



**LOCUS / KEY MAP**  
SCALE: 1" = 1,000'±

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

PARCEL ID: 5B3-0-50  
290 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 DEBARTOLO PLACE, SUITE 400  
BOARDMAN, OHIO 44512  
(330) 729-1010

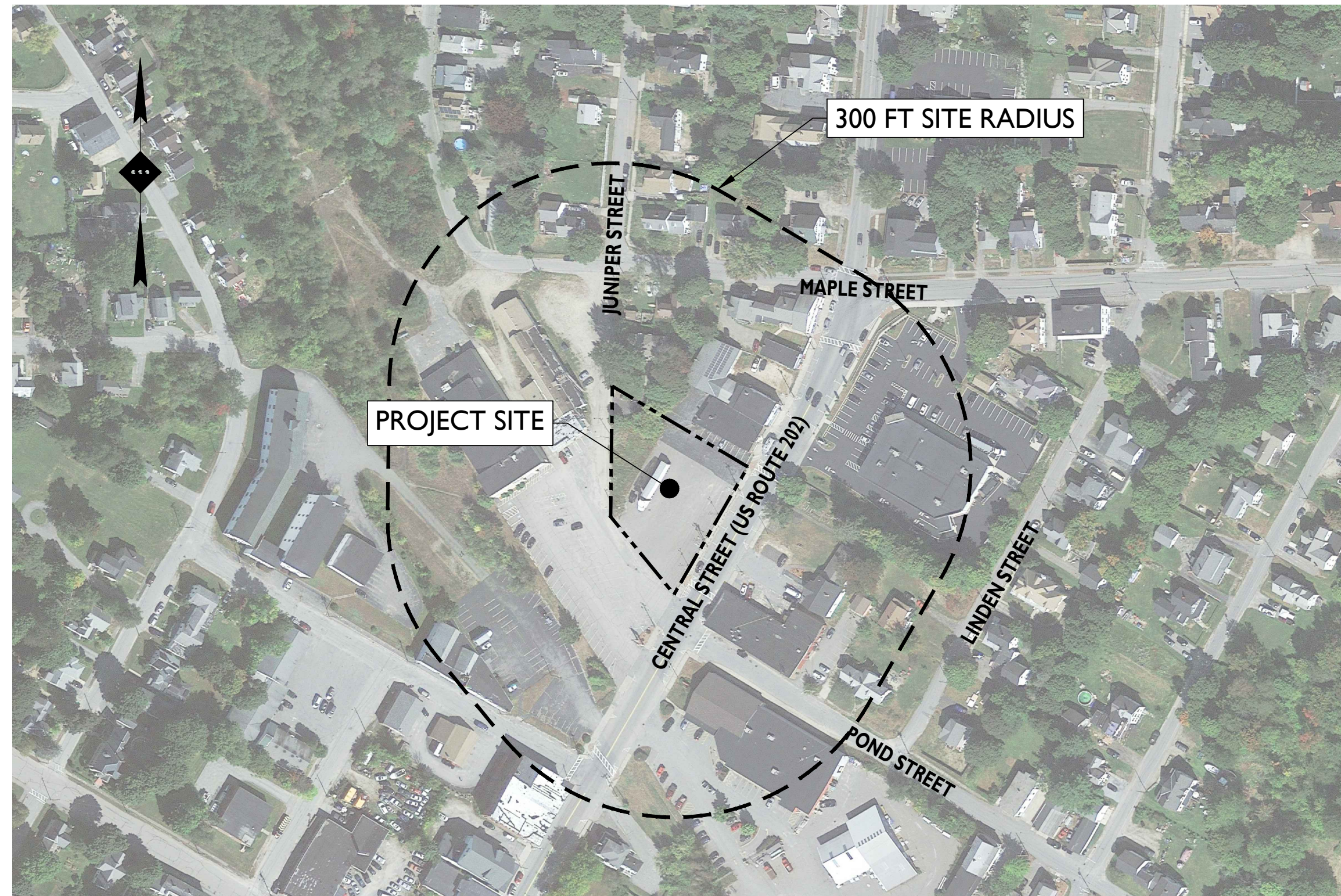
**OWNER**

TIGHE J. MATHIEU  
105 ISLAND ROAD  
WINCHENDON, MA 01475

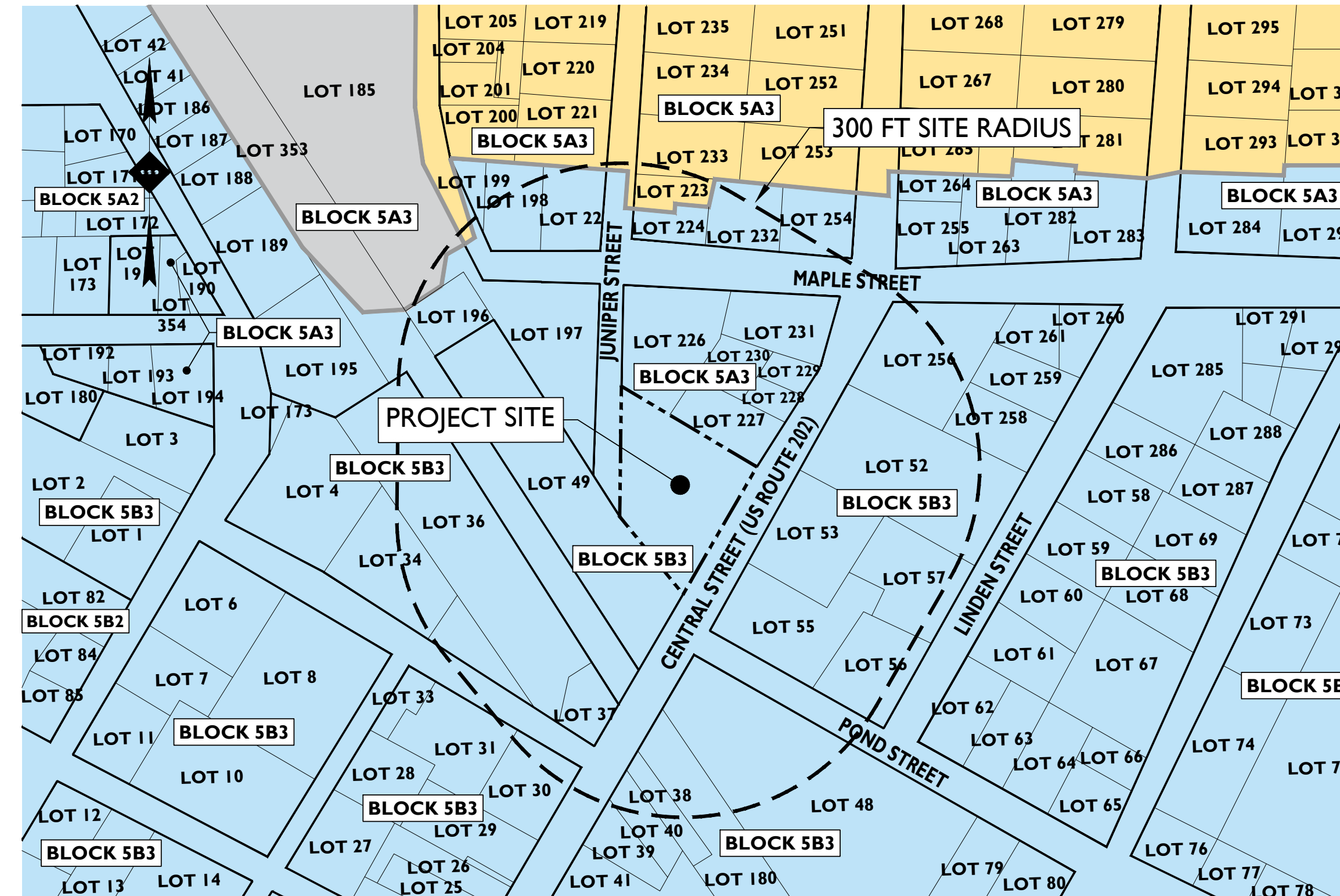
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**AERIAL MAP**  
SCALE: 1" = 150'±



**TAX & ZONING MAP**  
SCALE: 1" = 150'±

PLANS PREPARED BY:



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**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	10/29/2021
EXISTING CONDITIONS PLAN	C-2	10/29/2021
DEMOLITION PLAN	C-3	10/29/2021
SITE PLAN	C-4	10/29/2021
GRADING PLAN	C-5	10/29/2021
UTILITY PLAN	C-6	10/29/2021
LIGHTING PLAN	C-7	10/29/2021
SOIL EROSION & SEDIMENT CONTROL PLAN	C-8	10/29/2021
LANDSCAPING PLAN	C-9 - C-10	10/29/2021
CONSTRUCTION DETAILS	C-11 - C16	10/29/2021

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 DEVELOPMENT PLAN REVIEW COMMITTEE	
DATE	
DATE	
DATE	
DATE	
DATE	

ZONING RELIEF TABLE			
RELIEF TYPE	CODE SECTION	REQUIRED	PROPOSED
VARIANCE	§ 8.3.1 ITE TABLE 14-2 (TABLE 8.3)	MAXIMUM PARKING REQUIREMENT: 6.04 SPACES PER 1,000 SF OF GROSS FLOOR AREA	
	§ 8.3.3	75% OF ITE REQUIREMENT = 75% X 16.5 SPACES = 11 SPACES + 10% = 12 SPACES	17 SPACES

SITE PLAN SET

**FIDC 163 LLC**  
PROPOSED PHARMACY WITH  
DRIVE-THRU

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

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



SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:

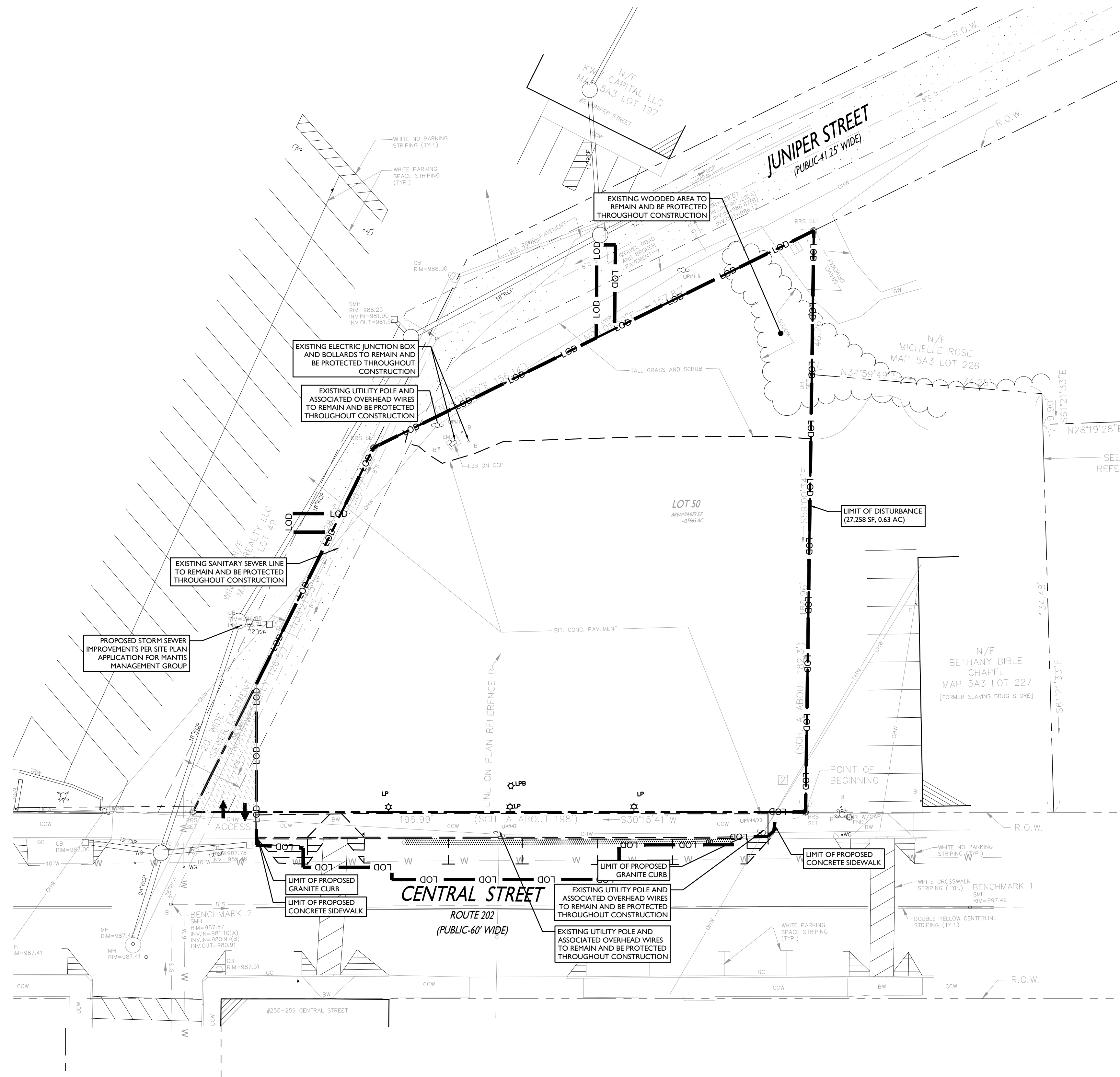
COVER SHEET

DRAWING:

C-1



Z:\B07D16020\B0210031\000A\DEVELOPMENT\20-CENTRAL STREET-WINCHENDON-TRAC\CDM\FIG\163.DWG



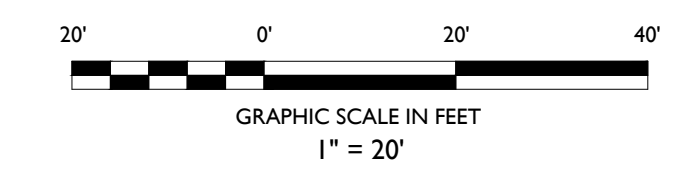
SYMBOL	DESCRIPTION
---	FEATURE TO BE REMOVED / DEMOLISHED
---	LIMIT OF DISTURBANCE

ALL SITE FEATURES WITHIN THE LIMIT OF DISTURBANCE INDICATED ON THIS PLAN ARE TO BE REMOVED / DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS



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- DEMOLITION NOTES**
1. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
  2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES.
  3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES.
  4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
  5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.



DATE	ISSUE	BY	DESCRIPTION
10/27/2021	01	SPM	FOR MUNICIPAL SUBMISSION

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**SITE PLAN SET**

**FIDC 163 LLC**  
**PROPOSED PHARMACY WITH**  
**DRIVE-THRU**

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

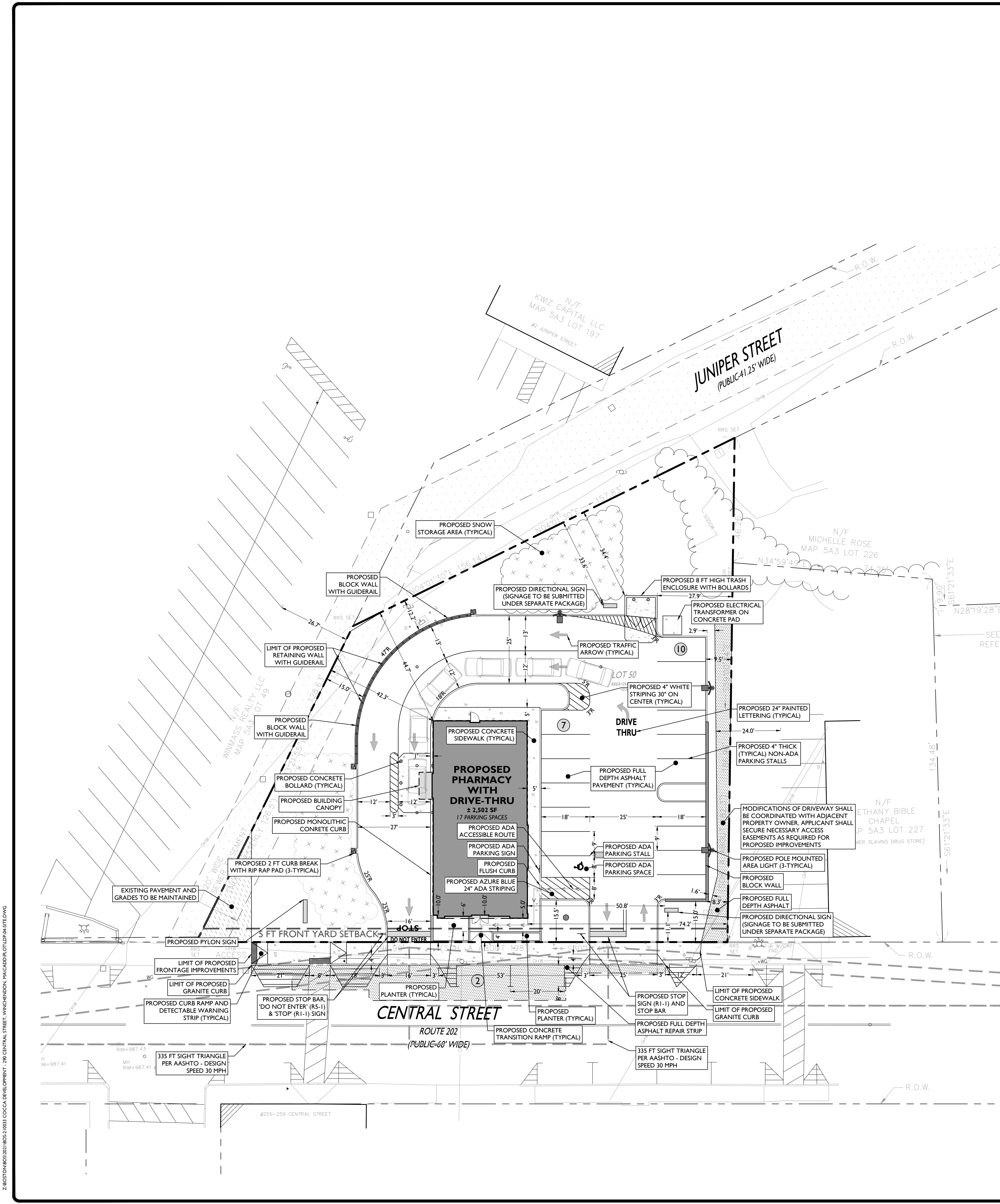
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SCALE: 1" = 20' PROJECT ID: BOS-210033

TITLE:  
**DEMOLITION PLAN**

DRAWING:  
**C-3**



**SYMBOL DESCRIPTION**

- PROPERTY LINE
- SETBACK LINE
- SAWCUT LINE
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED FLUSH CURB
- PROPOSED MONOLITHIC CURB
- PROPOSED GUIDERAIL
- PROPOSED SIGNS / BOLLARDS
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED AREA LIGHT
- PROPOSED RETAINING WALL
- PROPOSED BUILDING DOORS
- PROPOSED FULL DEPTH ASPHALT REPAIR
- EXISTING PAVEMENT TO REMAIN
- PROPOSED SNOW STORAGE AREA

LAND USE AND ZONING			
BLOCK 5B3, LOT 50			
PLANNED DEVELOPMENT DISTRICT (PD)			
<b>PROPOSED USE</b>	SMALL-SCALE RETAIL WITH DRIVE-THROUGH WINDOW		
<b>ZONING REQUIREMENT</b>	<b>REQUIRED</b>	<b>EXISTING</b>	<b>PROPOSED</b>
MINIMUM LOT AREA	5,000 SF (0.11 ACRES)	24,679 SF (0.56 ACRES)	24,679 SF (0.56 ACRES)
MINIMUM LOT FRONTAGE	75 FT	196.99 FT	196.99 FT
MINIMUM FRONT YARD SETBACK	5 FT	N/A	10.0 FT
MINIMUM SIDE YARD SETBACK	0 FT	N/A	42.3 FT
MINIMUM REAR YARD SETBACK	0 FT	N/A	44.7 FT
MAXIMUM BUILDING HEIGHT	3 STORIES / 45 FT	N/A	1 STORY / TBD
MAXIMUM IMPERVIOUS COVERAGE	70% (17,275 SF)	81.3% (20,067 SF)	60.9% (15,071 SF)

OFF-STREET PARKING REQUIREMENTS		
CODE SECTION	REQUIRED	PROPOSED
§ 8.3.1 ITE TABLE 14-2 (TABLE 8.3)	REQUIRED MAXIMUM PARKING: <sup>a</sup> 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 = 12 SPACES + 10% = 13.2 SPACES	17 SPACES (V)
§ 8.2.3	ON STREET PARKING REQUIREMENT: 22 FT OF AVAILABLE STREET FRONTAGE WILL COUNT AS ONE SPACE 53 FT OF FRONTAGE X (1 SPACE / 22 FT) = 2 SPACES	2 SPACES
§ 8.4.1	MINIMUM PARKING REQUIREMENTS: PARKING MUST ACCOMMODATE, AS A MINIMUM, THE NUMBER OF EMPLOYEES ON A GIVEN SHIFT PLUS TWO EXTRA SPACES	COMPLIES
§ 8.7.1	OFF-STREET PARKING SHALL MEET THE ITE STANDARDS FOR SIZES AND LAYOUT OF PARKING SPACES.	COMPLIES
§ 8.7.1	BYPASS LANE REQUIREMENT: ANY ESTABLISHMENT INSTALLING A DRIVE-THROUGH WINDOW MUST HAVE AN ESCAPE LANE AND PROVIDE ADEQUATE STACKING OF VEHICLES	COMPLIES
§ 8.7.3	MINIMUM DRIVE-THROUGH AND ESCAPE LANE WIDTH: 10 FT LANES STRAIGHT SECTIONS 12 FT LANES CURVED SECTIONS	12 FT 12 FT
§ 8.7 TABLE 8.7	MINIMUM NUMBER OF STACKING SPACES: 5 STACKING SPACES PER WINDOW 1 ESCAPE LANE PER WINDOW	5 SPACES 1 LANE
§ 8.8.1.B	MINIMUM DRIVEWAY WIDTH: 12 FT MINIMUM INTERNAL CURVE RADIUS: 32 FT	16 FT COMPLIES
§ 8.8.1.C	ALL DRIVEWAYS SHALL HAVE AN APRON FROM THE PAVEMENT TO THE PROPERTY LINE APRON SHALL BE COMPOSED OF TYPE I BITUMINOUS CONCRETE OVER 2 INCHES OF PROCESS GRAVEL OVER 10 INCHES OF 4 INCH OR SMALLER GRAVEL	COMPLIES

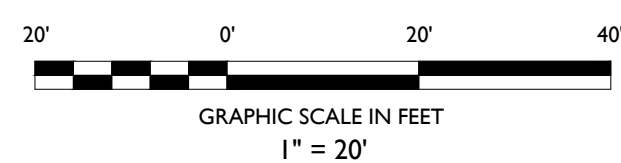
PLANNED DEVELOPMENT DISTRICT REQUIREMENTS		
CODE SECTION	REQUIRED	PROPOSED
§ 4.7.2.G	PARKING LOCATION: THE PARKING SHOULD BE LOCATED TO THE SIDE OR REAR OF THE MAIN BUILDING	COMPLIES
§ 4.7.2.H	SIDEWALK FRONTAGE REQUIREMENT: NEWLY DEVELOPED OR REDEVELOPED SITES SHALL HAVE CONCRETE SIDEWALKS AND STREET TREES ALONG THE ENTIRE LOT FRONTAGE	COMPLIES
§ 4.7.2.K	MAXIMUM GROSS FLOOR AREA RATIO: 4:1 (98,716 SF)	0.1:1 (2,502 SF)

**TOWN OF WINCHENDON NOTES**

- ANY MINOR MODIFICATIONS TO THE INFORMATION SHOWN ON THE APPROVED SITE PLANS SHALL BE SUBMITTED TO THE BUILDING INSPECTOR AS A MINOR PLAN REVISION FOR APPROVAL PRIOR TO THE WORK BEING PERFORMED.
- ALL HANDICAP PARKING, RAMPS, AND ACCESS SHALL CONFORM TO AASHTO REQUIREMENTS.
- CONTRACTOR SHALL NOT USE FULL CONTAINING HAZARDOUS MATERIALS.
- CONTRACTOR SHALL MARK THE LIMITS OF WORK IN THE FIELD BEFORE THE START OF CONSTRUCTION OR SITE CLEARING.
- CONTRACTOR SHALL CLEAN ALL CATCH BASINS, SUMPS AND STORM WATER BASINS FOLLOWING CONSTRUCTION. PROPERLY OWNER SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE THEREAFTER.
- HAULING OF EARTH MATERIALS TO OR FROM THE SITE SHALL BE RESTRICTED TO THE HOURS BETWEEN 9 AM AND 4 PM ON WEEKDAYS UNLESS OTHERWISE APPROVED BY THE TOWN OF WINCHENDON.

**GENERAL NOTES**

- THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
- THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
- THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
- THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC, BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.



