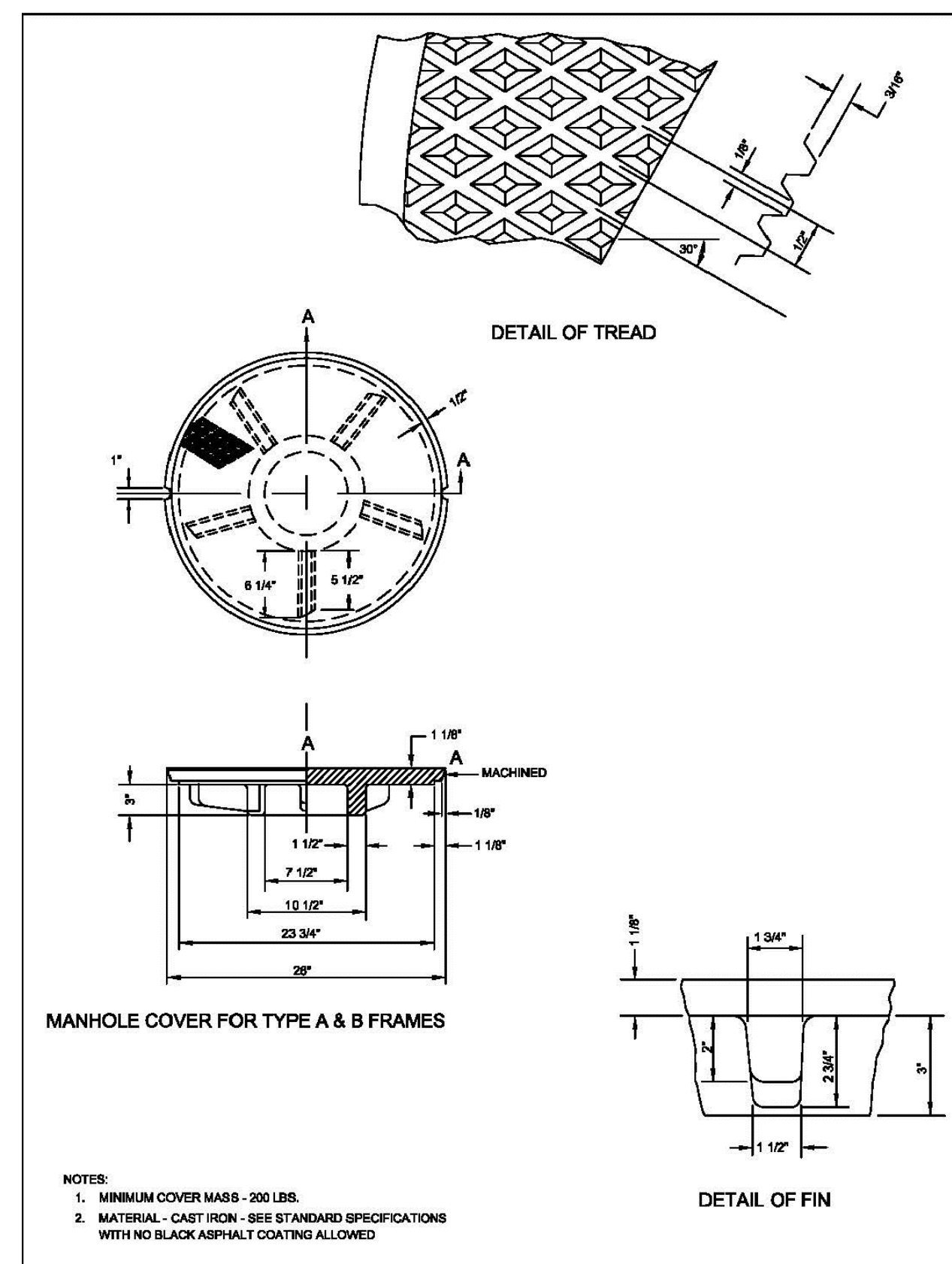
CATCH BASIN FRAME DETAIL

DRAWING E 201.6.0 - NOT TO SCALE



MANHOLE FRAME AND COVER - A FRAME DETAIL

DRAWING 202.6.0 - NOT TO SCALE



- NOTES:
- 1. MINIMUM COVER MASS - 200 LBS.
 - 2. MATERIAL - CAST IRON - SEE STANDARD SPECIFICATIONS WITH NO BLACK ASPHALT COATING ALLOWED

MANHOLE COVER DETAIL

DRAWING 202.8.0 - NOT TO SCALE

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SCALE: AS SHOWN PROJECT ID: BOS-210033

CONSTRUCTION
DETAILS

DRAWING:

C-16

