

CONSTRUCTION DOCUMENT PLANS

FOR

IMPROVEMENTS TO MILLBURY DOWNTOWN PHASE 2

ELM STREET FROM RIVER STREET TO MUNICIPAL LOT

Project No. 2022-02

TOWN OF Millbury, MASSACHUSETTS

PREPARED FOR:

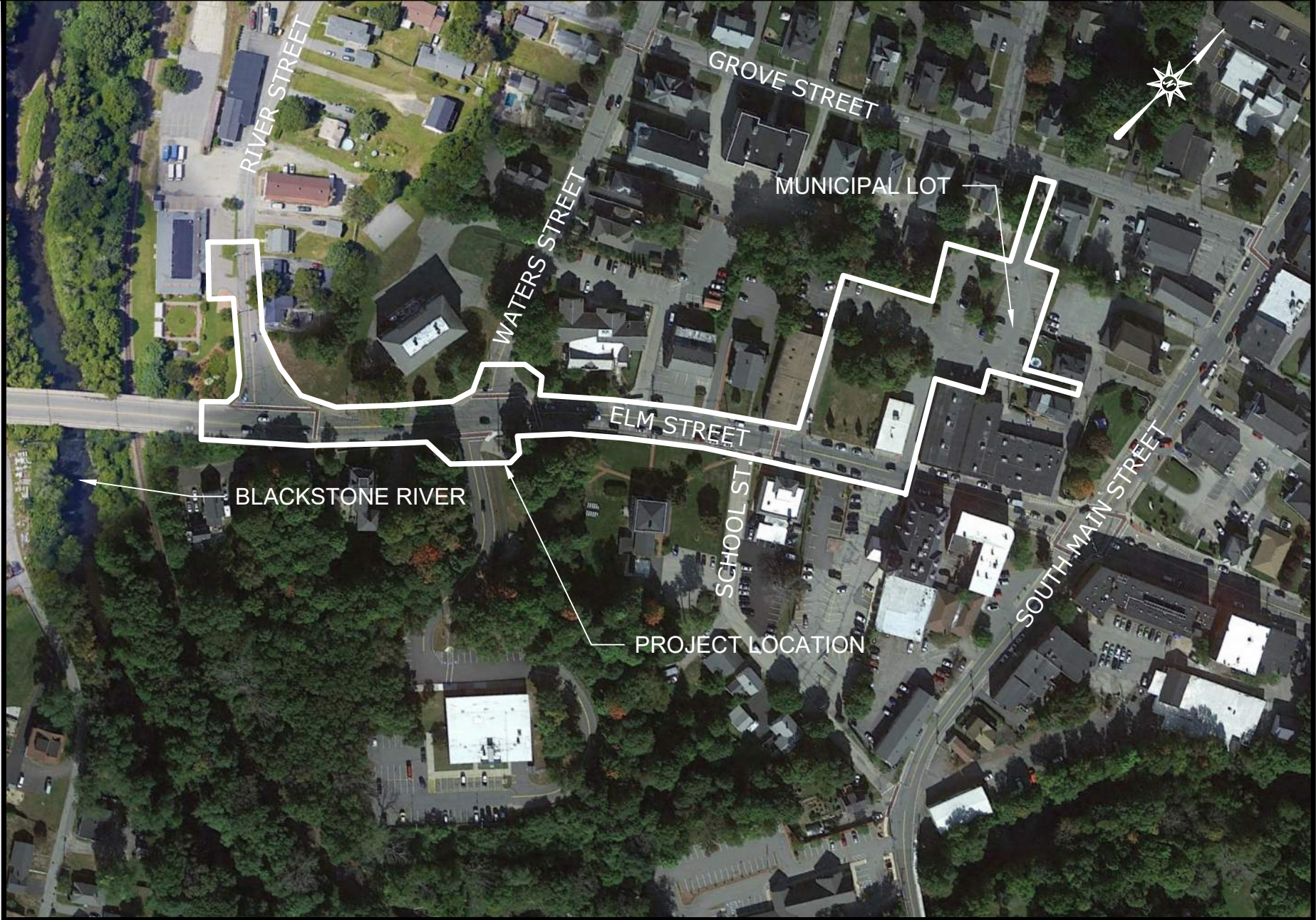
TOWN OF MILLBURY MASSACHUSETTS
Elm Street
Millbury, Massachusetts 01572

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYNG

220 Norwood Park South
NORWOOD, MASSACHUSETTS, 02062
(781) 619-9500



VICINITY MAP

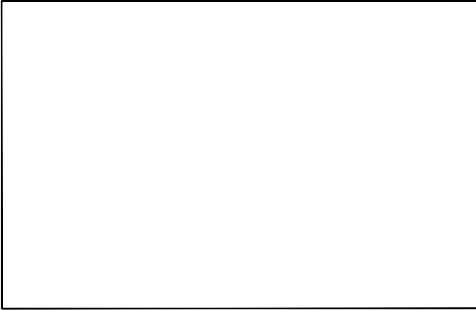
SCALE: 1"=200'

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ENGINEER

PER _____
NICHOLAS R. GIARDINA, P.E.
MA PROFESSIONAL ENGINEER NO. 52085



DATE _____

TOWN MANAGER

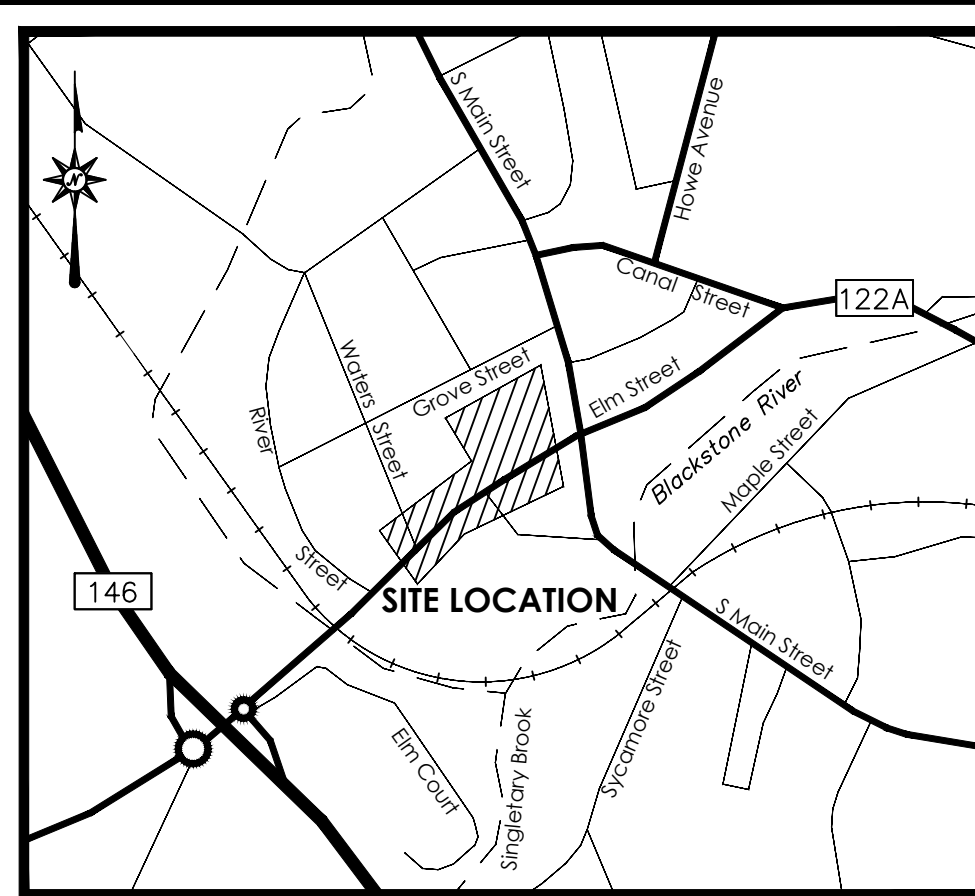
PER _____

DATE _____

DATES

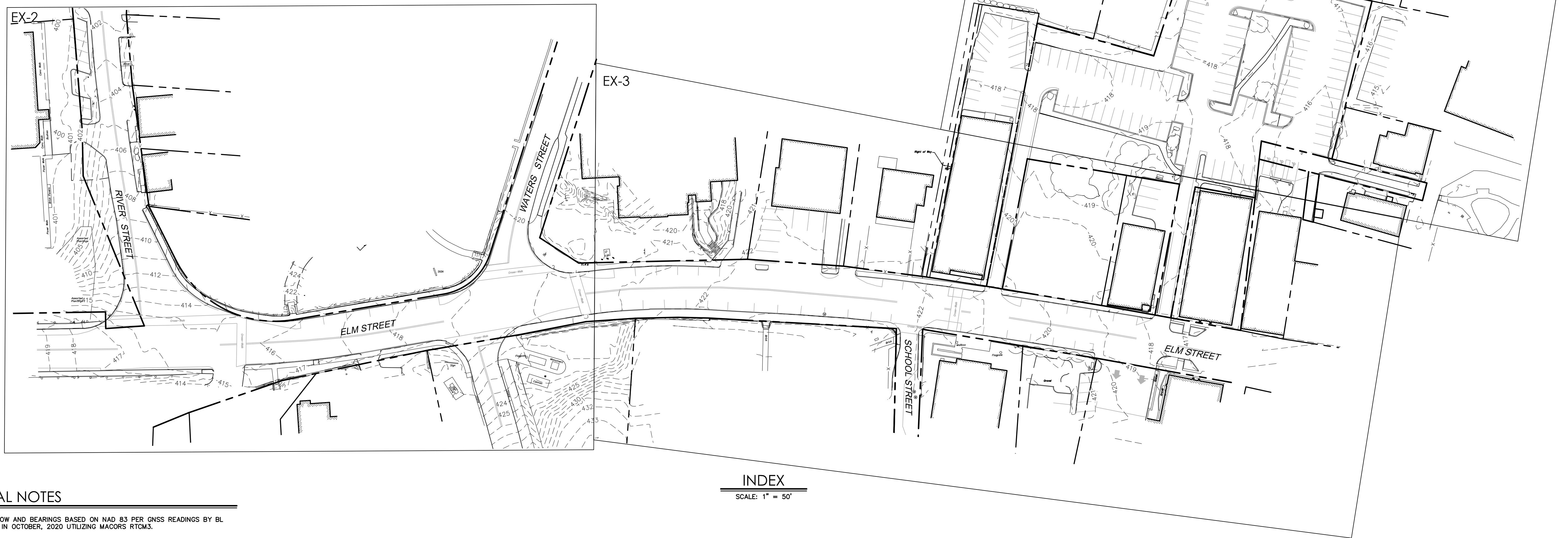
ISSUE DATE: February xx, 2022
REVISION:

TS-01



LOCATION MAP
NOT TO SCALE

LEGEND			
	Apparent Property Line		Handhole
	Easement Line		Electric Meter
	Setback Line		Utility Pole
	Treeline		Utility Pole w/ Light
	Brushline		Light Pole
	Major Contour		Bollard Light
	Minor Contour		Gas Valve
	Stone Wall		Cleanout
	Retaining Wall		Catch Basin
	Guide Rail		Manhole
	Fence		Fire Hydrant
	Overhead Wires		Water Valve
	Underground Electric Line		Water Meter
	Gas Line		Valve - Utility Type Unknown
	Sanitary Sewer		Sign
	Storm Sewer		Bollard
	Underground Telecommunications Line		Handicap Symbol
	Water Line		Monitoring Well
			Shrub
			Deciduous Tree
			Coniferous Tree



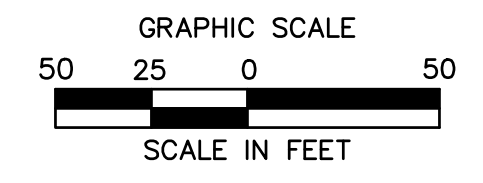
INDEX
SCALE: 1" = 50'

- GENERAL NOTES**
1. NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GNSS READINGS BY BL COMPANIES IN OCTOBER, 2020 UTILIZING MACORS RTCM3.
 2. ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GNSS READINGS BY BL COMPANIES IN OCTOBER, 2020 UTILIZING MACORS RTCM3.
 3. PROPERTY IS LOCATED IN FLOOD HAZARD AREA X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEPICTED ON F.I.R.M. MAP NUMBER 25027C0806, PANEL 809 OF 1075, EFFECTIVE DATE: JULY 4, 2011.
 4. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.

SHEET NOTE

1. SEE SHEET EX-2 FOR MAP REFERENCES.

THIS SURVEY WAS PREPARED DURING THE COVID-19 PANDEMIC OF 2020-2021 AT WHICH TIME PHYSICAL ACCESS TO THE LOCAL LAND RECORDS AND OTHER MUNICIPAL OFFICES HAS NOT BEEN AVAILABLE. AS A RESULT, THIS SURVEY HAS BEEN BASED ON TITLE RESEARCH DERIVED FROM ON-LINE RECORDS AND OTHER SOURCES AND IS SUBJECT TO THE RESULTS OF A PROPER TITLE SEARCH.



I CERTIFY THAT THE PROPERTY LINES SHOWN HEREON ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

DATE: _____ SIGNED: JENNIFER MARKS P.L.S. #38712



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

REVISIONS	
No.	Date

Surveyed: T.N., J.W., H.T.
 Drawn: P.J.C.
 Reviewed: P.J.C.
 Scale: 1"=50'
 Project No.: 2001478
 Date: 01/08/2021
 Field Book: 543
 CAD File:

EXISTING CONDITIONS MAP

Sheet No. 1 of 4

EX-1

REVISIONS	Date	Desc.
No.		

Surveyed	T.N.J.W.,H.T.
Drawn	T.N.
Reviewed	P.J.C.
Scale	1"=20'
Project No.	2001478
Date	01/08/2021
Field Book	543
CAD File:	0104.dwg