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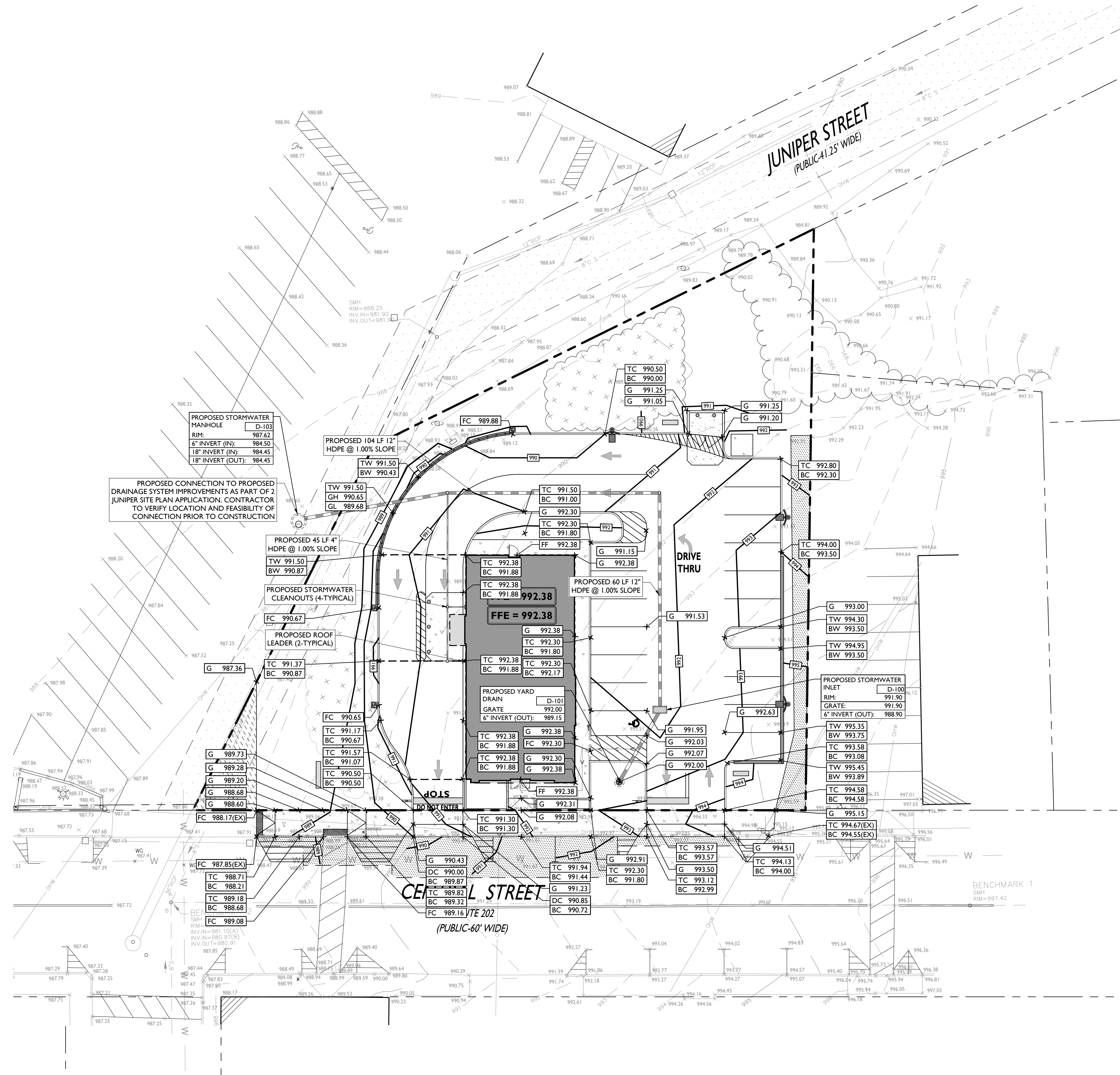
SCALE: 1" = 20' PROJECT ID: BOS-210033

TITLE: **SITE PLAN**

DRAWING: **C-4**

2:48:07 PM 10/27/2021 10:01:00 AM COCCA DEVELOPMENT - 290 CENTRAL STREET, WINCHENDON, MA 02108 PLOT 004-RTT.DWG

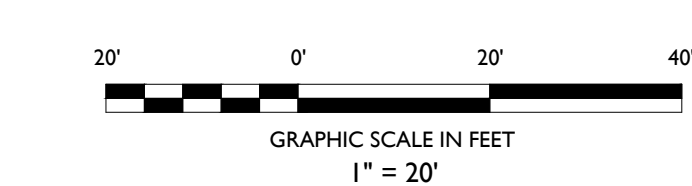
2:481070100201002010031 COCCA DEVELOPMENT - 20 CENTRAL STREET - WINCHENDON, MA - 01093 - GRADING



SYMBOL	DESCRIPTION
---	PROPERTY LINE
—100—	PROPOSED GRADING CONTOUR
—RIDGELINE—	PROPOSED GRADING RIDGELINE
←	PROPOSED DIRECTION OF DRAINAGE FLOW
X G 100.00	PROPOSED GRADE SPOT SHOT
X TC 100.50 BC 100.00	PROPOSED TOP OF CURB / BOTTOM OF CURB SPOT SHOT
X FC 100.00	PROPOSED FLUSH CURB SPOT SHOT
X DC 100.12 BC 100.00	PROPOSED DEPRESSED CURB / BOTTOM OF CURB SPOT SHOT
X TW 102.00 BW 100.00	PROPOSED TOP OF WALL / BOTTOM OF WALL SPOT SHOT

- GRADING NOTES**
- ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.
  - THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.
  - PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS.
  - MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:
    - CURB GUTTER: 0.50%
    - CONCRETE SURFACES: 1.00%
    - ASPHALT SURFACES: 1.00%
  - A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IF THIS CONDITION CANNOT BE MET.
  - FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

- ADA NOTES**
- THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.
  - THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES.
  - THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
  - THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP. AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM, AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL, THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
  - THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00%. IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP, FOR ALTERATIONS, A CURB RAMP FLARE SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.
  - ACCESSIBLE RAMPS WITH A RISE GREATER THAN 1/4 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP.
  - A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS.
  - THE CONTRACTOR SHALL ENSURE A MAXIMUM OF 1/4 INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN 1/4 INCHES AND 1/2 INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN 1 UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).
  - THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN 1/4 INCH.



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**SITE PLAN SET**

**FIDC I63 LLC**  
PROPOSED PHARMACY WITH  
DRIVE-THRU

BLOCK 5B3, LOT 50  
290 CENTRAL STREET (U.S. ROUTE 102)  
TOWN OF WINCHENDON,  
WORCESTER COUNTY, MASSACHUSETTS

JOSHUA H. KLINE, P.E.  
MASSACHUSETTS LICENSE No. 53996  
LICENSED PROFESSIONAL ENGINEER

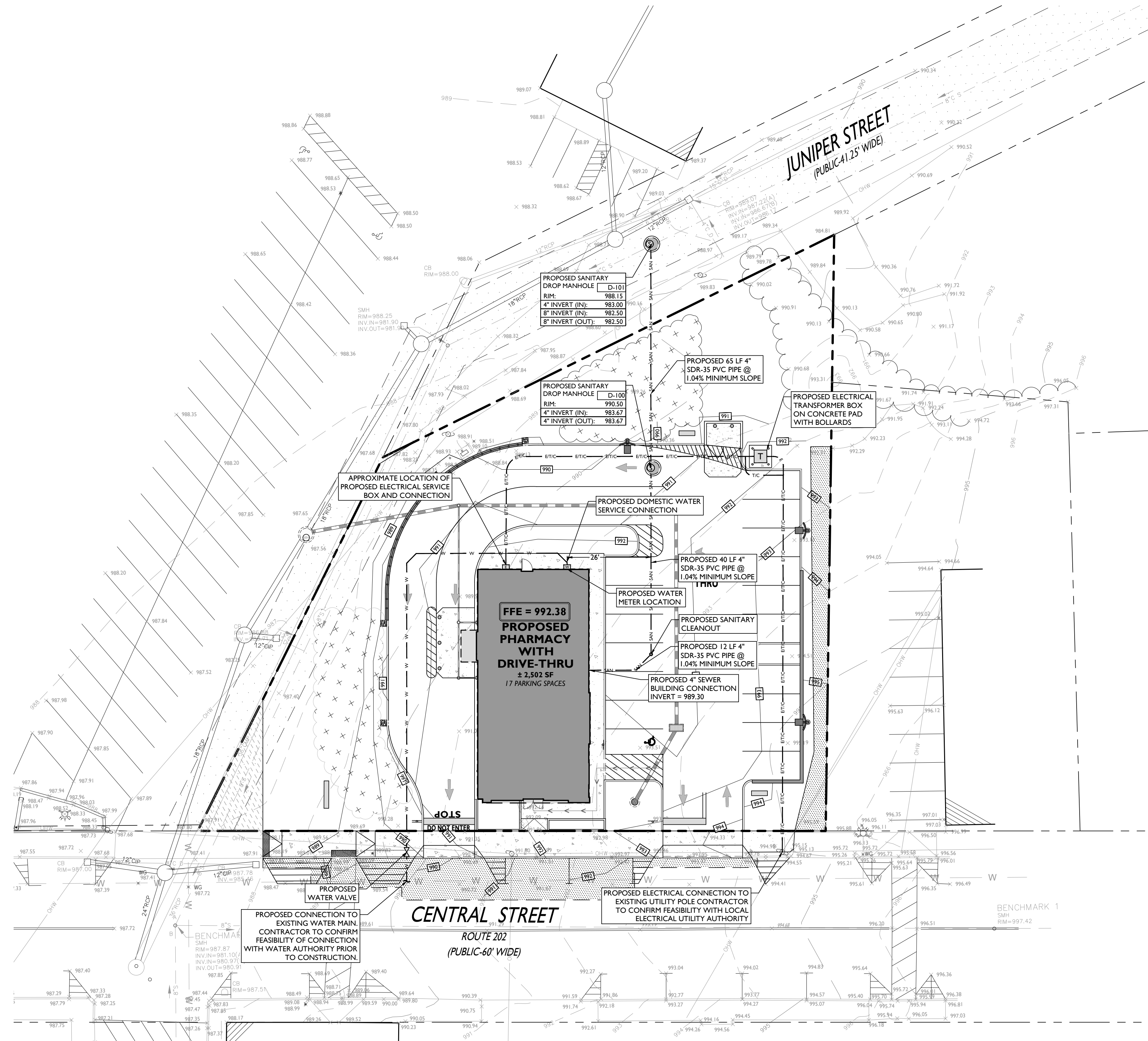
**STONEFIELD**  
engineering & design

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

TITLE:  
**GRADING & DRAINAGE PLAN**

DRAWING:  
**C-5**

2:10/07/2023 10:02:10031 COCCA DEVELOPMENT - 20 CENTRAL STREET - WINCHENDON, MA - CIVIL - UTILITY PLAN



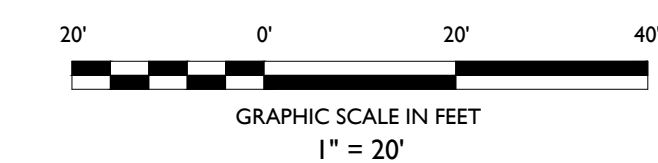
SYMBOL	DESCRIPTION
---	PROPERTY LINE
— SAN —	PROPOSED SANITARY LATERAL
— W —	PROPOSED DOMESTIC WATER SERVICE
— E/T/C —	PROPOSED ELECTRICAL/DATA CONDUITS
— T/C —	PROPOSED DATA CONDUITS
— E —	PROPOSED ELECTRIC CONDUITS
— G —	PROPOSED GAS LINE
⊗	PROPOSED VALVE
⊕	PROPOSED FIRE DIRECT CONNECTION (FDC)
⊙	PROPOSED 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 DEPICTED WITHIN THIS PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.



NO.	DATE	ISSUE	BY	DESCRIPTION
01	10/27/2023	SPM		FOR MUNICIPAL SUBMISSION

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Phone 617.203.2076

**SITE PLAN SET**

**FIDC I63 LLC**

**PROPOSED PHARMACY WITH DRIVE-THRU**

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

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

**STONEFIELD**  
engineering & design

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

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
§ 85.5	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

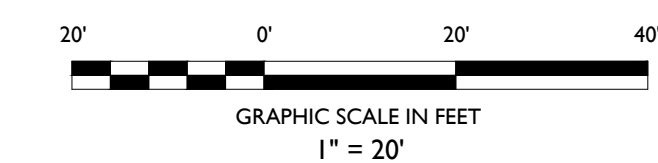
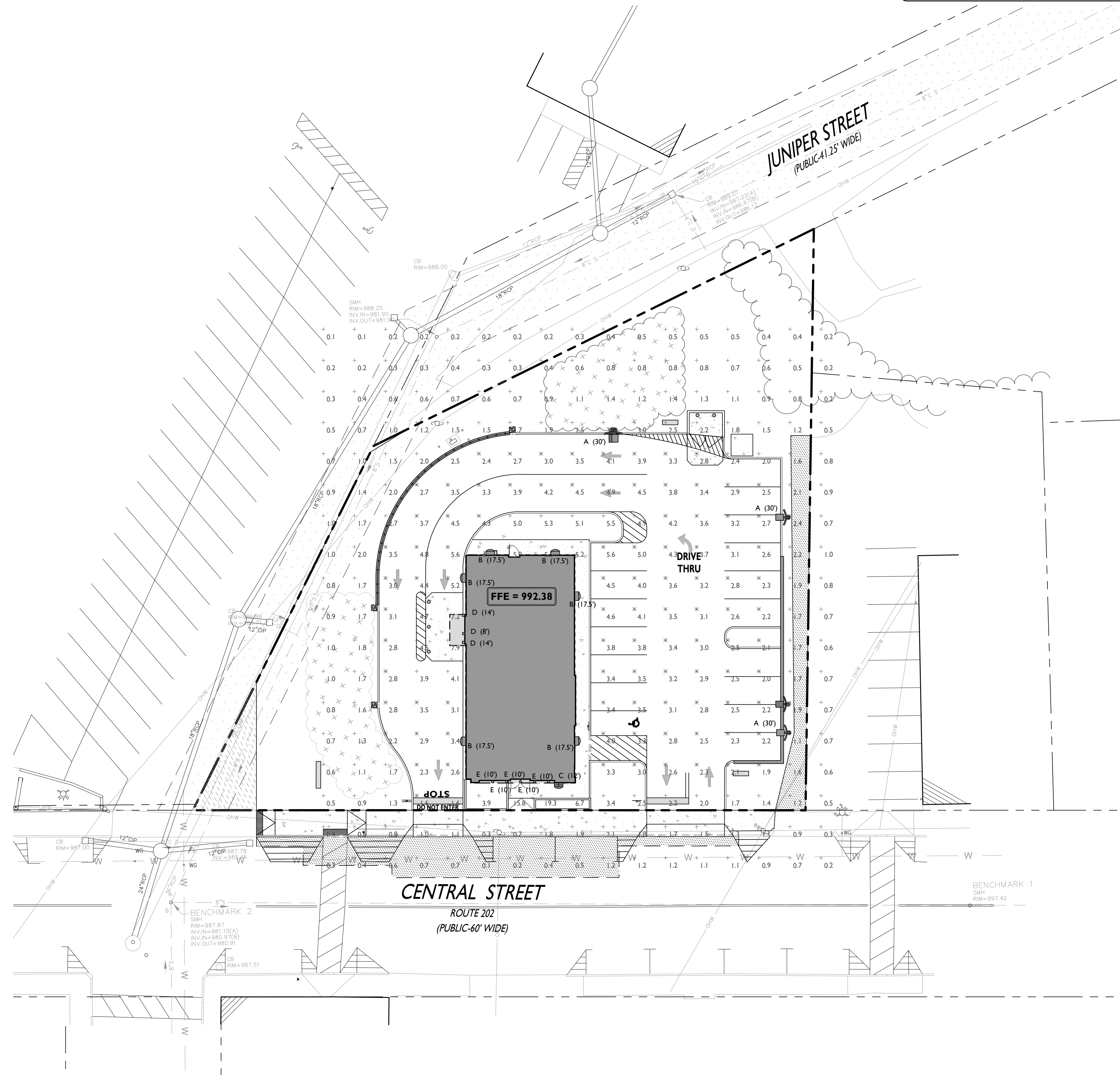
SYMBOL	DESCRIPTION
	PROPOSED CALCULATION AREA
<b>A (XX)</b>	PROPOSED LIGHTING FIXTURE (MOUNTING HEIGHT)
<b>+XX</b>	PROPOSED LIGHTING INTENSITY (FOOTCANDLES)
	PROPOSED AREA LIGHT
	PROPOSED BUILDING MOUNTED LIGHT
	PROPOSED CANOPY LIGHT

**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.



DATE	ISSUE	BY	DESCRIPTION
10/27/2021	01		FOR MUNICIPAL SUBMISSION

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**FIDC I63 LLC**  
PROPOSED PHARMACY WITH  
DRIVE-THRU

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TOWN OF WINCHENDON  
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MASSACHUSETTS LICENSE No. 53936  
LICENSED PROFESSIONAL ENGINEER

**STONEFIELD**  
engineering & design

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

TITLE:  
**LIGHTING PLAN**

DRAWING:  
**C-7**

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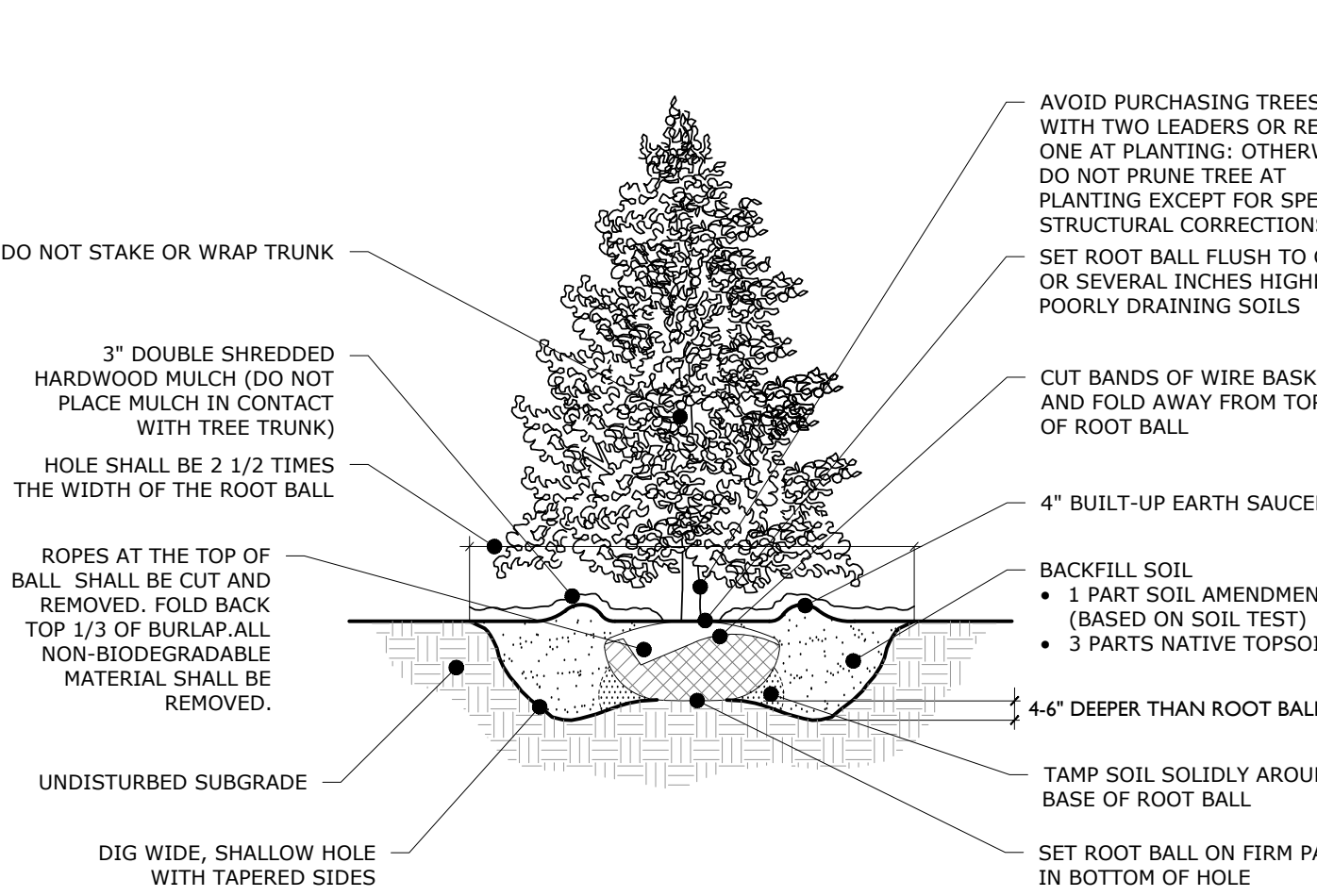






**NOTES:**

- FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- SOIL AMENDMENTS:
  - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

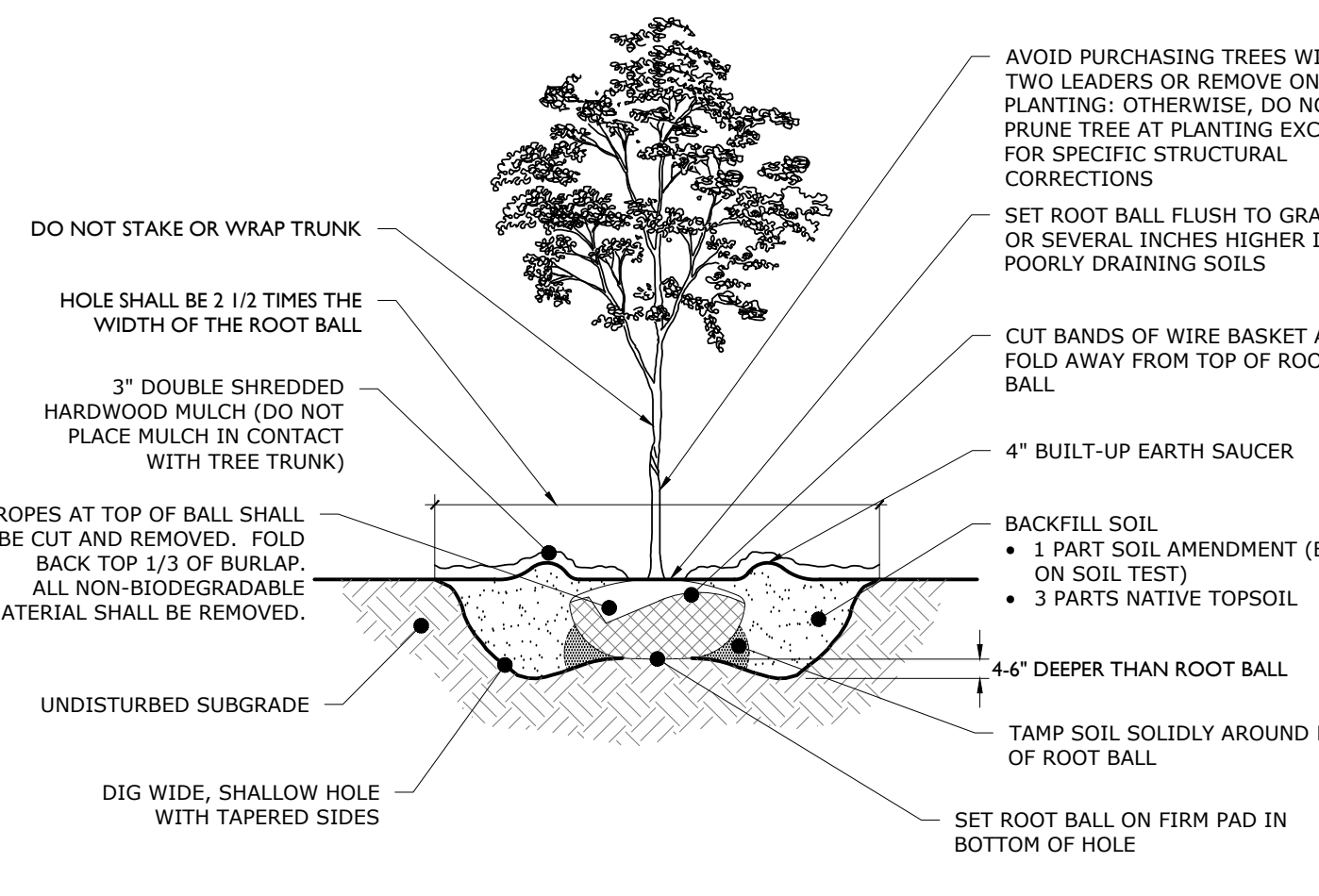


**EVERGREEN TREE PLANTING DETAIL**

NOT TO SCALE

**NOTES:**

- FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- SOIL AMENDMENTS:
  - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

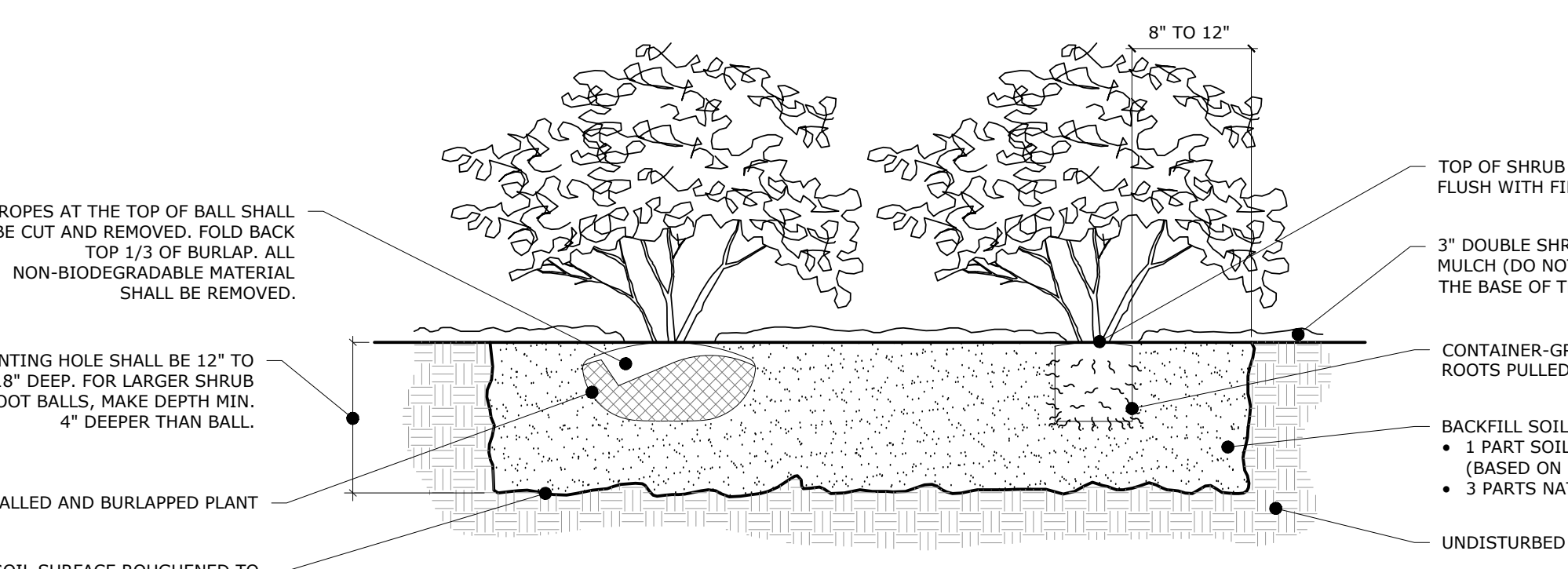


**DECIDUOUS TREE PLANTING DETAIL**

NOT TO SCALE

**NOTES:**

- FOR THE CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- THOROUGHLY SOAK THE SHRUB ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
  - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

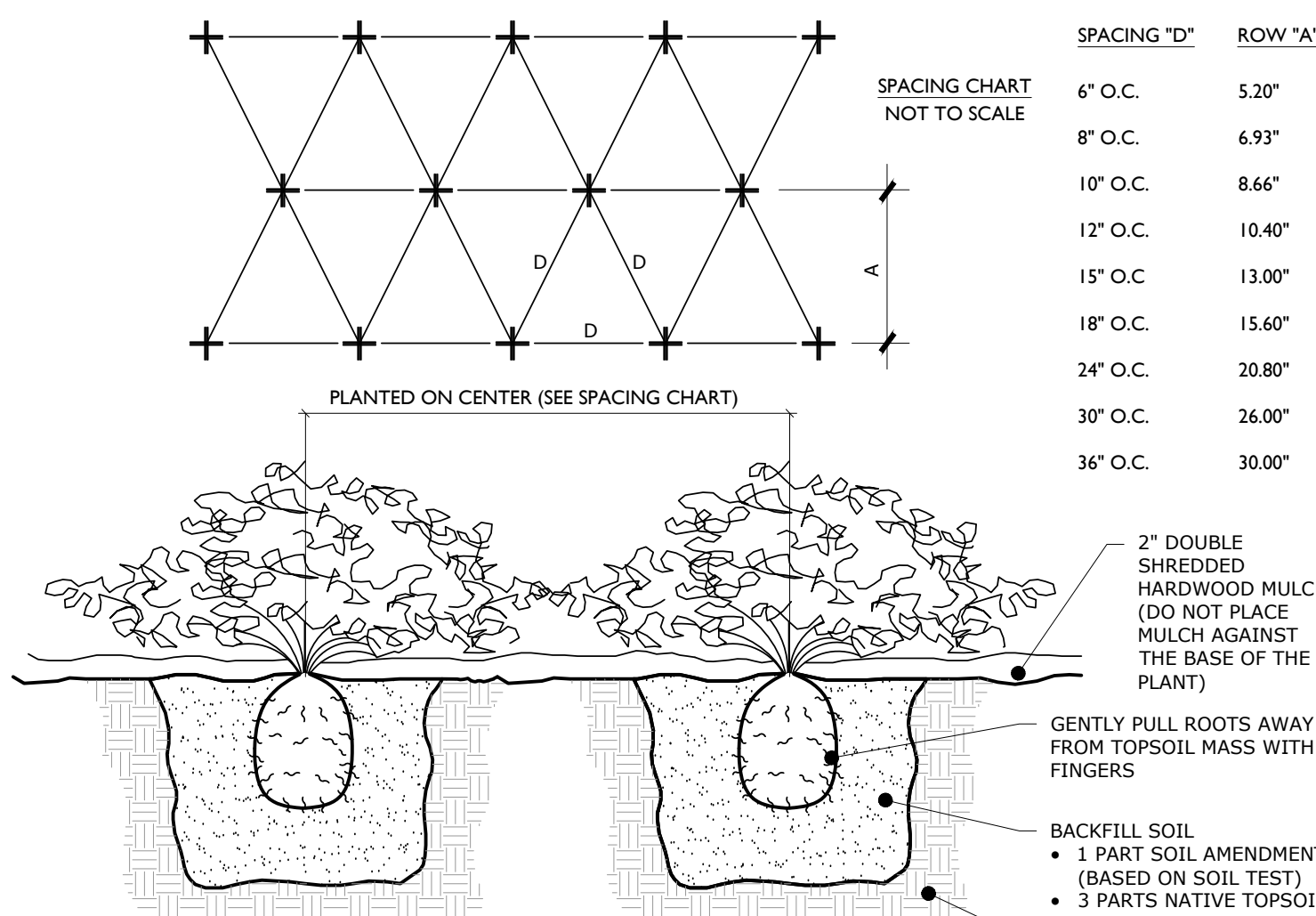


**DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL**

NOT TO SCALE

**NOTES:**

- THOROUGHLY SOAK THE GROUND COVER ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- SOIL AMENDMENTS:
  - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT PER MANUFACTURER'S SPECIFICATIONS.



**GROUND COVER/PERENNIAL/ANNUAL PLANTING DETAIL**

NOT TO SCALE

**GENERAL LANDSCAPING NOTES:**

- THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE SUBJECT TO THE INSPECTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY.
- WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL, IF SO REQUESTED.
- IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS, AND SEED VERIFYING TYPE AND PURITY.
- UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL.
- THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

**PROTECTION OF EXISTING VEGETATION NOTES:**

- BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE Drip-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FILL" NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN, PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT.
- IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE Drip-LINE OF TREES TO REMAIN, THE WORK SHALL BE PERFORMED AS FOLLOWS:
  - TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE.
  - RAISING GRADES: WHEN THE GRADE AT AN EXISTING TIE IS BELOW THE NEW FINISHED GRADE, AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (1" - 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") ABOVE FINISH GRADE AT THE TRUNK AND ENLARGE PLANTING HOLES OR DILETS AT THE TRUNK. GRAVEL BEFORE ANY EARTH FILL IS PLACED. NEW EARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL."
  - LOWERING GRADES: EXISTING TRENCHES OR GRADING IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION, NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST. WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE, THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

**SOIL PREPARATION AND MULCH NOTES:**

- LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS.
- BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS:
  - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL, GREATER THAN ONE INCH (1").
- TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT.
- OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE.
- CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
- UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE GRADING WITHIN THE FINISHED GRADE ELEVATION (LESS THE REQUIRED TOPSOIL), IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN.
- ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE WATER.
- DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR, GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF.
- WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING.
- SOIL SHALL BE LOOSENED WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE.
- APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL.
- ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING:
  - MYCORR TREE SAVER - A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA, TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING, AND SELECTED ORGANIC MICROBIAL NUTRIENTS.
    - DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.
    - MYCORR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE.
    - SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.
    - FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.
    - OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.

- HEALTHY START MACRO TABS 12-8-8**
- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS.
  - TABLETS ARE FORMULATED FOR SLOW BIODEGRADATION AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT 1 TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

**PLANT QUALITY AND HANDLING NOTES:**

- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z601-2004) OR LATEST REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER COMMON NAMES.
- ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND, HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE.
- PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (1-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE REJECTED.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE.
- THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.
- ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO ENCOMPASS THE FIBROUS ROOT FEEDING SYSTEMS NECESSARY FOR THE HEALTHY DEVELOPMENT OF THE PLANT. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEEL-ED IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
- PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE PLANTS. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS. EVIDENCE OF INADEQUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT, OR IMPROPER HANDLING OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE.
- ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING SPECIFICATIONS.

- LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN POSSIBLE. THE ROOT BALL SHALL BE KEPT MOIST AT ALL TIME AND COVERED WITH MOISTENED MULCH OR AGED BURLAP. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS SHALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING, AND LEAF LOSS. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE.
- NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL.
- PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED.
- IF ROCKS OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO REMOVE OR ENLARGE PLANTING HOLES OR DILETS FROM THE CONTRACT.
- IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2') ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR AGENCY.
- INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS:
  - PLANTS (MARCH 15 - DECEMBER 15)
  - LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1)
- THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPORT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15):
  - ABIES CONCOLOR
  - ACER BUEGERIANUM
  - ACER FRAXINIFOLIUM
  - ACER RUBRUM
  - ACER SACCHARINUM
  - BETULA VARIETIES
  - CARPINUS VARIETIES
  - CEDRUS DEODARA
  - CELTIS VARIETIES
  - CERIDIPHYLLUM VARIETIES
  - CORNUS VARIETIES
  - CORNUS VARIETIES
  - CORNYLUS VARIETIES
  - CRATAEGUS VARIETIES
  - CORNUS VARIETIES
  - CRATAEGUS VARIETIES
  - NYSSA SYLVATICA
  - OSTRYA VIRGINIANA
  - PINUS NIGRA
  - QUERCUS VARIETIES
  - POPULUS VARIETIES
  - PRUNUS VARIETIES
  - PYRUS VARIETIES
  - QUERCUS VARIETIES (NOT Q. PALUSTRIS)
  - SALIX WEEPING VARIETIES
  - SORBUS VARIETIES
  - TAXODIUM VARIETIES
  - TAXUS & REPANDENS
  - TILIA TOMENTOSA VARIETIES
  - ULMUS PARVIFOLIA VARIETIES
  - ZELKOVA VARIETIES
- IF A PROPOSED PLANT IS UNAVAILABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION.
- DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.
- THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY.
- A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED.
- MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYNS IF ORIGINALLY REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
- MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE UNDERLYING TURF. MOW GRASS AREAS IN SUCH A MANNER AS TO PREVENT CLIPPINGS FROM BLOWING ON PAVED AREAS, AND SIDEWALKS. CLEANING AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS.
- GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND MULCHING.
- SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE CONTRACT SHALL BE ESTABLISHED.
- LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT THE REQUIRED 90-DAY MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OF A WATERING TRUCK OR OTHER ACCEPTABLE MEANS.
- THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL.
- IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND ESTABLISHMENT.

**PLANT MATERIAL GUARANTEE NOTES:**

- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (1 YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE.
- THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE. THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS.
- ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART: VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTALMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

- LAWN (SEED OR SOD) NOTES:**
- SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS.
  - SEED OR SOD SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND WITH THE PERCENTAGE OF SEEDS PROVIDED "SEED SPECIFICATION" OR "SOD SPECIFICATION".
  - REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEED OR LAID WITH SOD.
  - SEEDING SHALL NOT BE PERFORMED IN WINDY WEATHER. IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION".
  - PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS, EROSION, WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.

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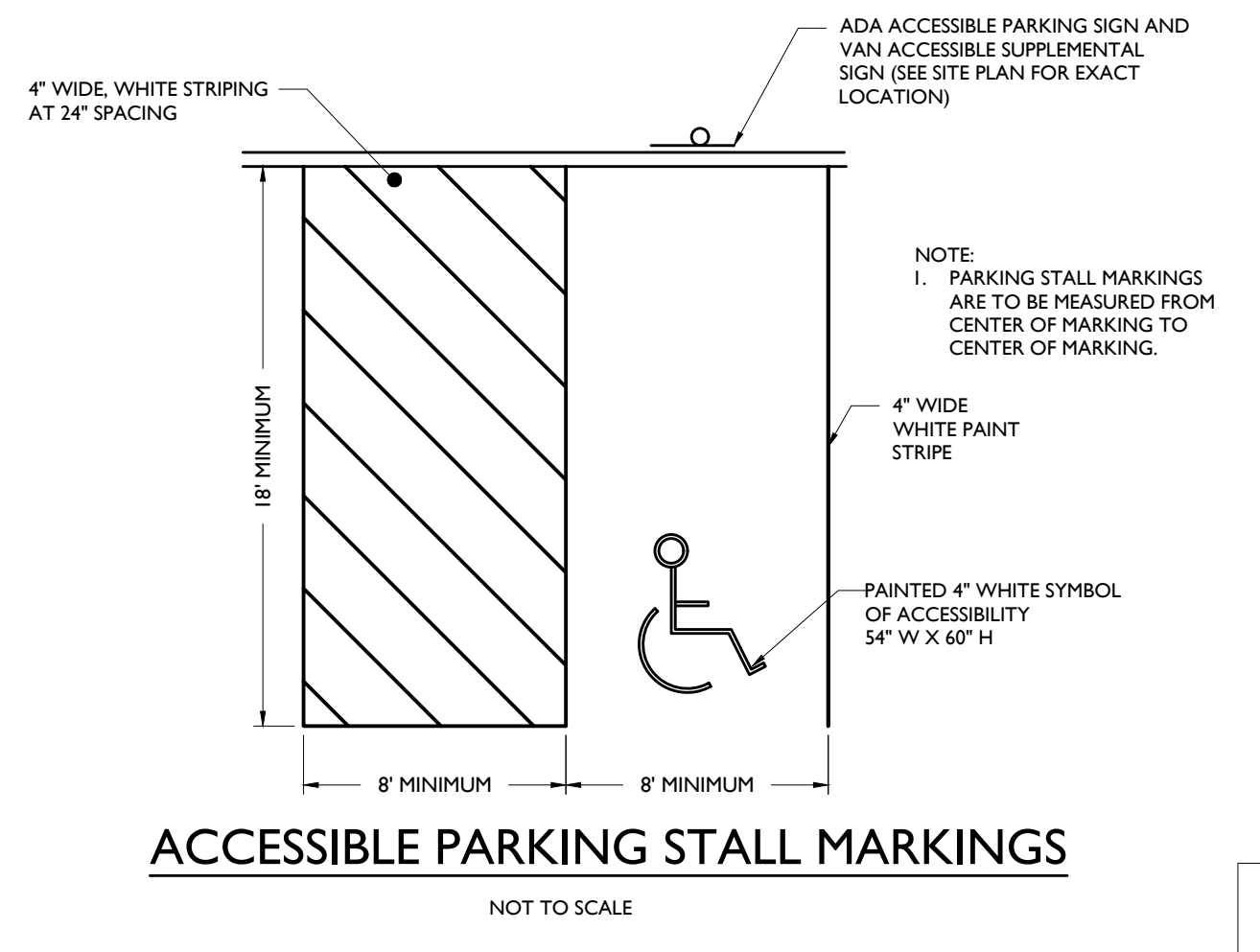
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TITLE:  
**LANDSCAPING DETAILS**

DRAWING:  
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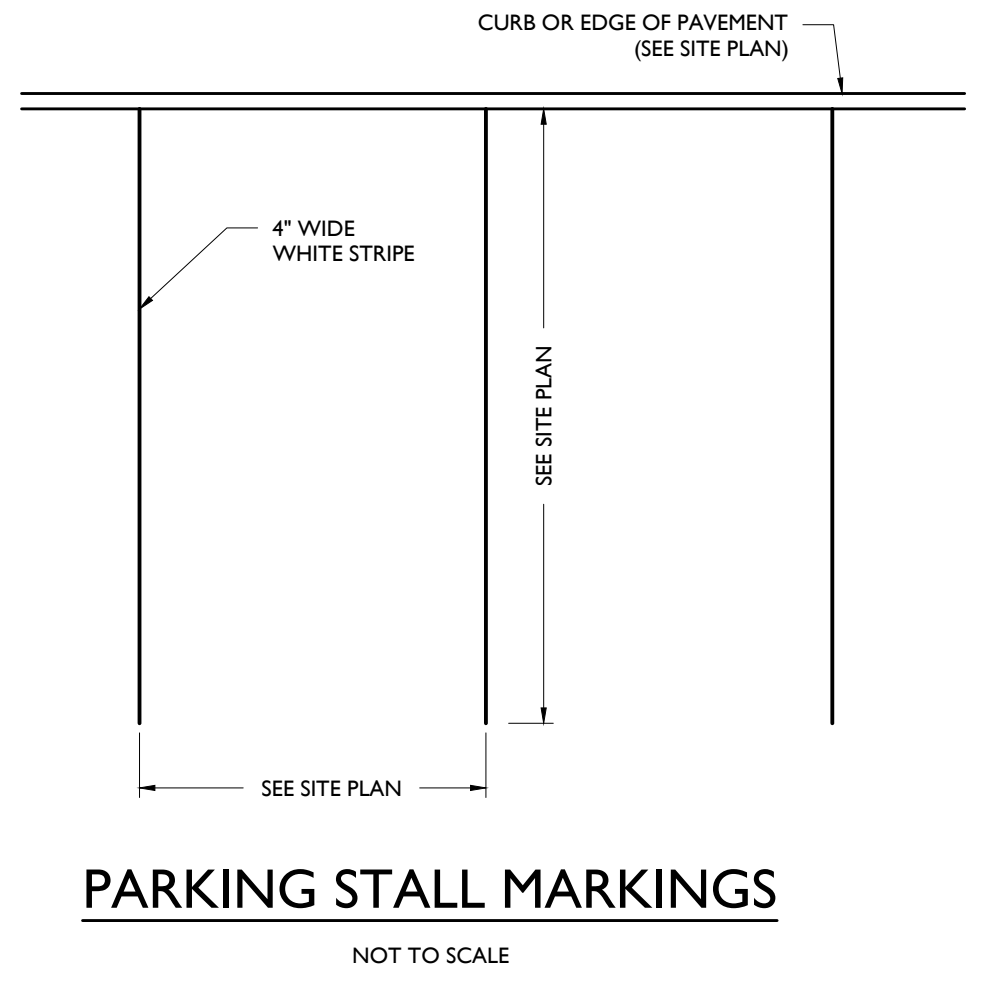
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**ACCESSIBLE PARKING STALL MARKINGS**

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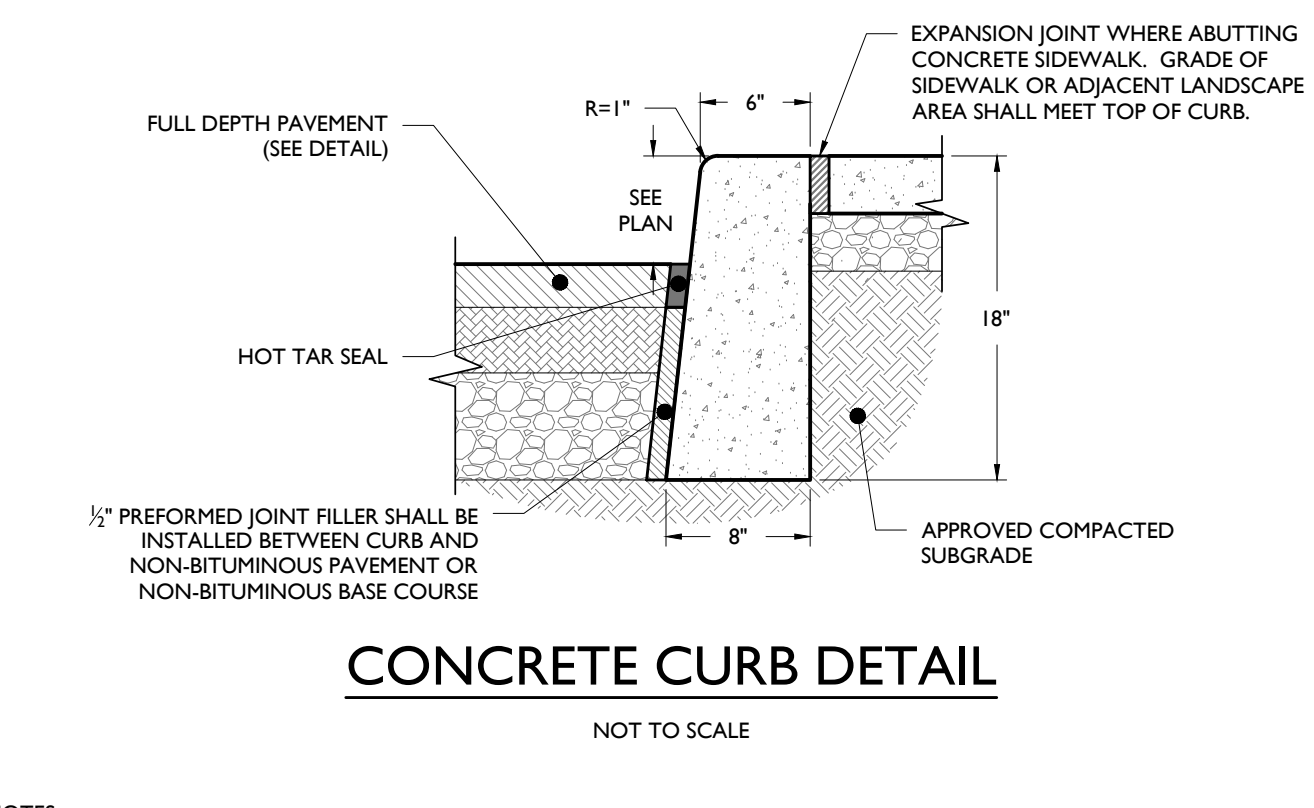
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**PARKING STALL MARKINGS**

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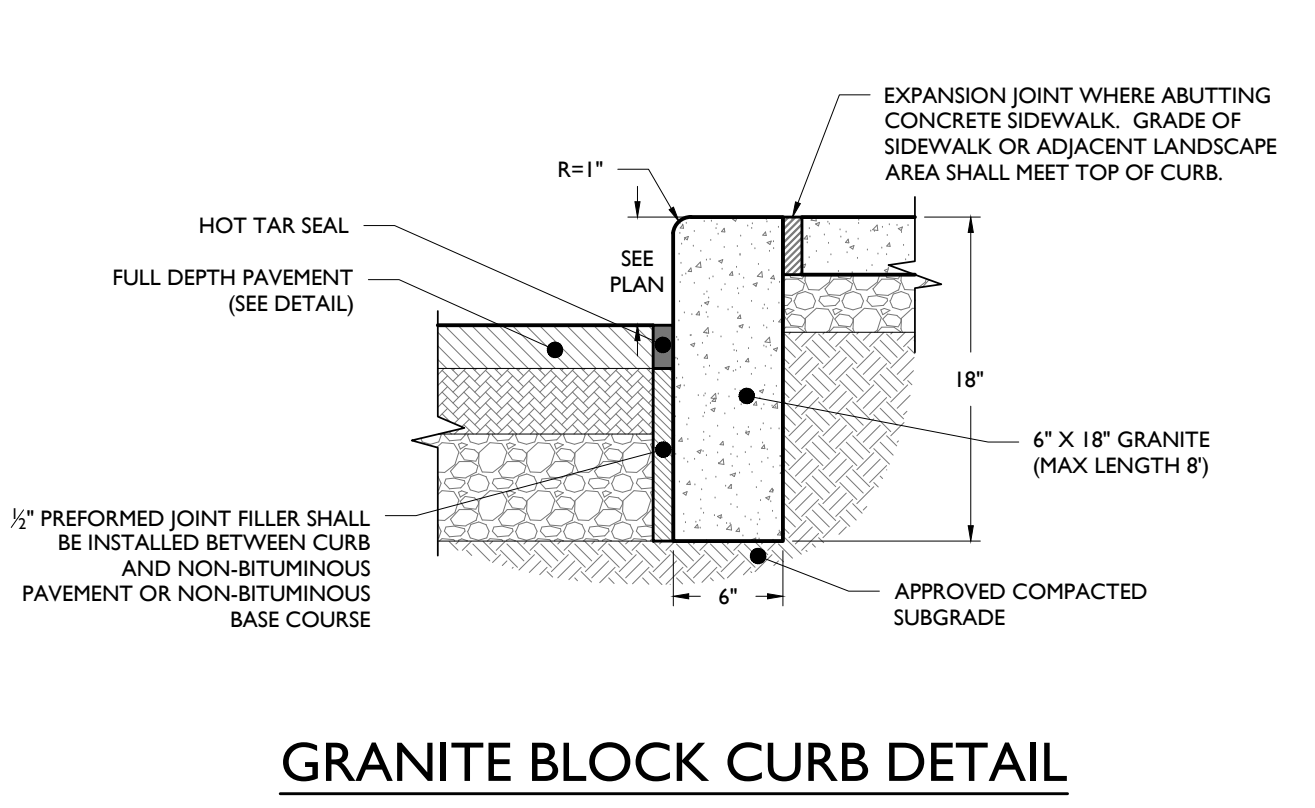
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**CONCRETE CURB DETAIL**

NOT TO SCALE

5



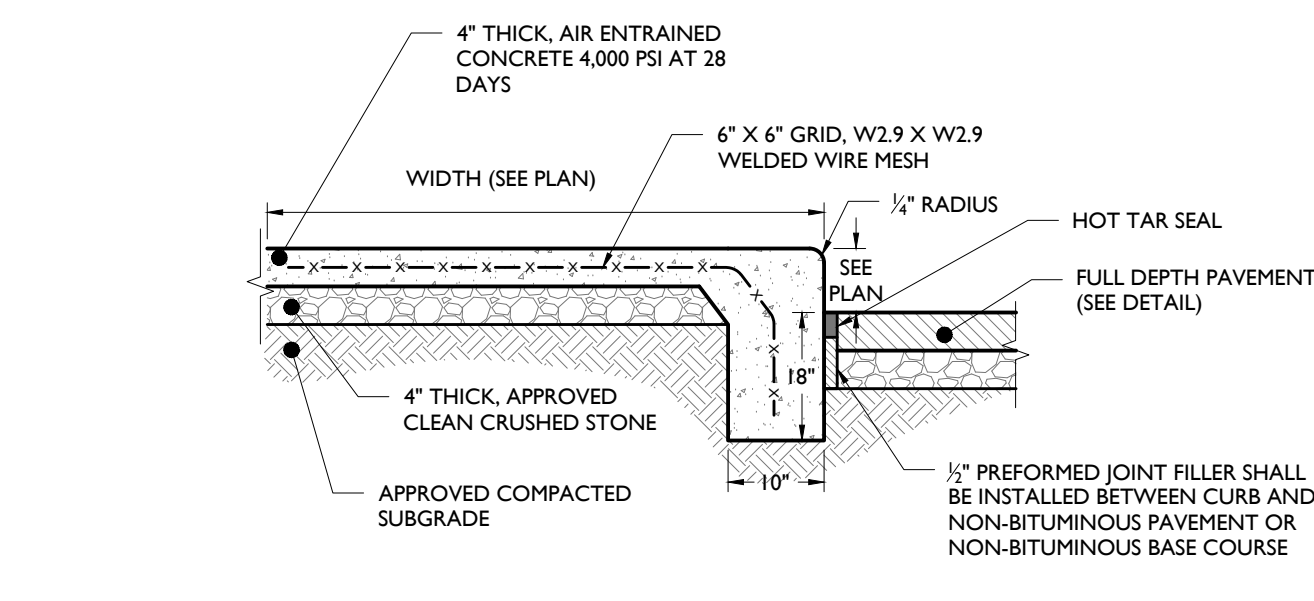
**GRANITE BLOCK CURB DETAIL**

NOT TO SCALE

6

NOTES:  
1. CONCRETE SHALL BE 3500 PSI AT 28 DAYS, AIR-ENTRAINED.  
2. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/2\"/>

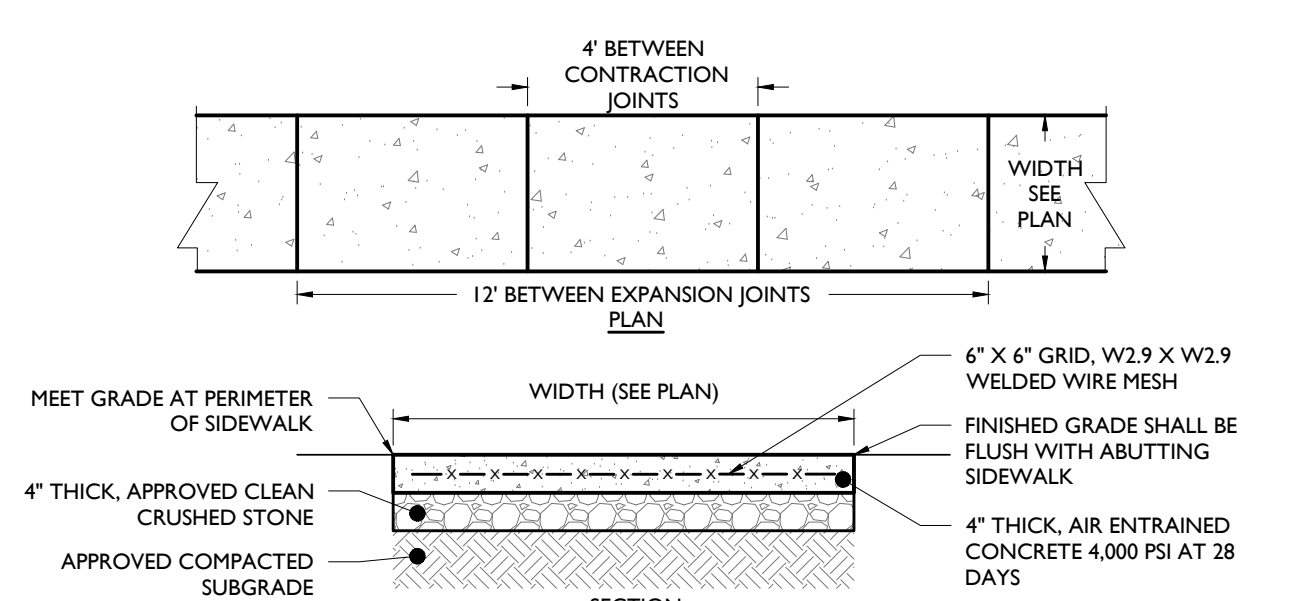
NOTES:  
1. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED BETWEEN EACH BLOCK WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/2\"/>