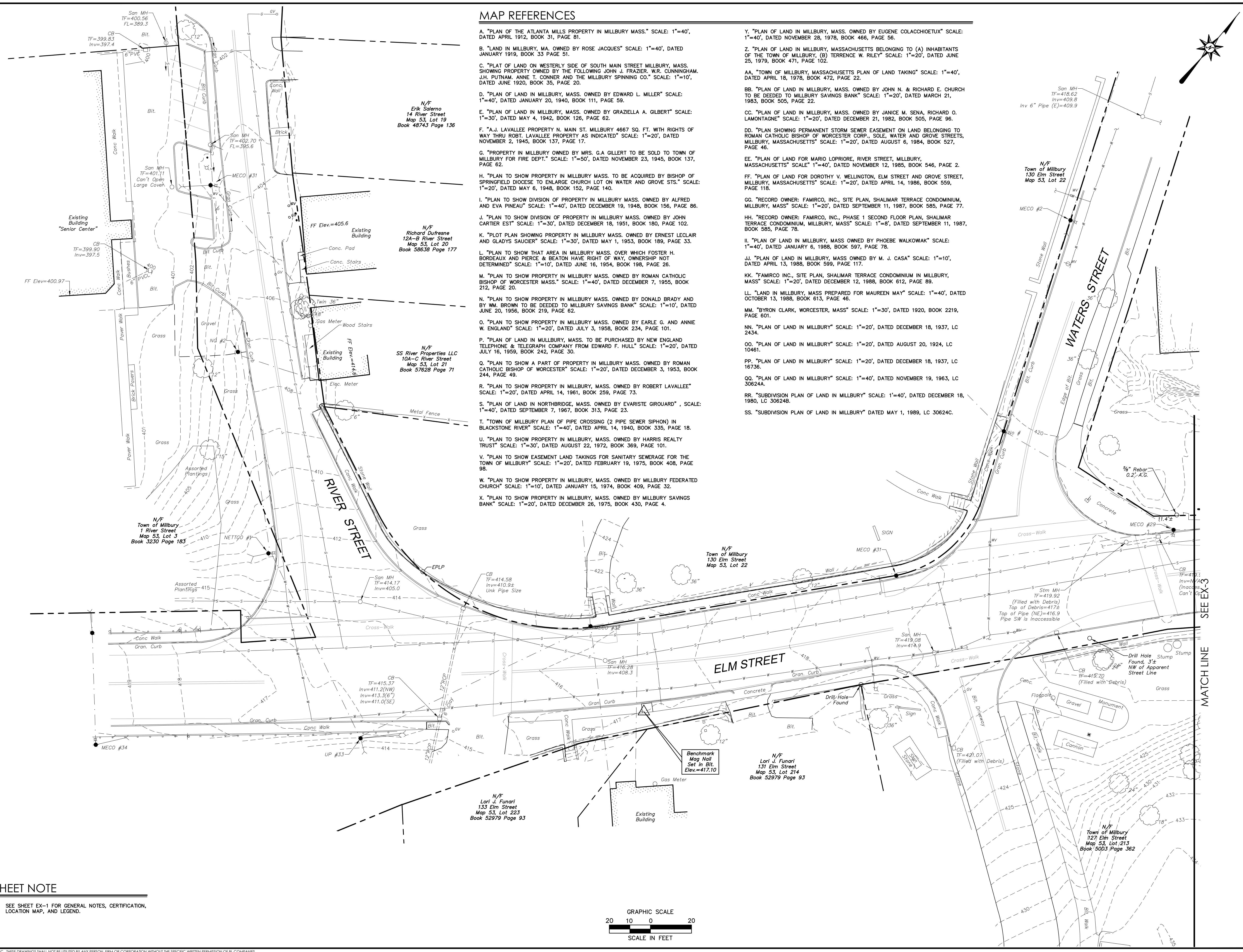
Title
EXISTING CONDITIONS MAP

Sheet No. 2 of 4

EX-2

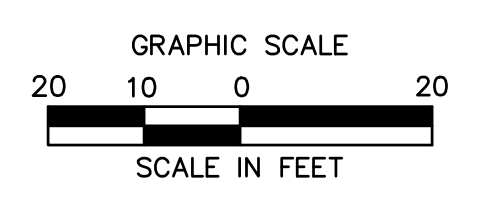
MAP REFERENCES

- A. "PLAN OF THE ATLANTA MILLS PROPERTY IN MILLBURY MASS." SCALE: 1"=40', DATED APRIL 1912, BOOK 31, PAGE 81.
- B. "LAND IN MILLBURY, MA. OWNED BY ROSE JACQUES" SCALE: 1"=40', DATED JANUARY 1919, BOOK 33 PAGE 51.
- C. "PLAT OF LAND ON WESTERLY SIDE OF SOUTH MAIN STREET MILLBURY, MASS. SHOWING PROPERTY OWNED BY THE FOLLOWING JOHN J. FRAZIER, W.R. CUNNINGHAM, J.H. PUTNAM, ANNE T. CONNER AND THE MILLBURY SPINNING CO." SCALE: 1"=10', DATED JUNE 1920, BOOK 35, PAGE 20.
- D. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY EDWARD L. MILLER" SCALE: 1"=40', DATED JANUARY 20, 1940, BOOK 111, PAGE 59.
- E. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY GRAZIELLA A. GILBERT" SCALE: 1"=30', DATED MAY 4, 1942, BOOK 126, PAGE 62.
- F. "A.J. LAVALLEE PROPERTY N. MAIN ST. MILLBURY 4667 SQ. FT. WITH RIGHTS OF WAY THRU ROBT. LAVALLEE PROPERTY AS INDICATED" SCALE: 1"=20', DATED NOVEMBER 2, 1945, BOOK 137, PAGE 17.
- G. "PROPERTY IN MILLBURY OWNED BY MRS. G.A. GILLERT TO BE SOLD TO TOWN OF MILLBURY FOR FIRE DEPT." SCALE: 1"=50', DATED NOVEMBER 23, 1945, BOOK 137, PAGE 62.
- H. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. TO BE ACQUIRED BY BISHOP OF SPRINGFIELD DIOCESE TO ENLARGE CHURCH LOT ON WATER AND GROVE STS." SCALE: 1"=20', DATED MAY 6, 1948, BOOK 152, PAGE 140.
- I. "PLAN TO SHOW DIVISION OF PROPERTY IN MILLBURY MASS. OWNED BY ALFRED AND EVA PINEAU" SCALE: 1"=40', DATED DECEMBER 19, 1948, BOOK 156, PAGE 86.
- J. "PLAN TO SHOW DIVISION OF PROPERTY IN MILLBURY MASS. OWNED BY JOHN CARTIER EST" SCALE: 1"=30', DATED DECEMBER 18, 1951, BOOK 180, PAGE 102.
- K. "PLOT PLAN SHOWING PROPERTY IN MILLBURY MASS. OWNED BY ERNEST LECLAIR AND GLADYS SAUCIER" SCALE: 1"=30', DATED MAY 1, 1953, BOOK 189, PAGE 33.
- L. "PLAN TO SHOW THAT AREA IN MILLBURY MASS. OVER WHICH FOSTER H. BORDEAUX AND PIERCE & BEATON HAVE RIGHT OF WAY, OWNERSHIP NOT DETERMINED" SCALE: 1"=10', DATED JUNE 16, 1954, BOOK 198, PAGE 26.
- M. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY ROMAN CATHOLIC BISHOP OF WORCESTER MASS." SCALE: 1"=40', DATED DECEMBER 7, 1955, BOOK 212, PAGE 20.
- N. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY DONALD BRADY AND BY WM. BROWN TO BE DEEDED TO MILLBURY SAVINGS BANK" SCALE: 1"=10', DATED JUNE 20, 1956, BOOK 219, PAGE 62.
- O. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY EARLE G. AND ANNIE W. ENGLAND" SCALE: 1"=20', DATED JULY 3, 1958, BOOK 234, PAGE 101.
- P. "PLAN OF LAND IN MILLBURY, MASS. TO BE PURCHASED BY NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY FROM EDWARD F. HULL" SCALE: 1"=20', DATED JULY 16, 1959, BOOK 242, PAGE 30.
- Q. "PLAN TO SHOW A PART OF PROPERTY IN MILLBURY MASS. OWNED BY ROMAN CATHOLIC BISHOP OF WORCESTER" SCALE: 1"=20', DATED DECEMBER 3, 1953, BOOK 244, PAGE 49.
- R. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY ROBERT LAVALLEE" SCALE: 1"=20', DATED APRIL 14, 1961, BOOK 259, PAGE 73.
- S. "PLAN OF LAND IN NORTHBRIDGE, MASS. OWNED BY EVARISTE GIROUARD", SCALE: 1"=40', DATED SEPTEMBER 7, 1967, BOOK 313, PAGE 23.
- T. "TOWN OF MILLBURY PLAN OF PIPE CROSSING (2 PIPE SEWER SIPHON) IN BLACKSTONE RIVER" SCALE: 1"=40', DATED APRIL 14, 1940, BOOK 335, PAGE 18.
- U. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY HARRIS REALTY TRUST" SCALE: 1"=30', DATED AUGUST 22, 1972, BOOK 369, PAGE 101.
- V. "PLAN TO SHOW EASEMENT LAND TAKINGS FOR SANITARY SEWERAGE FOR THE TOWN OF MILLBURY" SCALE: 1"=20', DATED FEBRUARY 19, 1975, BOOK 408, PAGE 98.
- W. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY MILLBURY FEDERATED CHURCH" SCALE: 1"=10', DATED JANUARY 15, 1974, BOOK 409, PAGE 32.
- X. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY MILLBURY SAVINGS BANK" SCALE: 1"=20', DATED DECEMBER 26, 1975, BOOK 430, PAGE 4.
- Y. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY EUGENE COLACCHIOETUX" SCALE: 1"=40', DATED NOVEMBER 28, 1978, BOOK 466, PAGE 56.
- Z. "PLAN OF LAND IN MILLBURY, MASSACHUSETTS BELONGING TO (A) INHABITANTS OF THE TOWN OF MILLBURY, (B) TERRENCE W. RILEY" SCALE: 1"=20', DATED JUNE 25, 1979, BOOK 471, PAGE 102.
- AA. "TOWN OF MILLBURY, MASSACHUSETTS PLAN OF LAND TAKING" SCALE: 1"=40', DATED APRIL 18, 1978, BOOK 472, PAGE 22.
- BB. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY JOHN N. & RICHARD E. CHURCH TO BE DEEDED TO MILLBURY SAVINGS BANK" SCALE: 1"=20', DATED MARCH 21, 1983, BOOK 505, PAGE 22.
- CC. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY JANICE M. SENA, RICHARD O. LAMONTAGNE" SCALE: 1"=20', DATED DECEMBER 21, 1982, BOOK 505, PAGE 96.
- DD. "PLAN SHOWING PERMANENT STORM SEWER EASEMENT ON LAND BELONGING TO ROMAN CATHOLIC BISHOP OF WORCESTER CORP., SOLE, WATER AND GROVE STREETS, MILLBURY, MASSACHUSETTS" SCALE: 1"=20', DATED AUGUST 6, 1984, BOOK 527, PAGE 46.
- EE. "PLAN OF LAND FOR MARIO LOPRIORE, RIVER STREET, MILLBURY, MASSACHUSETTS" SCALE: 1"=40', DATED NOVEMBER 12, 1985, BOOK 546, PAGE 2.
- FF. "PLAN OF LAND FOR DOROTHY V. WELLINGTON, ELM STREET AND GROVE STREET, MILLBURY, MASSACHUSETTS" SCALE: 1"=20', DATED APRIL 14, 1986, BOOK 559, PAGE 118.
- GG. "RECORD OWNER: FAMIRCO, INC., SITE PLAN, SHALIMAR TERRACE CONDOMINIUM, MILLBURY, MASS" SCALE: 1"=20', DATED SEPTEMBER 11, 1987, BOOK 585, PAGE 77.
- HH. "RECORD OWNER: FAMIRCO, INC., PHASE 1 SECOND FLOOR PLAN, SHALIMAR TERRACE CONDOMINIUM, MILLBURY, MASS" SCALE: 1"=8', DATED SEPTEMBER 11, 1987, BOOK 585, PAGE 78.
- II. "PLAN OF LAND IN MILLBURY, MASS OWNED BY PHOEBE WALKOWIAK" SCALE: 1"=40', DATED JANUARY 6, 1988, BOOK 597, PAGE 78.
- JJ. "PLAN OF LAND IN MILLBURY, MASS OWNED BY M. J. CASA" SCALE: 1"=10', DATED APRIL 13, 1988, BOOK 599, PAGE 117.
- KK. "FAMIRCO INC., SITE PLAN, SHALIMAR TERRACE CONDOMINIUM IN MILLBURY, MASS" SCALE: 1"=20', DATED DECEMBER 12, 1988, BOOK 612, PAGE 89.
- LL. "LAND IN MILLBURY, MASS PREPARED FOR MAUREEN MAY" SCALE: 1"=40', DATED OCTOBER 13, 1988, BOOK 613, PAGE 46.
- MM. "BYRON CLARK, WORCESTER, MASS" SCALE: 1"=30', DATED 1920, BOOK 2219, PAGE 601.
- NN. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED DECEMBER 18, 1937, LC 2434.
- OO. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED AUGUST 20, 1924, LC 10461.
- PP. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED DECEMBER 18, 1937, LC 16736.
- QQ. "PLAN OF LAND IN MILLBURY" SCALE: 1"=40', DATED NOVEMBER 19, 1963, LC 30624A.
- RR. "SUBDIVISION PLAN OF LAND IN MILLBURY" SCALE: 1"=40', DATED DECEMBER 18, 1980, LC 30624B.
- SS. "SUBDIVISION PLAN OF LAND IN MILLBURY" DATED MAY 1, 1989, LC 30624C.

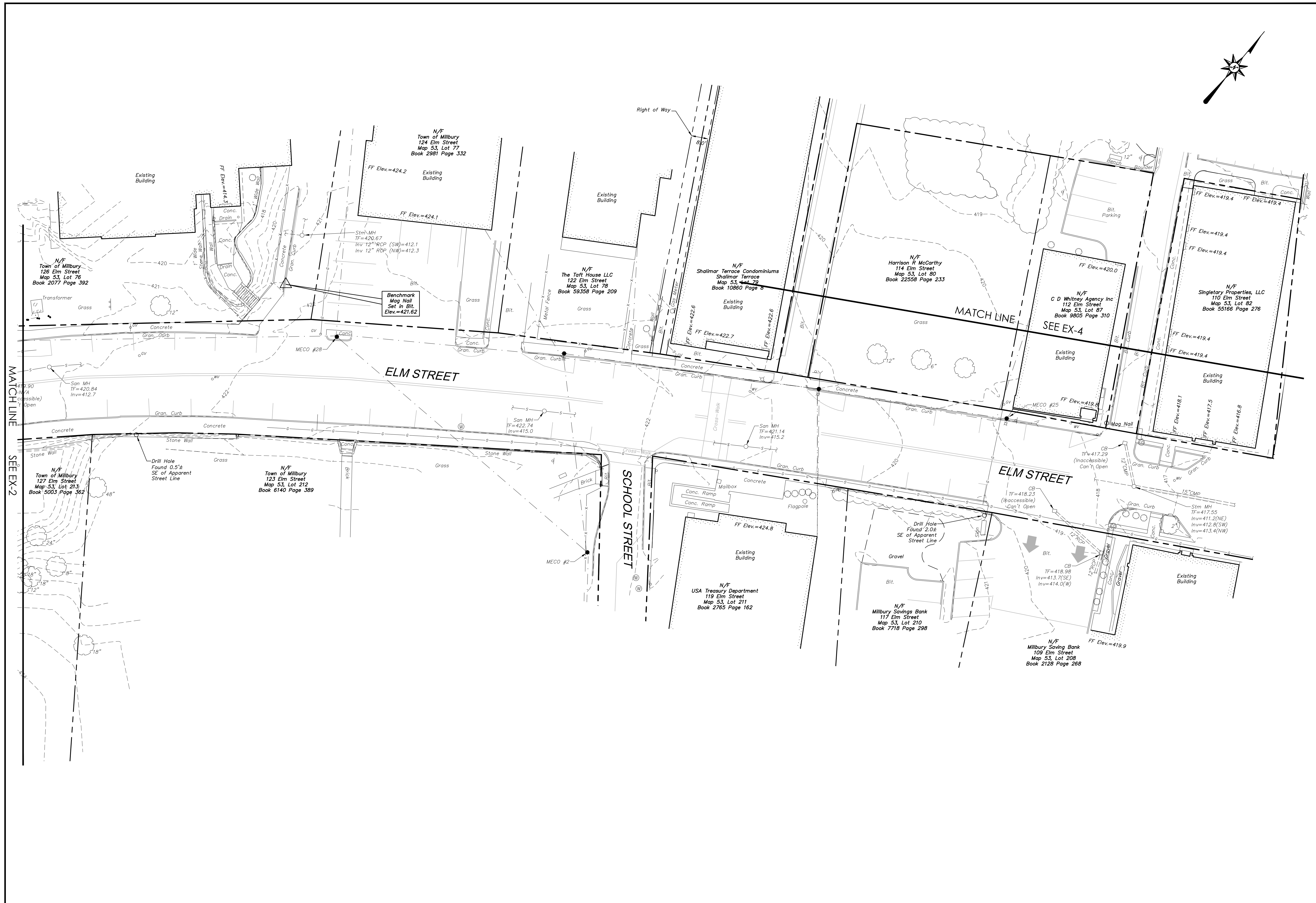
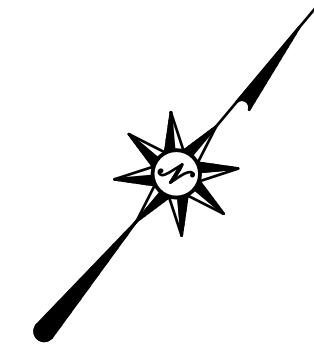


SHEET NOTE

- 1. SEE SHEET EX-1 FOR GENERAL NOTES, CERTIFICATION, LOCATION MAP, AND LEGEND.



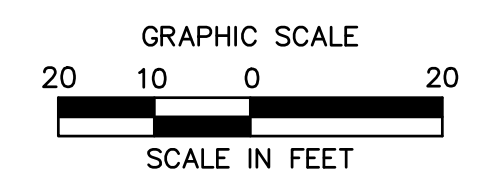
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS



MATCH LINE
SEE EX-2

MATCH LINE

SEE EX-4



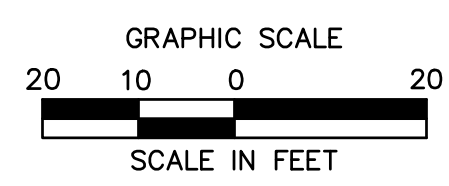
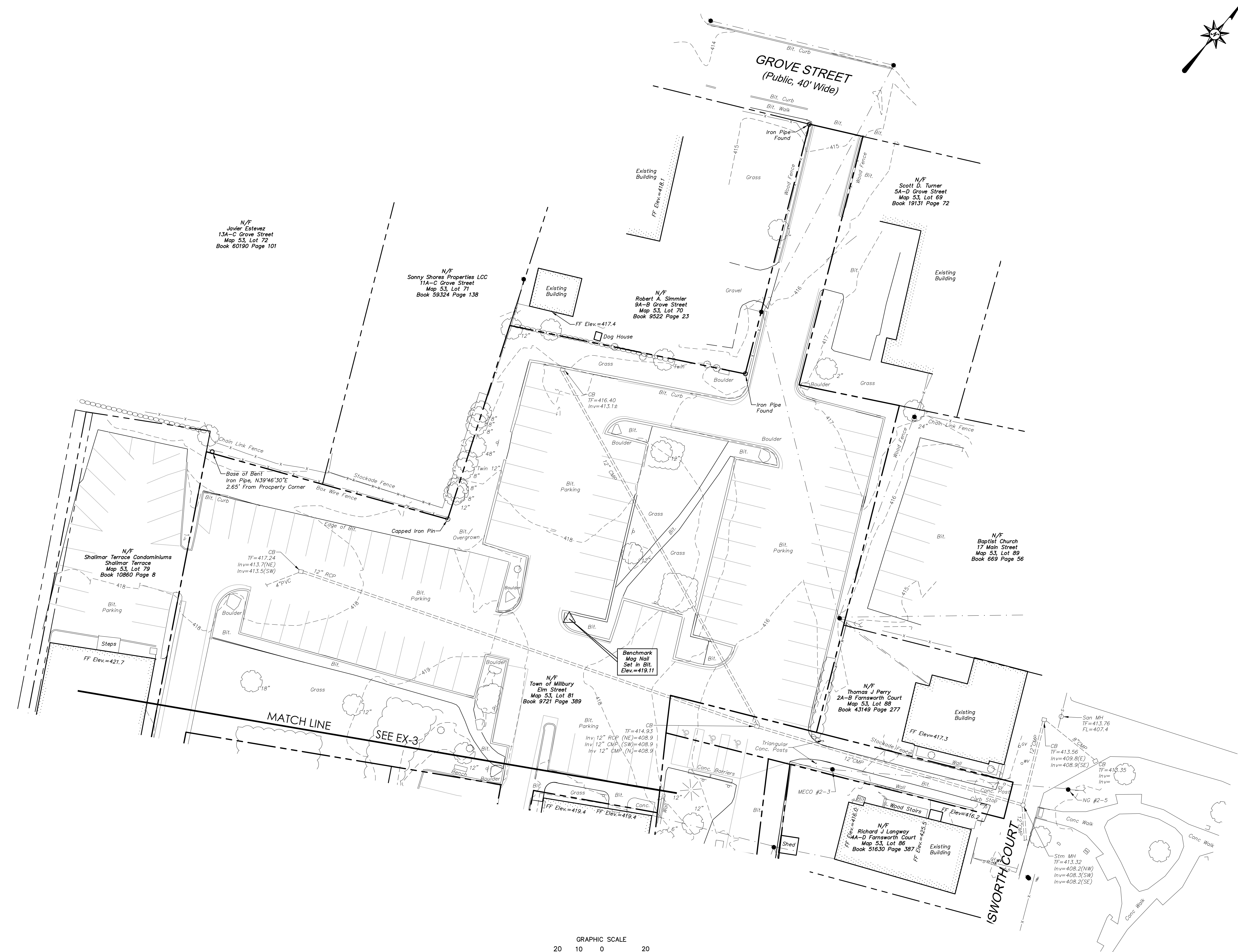
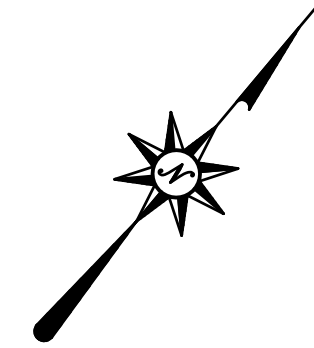
REVISIONS	Date	Desc.
No.		

Surveyed T.N., J.W., H.T.
Drawn T.N.
Reviewed P.J.C.
Scale 1"=20'
Project No. 2001478
Date 01/08/2021
Field Book 543
CAD File: [redacted]

Title
**EXISTING
CONDITIONS
MAP**

Sheet No. 3 of 4

EX-3



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

REVISIONS	Date	Drawn
No.		

Surveyed T.N., J.W., H.T.
 Drawn T.N.
 Reviewed P.J.C.
 Scale 1"=20'
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 CAD File:

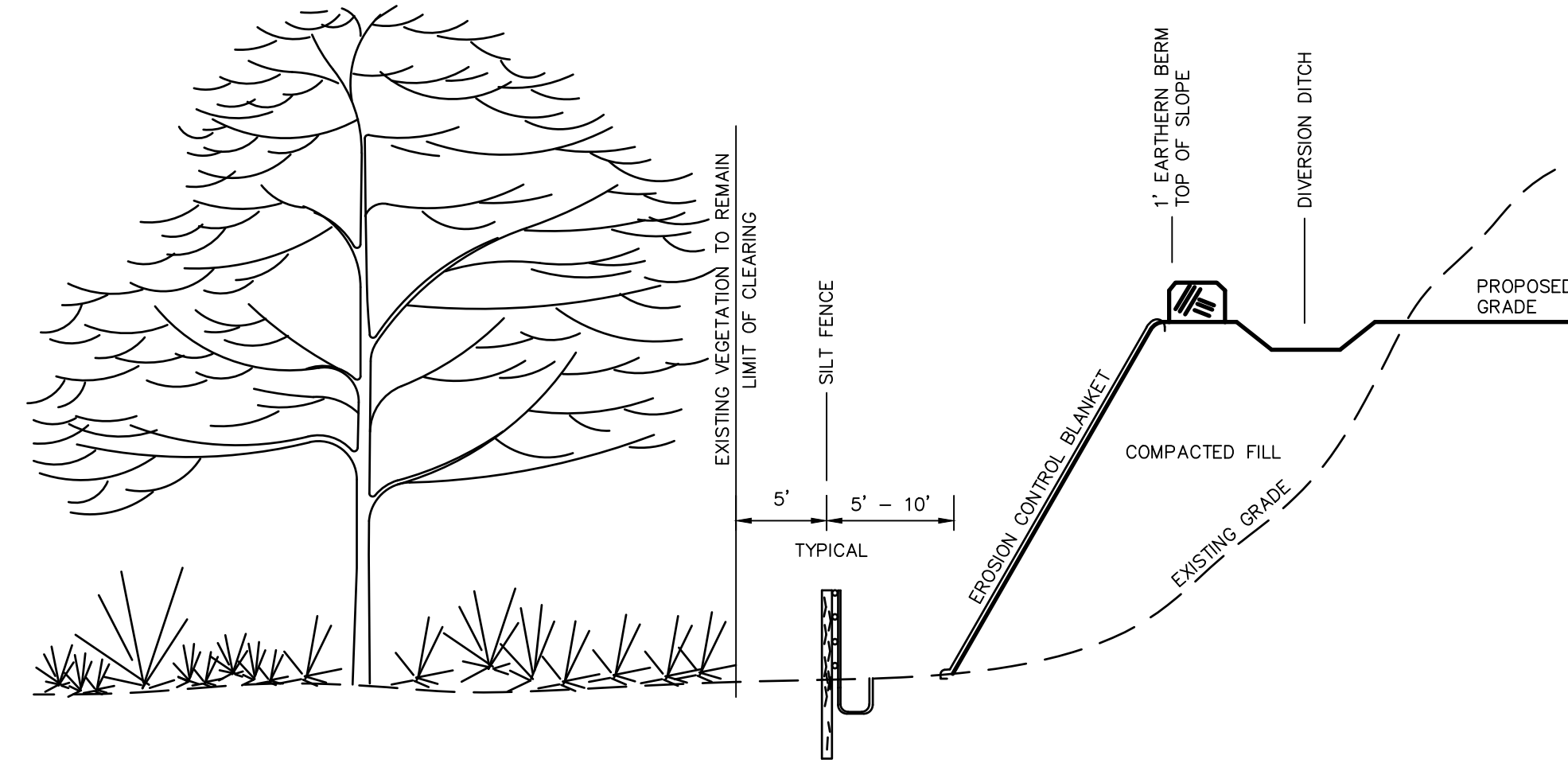
Title
**EXISTING
CONDITIONS
MAP**

Sheet No. 4 of 4

EX-4

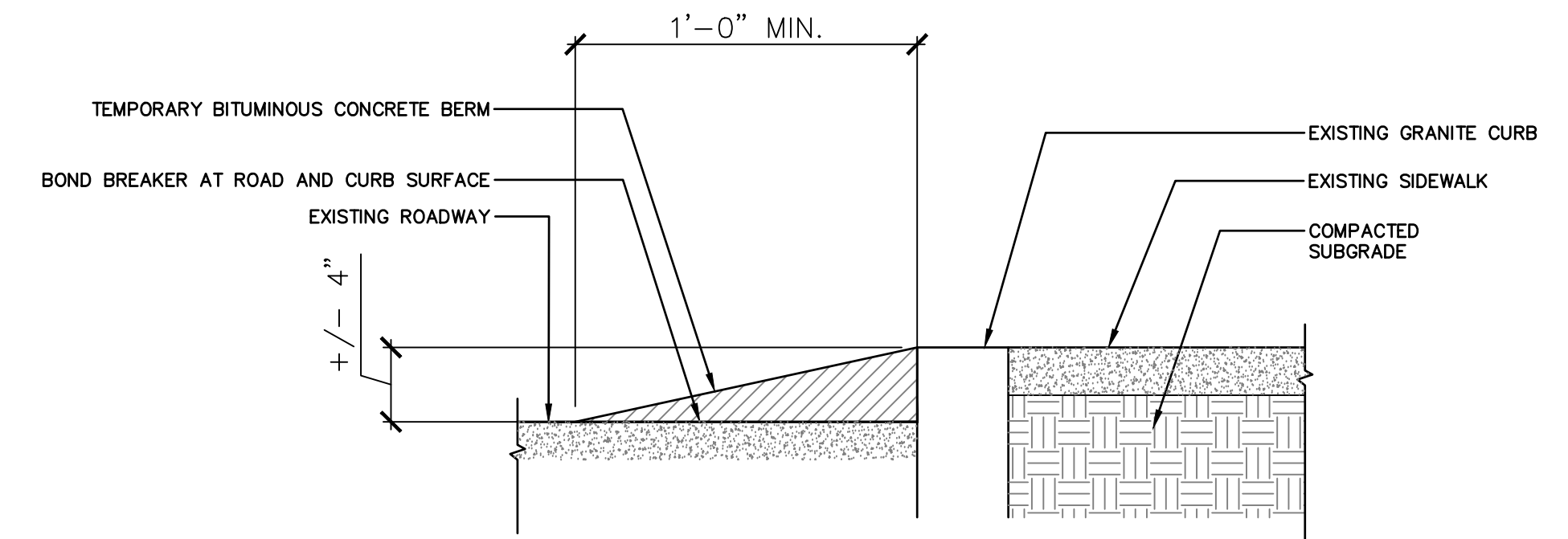
EROSION & SEDIMENT CONTROL NOTES:

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECIFICATION AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL MEET ALL THE STATE OF MASSACHUSETTS AND THE TOWN OF MILLBURY WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
- EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
- ALL CATCH BASINS AND DRAIN GRATES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.
- EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING AND DRAINAGE PLANS, NOTES, DETAILS, AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVE AND MASSACHUSETTS D.E.P. REQUIREMENTS.
- ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/ PRIVATE ROADS.
- ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE. CONTRACTOR SHALL ENSURE THAT MATERIAL HAULING VEHICLES REMAIN ON PAVED SURFACES AS MUCH AS POSSIBLE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- ANY EROSION AND SEDIMENT CONTROL MEASURES FOR THE STABILIZATION OF SLOPES ARE TEMPORARY FOR CONSTRUCTION PHASES ONLY. SEE GRADING PLAN FOR FINAL STABILIZATION OF SLOPES.
- SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
- DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSES IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
- ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAINAGE SYSTEM.
- ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED.
- AFTER SIGNIFICANT RAINFALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
- ALL STOCKPILES SHALL BE PROTECTED. STOCKPILES SHALL BE PROTECTED FROM CONTACT WITH ONSITE STORMWATER RUNOFF USING TEMPORARY PERIMETER SEDIMENT BARRIERS. A COVER (TARP) OR APPROPRIATE TEMPORARY STABILIZATION WILL BE PROVIDED TO MINIMIZE SEDIMENT DISCHARGE.
- STABILIZED PORTIONS OF A SITE SHALL BE INSPECTED AT LEAST ONCE PER MONTH.
- ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
- ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. TOPSOIL NOT NEEDED AFTER COMPLETION OF ALL FINAL TOPSOIL SPREADING AND GRASSING SHALL BE REMOVED FROM THE SITE AND LEGALLY RECYCLED OR DISPOSED OF. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
- TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.
- AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROJECT PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION.
- MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE THE MINIMUM PROVISIONS NECESSARY. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORSEEN EROSION PROBLEMS, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCES.
- A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY BL COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION CONSISTENT WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS OF THE SWPPP THROUGHOUT CONSTRUCTION.



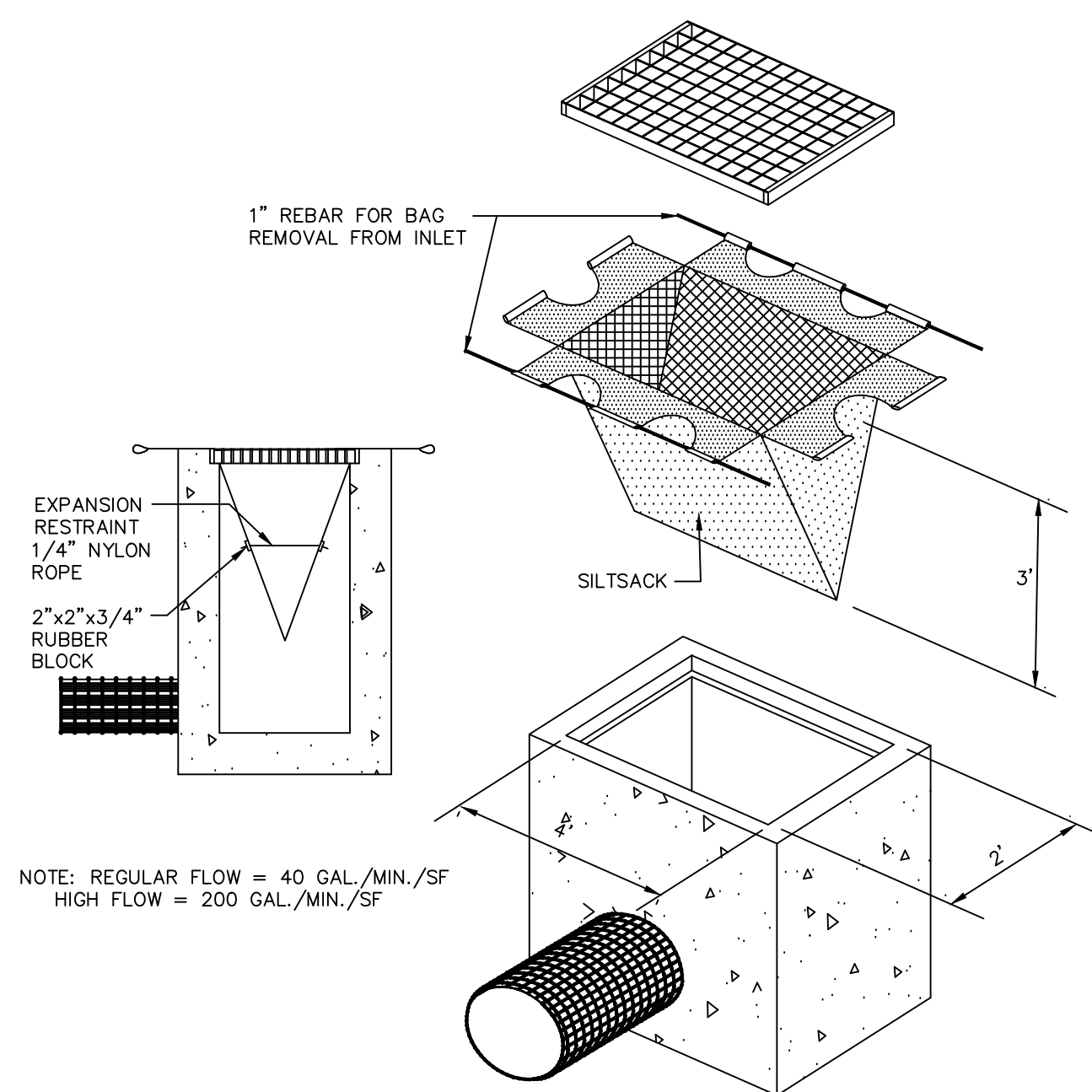
TYPICAL EROSION CONTROL ON SLOPES

N.T.S. BLEC-011



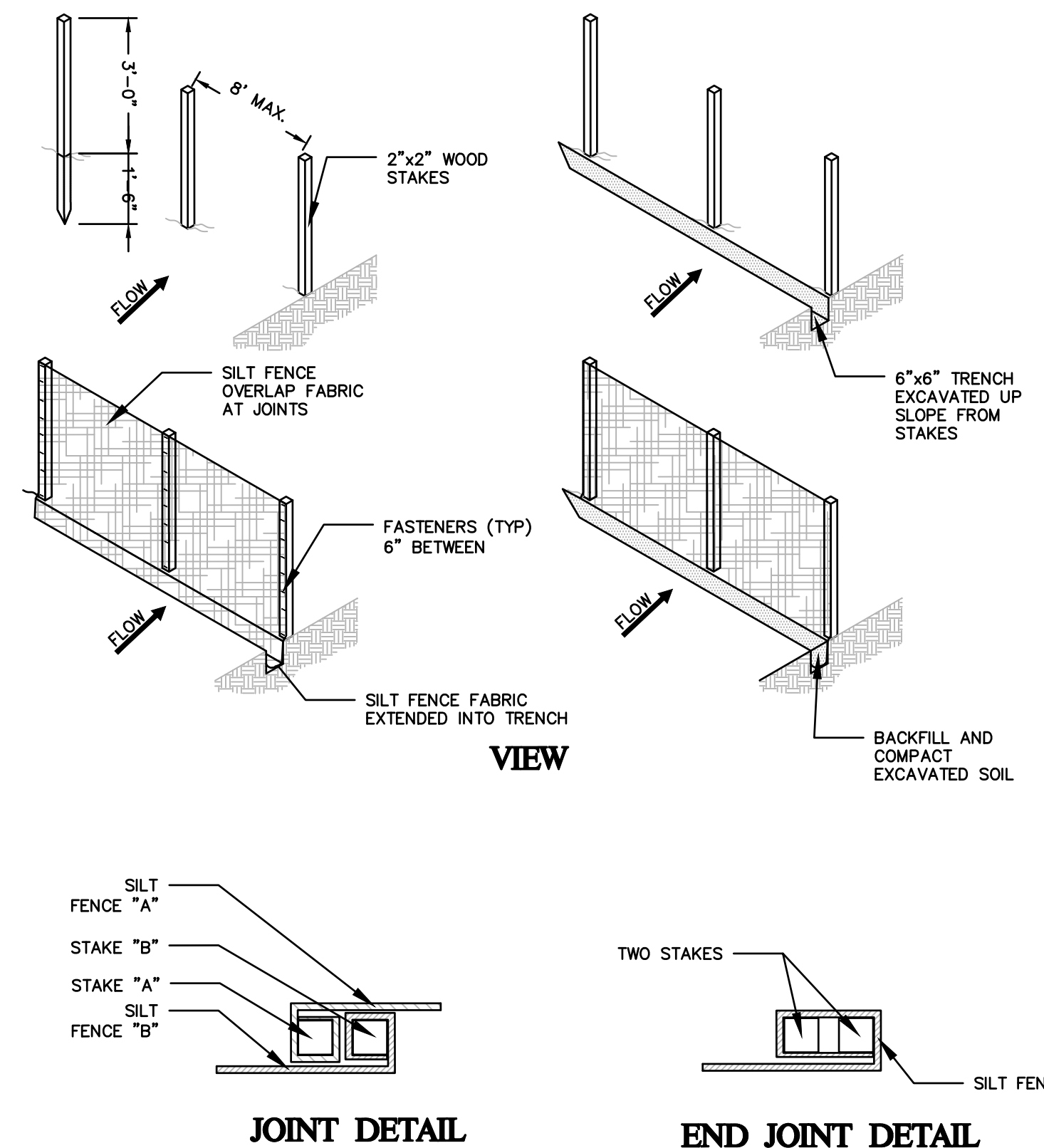
TEMPORARY MOUNTING CURB

N.T.S.



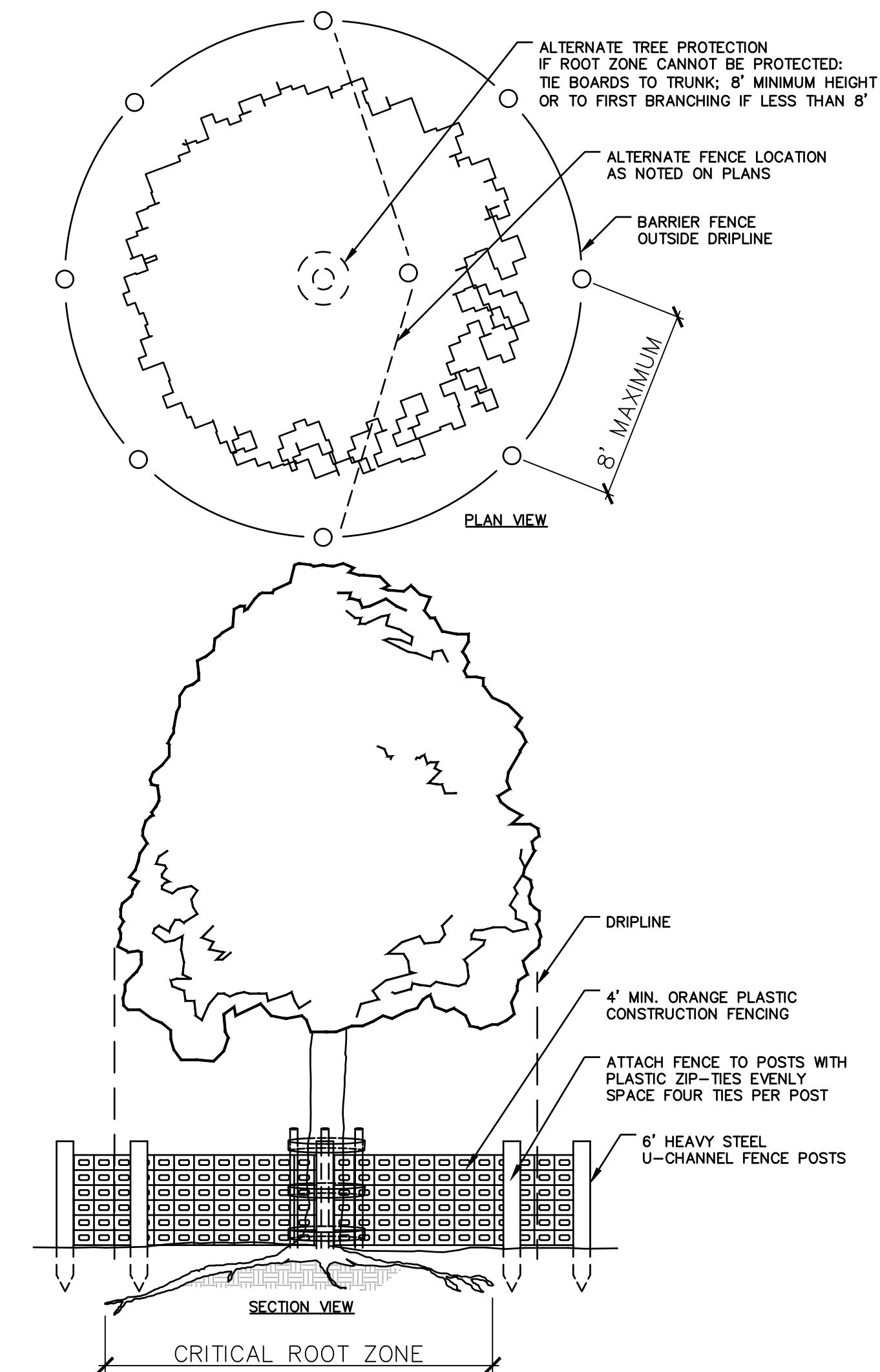
CATCH BASIN SILT SACK INSERT

N.T.S.



SILT FENCE BARRIER

N.T.S.



TREE PROTECTION

N.T.S.

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY AND PER SEDIMENT AND EROSION CONTROL NOTES. SILT FENCE SHALL BE REPLACED EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.

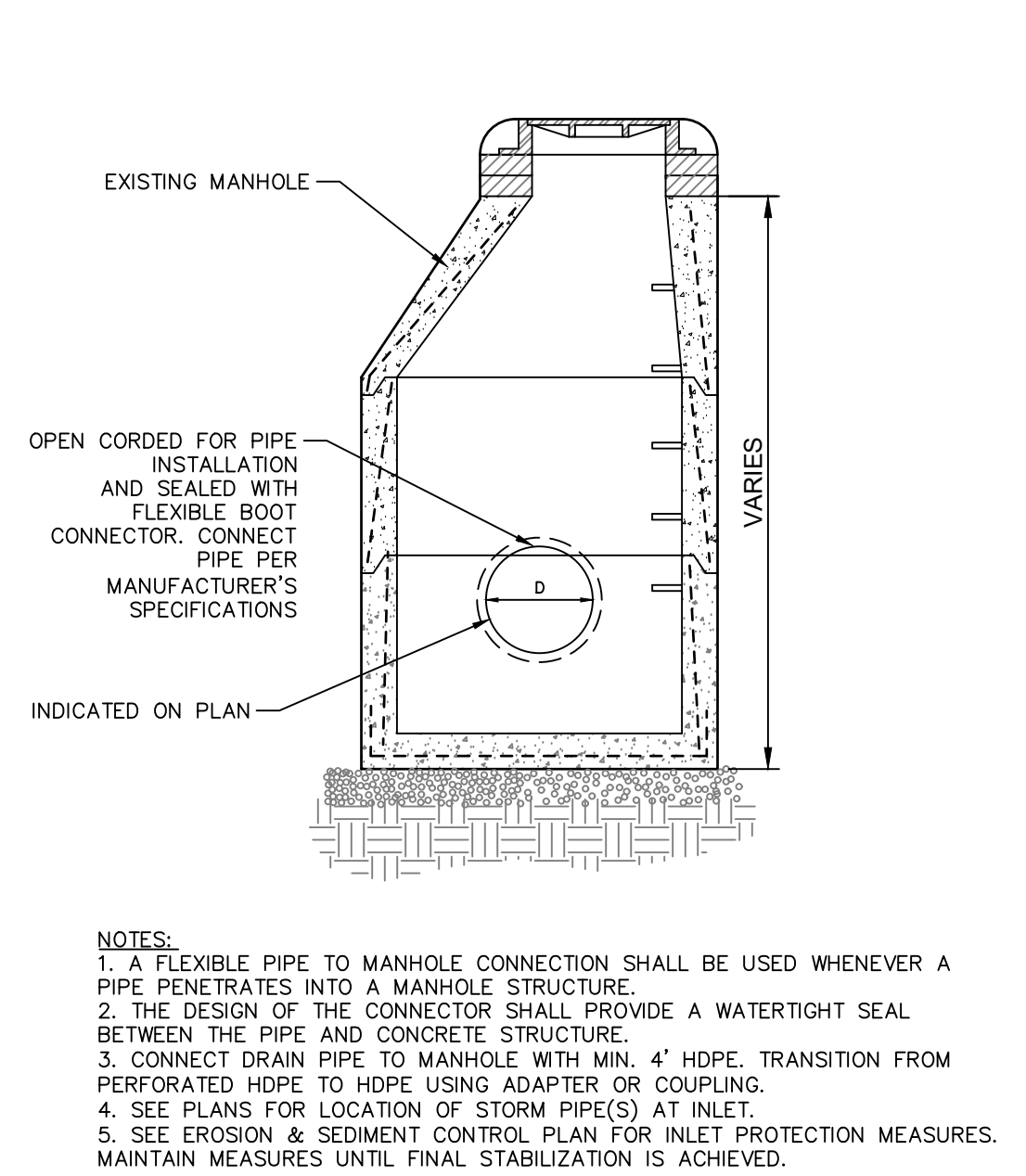
REVISIONS	Date	Desc.
No.		