**MONOLITHIC CONCRETE CURB DETAIL**

NOT TO SCALE

9



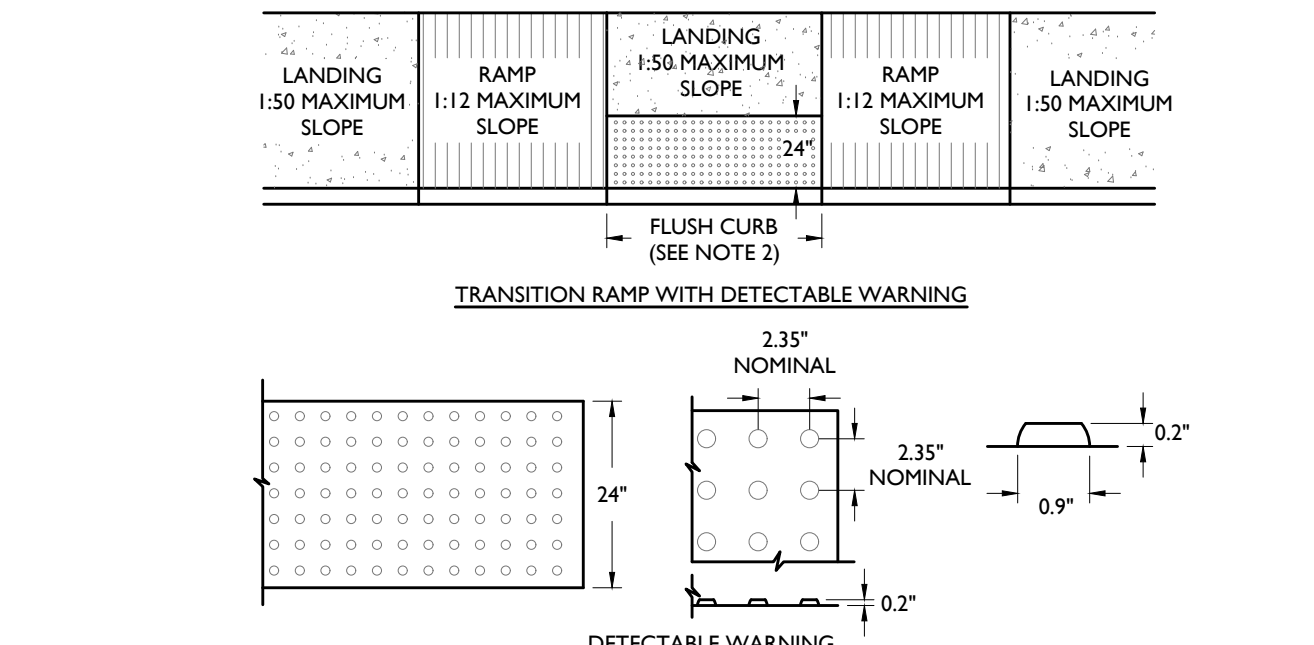
**REINFORCED CONCRETE WALKWAY DETAIL**

NOT TO SCALE

10

NOTES:  
1. MAXIMUM CROSS SLOPE SHALL BE 1/2\"/>

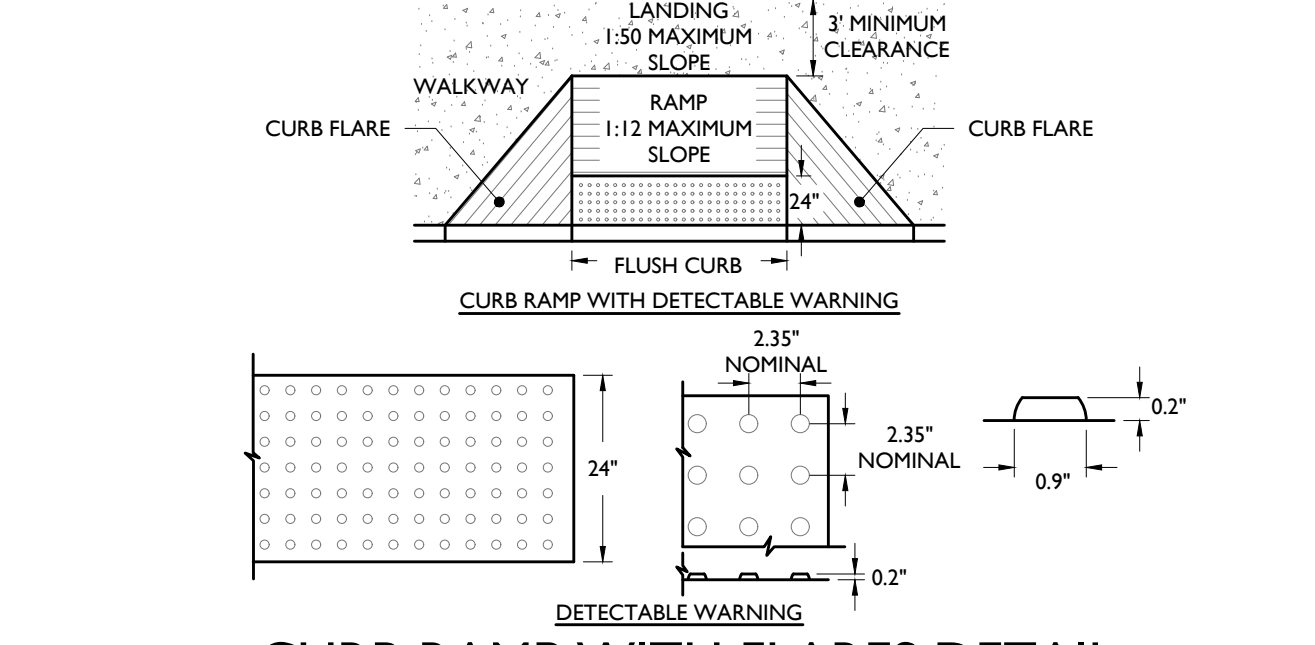
NOTES:  
1. MAXIMUM CROSS SLOPE SHALL BE 1/2\"/>



**TRANSITION RAMP DETAIL**

NOT TO SCALE

13



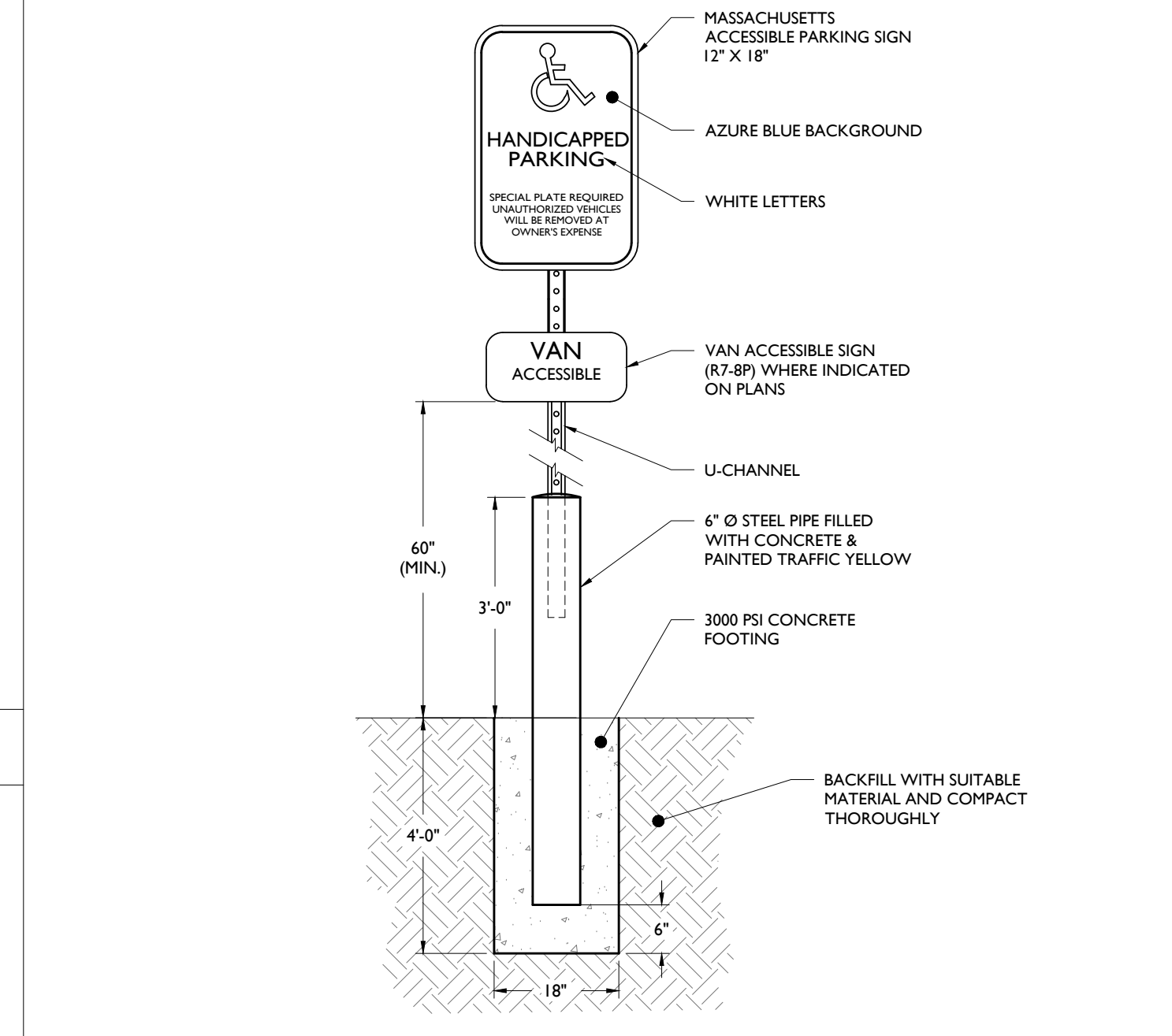
**CURB RAMP WITH FLARES DETAIL**

NOT TO SCALE

14

NOTES:  
1. CROSS SLOPE ON RAMP SHALL NOT EXCEED 2%.  
2. A FLUSH CURB SHALL HAVE A MINIMUM WIDTH OF 36\"/>

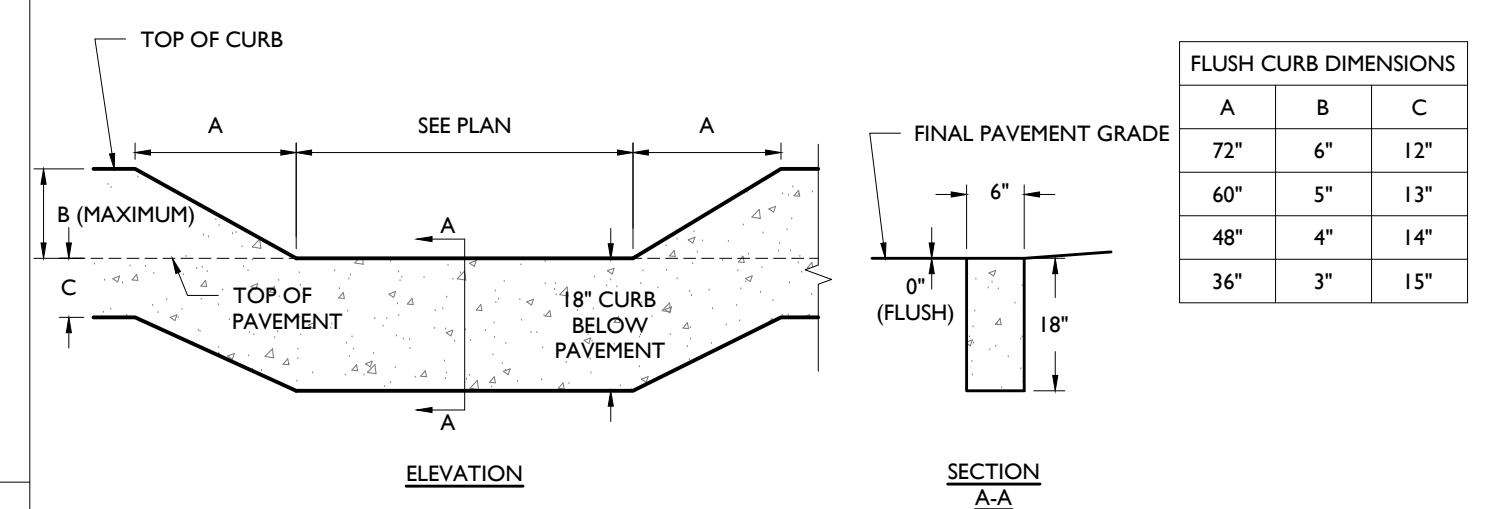
NOTES:  
1. CROSS SLOPE ON RAMP SHALL NOT EXCEED 1:50 SLOPE.  
2. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.



**ACCESSIBLE PARKING SIGN WITH BOLLARD DETAIL**

NOT TO SCALE

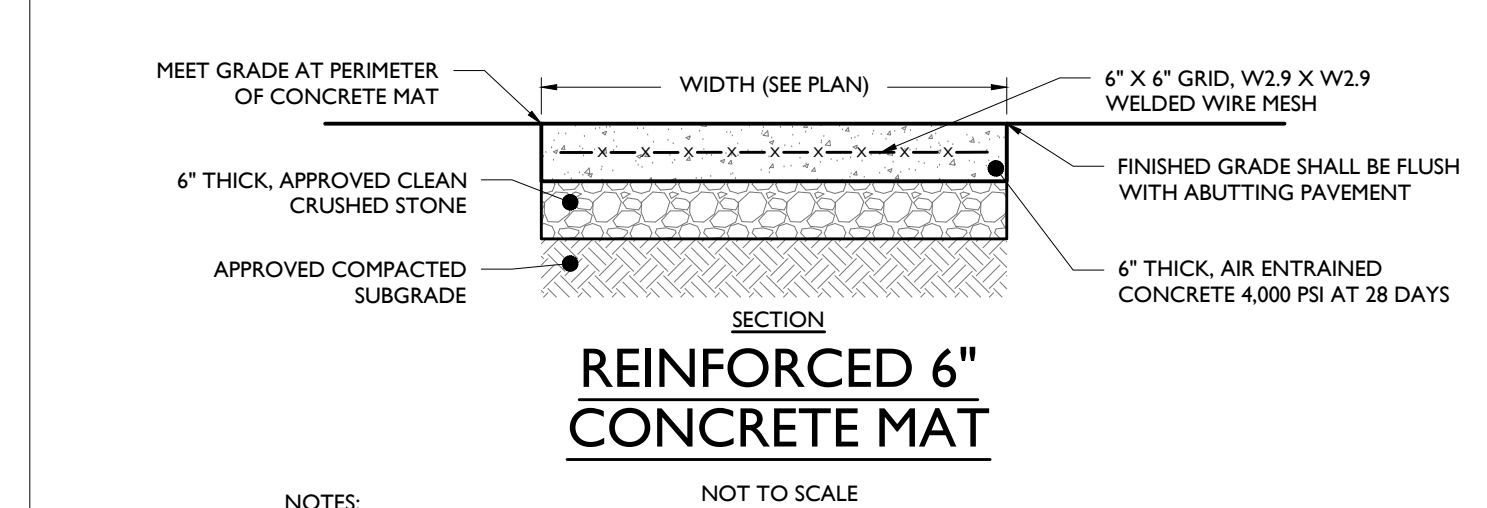
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**FLUSH CURB DETAIL**

NOT TO SCALE

7



**REINFORCED 6\"/>**

NOT TO SCALE

11

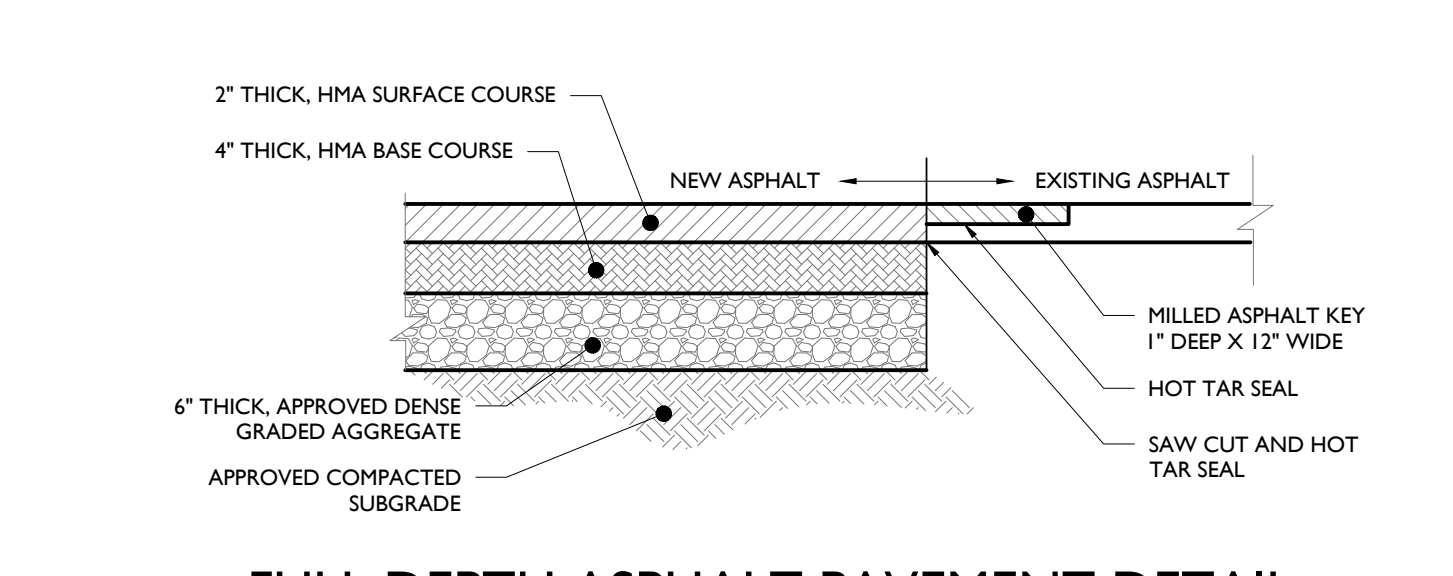
NOTES:  
1. 1/2\"/>

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

4

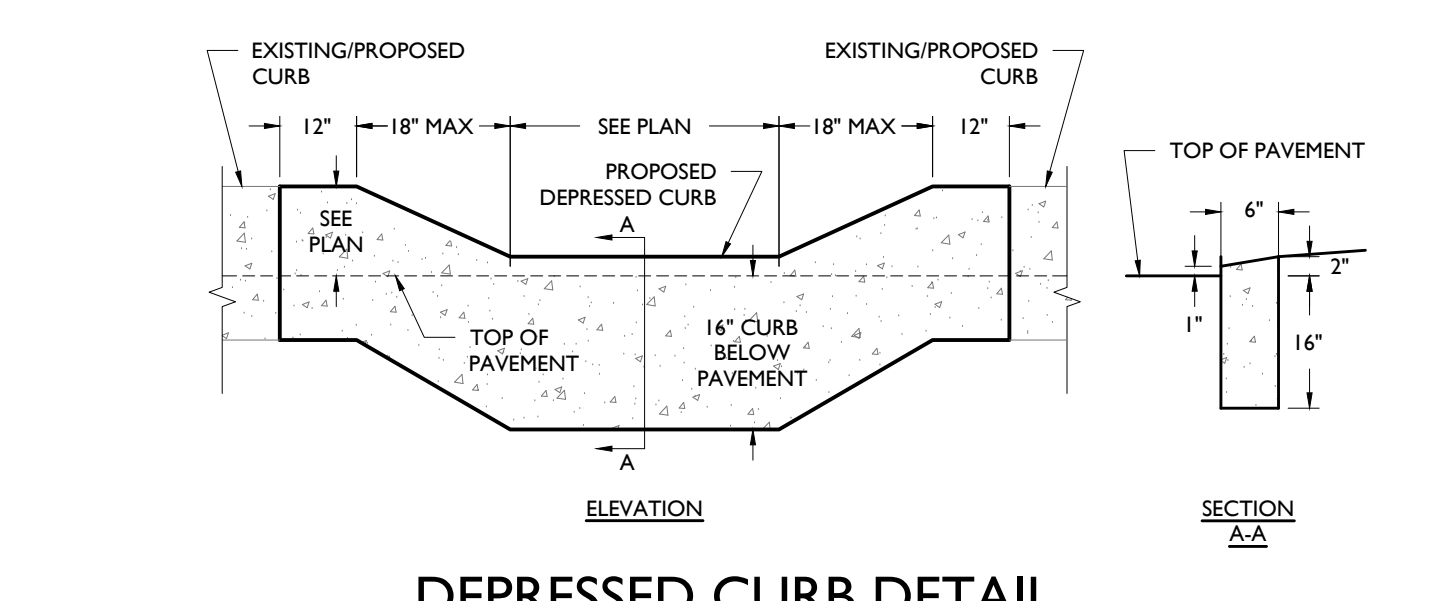


**FULL DEPTH ASPHALT PAVEMENT DETAIL**

NOT TO SCALE

8

NOTE:  
HMA MIX AND DENSE GRADED AGGREGATE SHALL CONFORM TO STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

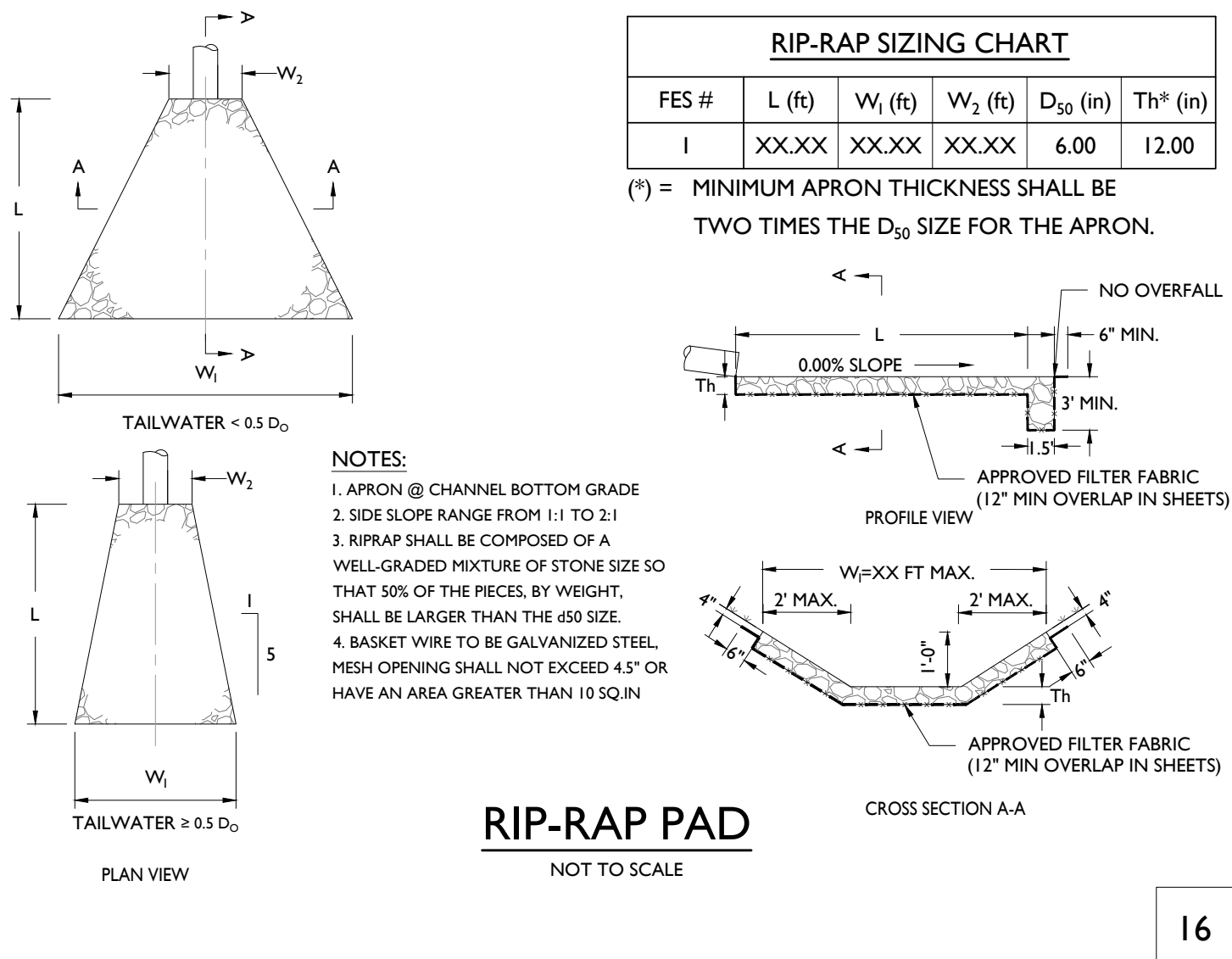


**DEPRESSED CURB DETAIL**

NOT TO SCALE

12

NOTES:  
1. 1/2\"/>



**RIP-RAP SIZING CHART**

FES #	L (ft)	W <sub>1</sub> (ft)	W <sub>2</sub> (ft)	D <sub>50</sub> (in)	Th <sup>a</sup> (in)
1	XX.XX	XX.XX	XX.XX	6.00	12.00

(<sup>a</sup>) = MINIMUM APRON THICKNESS SHALL BE TWO TIMES THE D<sub>50</sub> SIZE FOR THE APRON.

**RIP-RAP PAD**

NOT TO SCALE

16

NOTES:  
1. APRON @ CHANNEL BOTTOM GRADE.  
2. SIDE SLOPE RANGE FROM 1:1 TO 2:1.  
3. RIP-RAP SHALL BE COMPOSED OF A WELL-GRADED MIXTURE OF STONE SIZE SO THAT 50% OF THE PIECES, BY WEIGHT, SHALL BE LARGER THAN THE #50 SIZE.  
4. BASKET WIRE TO BE GALVANIZED STEEL. MESH OPENING SHALL NOT EXCEED 45\"/>

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MASSACHUSETTS LICENSE NO. 53936  
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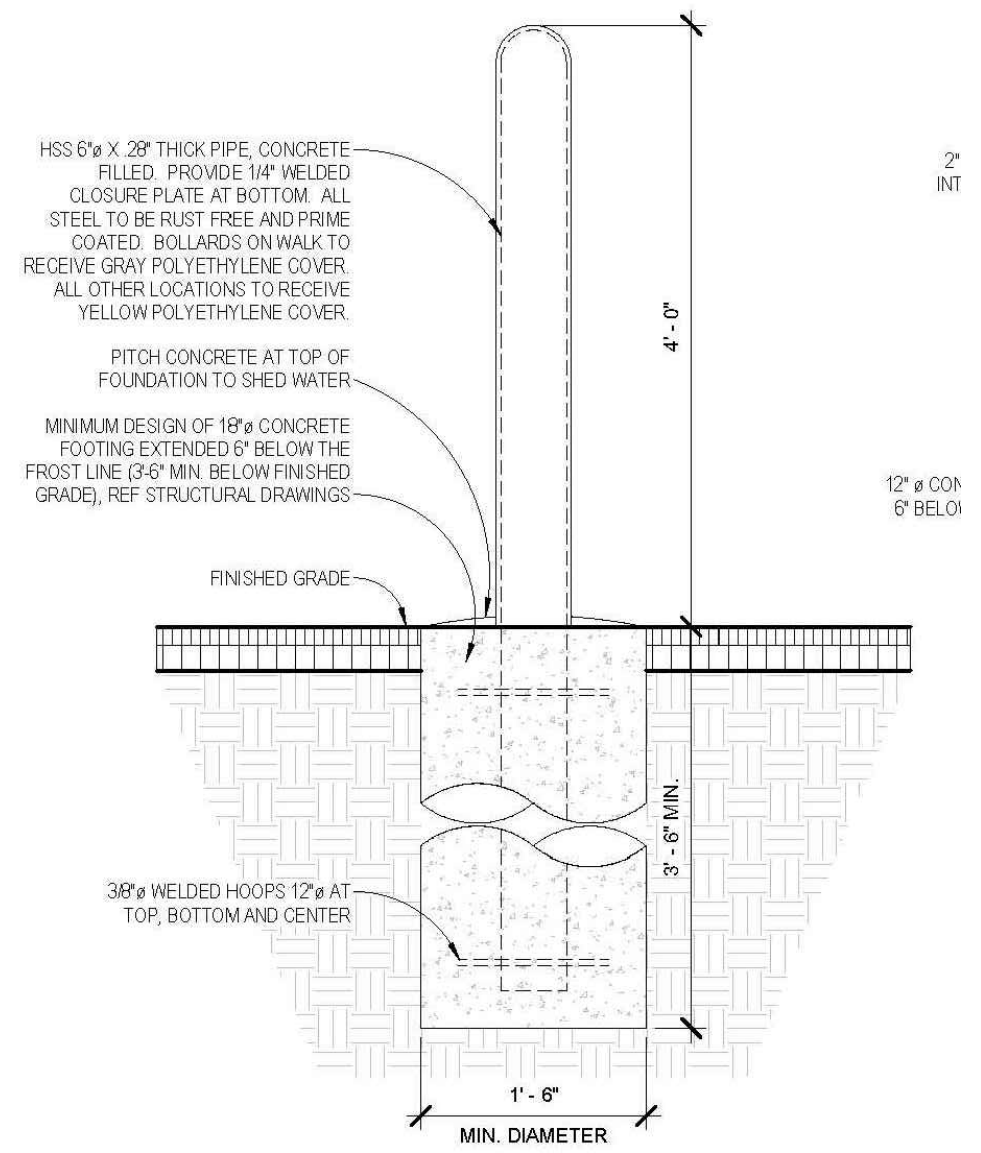
**STONEFIELD**  
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SCALE: AS SHOWN PROJECT ID: BOS-210033