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801

Title
SITE PREPARATION NOTES & DETAILS

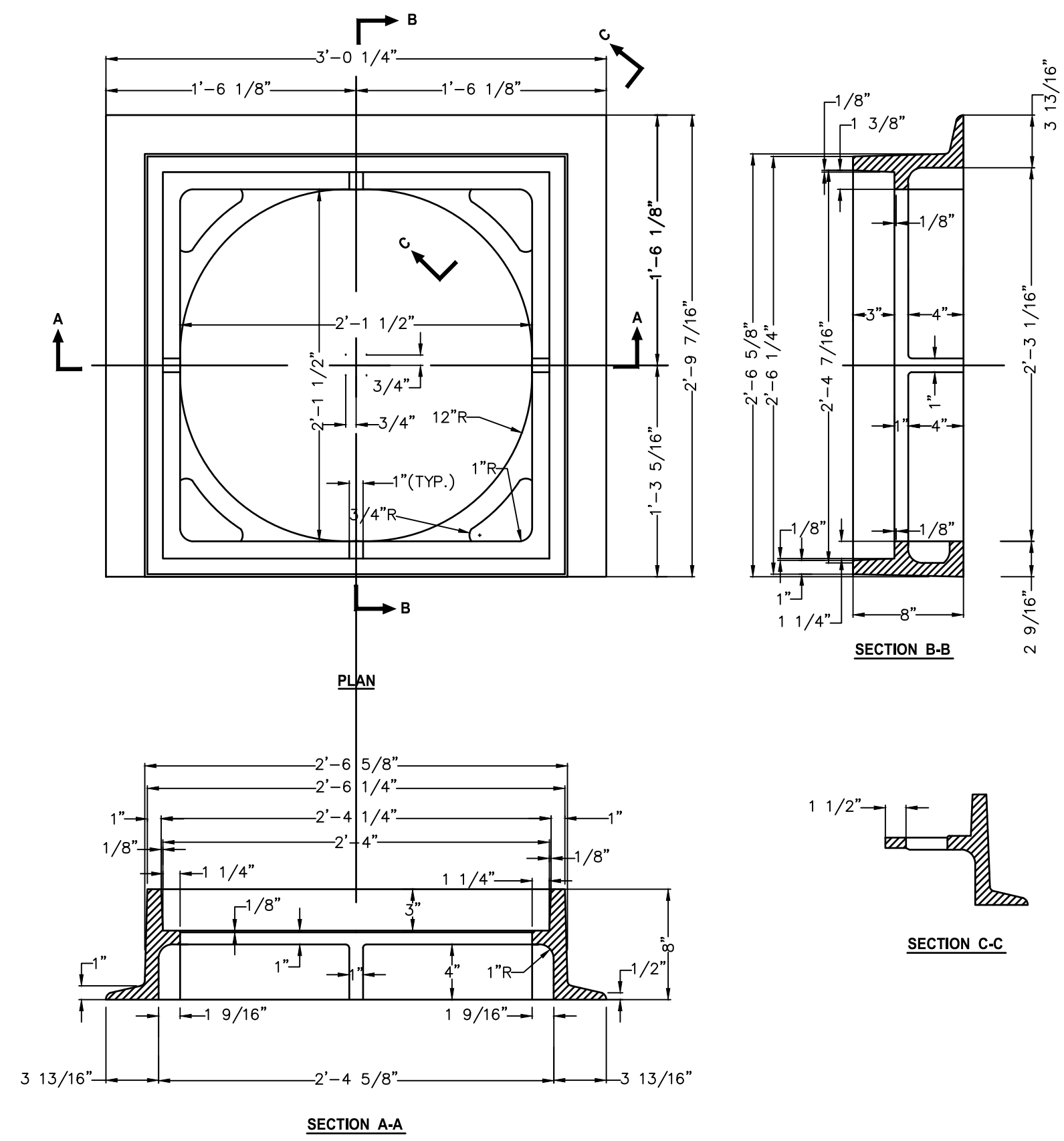
Sheet No.

DN-01



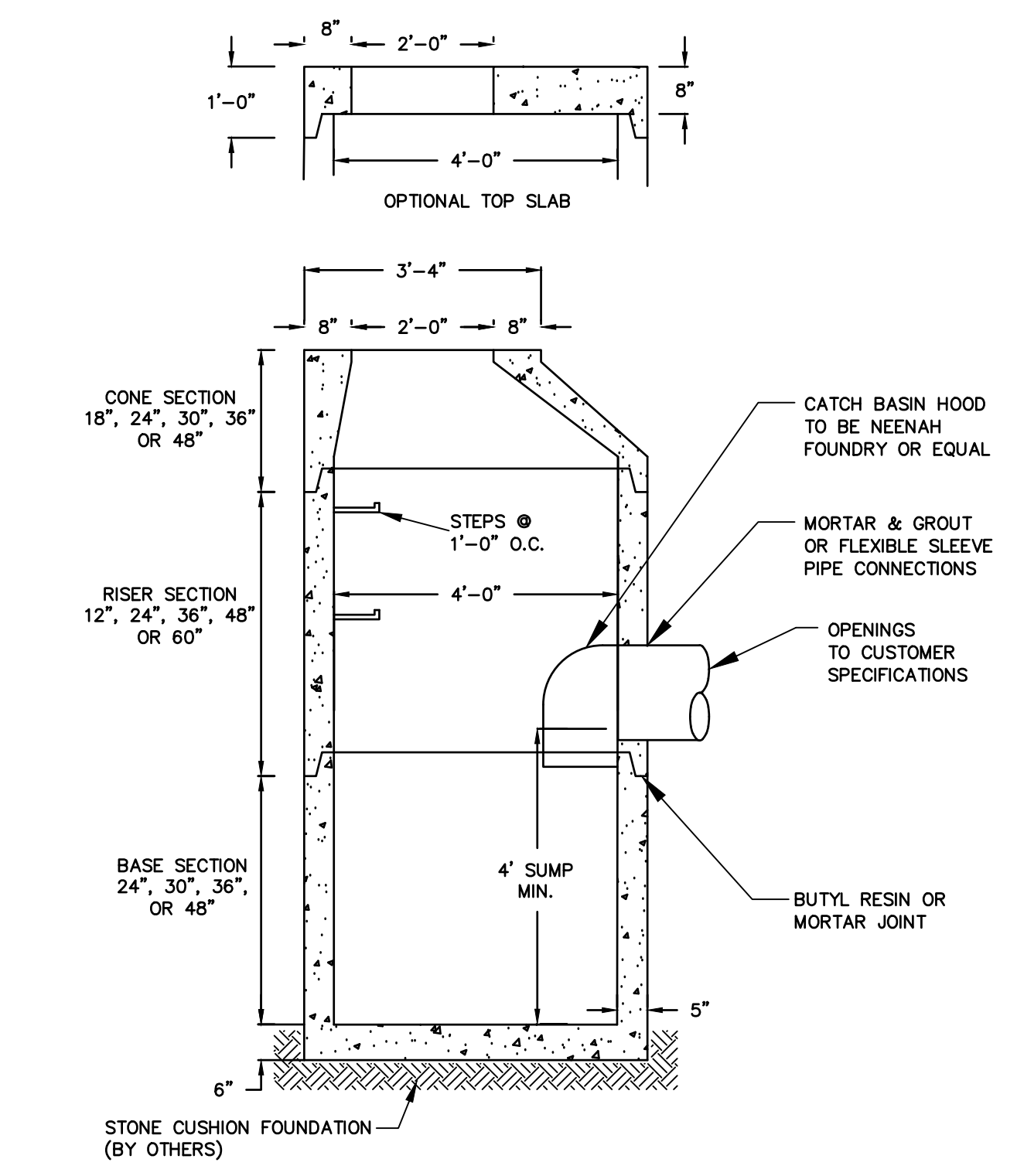
CONNECTING TO EXISTING MANHOLE

N.T.S.



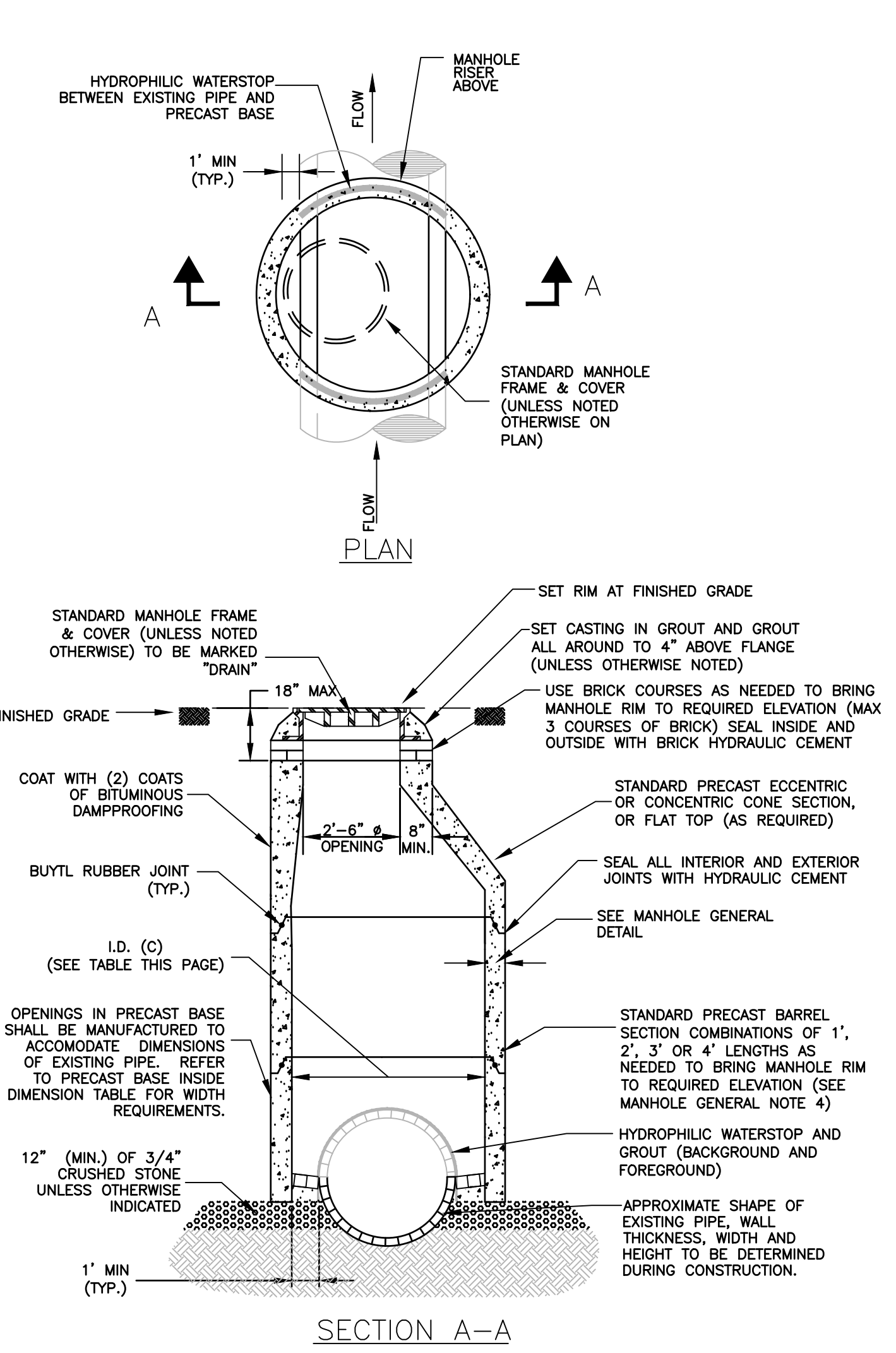
CATCH BASIN FRAME

N.T.S.



CATCH BASIN WITH HOOD

N.T.S.



DROPOVER MANHOLE OVER EXISTING PIPE

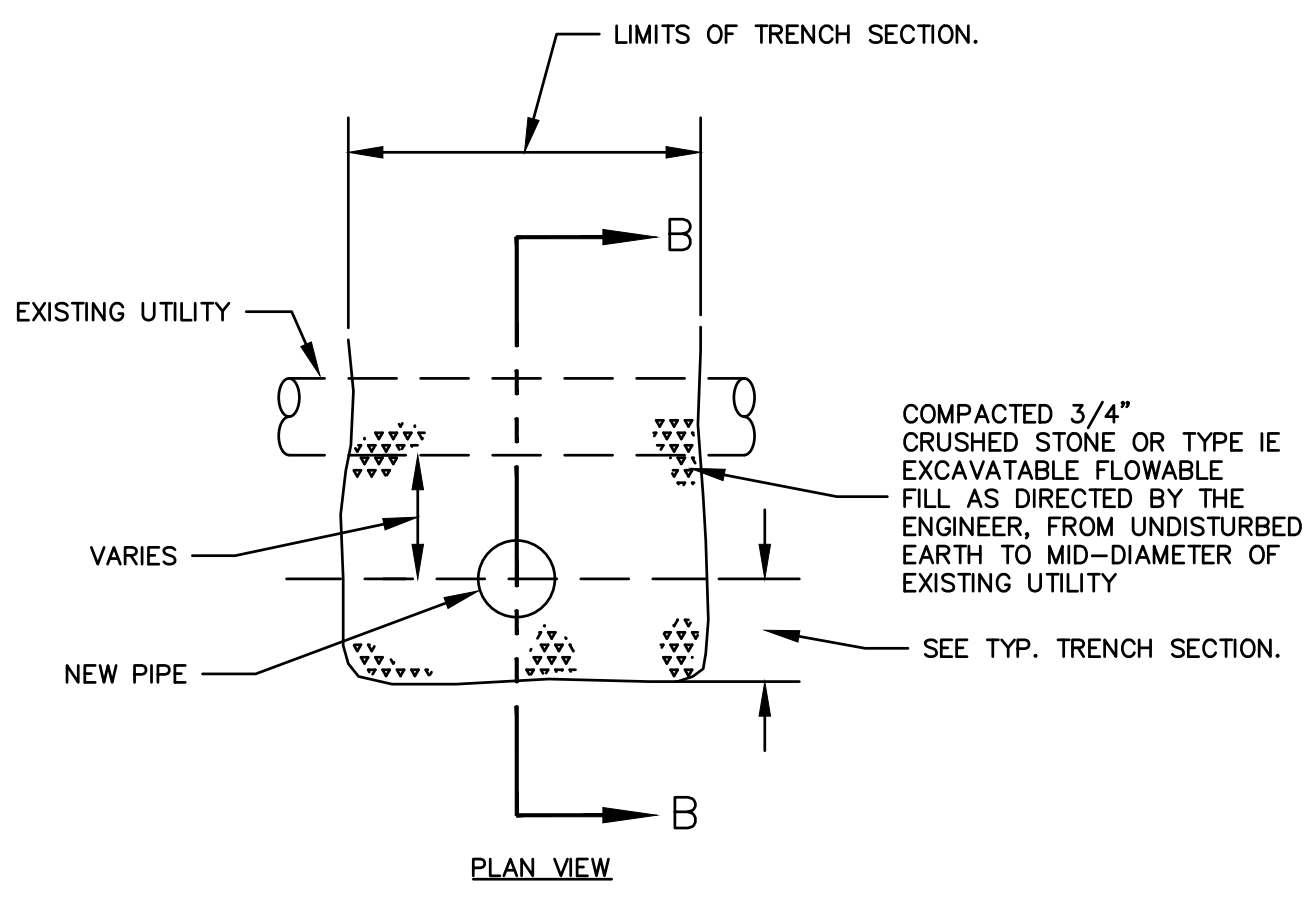
N.T.S. BLS-009

PRECAST BASE INSIDE DIMENSION TABLE

WIDTH (W)	I.D. (C)
8" TO 24"	4" Ø
27" TO 36"	5" Ø
48" TO 66"	6" Ø
66" TO 72"	8" Ø
> 72"	10" Ø

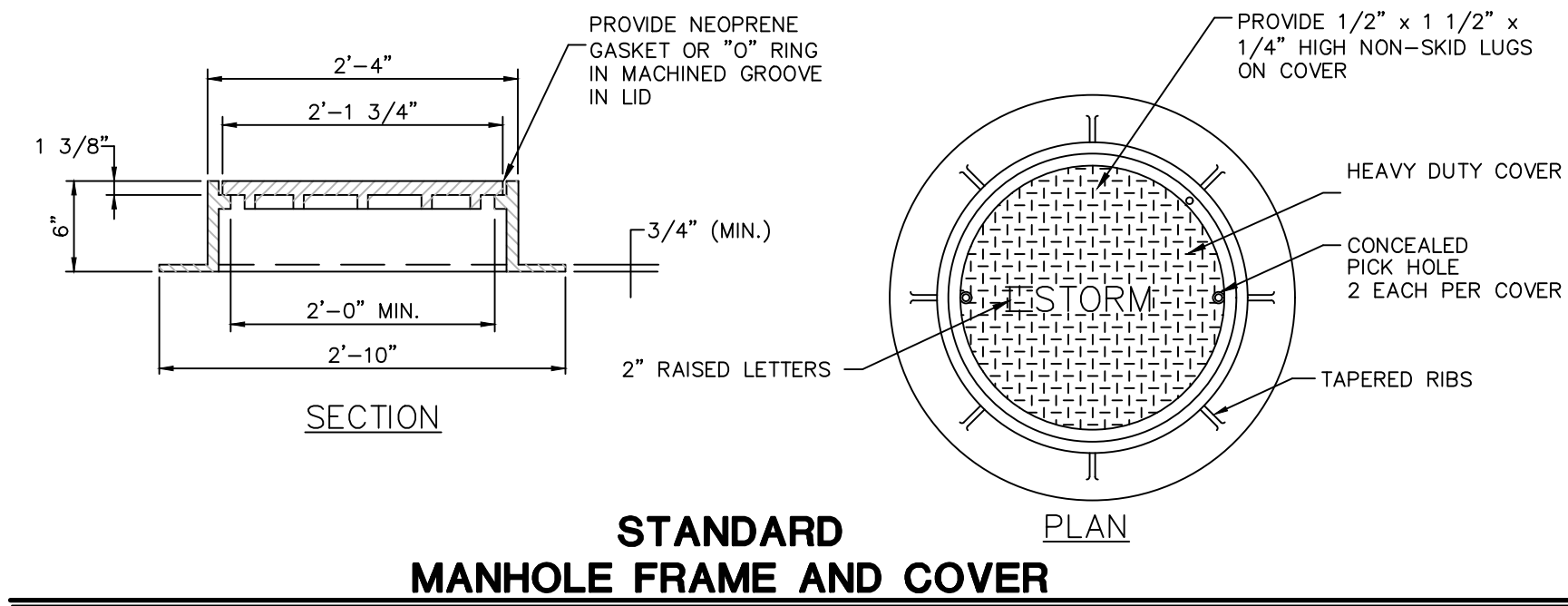
I.D. = INSIDE DIMENSION

NOTES:
1. REMOVE EXISTING PIPE TO MID-POINT WITHIN THE INSIDE OF THE PRECAST MANHOLE BASE AND CONSTRUCT THE INVERT AS SHOWN.



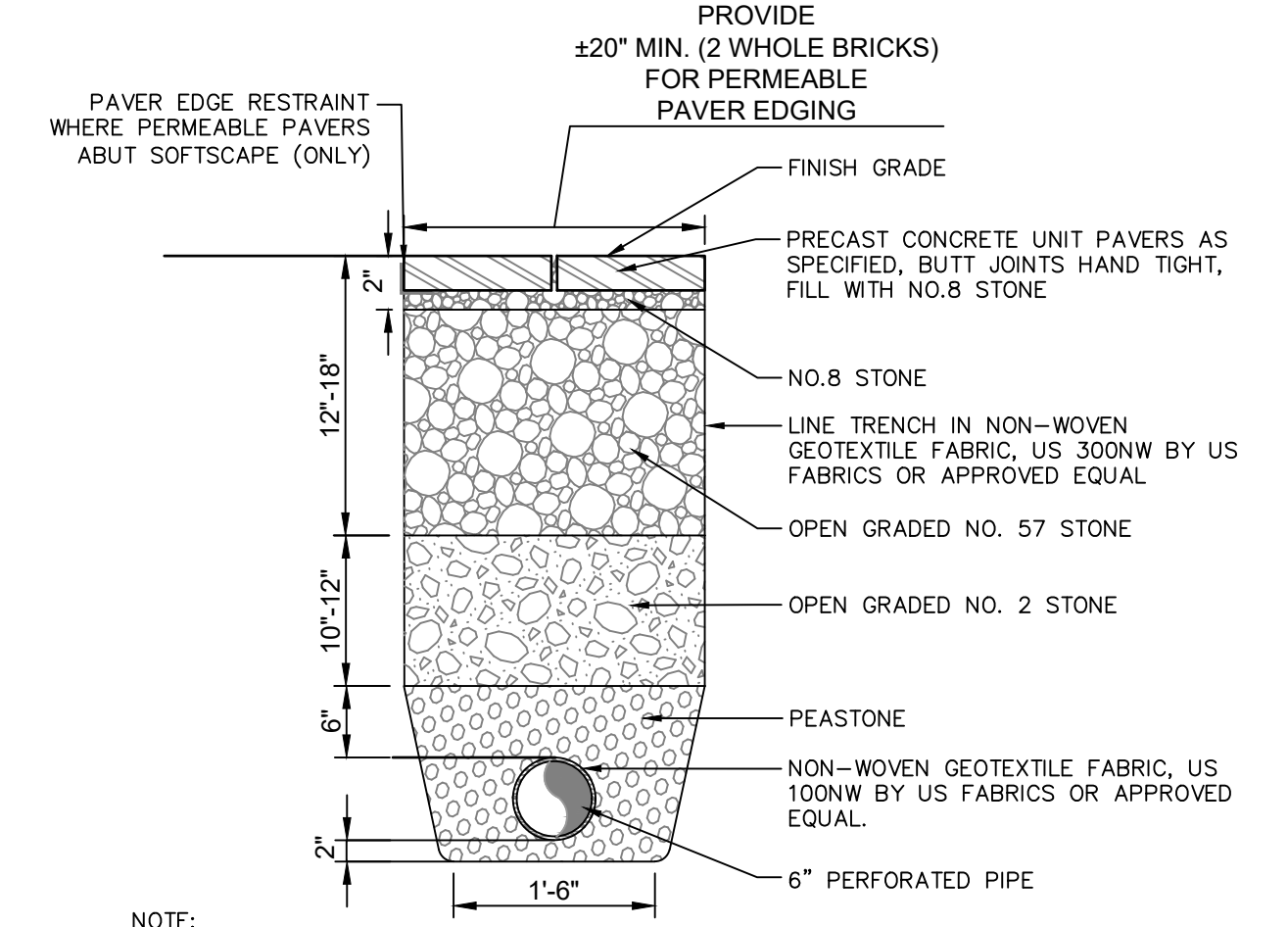
UTILITY CONFLICT

N.T.S.