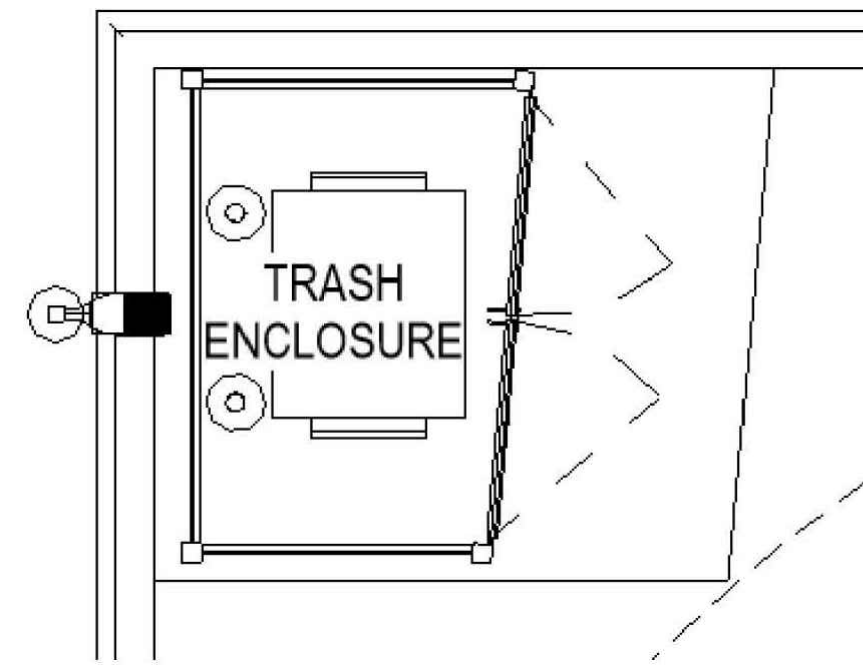
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DRAWING: C-11

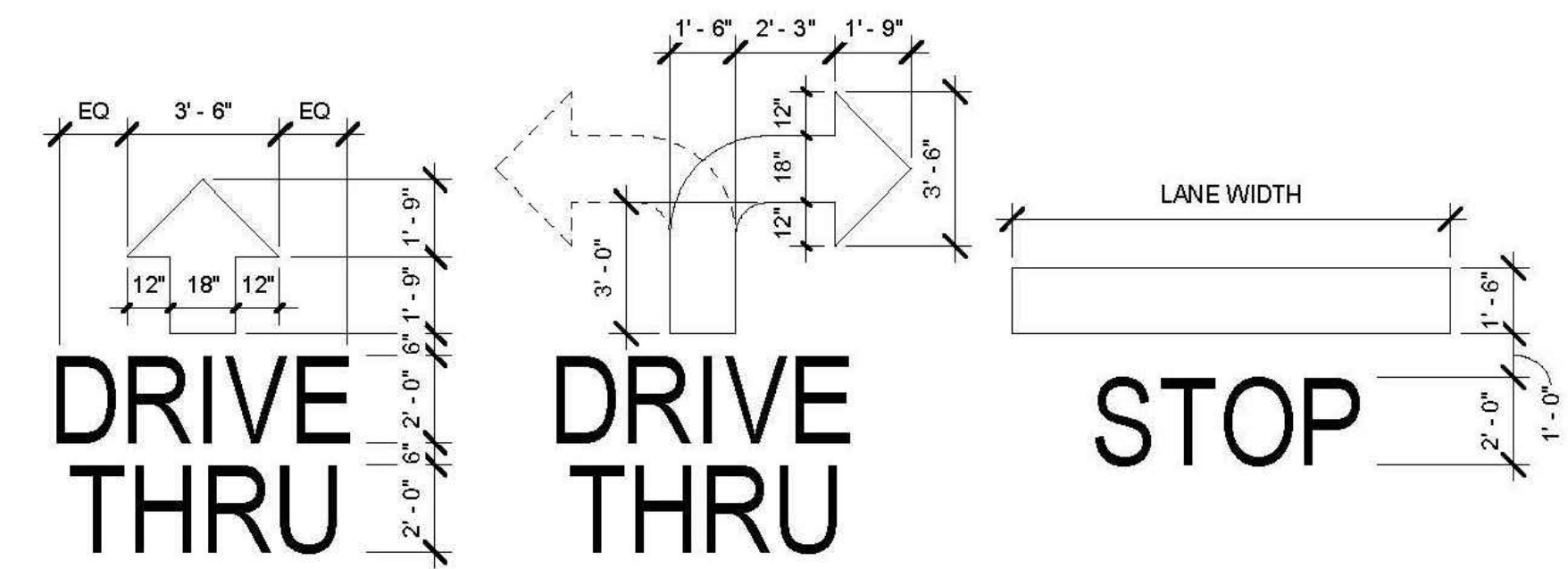
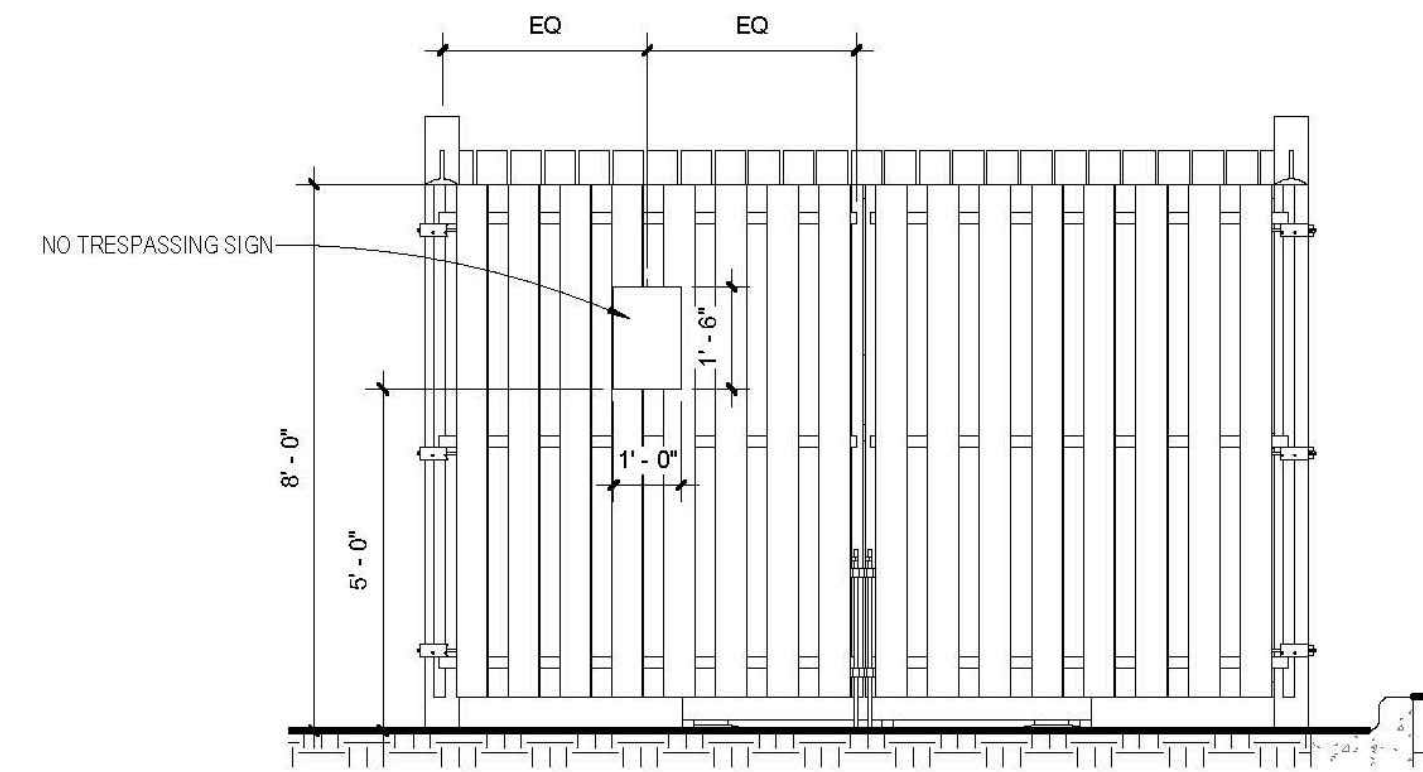
Z:\PROJECTS\2021\100210033\COCCA DEVELOPMENT\2-20-CENTRAL STREET-WINCHENDON-16A\CDR\A\01\01-1.DWG



**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

2:40:07:14:02:21:10:02:10:03: COCCA DEVELOPMENT - 20 CENTRAL STREET - WINCHENDON, MASSACHUSETTS - 10/11/2017.DWG

DATE	ISSUE	BY	DESCRIPTION
01	10/27/2017	SPM	FOR MUNICIPAL SUBMISSION

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**SITE PLAN SET**

**FIDC I63 LLC**  
**PROPOSED PHARMACY WITH**  
**DRIVE-THRU**

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

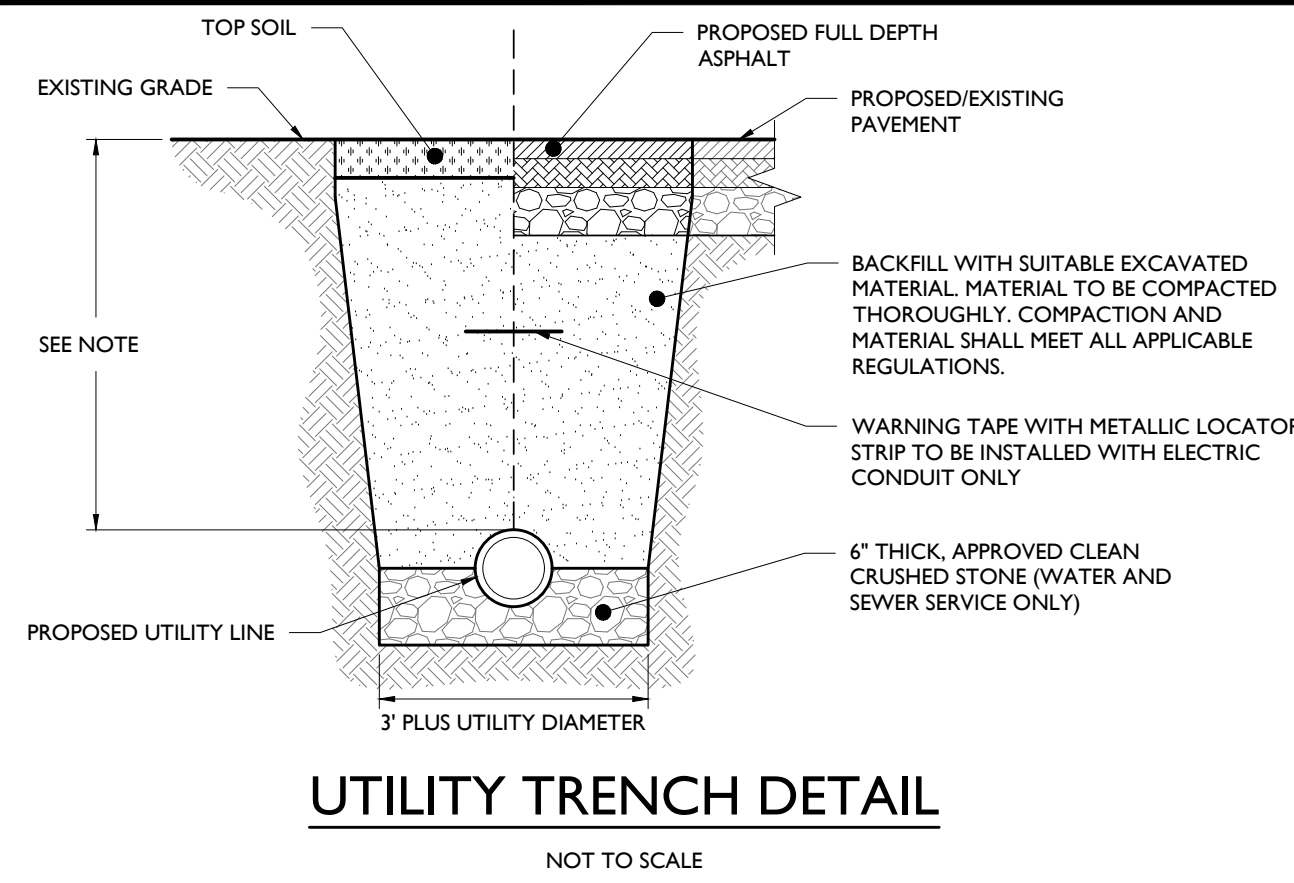
JOSHUA H. KLINE, P.E.  
MASSACHUSETTS LICENSE No. 53936  
LICENSED PROFESSIONAL ENGINEER

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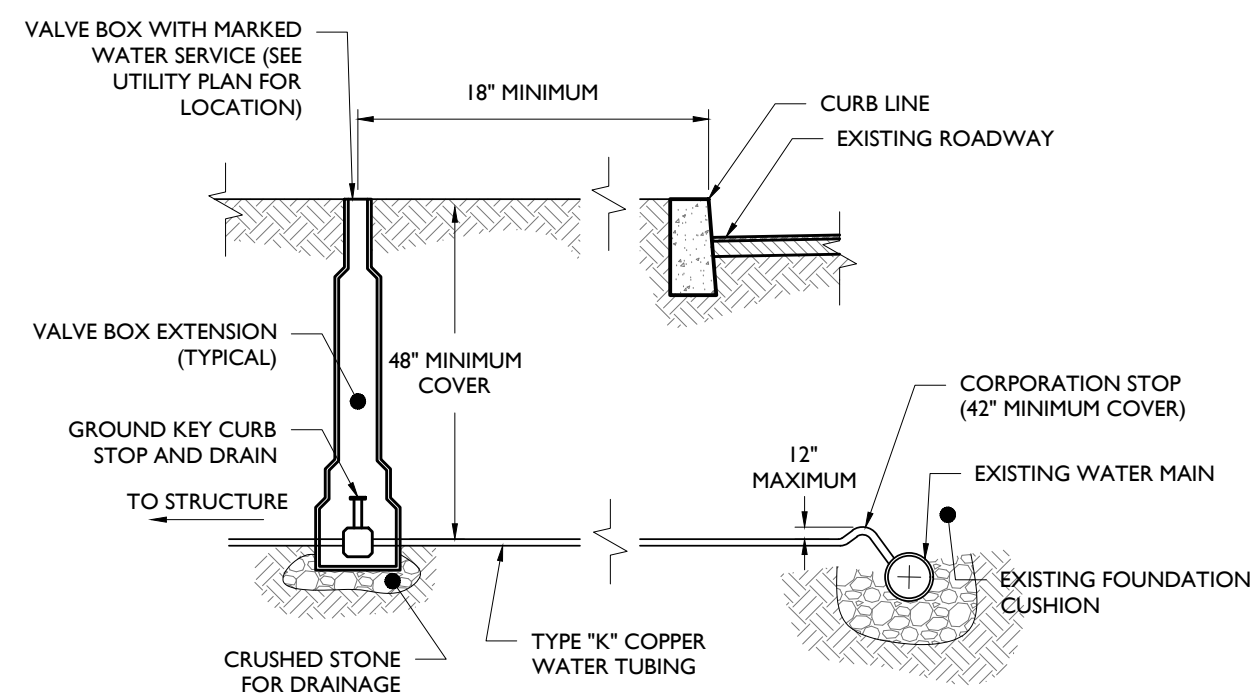
SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:  
**CONSTRUCTION**  
**DETAILS**

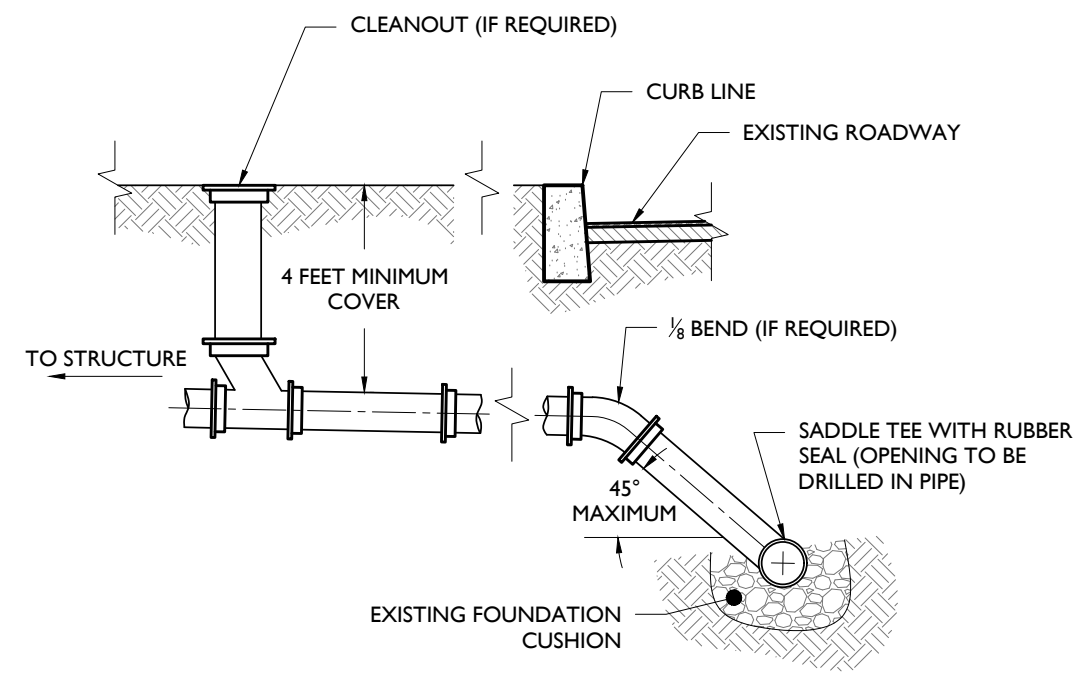
DRAWING:  
**C-12**



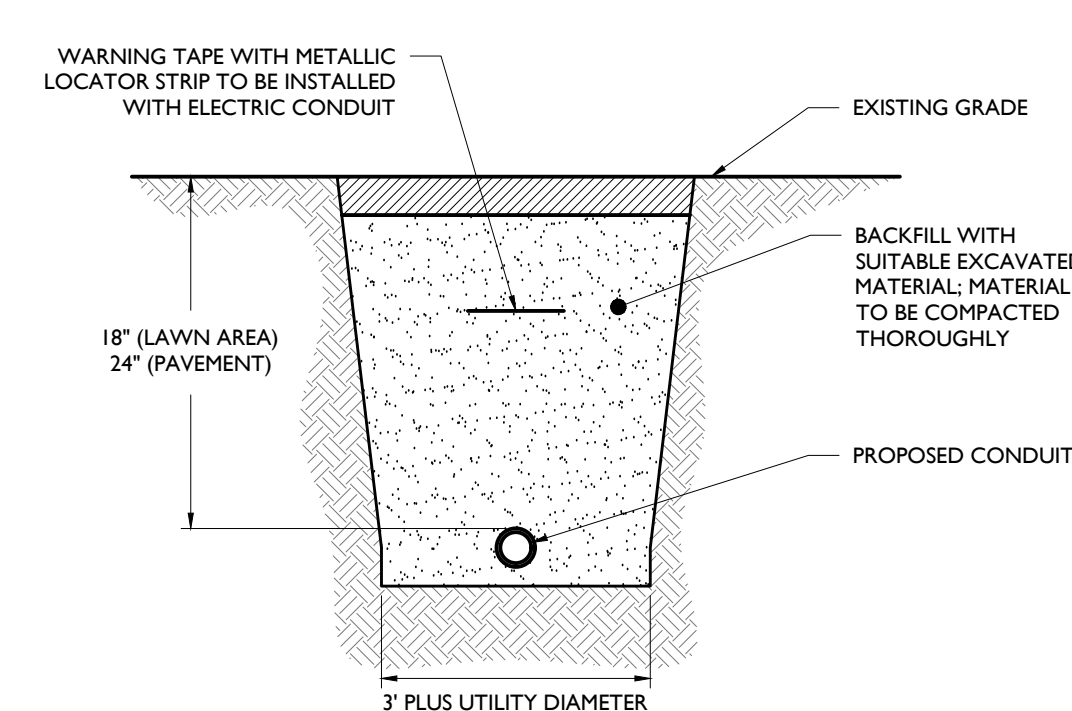
NOTE:  
 MINIMUM PIPE COVER SHALL BE AS FOLLOWS:  
 • ELECTRIC SERVICE - PER APPLICABLE UTILITY AUTHORITY  
 • GAS SERVICE - PER APPLICABLE UTILITY AUTHORITY  
 • SEWER SERVICE - 36" MINIMUM  
 • WATER SERVICE - 48" MINIMUM



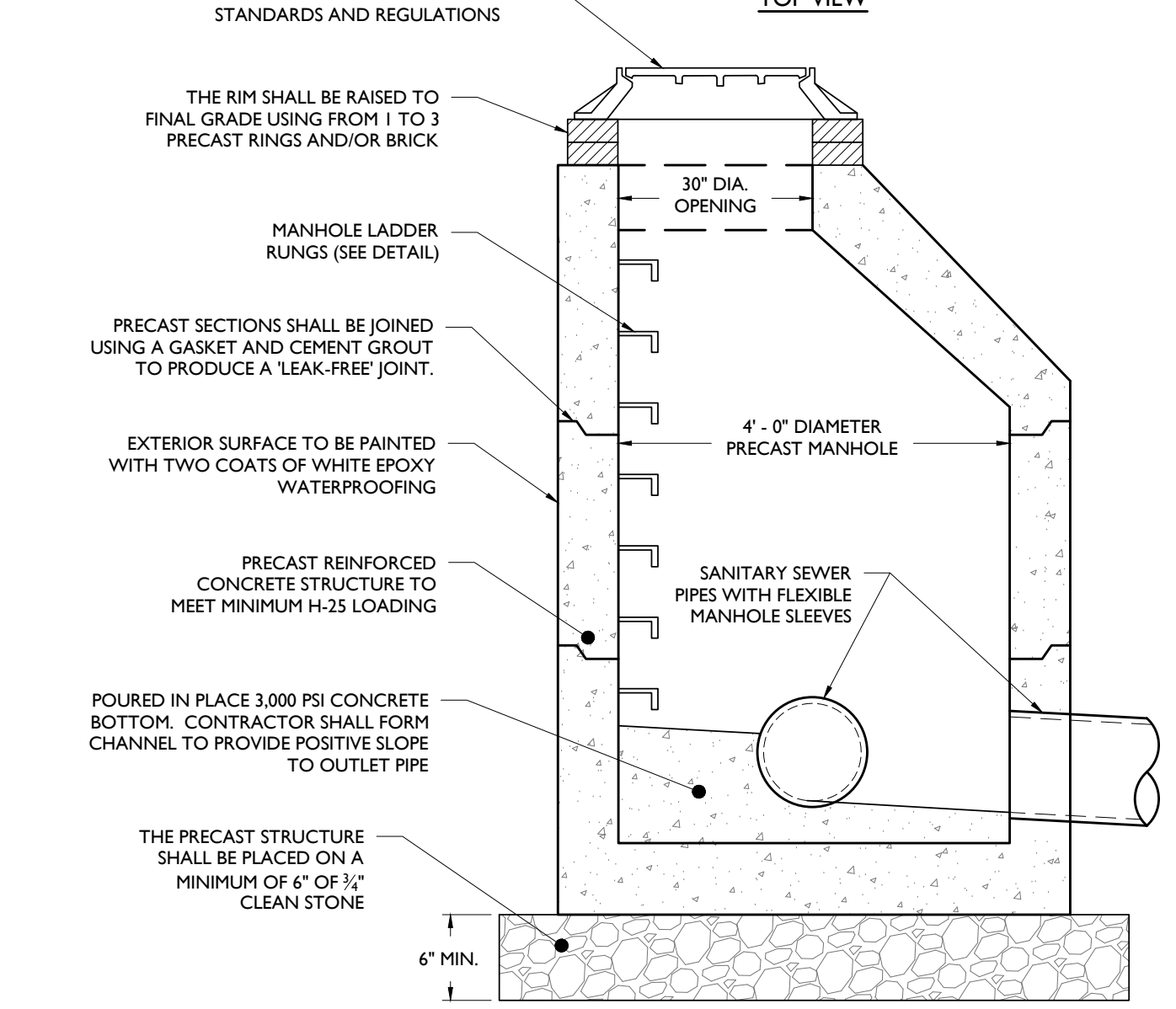
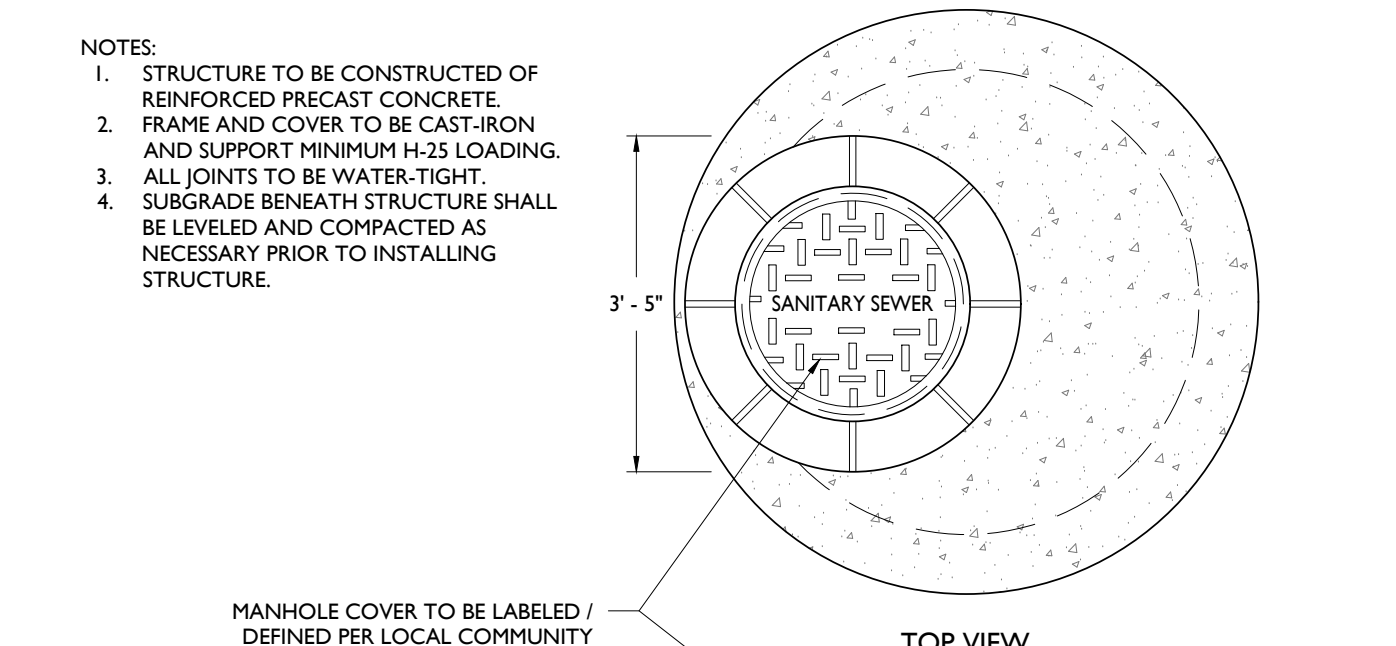
**WATER CONNECTION DETAIL**  
 NOT TO SCALE