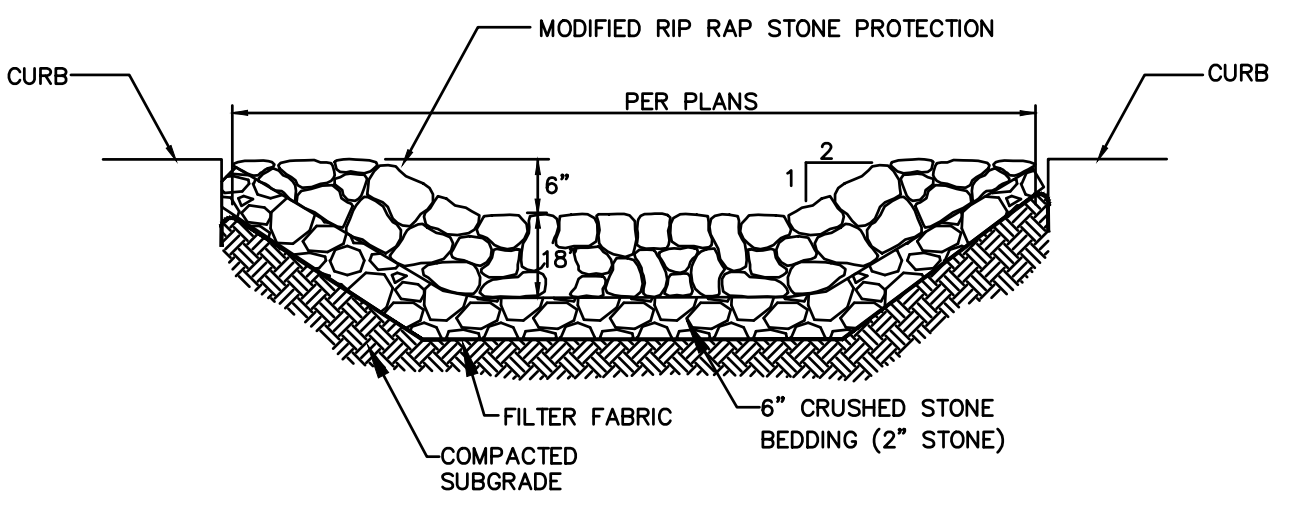
STANDARD MANHOLE FRAME AND COVER

N.T.S. RA_C202_06



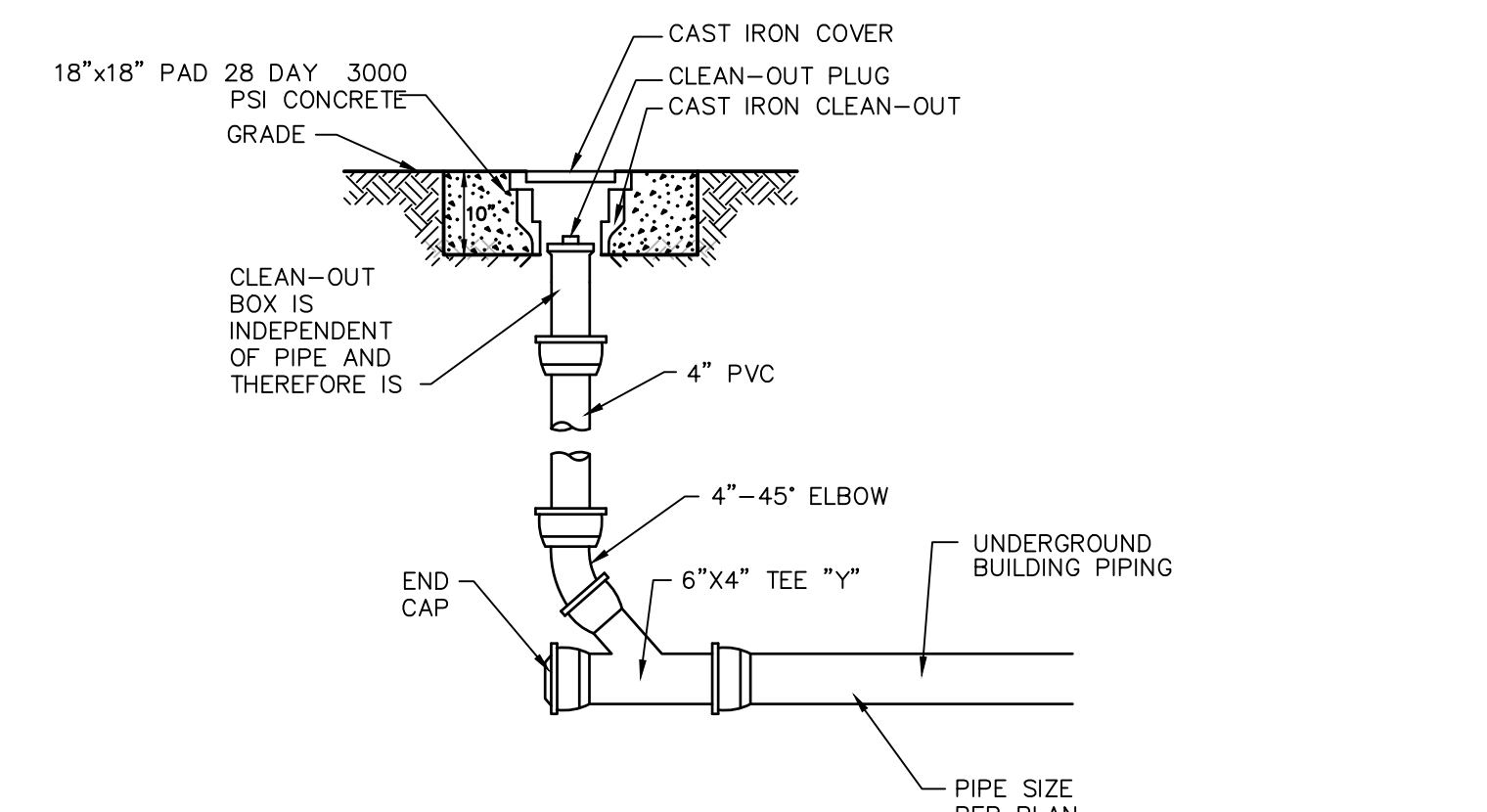
PERMEABLE PAVER & PERMEABLE PAVER EDGING & UNDERDRAIN DETAIL

N.T.S.



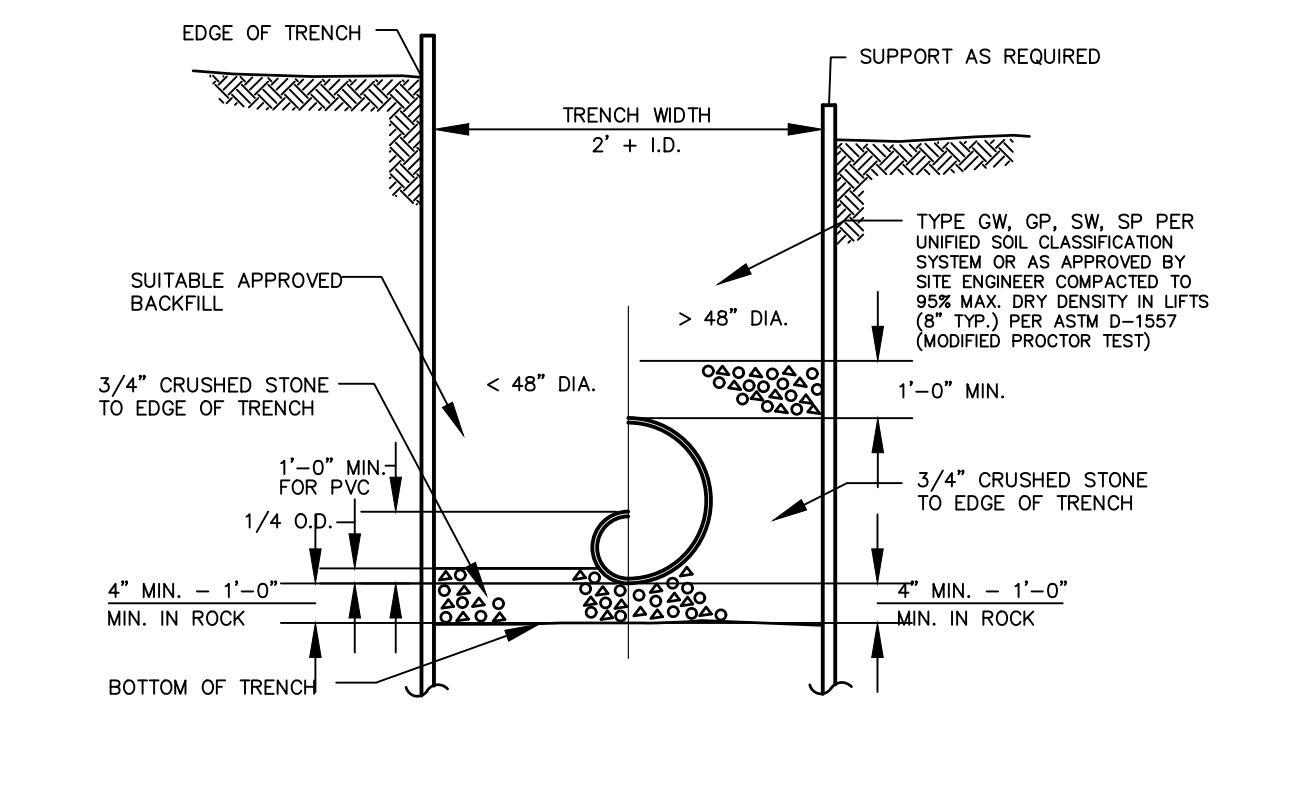
RIPRAP APRON SECTION

N.T.S.



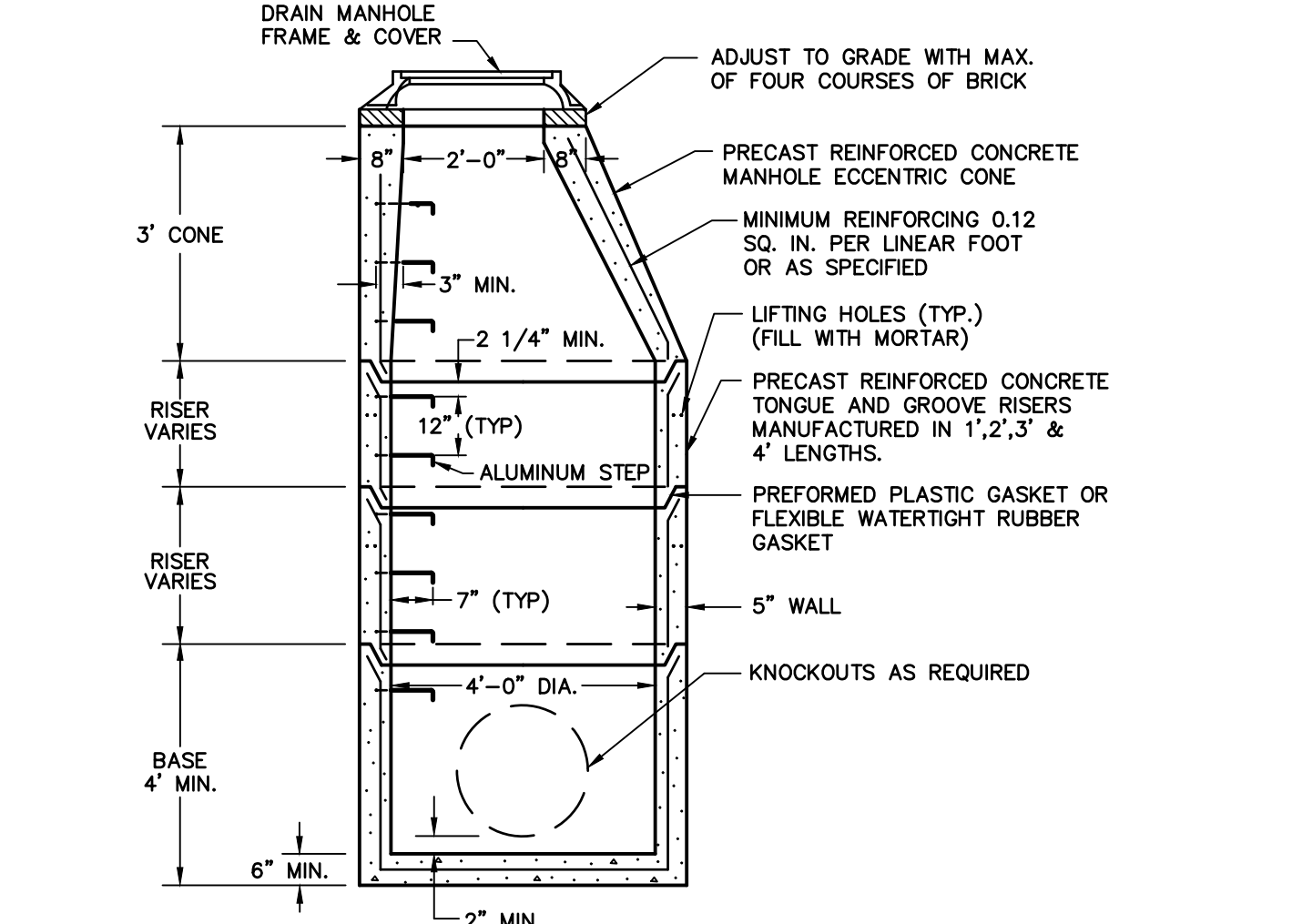
STORM CLEANOUT, TYP.

N.T.S.



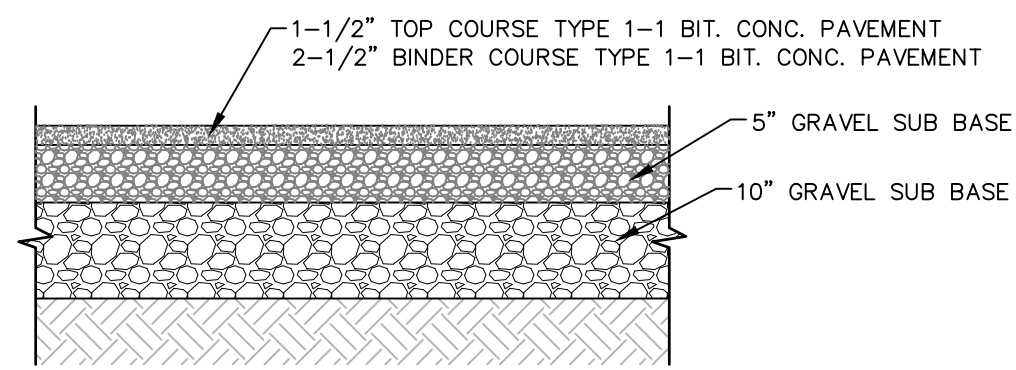
TYPICAL STORM SEWER TRENCH

N.T.S.



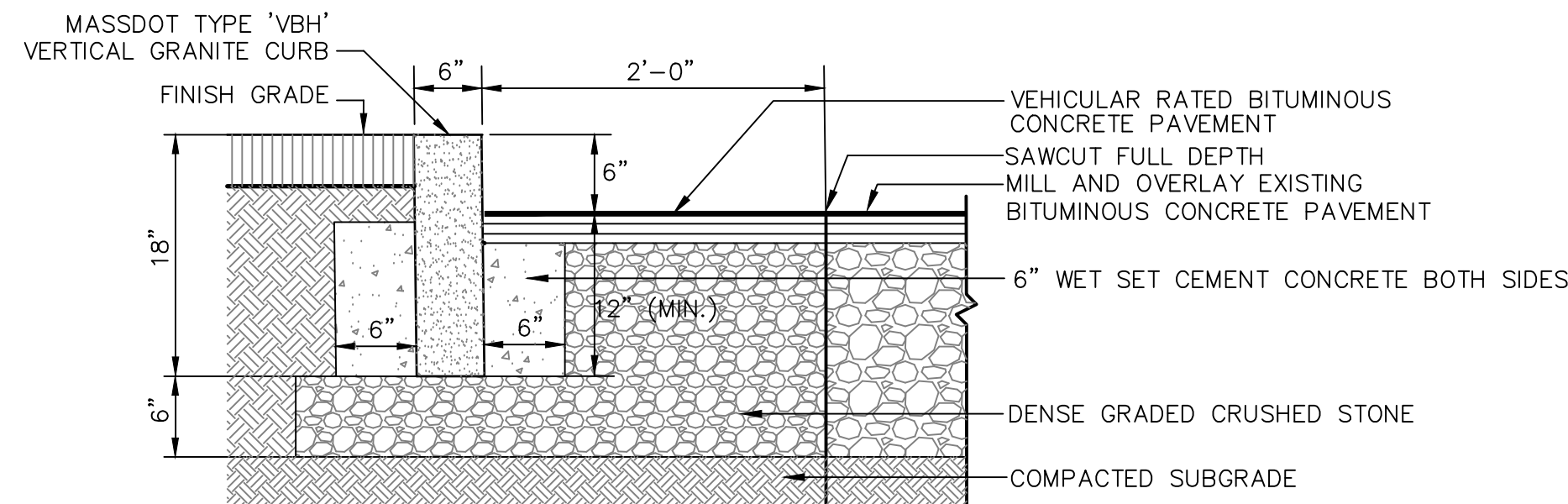
PRECAST STORM MANHOLE DETAIL

N.T.S. ZDD-049



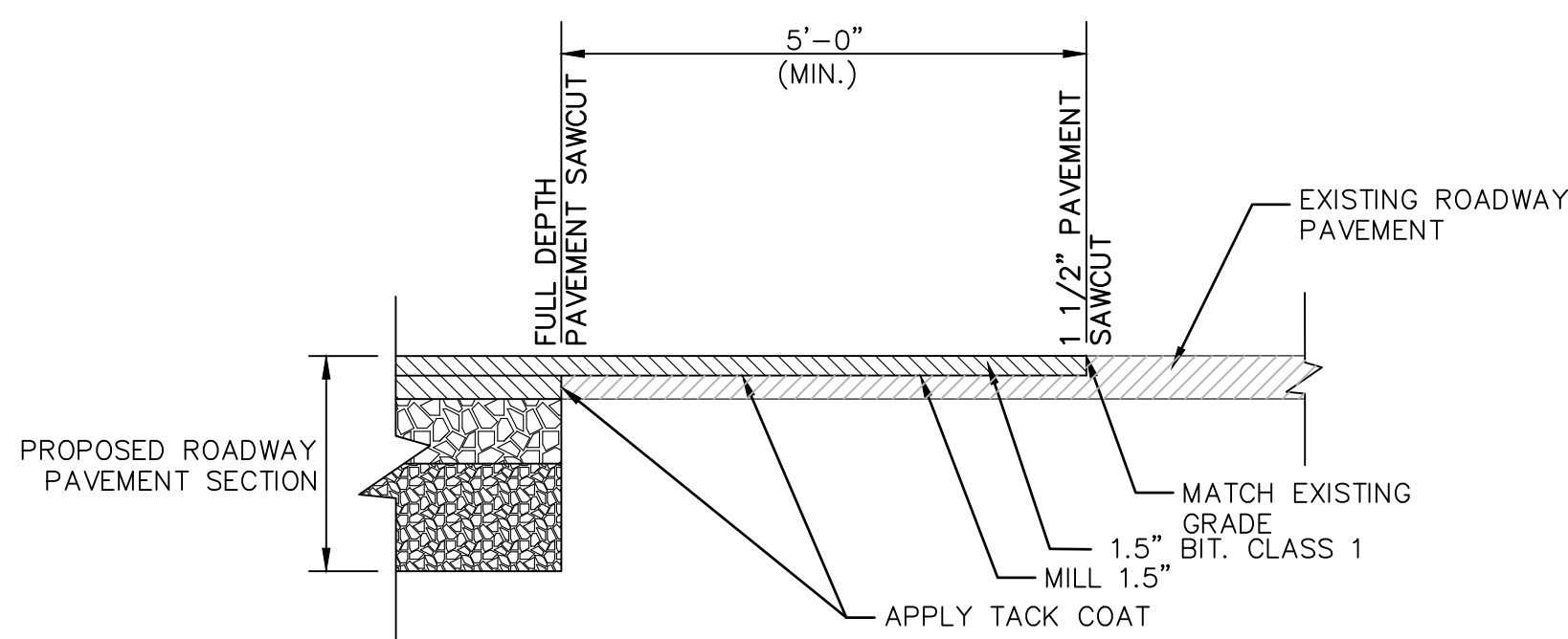
VEHICULAR RATED BITUMINOUS CONCRETE PAVEMENT

N.T.S.