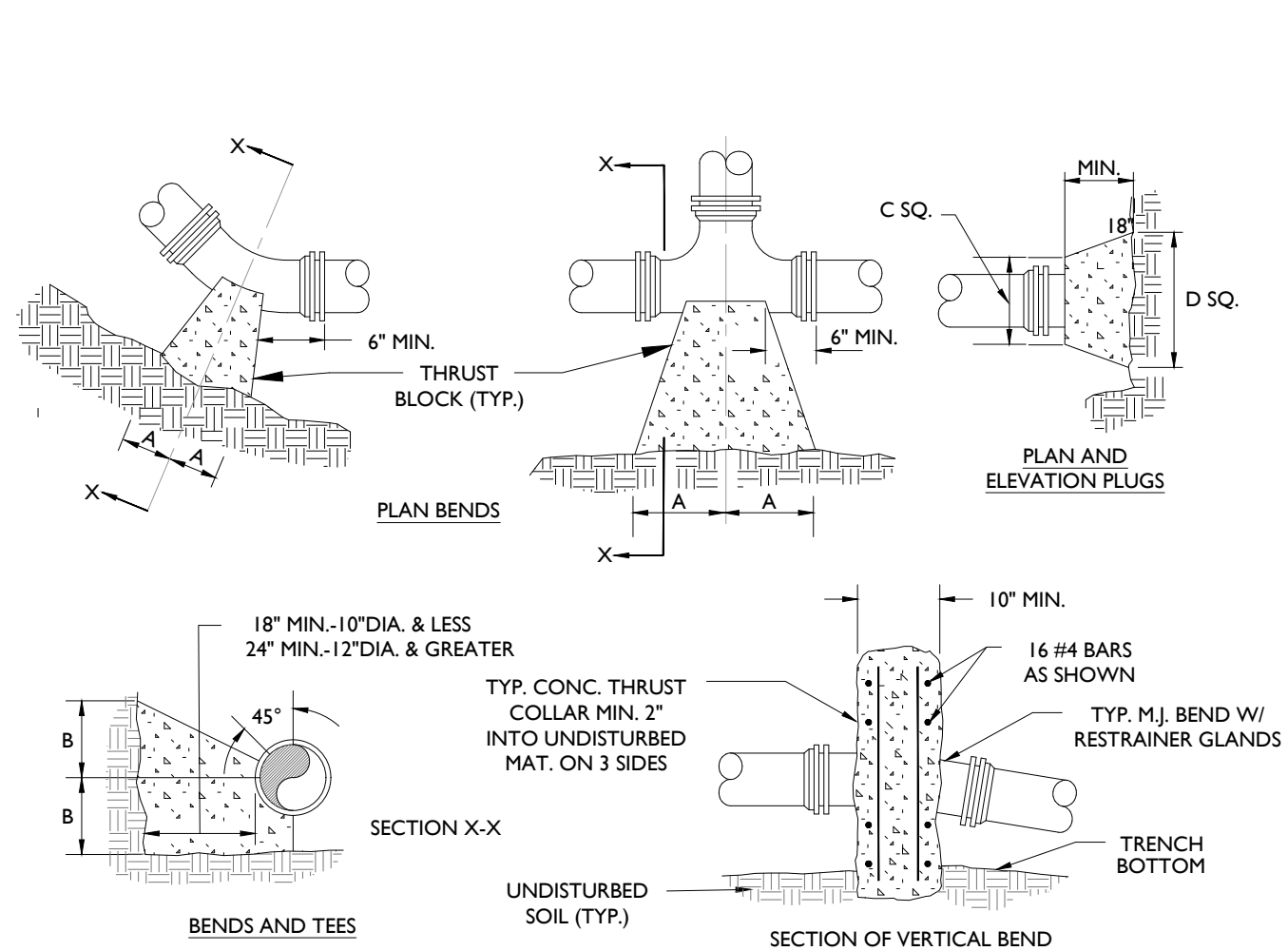
**SEWER CONNECTION DETAIL**  
 NOT TO SCALE



**ELECTRICAL CONDUIT TRENCH DETAIL**  
 NOT TO SCALE



**SANITARY MANHOLE DETAIL**  
 NOT TO SCALE

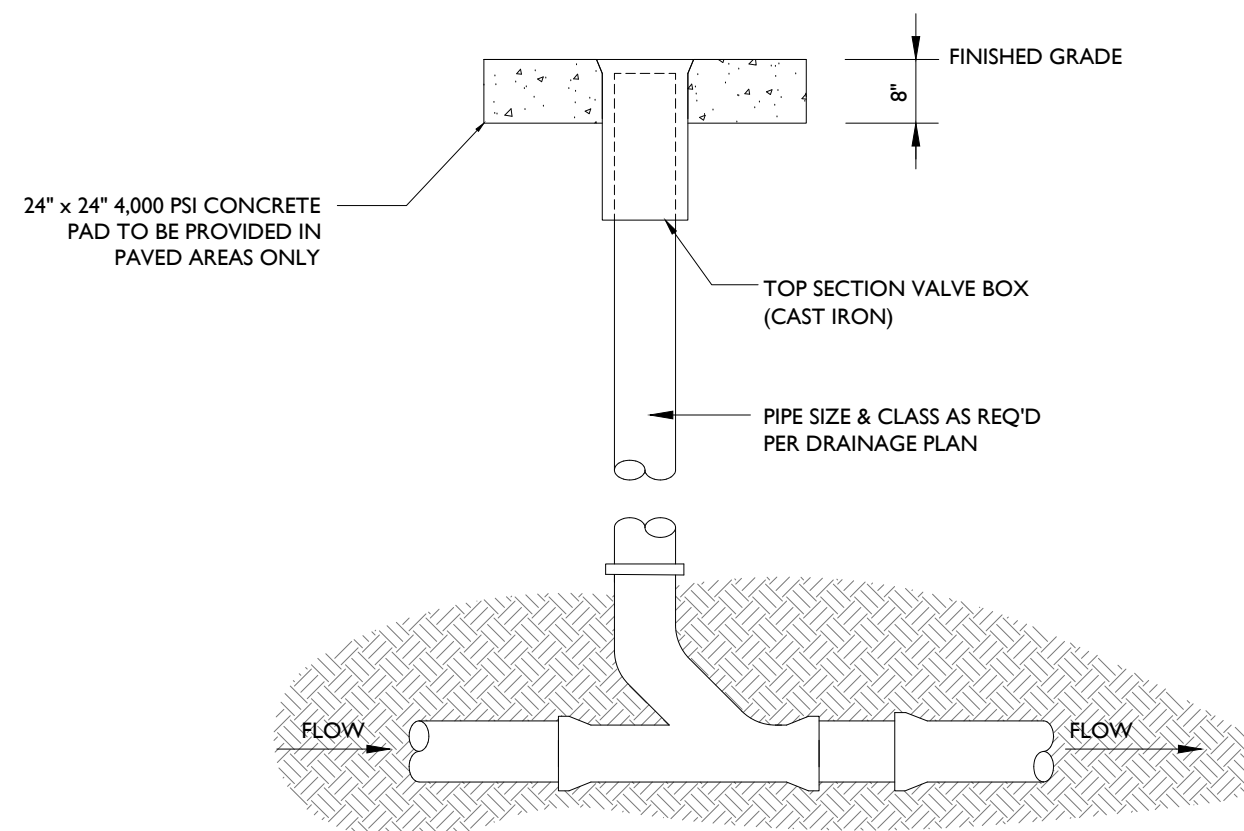


NOTES:  
 1. FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.  
 2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.  
 3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.  
 4. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.  
 5. THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.  
 6. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

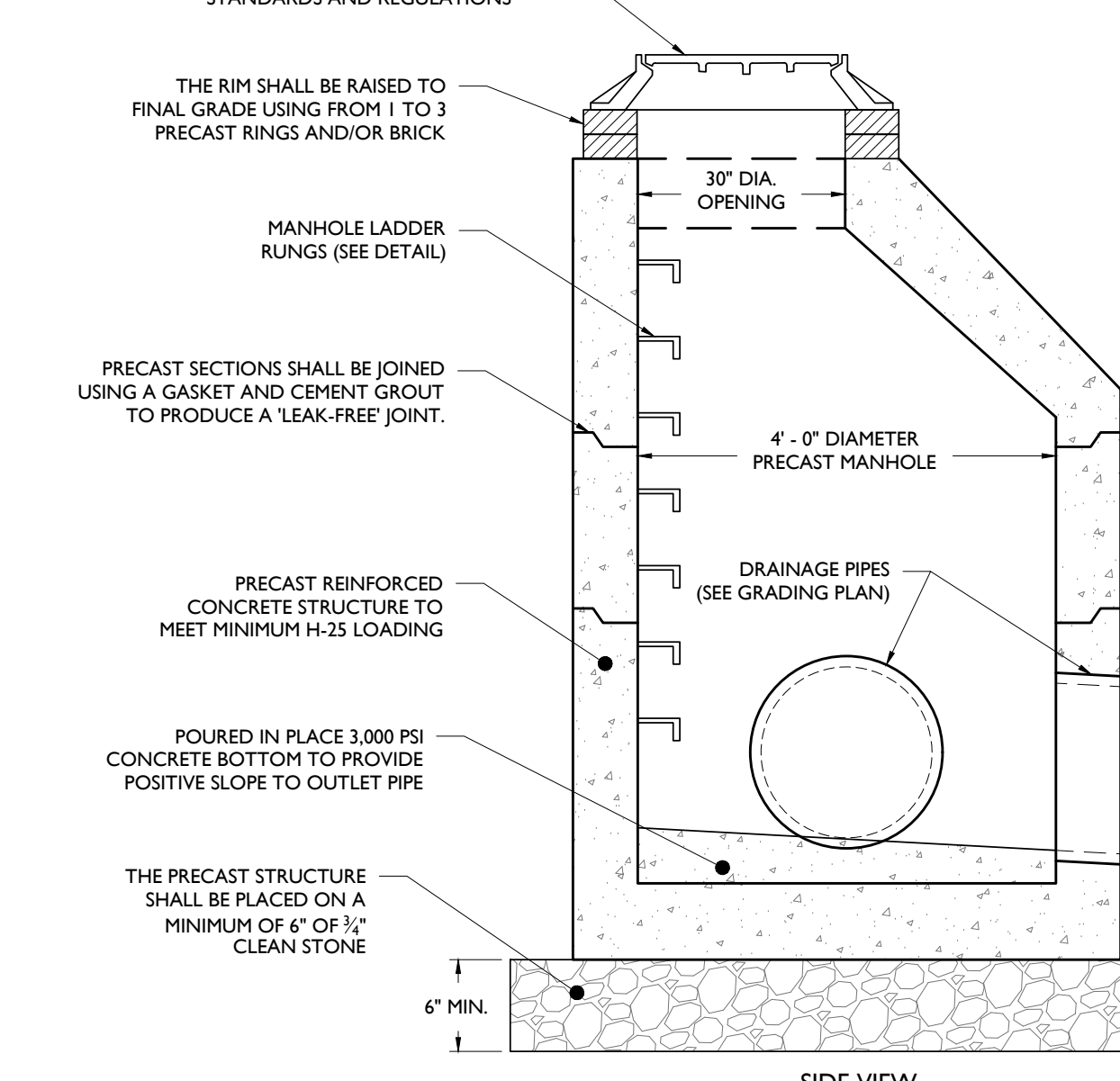
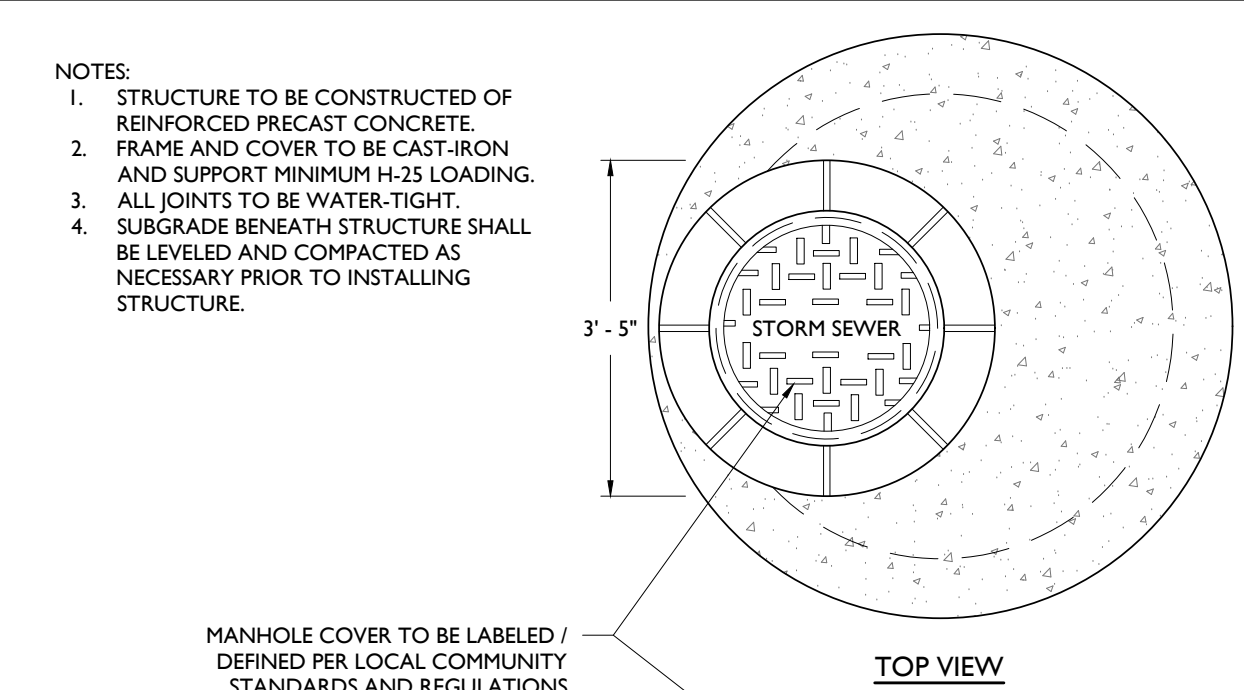
PRESSURE = 200 psf  
 BEARING = 2000 psf  
 FACTOR OF SAFETY = 1.5

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	11"	9"	10"	6"
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"

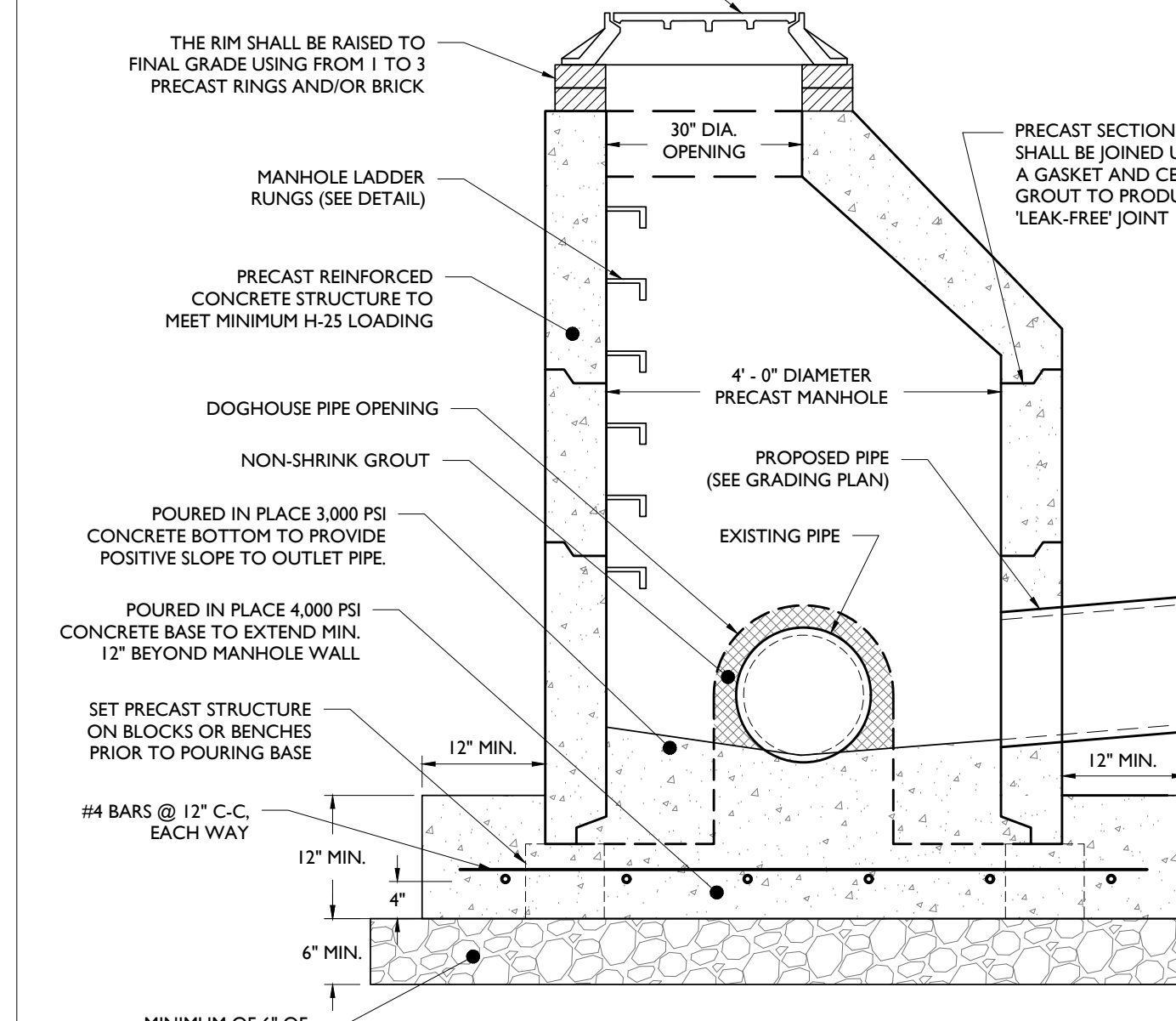
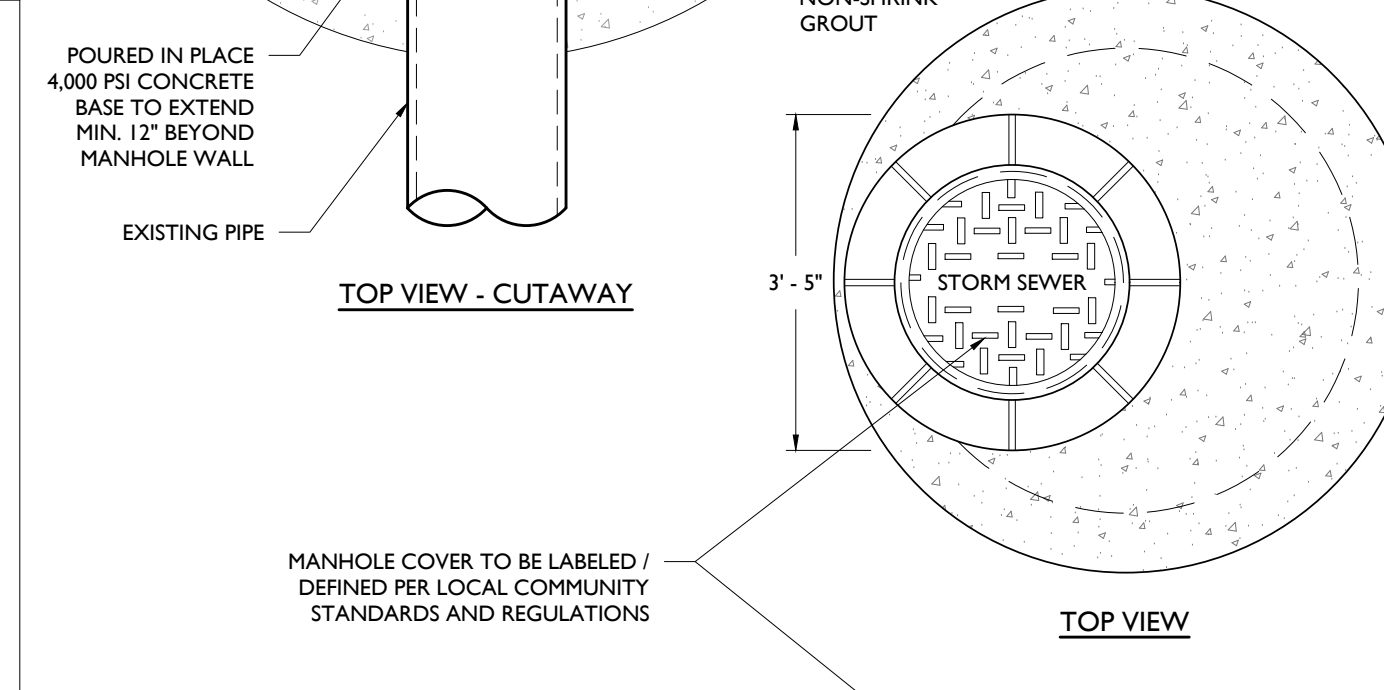
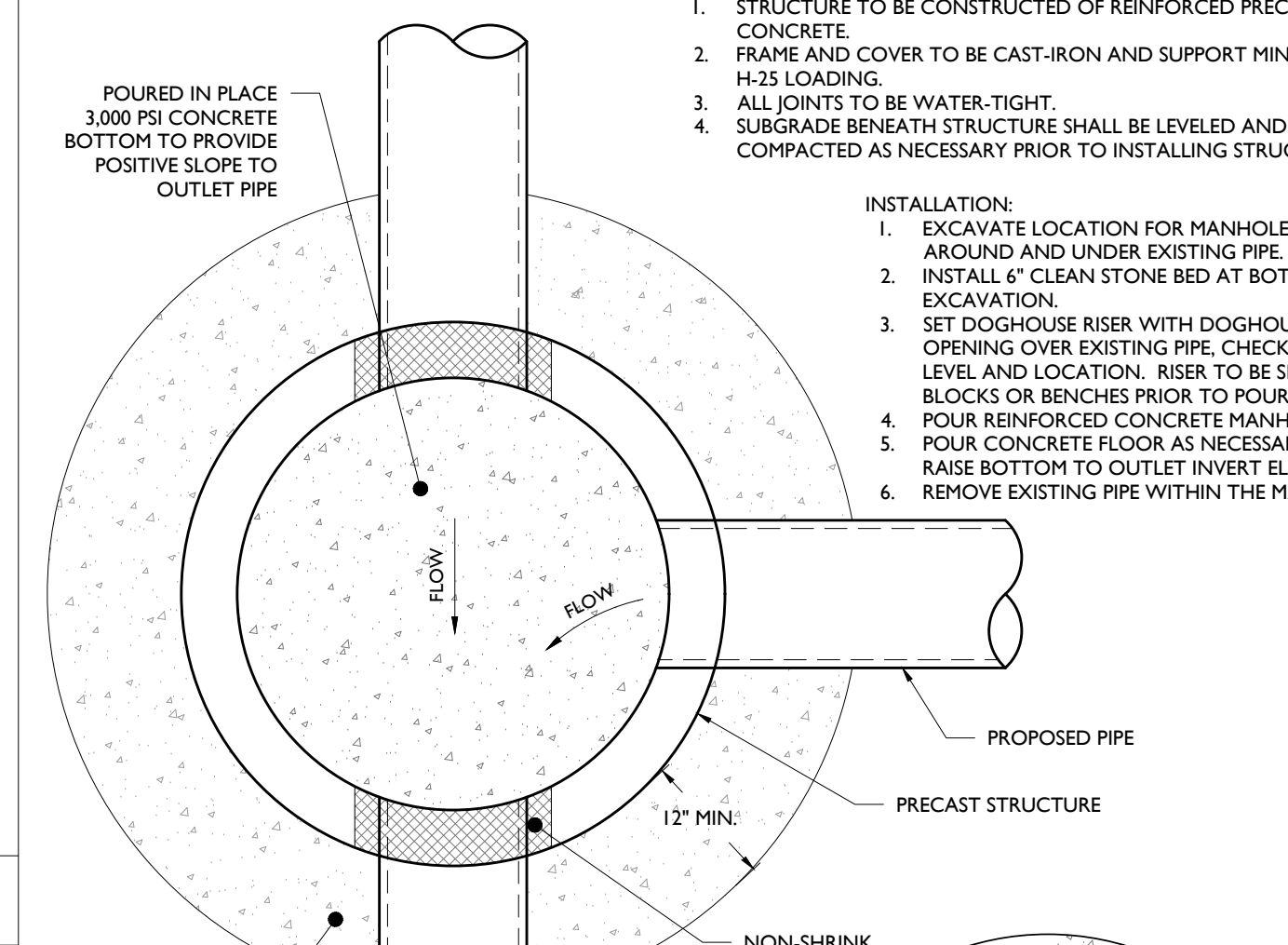
**THRUST BLOCK**  
 NOT TO SCALE



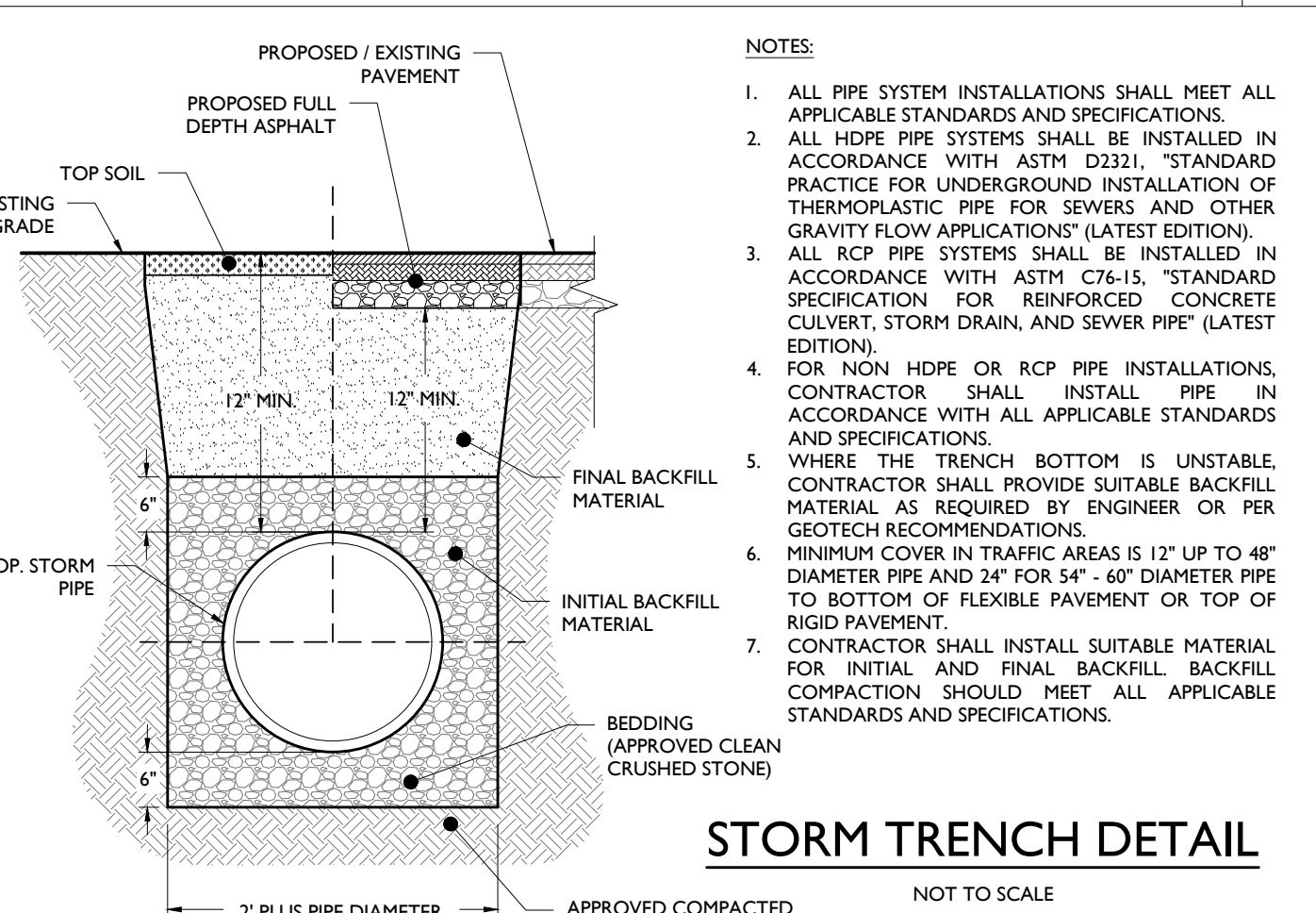
**CLEAN-OUT**  
 NOT TO SCALE



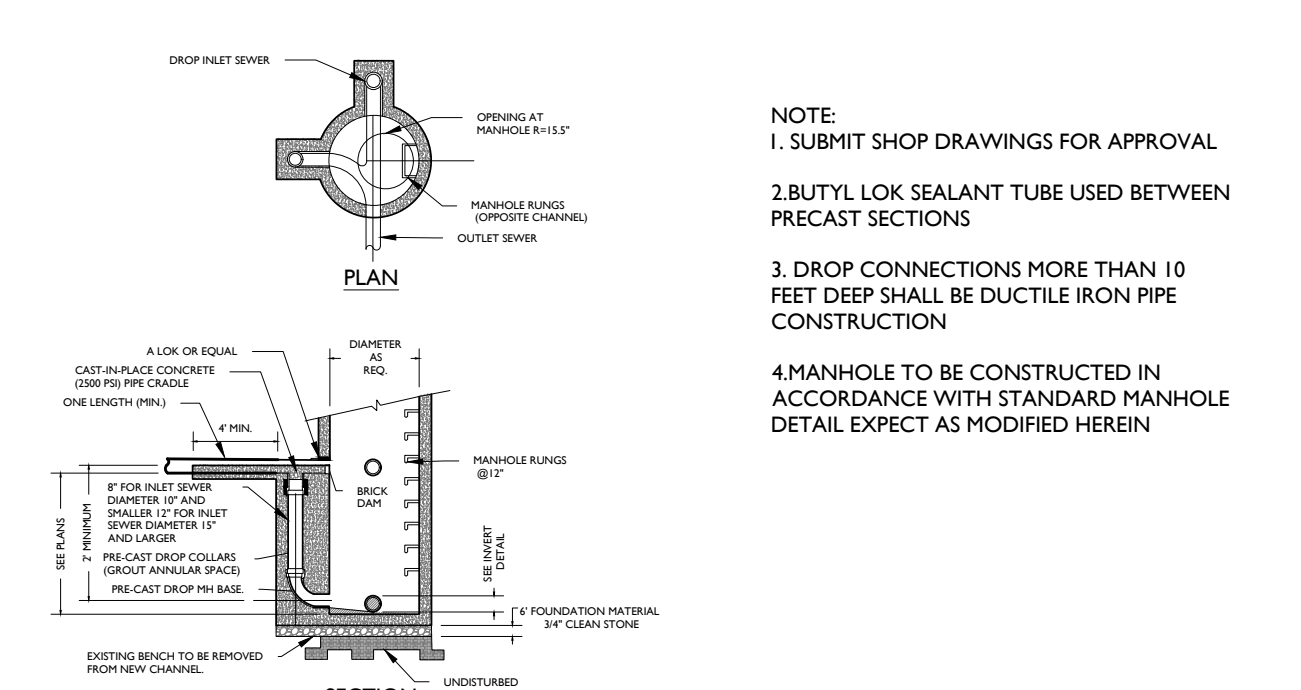
**STORM MANHOLE DETAIL**  
 NOT TO SCALE



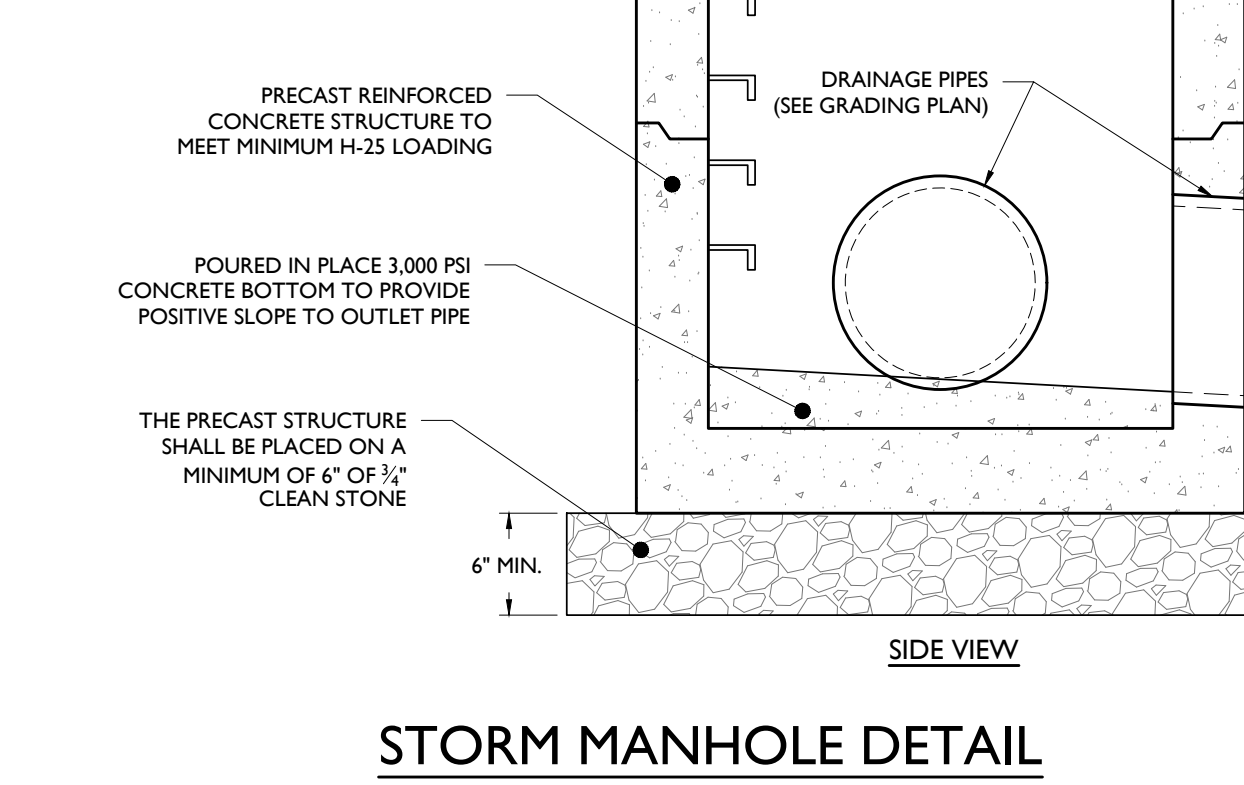
**DOGHOUSE STORM MANHOLE DETAIL**  
 NOT TO SCALE



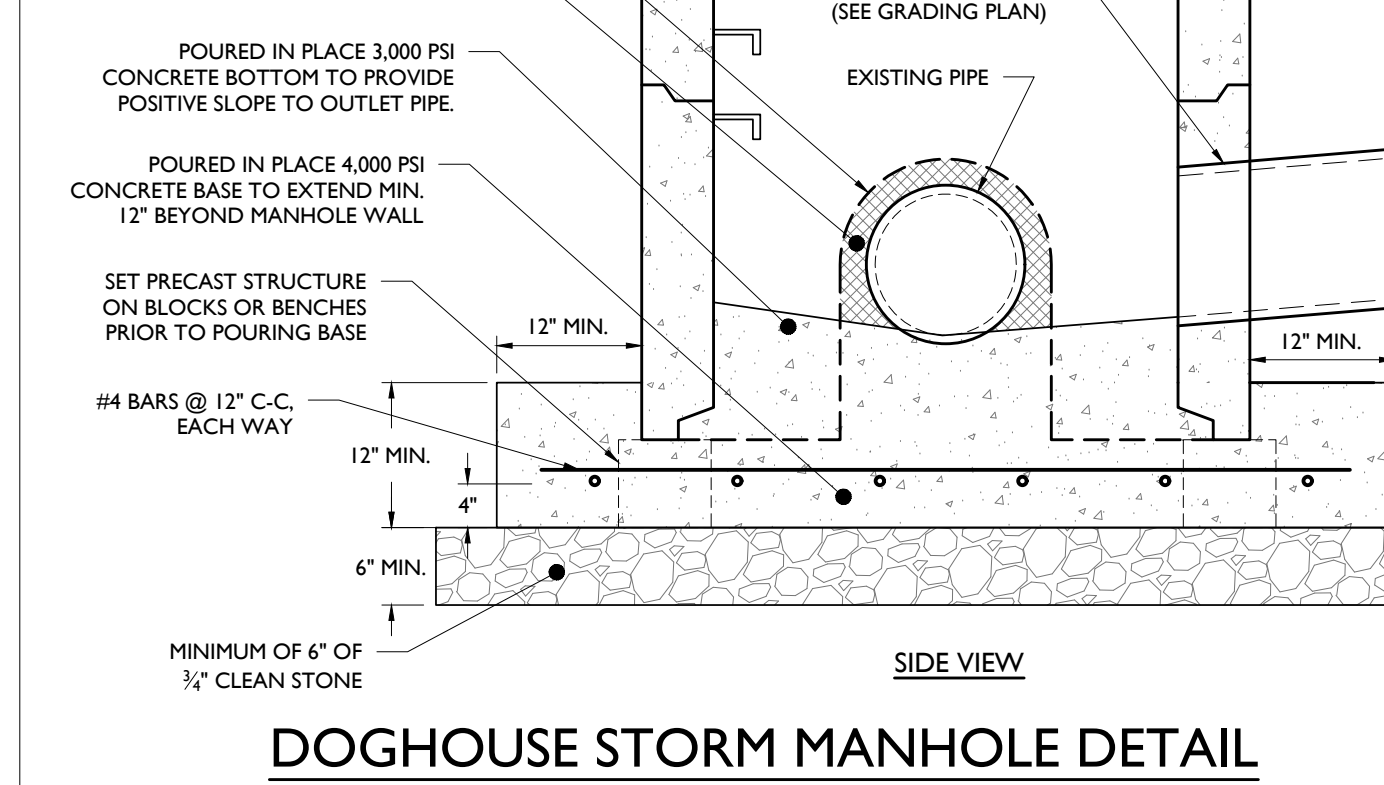
**STORM TRENCH DETAIL**  
 NOT TO SCALE



**DROP CONNECTION**  
 NOT TO SCALE



**STORM MANHOLE DETAIL**  
 NOT TO SCALE



**DOGHOUSE STORM MANHOLE DETAIL**  
 NOT TO SCALE

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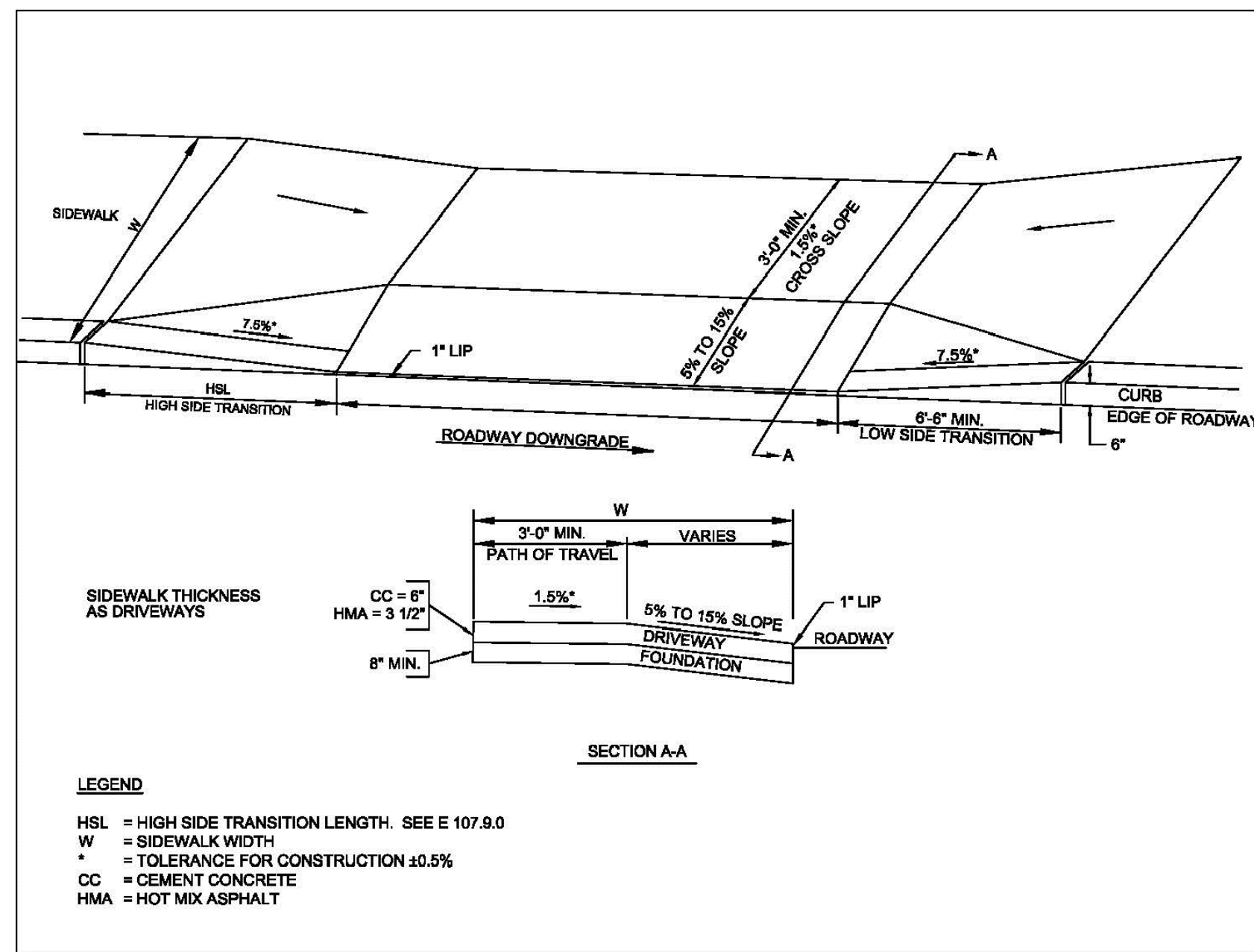
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SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE: CONSTRUCTION DETAILS

DRAWING: C-13

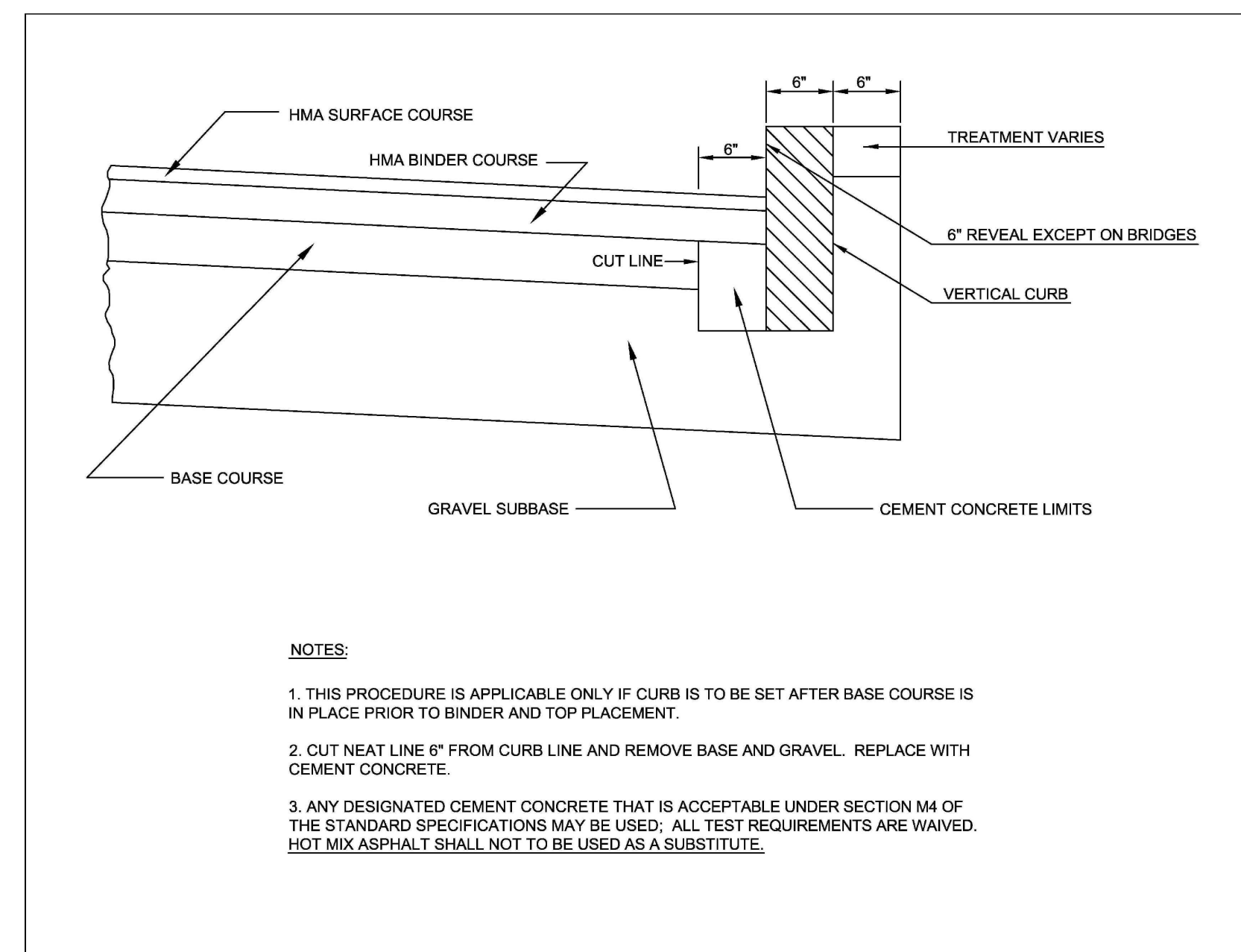
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**SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS DETAIL**

DRAWING E 107.7.0 - NOT TO SCALE

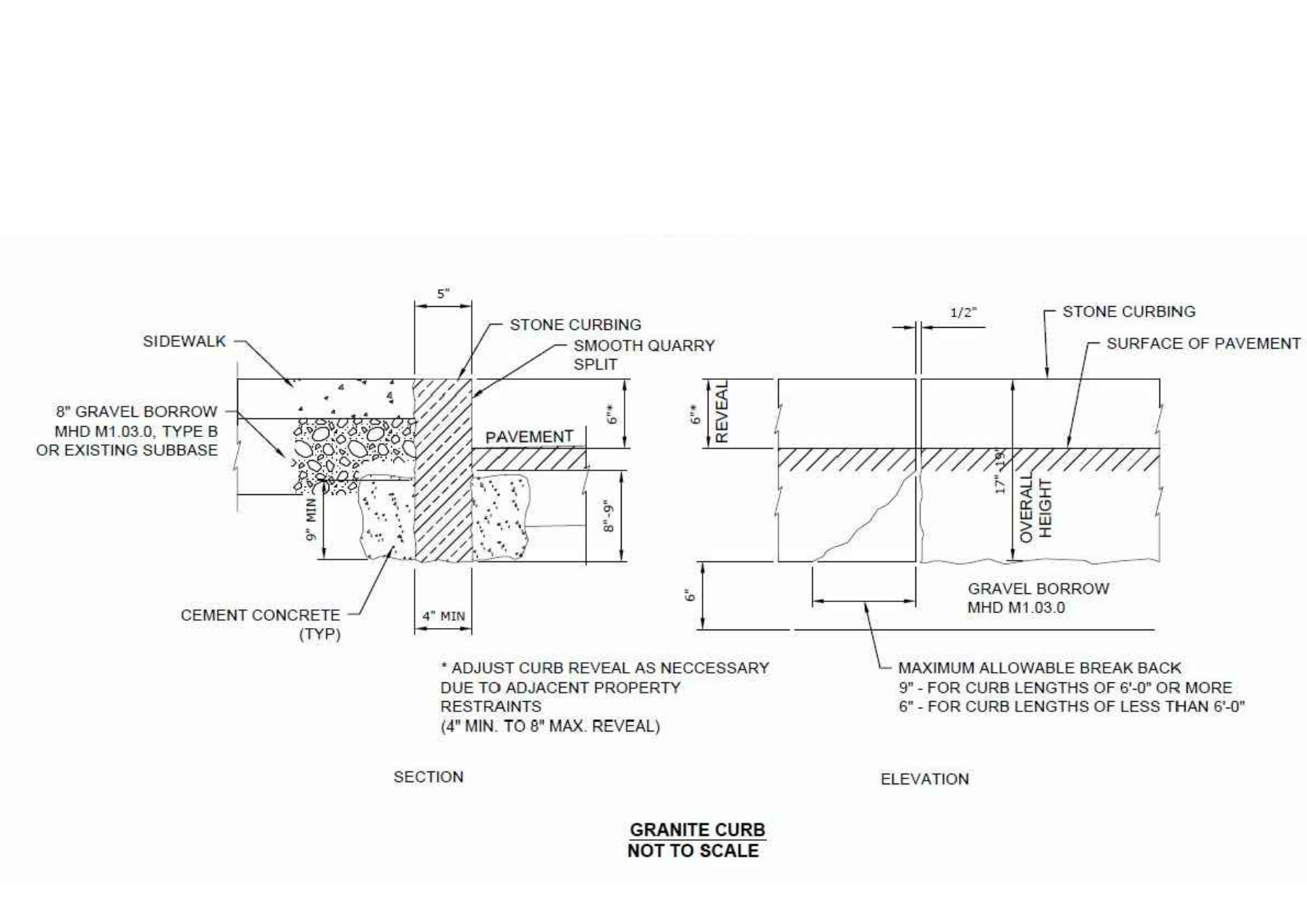
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**METHOD OF SETTING VERTICAL CURB DETAIL**

DRAWING E 106.3.0 - NOT TO SCALE

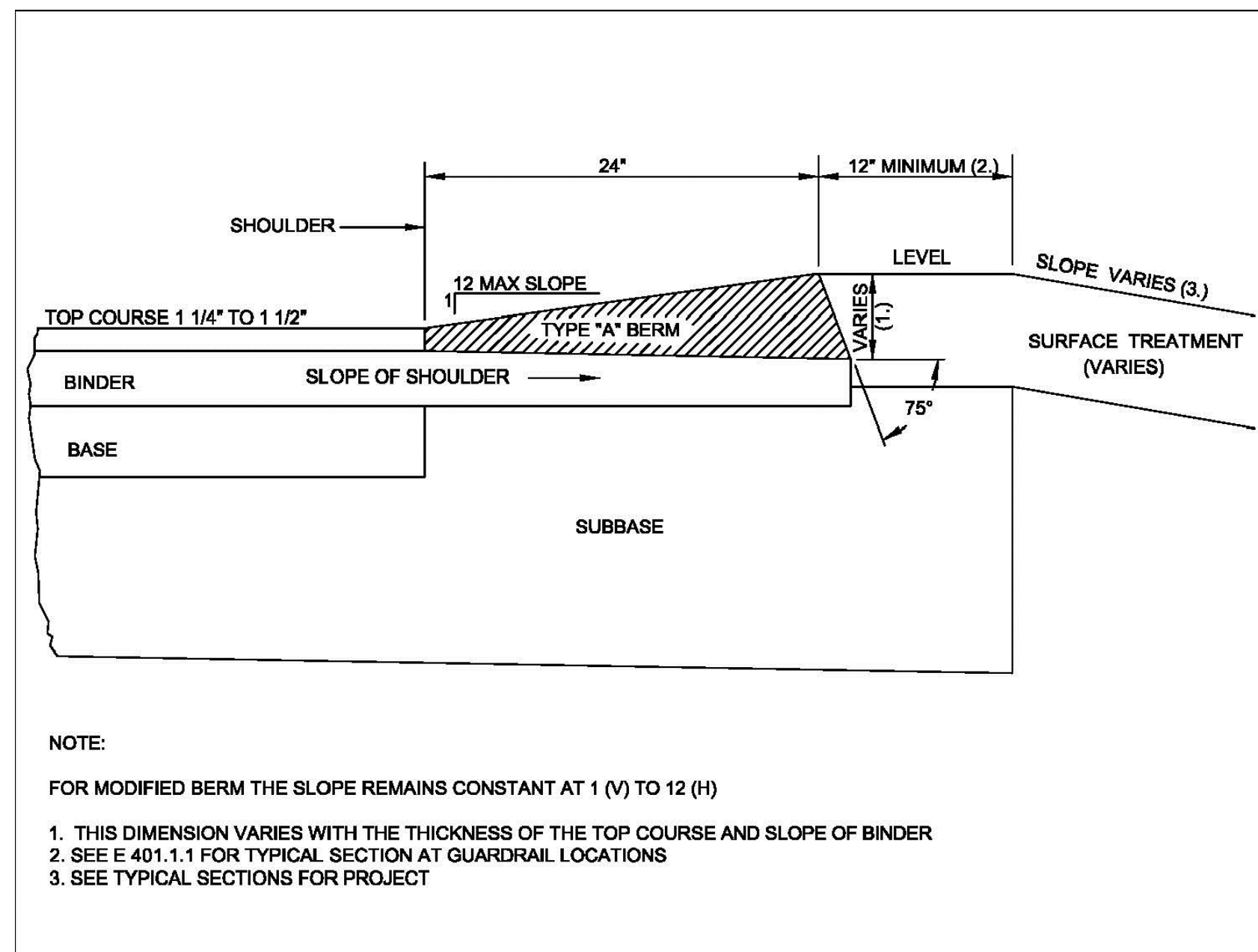
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**GRANITE CURB DETAIL**

NOT TO SCALE

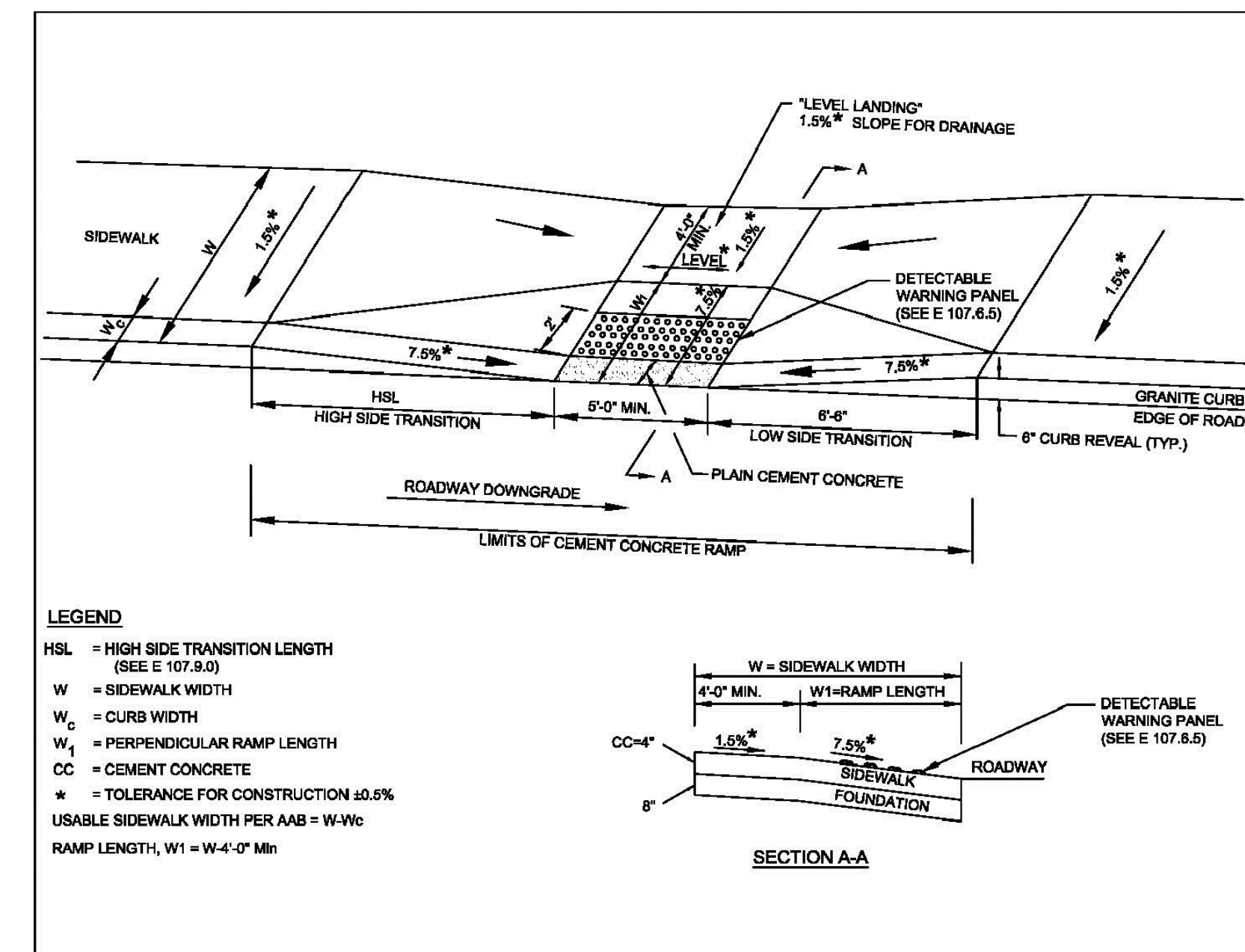
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**HOT MIX ASPHALT BERM TYPE A DETAIL**