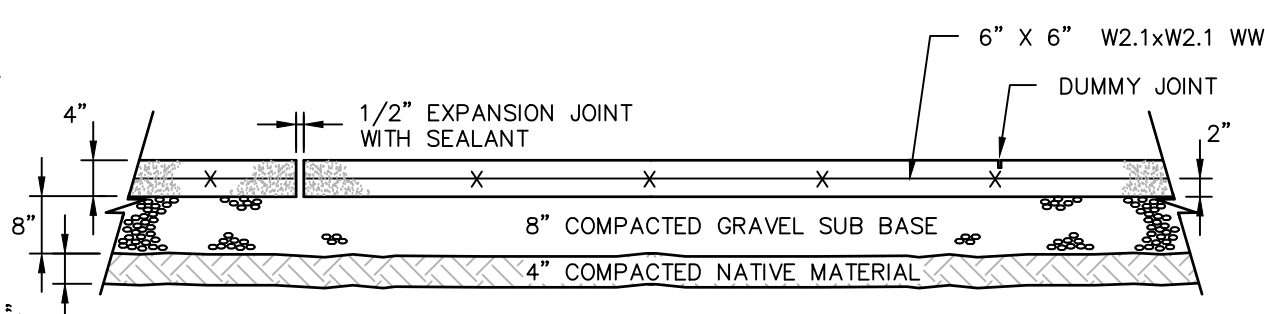
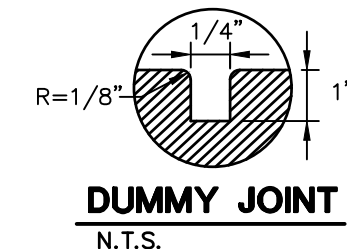
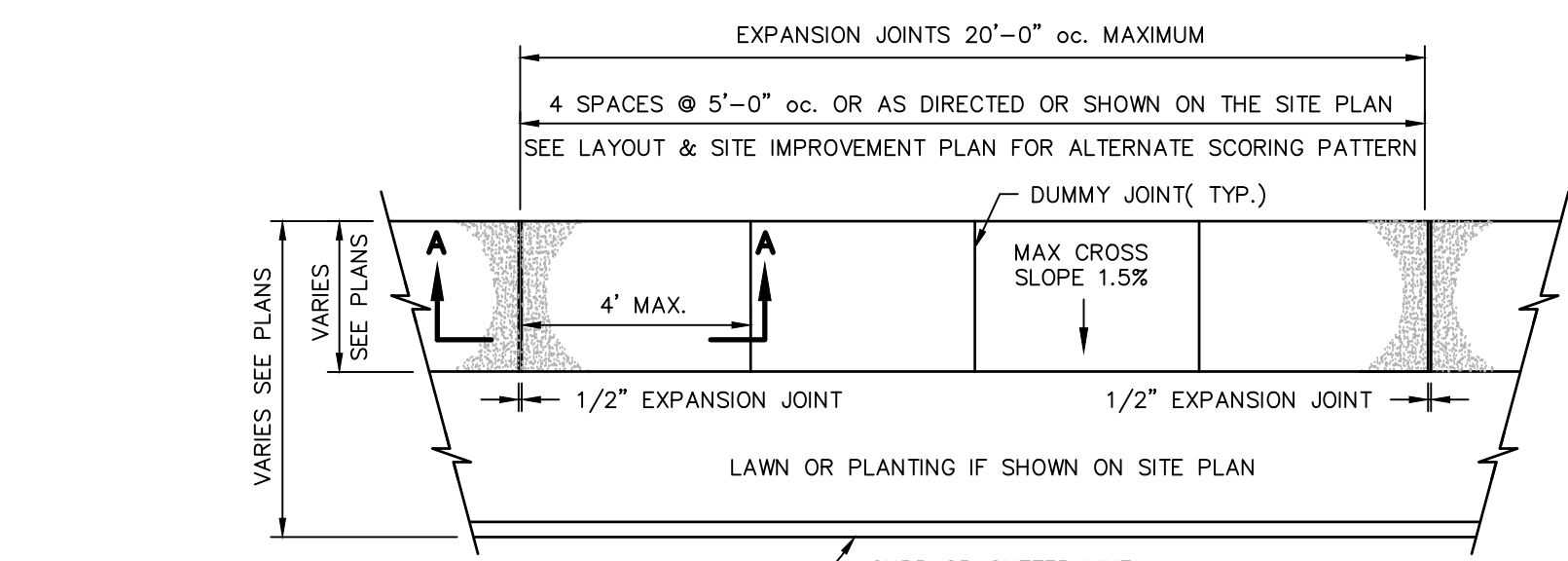
VERTICAL GRANITE CURB

N.T.S.



PAVEMENT MATCHING DETAIL

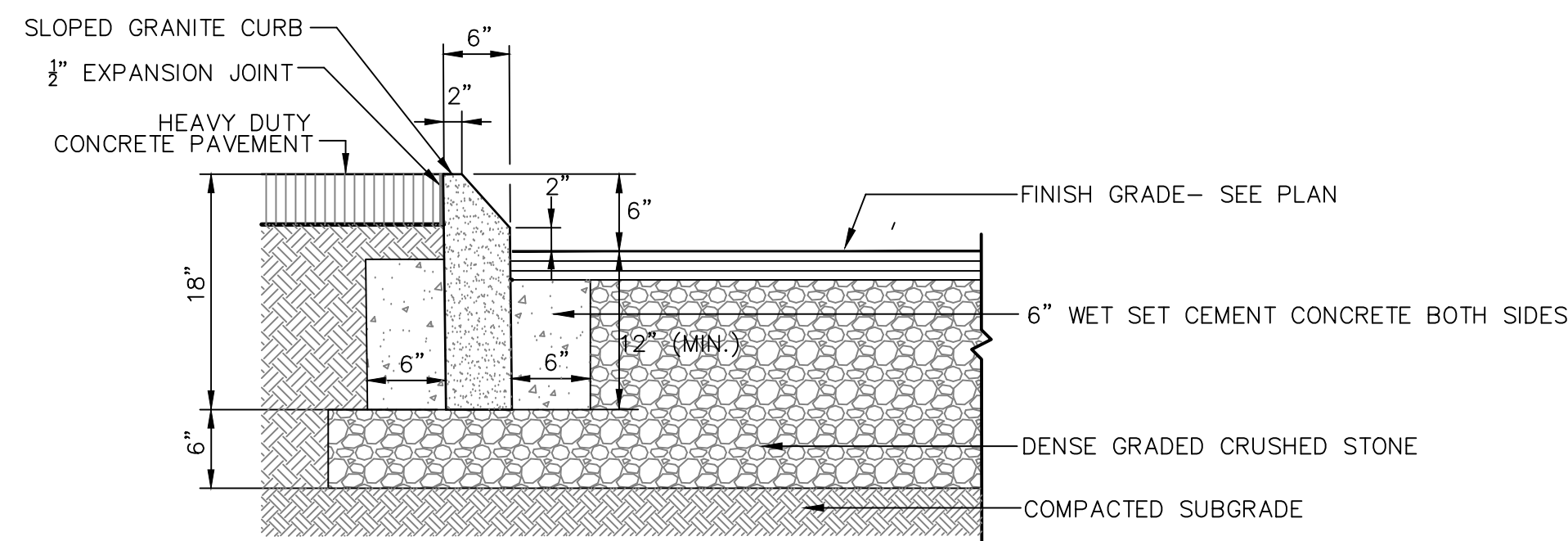
N.T.S.



- NOTES:
1. SIDEWALK SHALL BE PORTLAND CEMENT CONCRETE PAVEMENT (3,000 PSI).
 2. SIDEWALK SHALL BE BROOM FINISHED.
 3. SIDEWALK SHALL COMPLY MA 521 CMR AND TOWN OF MILLBURY REQUIREMENTS.

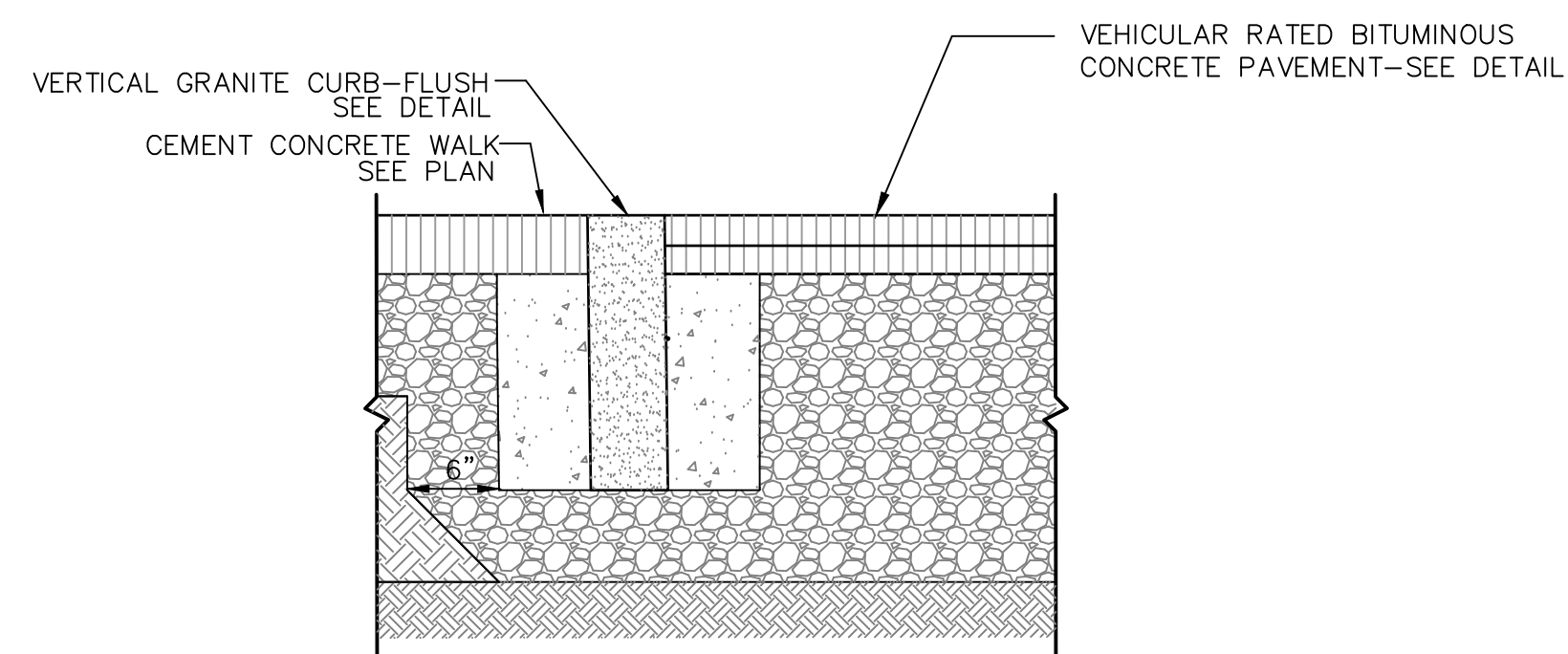
CONCRETE SIDEWALK

N.T.S.



SLOPED GRANITE CURB

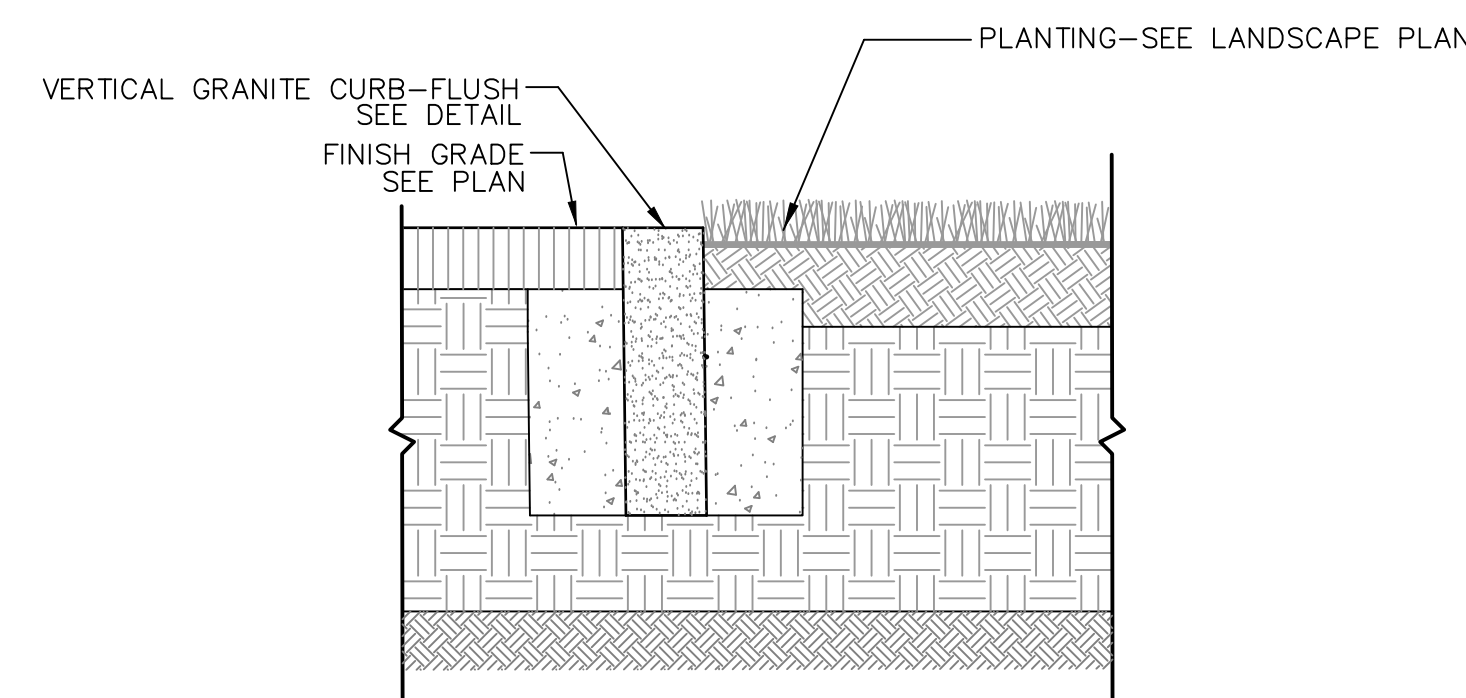
N.T.S.



- NOTES:
1. CEMENT CONCRETE SHALL EXTEND TO THE BOTTOM OF THE BITUMINOUS CONCRETE.
 2. ANY CLASS OF CEMENT CONCRETE ACCEPTABLE UNDER SECTION M4 OF THE MASS. *SSHB MAY BE USED.

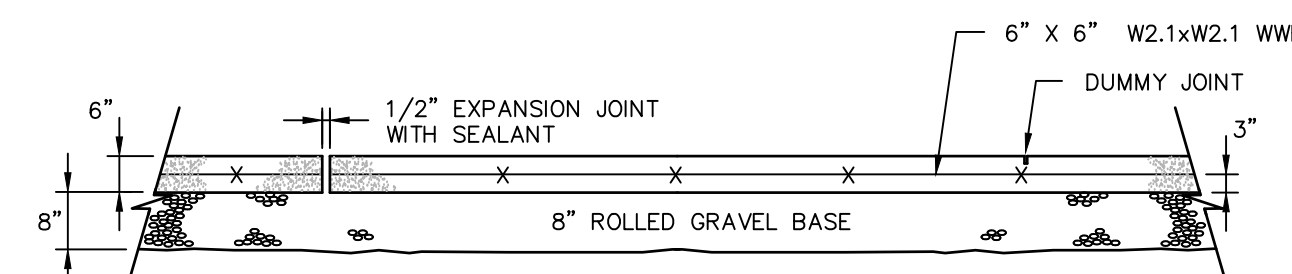
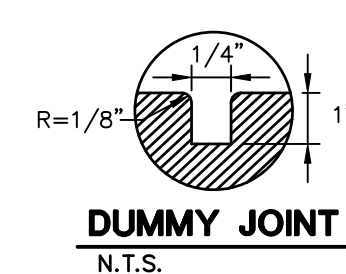
VERTICAL GRANITE CURB-FLUSH

N.T.S.

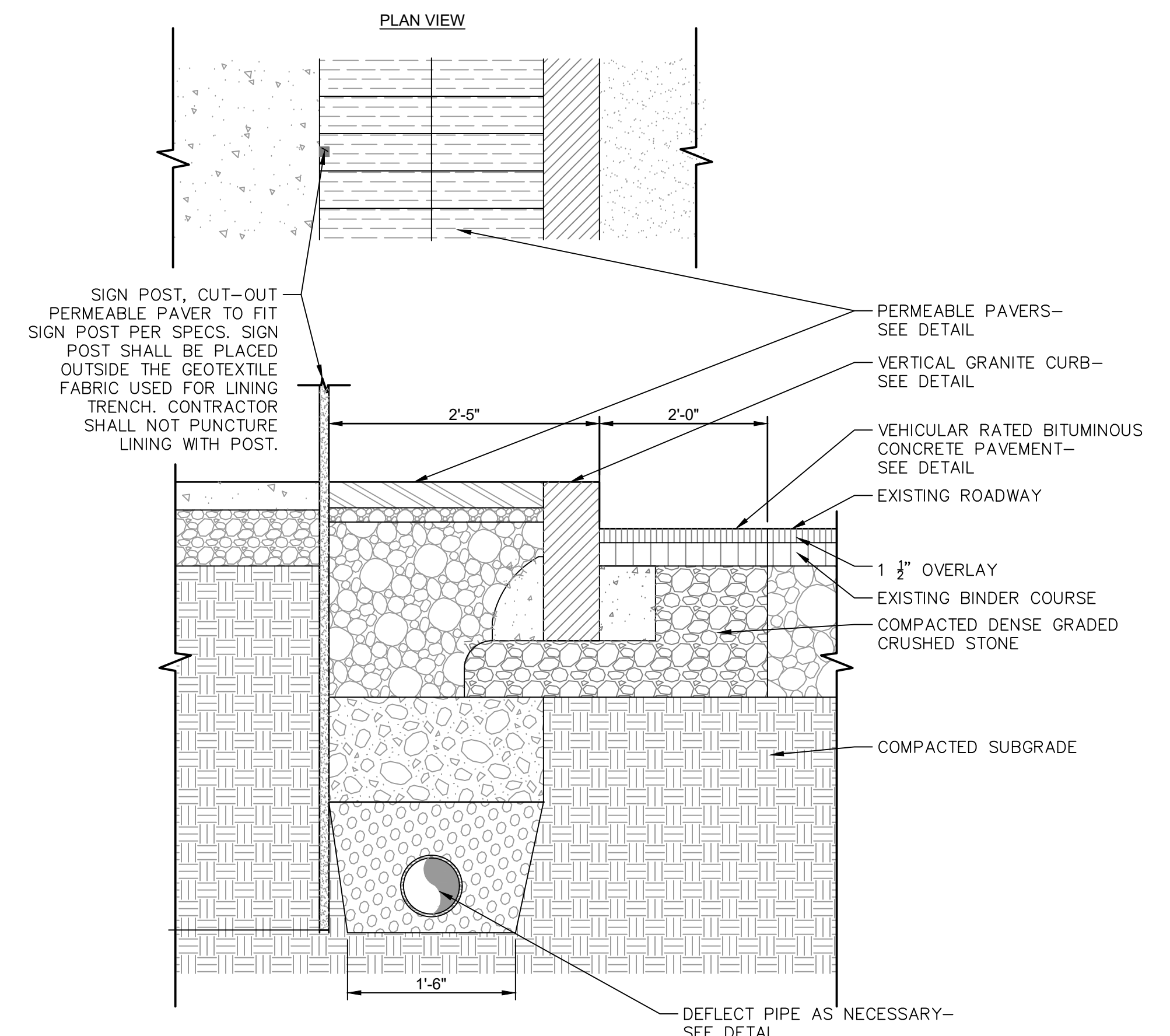


VERTICAL GRANITE CURB-FLUSH AT PLANTING

N.T.S.