DRAWING E 106.1.0 - NOT TO SCALE

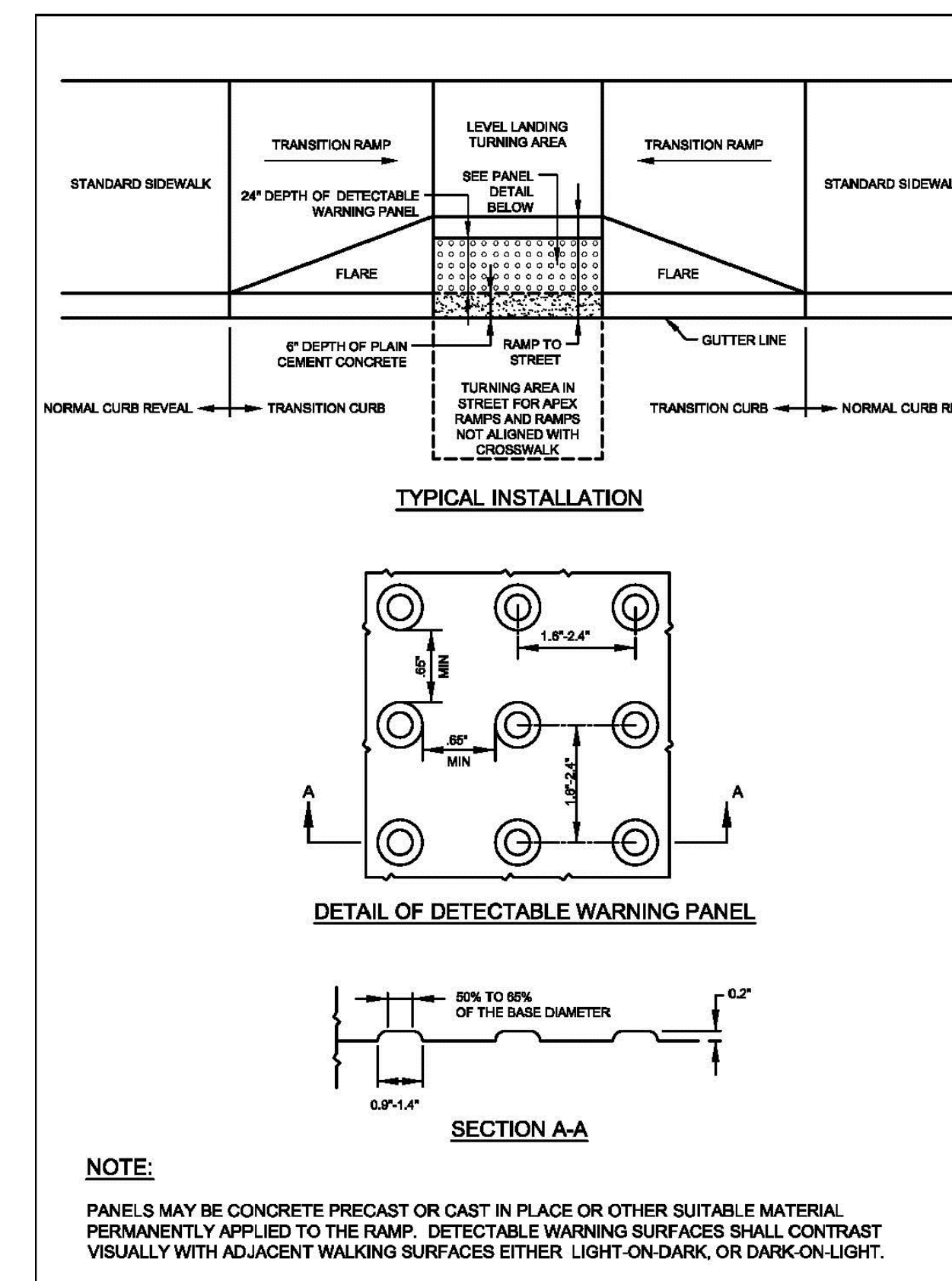
4



**WHEELCHAIR RAMPS 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
01	10/27/2021	SPM		FOR MUNICIPAL SUBMISSION

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**SITE PLAN SET**

**FIDC I63 LLC**

**PROPOSED PHARMACY WITH DRIVE-THRU**

BLOCK 5B3, LOT 50  
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TOWN OF WINCHENDON  
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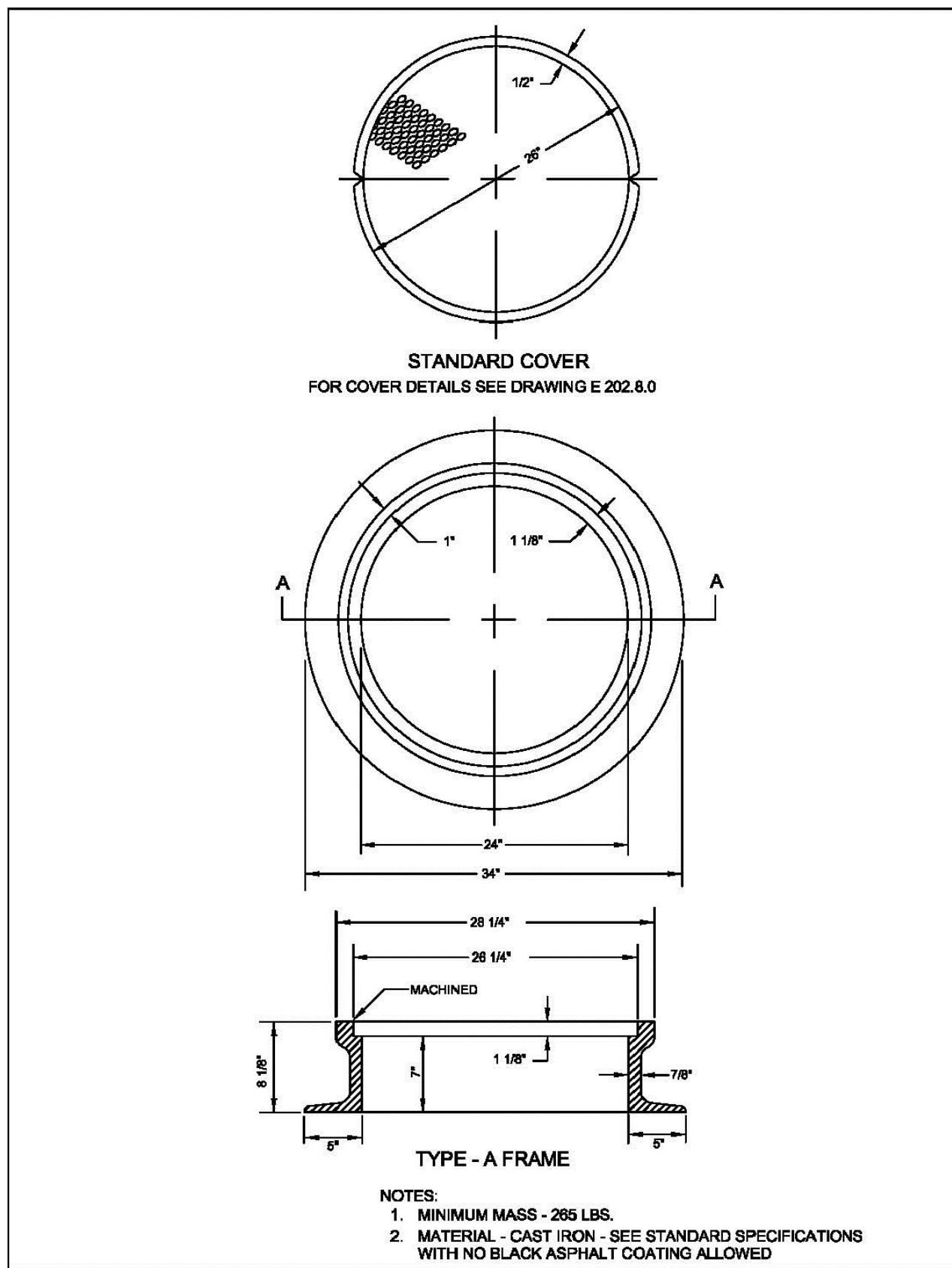
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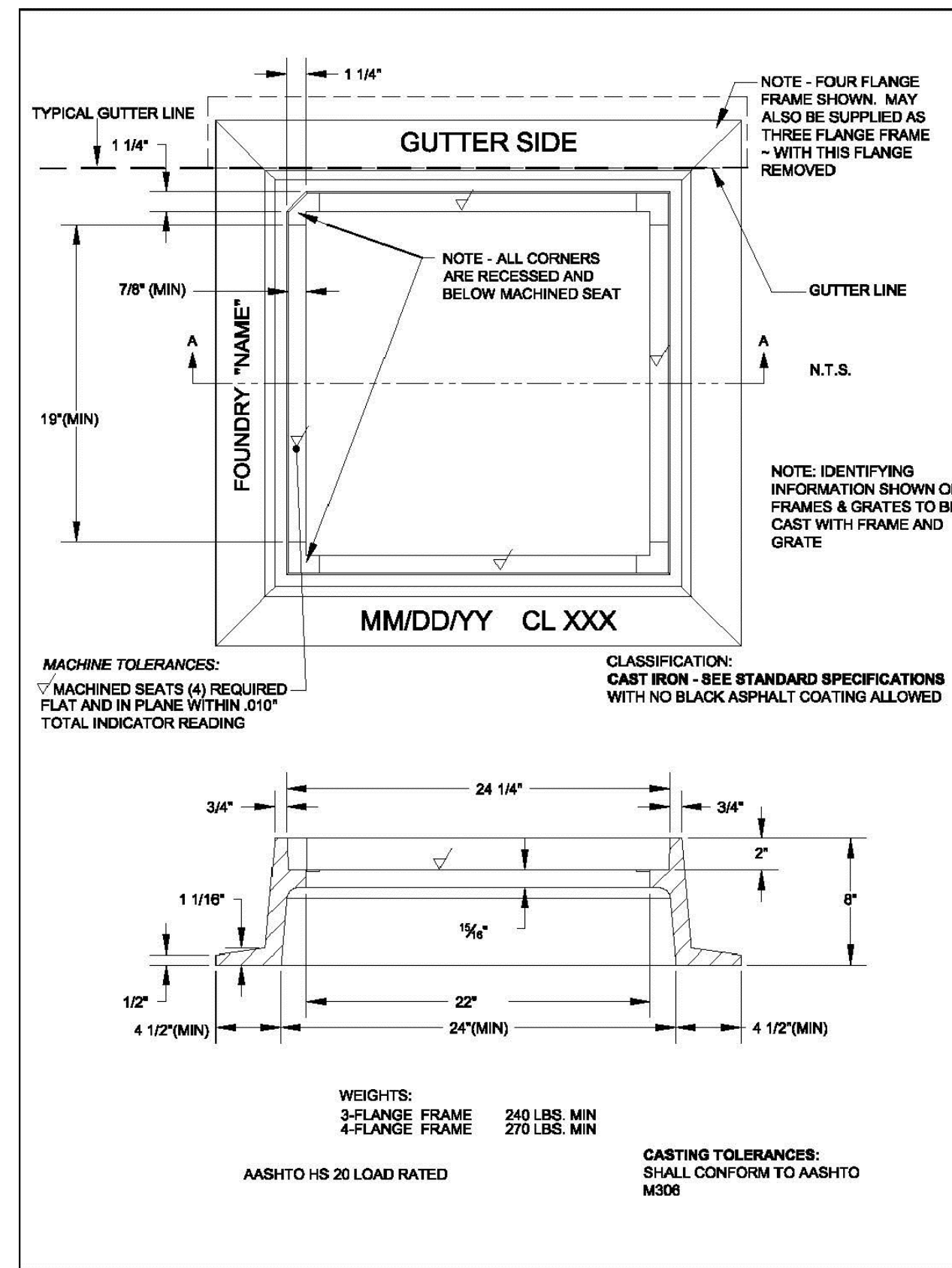
SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:  
**CONSTRUCTION DETAILS**

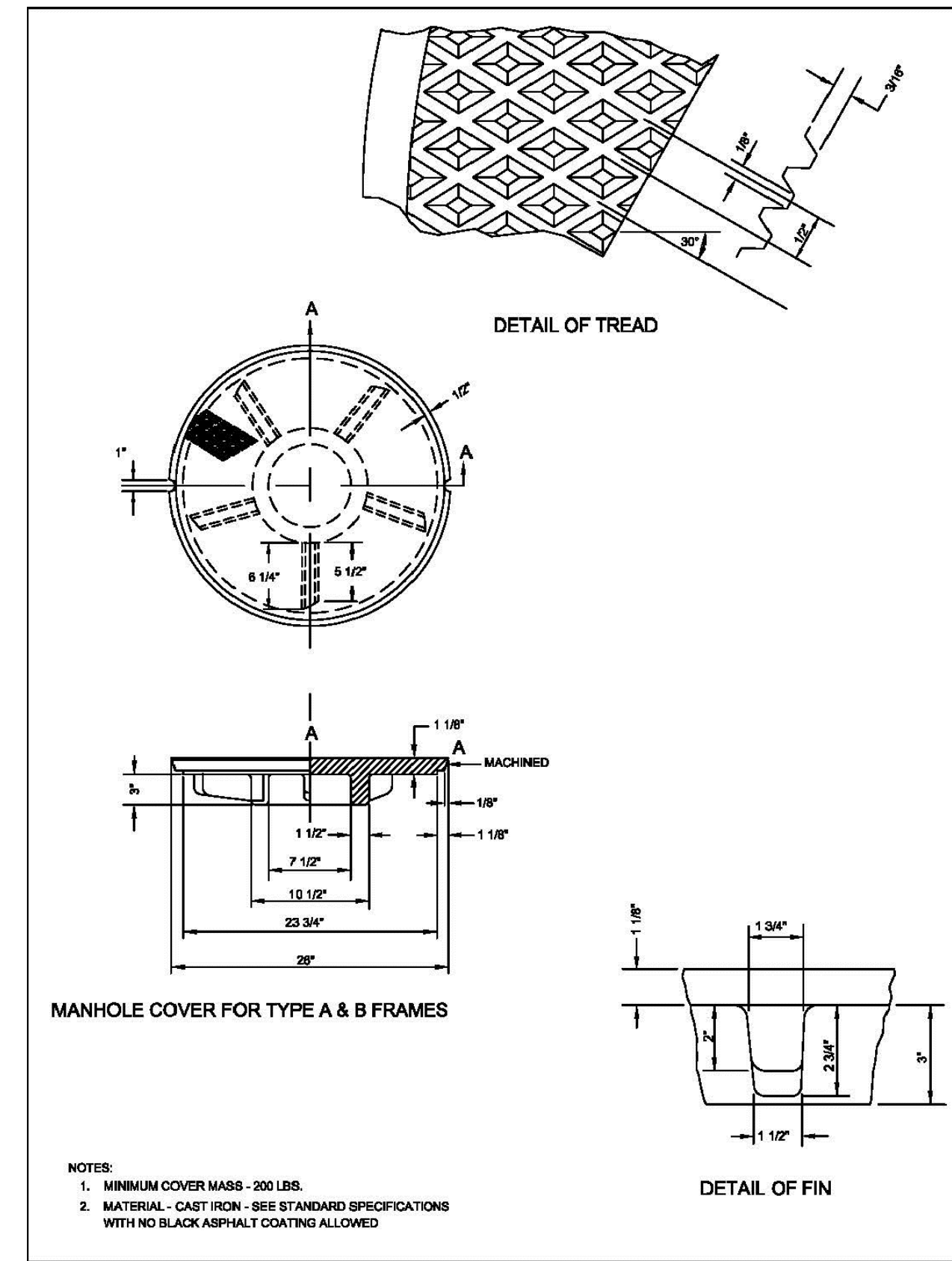
DRAWING:  
**C-14**



**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



**MANHOLE COVER DETAIL**  
DRAWING 202.8.0 - NOT TO SCALE

**D-Series Size 1 LED Area Luminaire**

**Specifications**  
EPA: 1.01 ft (308mm)  
Length: 33" (840mm)  
Width: 13" (330mm)  
Height H1: 7'-1/2" (2286mm)  
Height H2: 3'-1/2" (1067mm)  
Weight: 27 lbs (12.2kg)

**Introduction**  
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

**Ordering Information** EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBX0

Series	LEDs	Color Temperature	Distribution	Voltage	Mounting
<b>DSX1 LED</b>	<b>Forward optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped included</b> SPA Square pole mounting WAL Wall bracket SPRIBA Square pole universal mounting adapter SPRIBA Round pole universal mounting adapter KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Retained optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped separately</b> KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Control options</b>				
	<b>Shipped installed</b>				
	<b>Other options</b>				
	<b>Finish</b>				

**POLE MOUNTED 'A' FIXTURE**

**D-Series Size 1 LED Area Luminaire**

**Specifications**  
EPA: 1.01 ft (308mm)  
Length: 33" (840mm)  
Width: 13" (330mm)  
Height H1: 7'-1/2" (2286mm)  
Height H2: 3'-1/2" (1067mm)  
Weight: 27 lbs (12.2kg)

**Introduction**  
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

**Ordering Information** EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBX0

Series	LEDs	Color Temperature	Distribution	Voltage	Mounting
<b>DSX1 LED</b>	<b>Forward optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped included</b> SPA Square pole mounting WAL Wall bracket SPRIBA Square pole universal mounting adapter SPRIBA Round pole universal mounting adapter KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Retained optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped separately</b> KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Control options</b>				
	<b>Shipped installed</b>				
	<b>Other options</b>				
	<b>Finish</b>				

**WALL MOUNTED LIGHT FIXTURE 'B'**

**ANP Lighting**

**Specifications LA401**

**LA401 LED**  
Weight: 22.5 lbs  
EPA: 1.1

**Specifications**  
Material: All parts are durable 356 cast aluminum and high strength aluminum castings. All hardware provided shall be stainless steel or zinc plated steel.  
Finish: Clear Stipple Acrylic Globe  
Fixture Mounting: Permanent Mount. Fix to mount to helen.  
Drivers: Universal voltage 120-277 in standard 0-10V, TRIAC dim and ELV dimming to 1% increments are standard for LED modules.  
See page 2 table for LED engine and drive specs, voltage and dimming protocols.  
Electrical: Approximately 12" of pull wire extends from luminaire. Additional pull wire provided for post mount arms and wall mounts.  
Finish: A polyester powder coat high quality black is electrostatically applied and baked at 425° for exceptional durability and color retention. Products undergo an intensive five-step cleaning and pre-treatment process for maximum paint adhesion.  
Maintenance: Maintenance free. Provides superior salt, humidity and UV protection. This coating reflects up to 90% more of continuous salt spray, comes with a 5-year warranty and is available in a range of finishes and glass surfaces.  
Modifications: Consult factory for custom or modified designs.

**Ordering Information** EXAMPLE: LA401 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBX0

Series	LEDs	Color Temperature	Distribution	Voltage	Mounting
<b>LA401 LED</b>	<b>Forward optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped included</b> SPA Square pole mounting WAL Wall bracket SPRIBA Square pole universal mounting adapter SPRIBA Round pole universal mounting adapter KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Retained optics</b>	30K 3000K 40K 4000K	T1S Type I Start (Automated) T2S Type II Start T3M Type III Medium T4M Type IV Medium T5M Type V Medium T6M Type VI Medium T7M Type VII Medium T8M Type VIII Medium T9M Type IX Medium T10M Type X Medium	120V 208V 240V 277V 347V 480V	<b>Shipped separately</b> KMA4 DDBX0 4" Aluminum mounting bracket adapter (spare free)
	<b>Control options</b>				
	<b>Shipped installed</b>				
	<b>Other options</b>				
	<b>Finish</b>				

**WALL MOUNTED LIGHT FIXTURE 'C'**



### WSQ LED Architectural Wall Sconce



Invented available with WSQ option only.

Catalog Number \_\_\_\_\_  
 Finish \_\_\_\_\_  
 Type \_\_\_\_\_

#### Specifications Luminaire

Height: 9.25" (235 mm)  
 Width: 18" (457 mm)  
 Depth: 9" (229 mm)  
 Weight: 17 lbs (7.7 kg)

#### Optional Back Box (BBW)

Height: 4" (102 mm)  
 Width: 5-1/2" (140 mm)  
 Depth: 1-1/2" (38 mm)

**Introduction**  
 Classic Architectural Wall Sconce with the LED technology. Long-life, maintenance-free product with typical energy savings of 80% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity. The WSQ LED is ideal for replacing existing 50-250W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

#### Ordering Information

EXAMPLE: WSQ LED P2 40K SR3 MVOULT DDBTxD

WSQLED Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (optional)
WSQLED P1	30K	502	Spot II	120V	Shipped included	SR3D	Dark Bronze
P2	40K	583	Spot II	120V	Shipped separately	SR3D	Black
P3	50K	598	Spot II	120V	Shipped separately	SR3D	Natural Aluminum
P4		300	Spot II	277V	Shipped separately	SR3D	White
		367	Spot II	277V	Shipped separately	SR3D	Sandstone
		400	Spot II	277V	Shipped separately	SR3D	Textured Sandstone

#### Emergency Battery Operation

The emergency battery backup (E20VC & E100VC) option is integral to the luminaire - no external housing required. This design provides reliable emergency operation while maintaining the aesthetics of the product. All E20VC & E100VC configurations include an independent secondary driver with an integral relay to immediately detect AC power loss.

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours from the time supply power is lost, per International Building Code, Section 1008 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 ft average and 0.1 ft minimum of the P1 power package Type IV product in emergency mode.

WSR P1 LED-40K-583 MVOULT E20VC  
 10" x 18" Dimensions  
 # and 12" Mounting Height

LITHONIA LIGHTING Commercial Outdoor One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-7201 • www.lithonia.com WSQ LED Rev. 09/15/21

### DRIVE-THOUGH CANOPY LIGHT FIXTURE 'D'

### LITHONIA LIGHTING

#### FEATURES & SPECIFICATIONS

**RETURNED FOR REPAIR** - Typical applications include corridors, lobbies, conference rooms and private offices.  
**CONSTRUCTION** - Galvanized steel mounting bracket frame; galvanized steel junction box with bottom-angled access covers and spring latches. Reflectors are attached by tension springs.  
 Vertically adjustable mounting brackets with concealed tie hangers provide 1/4" total adjustment.  
 New construction 1/2" x 3/4" and 1/2" x 1/2" knockouts for straight-through conduit runs. Capacity: 8-10 1/4" and 10 1/2" x 1/2" conduits. Load limit: 100 lbs.  
 Maximum mounting height: 12' 4" (3.8 m).  
**OPERATION** - LED on-board 3-amp 500mA LED driver minimum. 95 CR optional.  
 LED light source compatible with 4000K and 5000K.  
 General illumination lighting with 1.5 MAH and 55° cut-off beam source and source image.  
 Self-angled and/or reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.  
**ELECTRICAL** - Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 100% or 1% minimum dimming level available.  
 0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.  
 270V max. maximum wire at 60/60Hz lines.  
**LISTINGS** - Certified to US and Canadian safety standards. Wet location standard (powered ceiling). IP55 rated. ENERGY STAR certified product.  
**BUY AMERICAN** - Product with the BAA option is assembled in the USA and meets the Buy American! government procurement requirements under FAR, DFARS and DOT.  
**WARRANTY** - 5-year limited warranty. Complete warranty terms located at: www.lithonia.com/resources/usa-buy-american-conditions

Catalog Number \_\_\_\_\_  
 Notes \_\_\_\_\_  
 Type \_\_\_\_\_



**LDN4**  
 4' Open and Wall Wash LED Non-IC New Construction Downlight

Buy American  
 ETL  
 UL  
 CE

#### Ordering Information

EXAMPLE: LDN4 55/15 (0.4A) LSS MVOULT E21

Series	Color Temperature	Lumens*	Aperture/Trim Color	Finish	Voltage
LDN4 4' x 4'	2700K	55 500 lumens	104 Downlight	AR Clear	120V
	3000K	67 700 lumens	104 Wall-wash	BR Black	120V
	5000K	110 1000 lumens		LS Specular	277V
	5000K	15 1500 lumens			347V

Driver	Options
G2N 0-10V driver dimmable to 10%	SP Single Rise
G2V 0-10V driver dimmable to 1%	TRM White painted flange
E2N 0-10V eLED driver with smooth and flicker-free dimming performance down to 10%	TRM Black painted flange
E2V 0-10V eLED driver with smooth and flicker-free dimming performance down to 1%	TRM White painted flange
D10 Minimum dimming 10% driver for use with 0-10V dimming	TRM Black painted flange
D1 Minimum dimming 1% driver for use with 0-10V dimming	TRM White painted flange
E20VC Emergency battery backup, 20V Constant Power, Not Certified in CA Title 20 MARRS	TRM Black painted flange
E100VC Emergency battery backup, 100V Constant Power, Not Certified in CA Title 20 MARRS	TRM White painted flange
E20VDC Emergency battery backup, 20V Constant Power with remote test switch, 100V Constant Power, Not Certified in CA Title 20 MARRS	TRM Black painted flange
E100VDC Emergency battery backup, 100V Constant Power with remote test switch, 100V Constant Power, Not Certified in CA Title 20 MARRS	TRM White painted flange
WPP100 Emergency battery backup, 100V Constant Power with remote test switch, Certified in CA Title 20 MARRS	TRM Black painted flange
WPP200 Emergency battery backup, 200V Constant Power with remote test switch, Certified in CA Title 20 MARRS	TRM White painted flange

**Notes**  
 1. Overall height varies based on luminaire package; refers to dimensional chart in spec.  
 2. Not available with finishes.  
 3. Not available with emergency options.  
 4. Must specify voltage 120V or 277V.  
 5. 12" depth of ground depth for access required for battery pack maintenance.  
 6. Available with Clear (AR) reflector only.  
 7. Specify voltage. EPR for use with generator supply (SP power) will require an emergency battery pack and manual test button.  
 8. Fixture begins at 80% light level. Must be specified with WPP100 or WPP200. Only available with 120V and 277V drivers.  
 9. Not available with CP, WPP100, WPP200, WPP100, WPP200 or 100 options.  
 10. NEMA2, NEMA3A and NEMA3B not recommended for metal ceiling installations.  
 11. Fixture height is 5 1/4" for all luminaire packages with 100V battery pack option.  
 12. Must specify 100V or 277V. Not available with 100V emergency battery pack option.  
 13. Must specify 100V or 277V. Not available with 100V emergency battery pack option.  
 14. Not for use with emergency backup power systems other than battery packs.  
 15. Fixture height is 5 1/4" for all luminaire packages with 100V battery pack option.

LITHONIA LIGHTING LDN4

### CANOPY LIGHT FIXTURE 'E'

DATE	BY	DESCRIPTION
01/09/2021	SPM	FOR MUNICIPAL SUBMISSION

NOT APPROVED FOR CONSTRUCTION

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

SITE PLAN SET

**FIDC 163 LLC**  
 PROPOSED PHARMACY WITH  
 DRIVE-THRU

BLOCK 5B3, LOT 50  
 290 CENTRAL STREET  
 TOWN OF WINCHENDON  
 WORCESTER COUNTY, MASSACHUSETTS

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

**STONEFIELD**  
 engineering & design

SCALE: AS SHOWN PROJECT ID: BOS-210033

TITLE:  
**CONSTRUCTION  
 DETAILS**

DRAWING:  
**C-16**