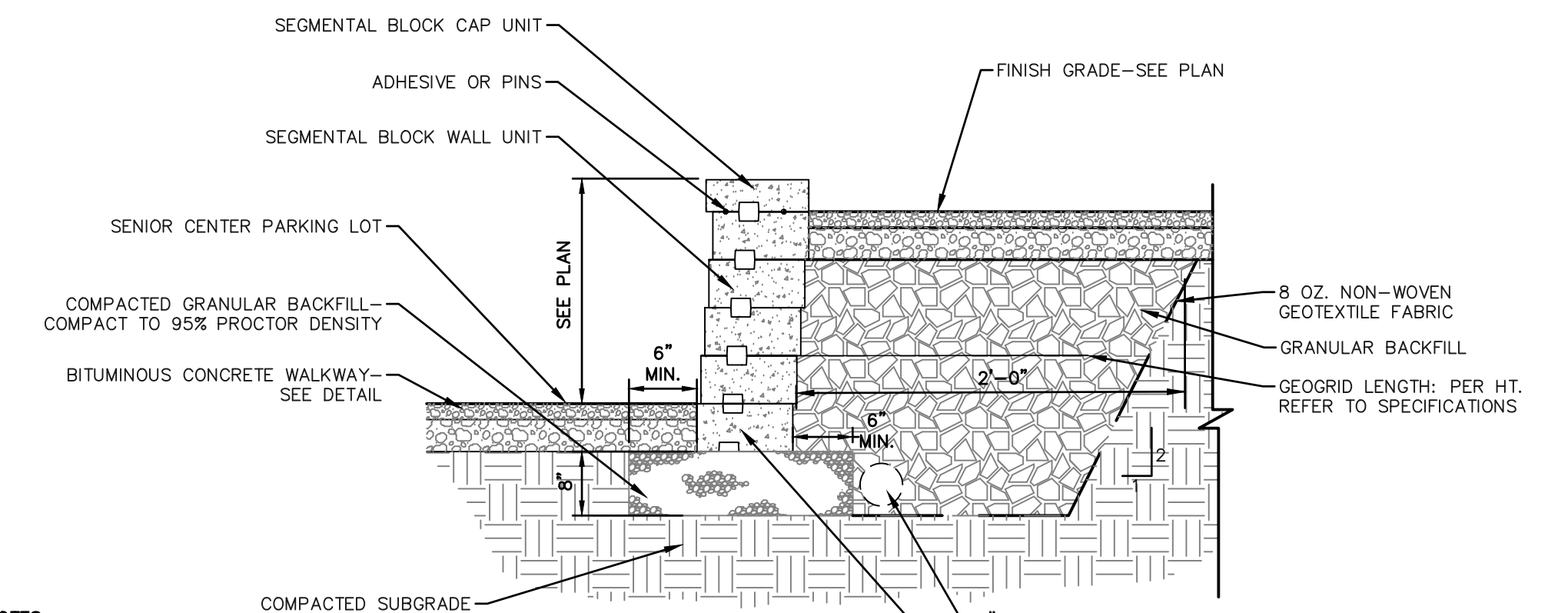


HEAVY DUTY CONCRETE PAVEMENT



RELOCATED/RESET TRAFFIC SIGN

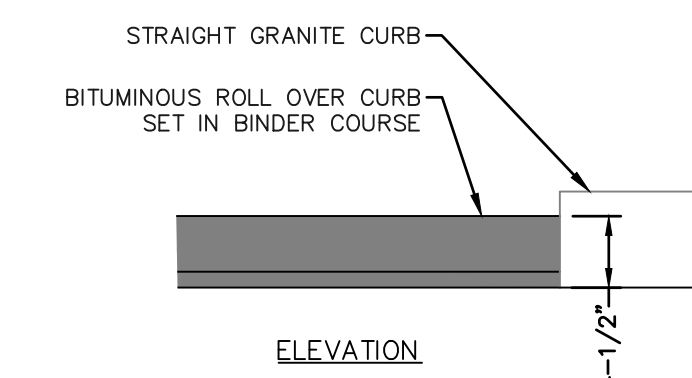
N.T.S.



- NOTES:
1. INSTALL WALL PER MANUFACTURERS SPECIFICATIONS.
 2. COLOR TO BE APPROVED BY OWNER/LANDSCAPE ARCHITECT

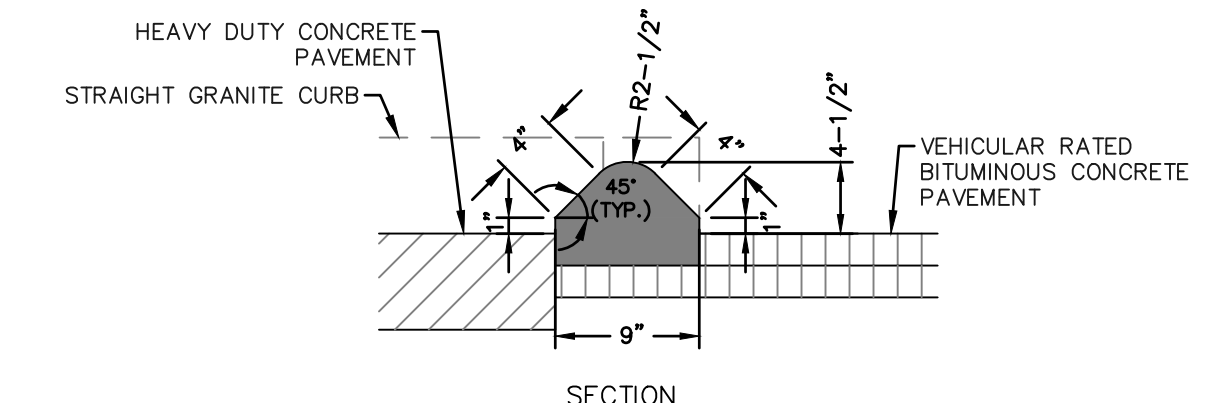
SEGMENTAL BLOCK RETAINING WALL

SCALE: NTS
 MANUFACTURER: PAVERS BY IDEAL (OR APPROVED EQUAL)
 PHONE: 978-692-3076
 WEBSITE: WWW.IDEALCONCRETEBLOCK.COM
 WALL STONE: ROMAN PISA; COLOR- QUARRY BLEND; PATTERN OPTION- ASHLAR
 CAP STONE: ANCESTRAL COPING; COLOR- QUARRY BLEND



BITUMINOUS ROLL OVER CURB

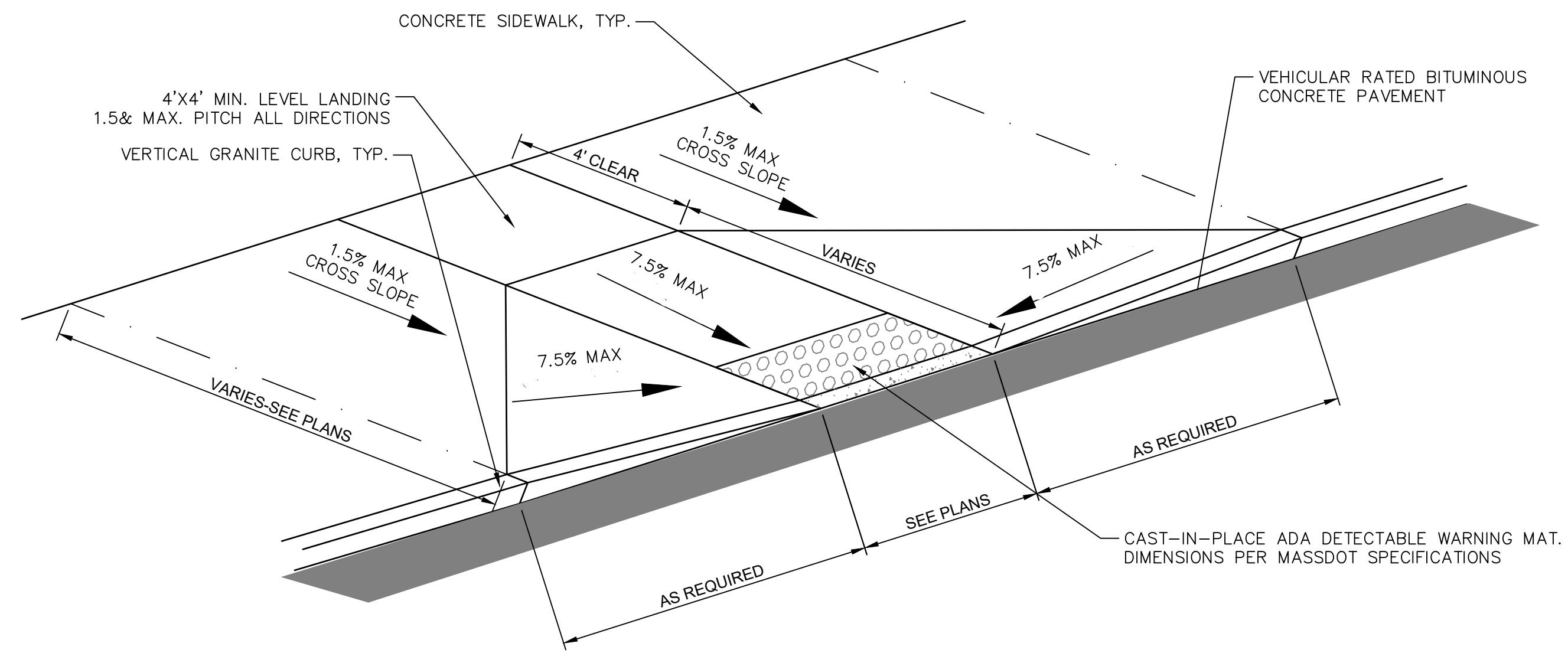
SCALE: NTS



REVISIONS	No.	Date	Desc.

Designed: K.A.
 Drawn: K.A.
 Reviewed: M.M.
 Scale:
 Project No.: 2001478
 Date: FEBRUARY, 2022
 CAD File: DN200147801
 Title:
SITE DETAILS
 Sheet No.

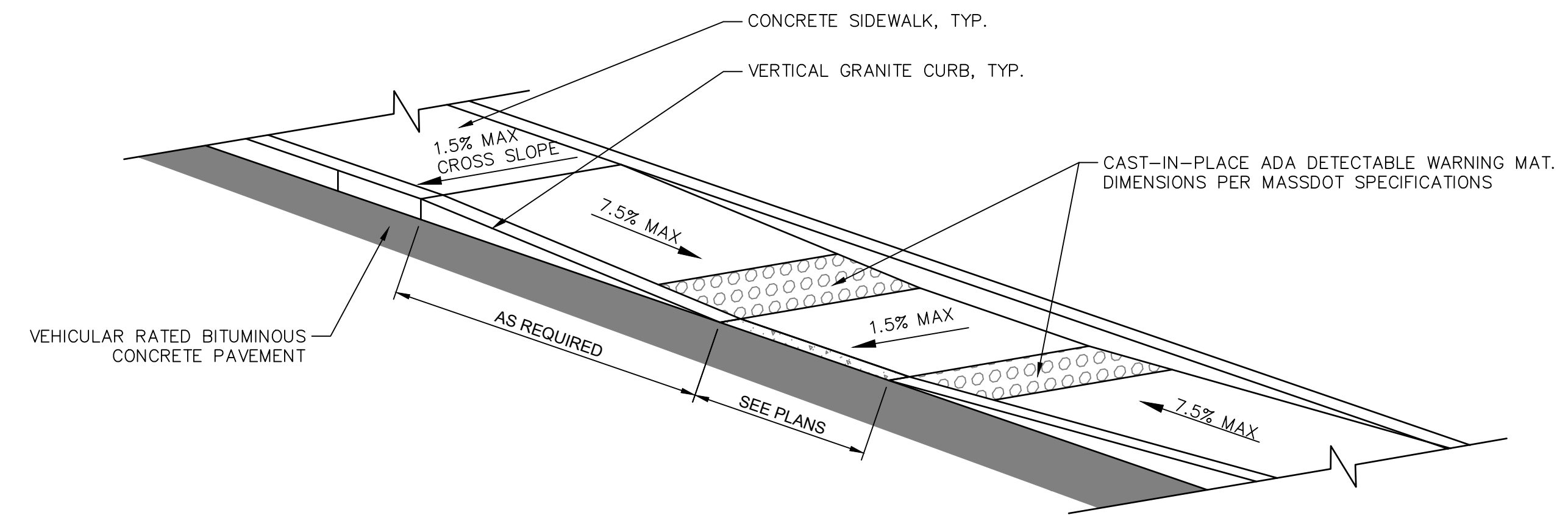
2/27/2022: KATIE R. VAN COMPANIES.COM\PLANS\PROJECTS\14-0001-178-DWGS\DWG\01-DN-03.DWG:RJA



- NOTES:**
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 - RAMP SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

ADA CURB RAMP TYPE A

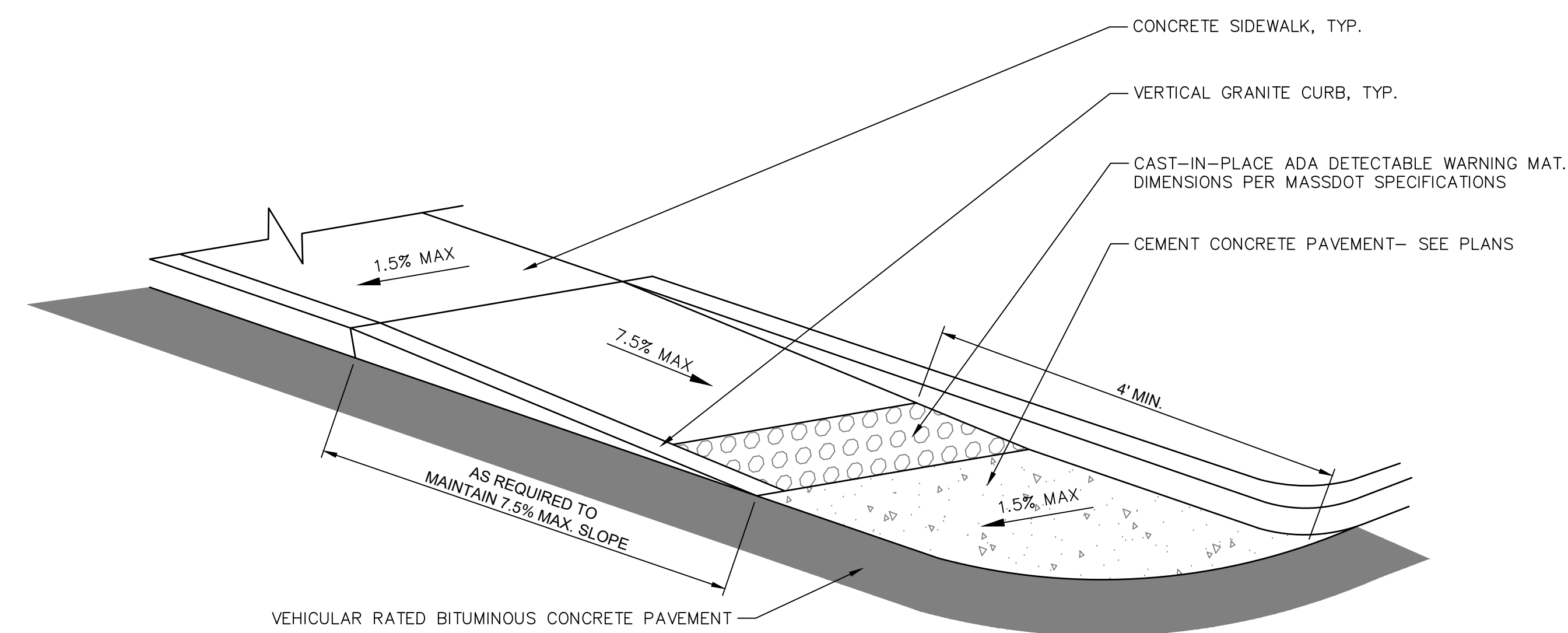
N.T.S.



- NOTES:**
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 - RAMP SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

ADA CURB RAMP TYPE B

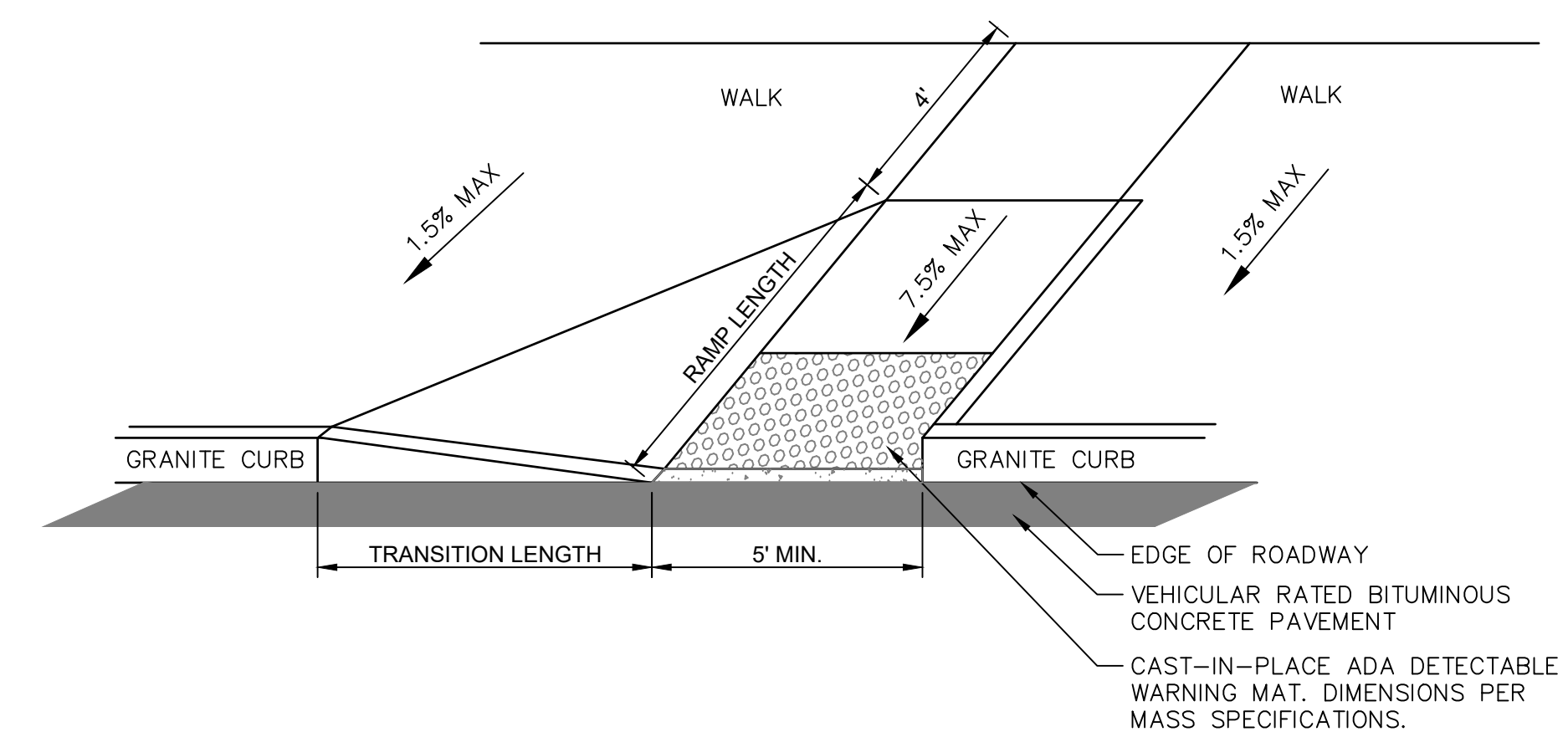
N.T.S.



- NOTES:**
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 - RAMP SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

ADA CURB RAMP TYPE C

N.T.S.



- NOTES:**
- INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 - EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS OTHERWISE NOTED. FAILURE TO MEET TOLERANCES, OR PRIOR NOTICE TO ENGINEER THAT TOLERANCES CANNOT BE MET, WILL REQUIRE RECONSTRUCTION TO PROPER TOLERANCES AT NO EXPENSE TO THE OWNER.
 - SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±
 - RAMP SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

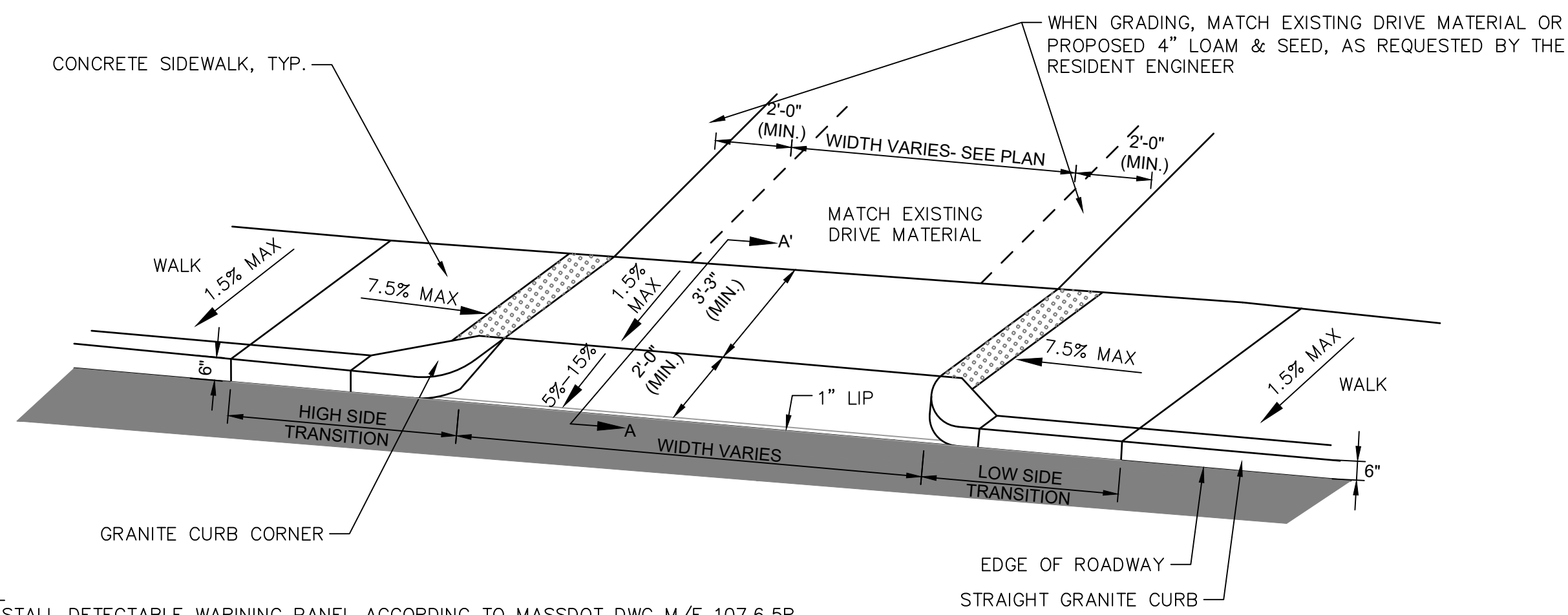
ADA CURB RAMP TYPE D

N.T.S.

2/27/2022: KAUHRE, \\\BLCOMPANIES.COM\PLANS\PROJ\2020\14\2001\778\DWG\DN001\4261.DWG:RJA

REVISIONS	
No.	Date

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801
Title	
SITE DETAILS	
Sheet No.	

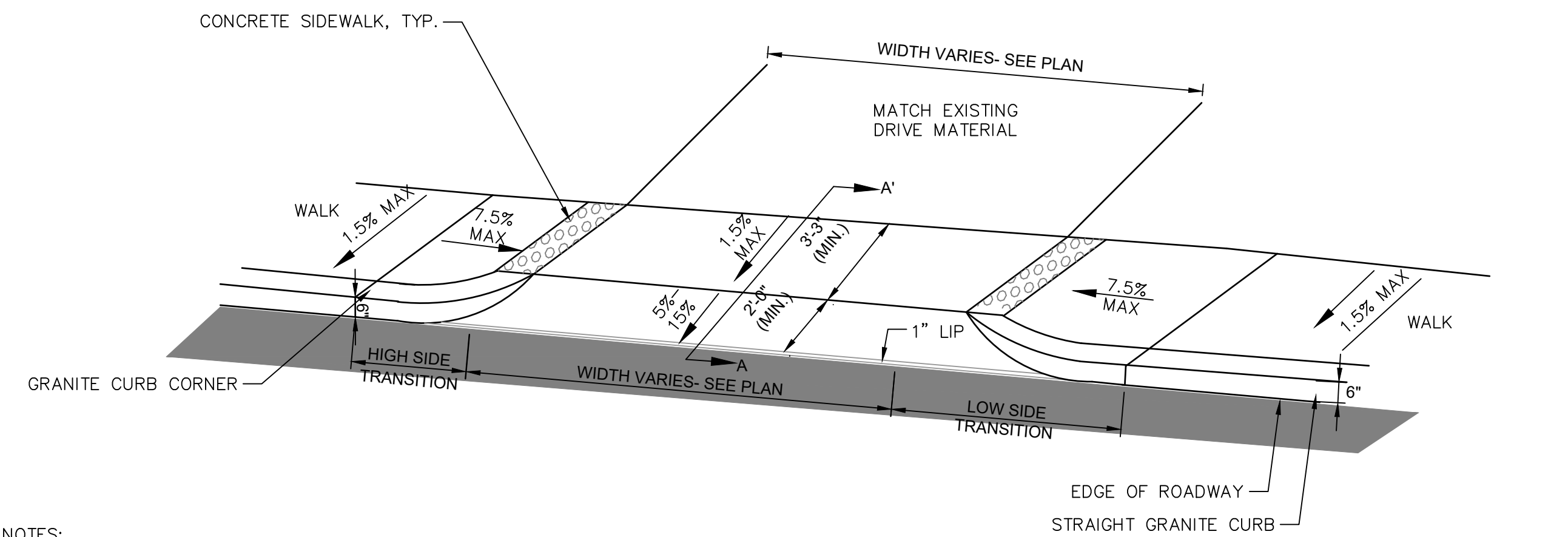


NOTES:

1. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
2. EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY ENGINEER.
3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS OTHERWISE NOTED. FAILURE TO MEET TOLERANCES, OR PRIOR TO NOTICE TO ENGINEER THAT TOLERANCES CANNOT BE MET, WILL REQUIRE RECONSTRUCTION TO PROPER TOLERANCES AT NO EXPENSE TO OWNER.
4. SEE GRADING PLAN FOR ACTUAL DIFFERENCES IN GRADE BREAK ELEVATION AT BOTTOM OF RAMP.
5. SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±
6. RAMPS SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

CONCRETE DRIVEWAY APRON WITH DRIVE STONES

N.T.S.

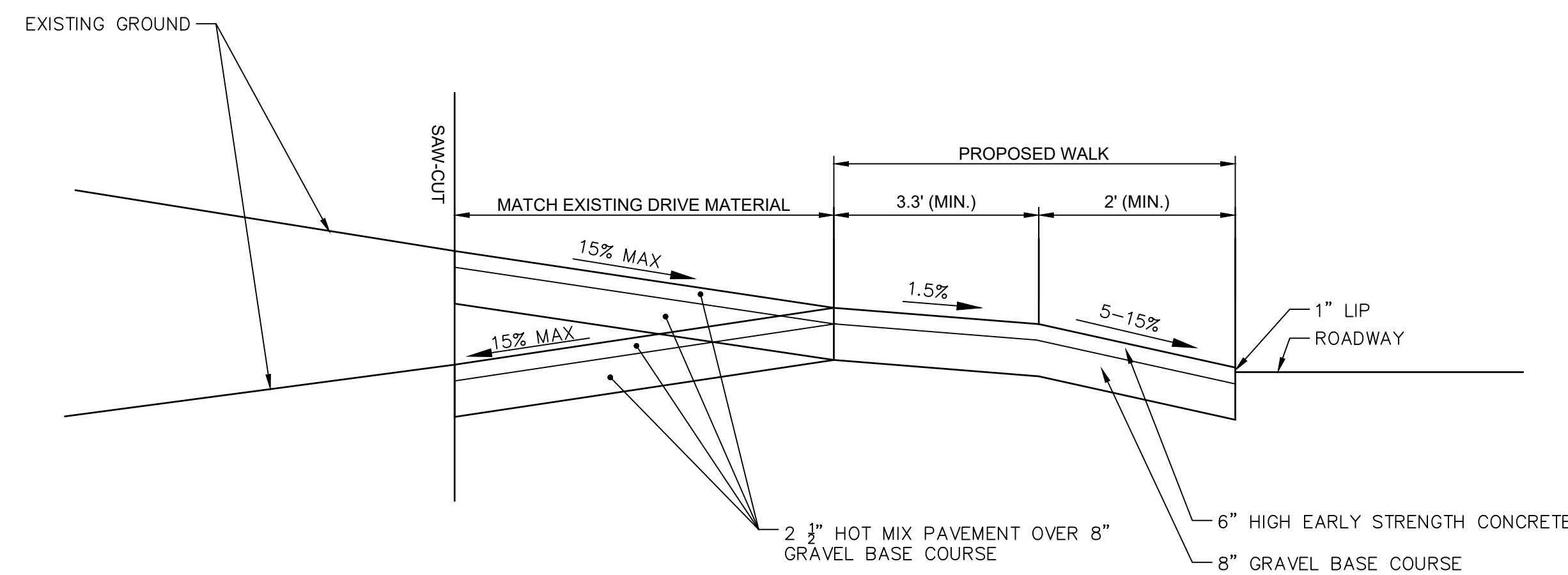


NOTES:

1. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
2. EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY ENGINEER.
3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS OTHERWISE NOTED. FAILURE TO MEET TOLERANCES, OR PRIOR TO NOTICE TO ENGINEER THAT TOLERANCES CANNOT BE MET, WILL REQUIRE RECONSTRUCTION TO PROPER TOLERANCES AT NO EXPENSE TO OWNER.
4. SEE GRADING PLAN FOR ACTUAL DIFFERENCES IN GRADE BREAK ELEVATION AT BOTTOM OF RAMP.
5. SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±
6. RAMPS SHALL COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS.

CONCRETE DRIVEWAY APRON WITH RADIUS CURBS

N.T.S.

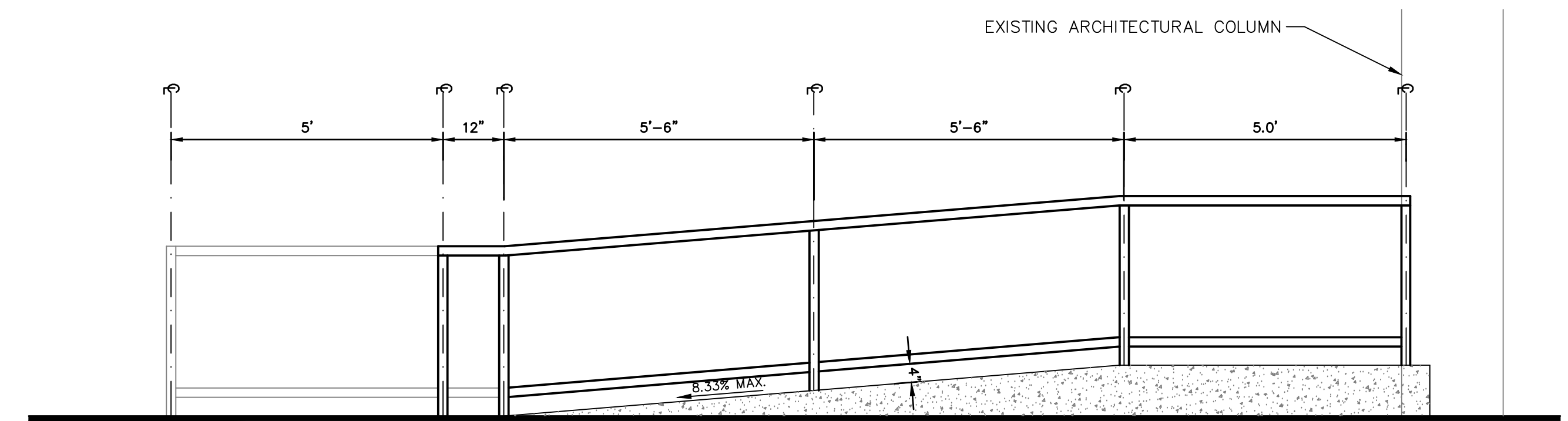
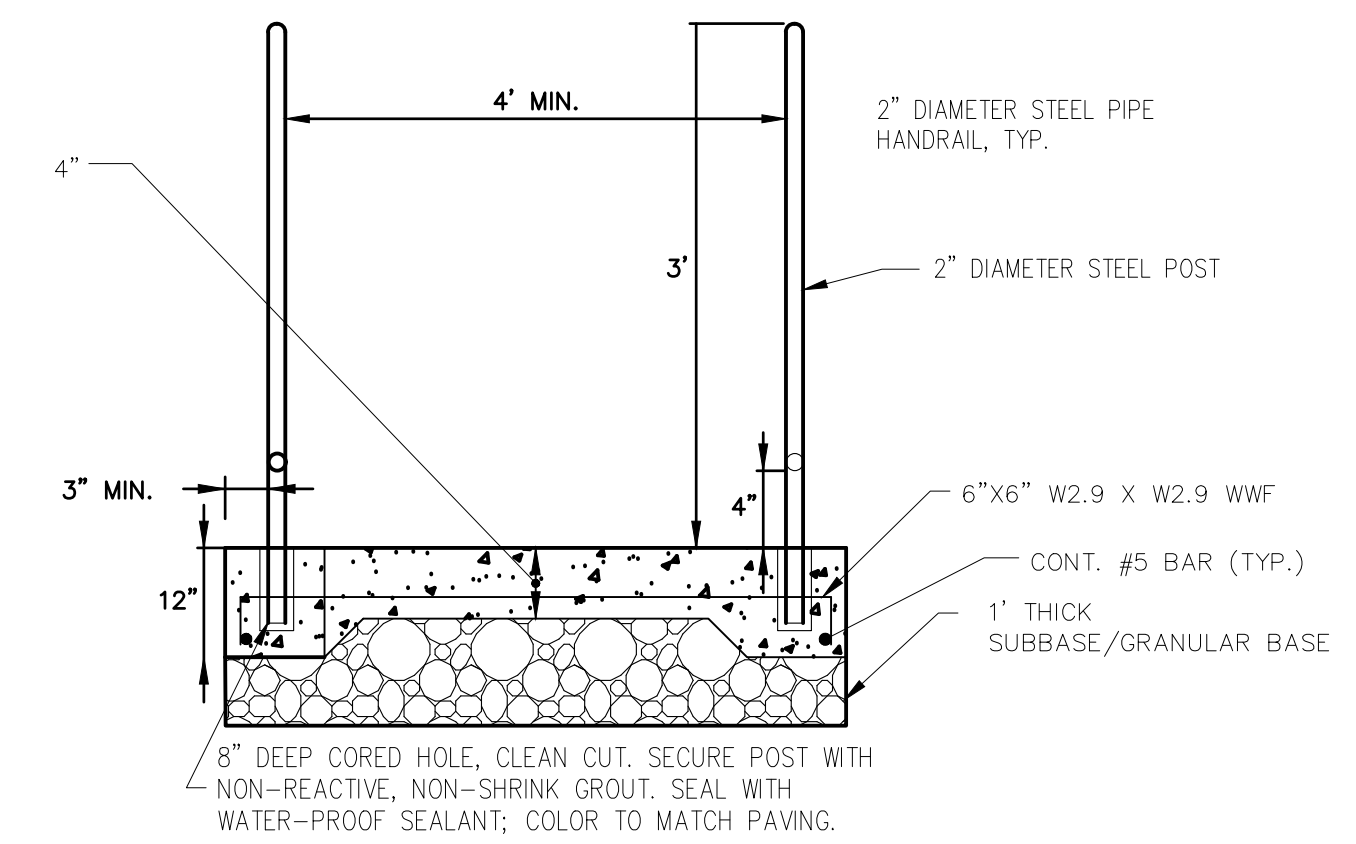


NOTES:

1. USE 8" GRAVEL BASE COURSE FOR DRIVES WITH NO PAVED SURFACE. USE 6" CEMENT CONCRETE OVER 8" GRAVEL BASE COURSE FOR DRIVES WITH CEMENT CONCRETE.
2. DRIVEWAYS SHALL BE INSTALLED WITH EITHER A 2' OR 3' RADIUS GRANITE CURB CORNER. SEE LAYOUT PLAN FOR CURB RADII. CONTRACTOR SHALL CONTACT OWNER OR OWNERS REPRESENTATIVE IF ANY DISCREPANCIES OCCUR ON SITE.
3. DRIVEWAY APRON TO BE CONSTRUCTED TO TOWN OF MILLBURY CONSTRUCTION STANDARD.

CONCRETE DRIVEWAY APRON CROSS SECTION A-A'

N.T.S.



NOTES:

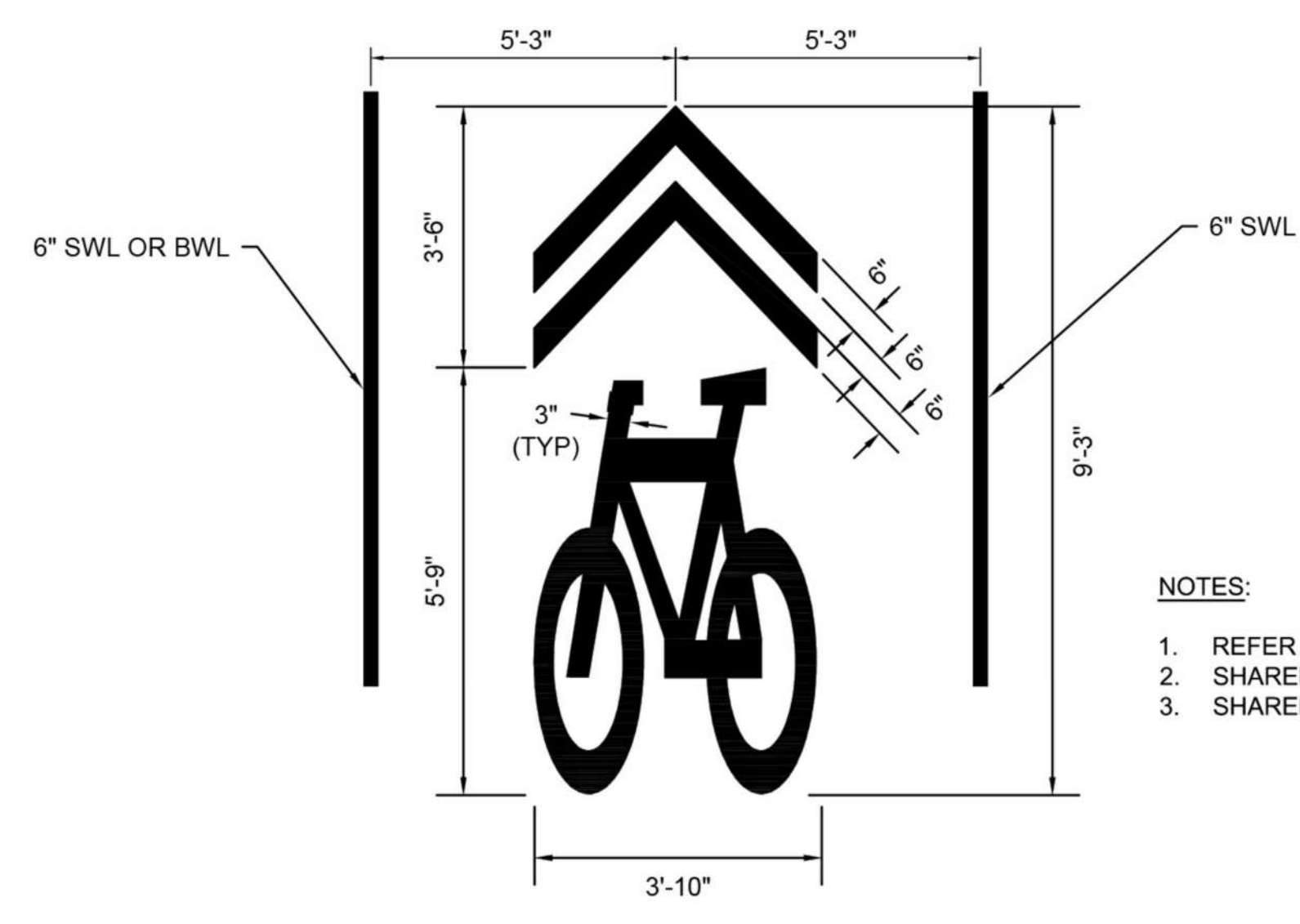
1. RAMP TO COMPLY WITH MA 521 CMR AND TOWN OF MILLBURY STANDARDS

CONCRETE RAMP AND HANDRAIL

N.T.S.

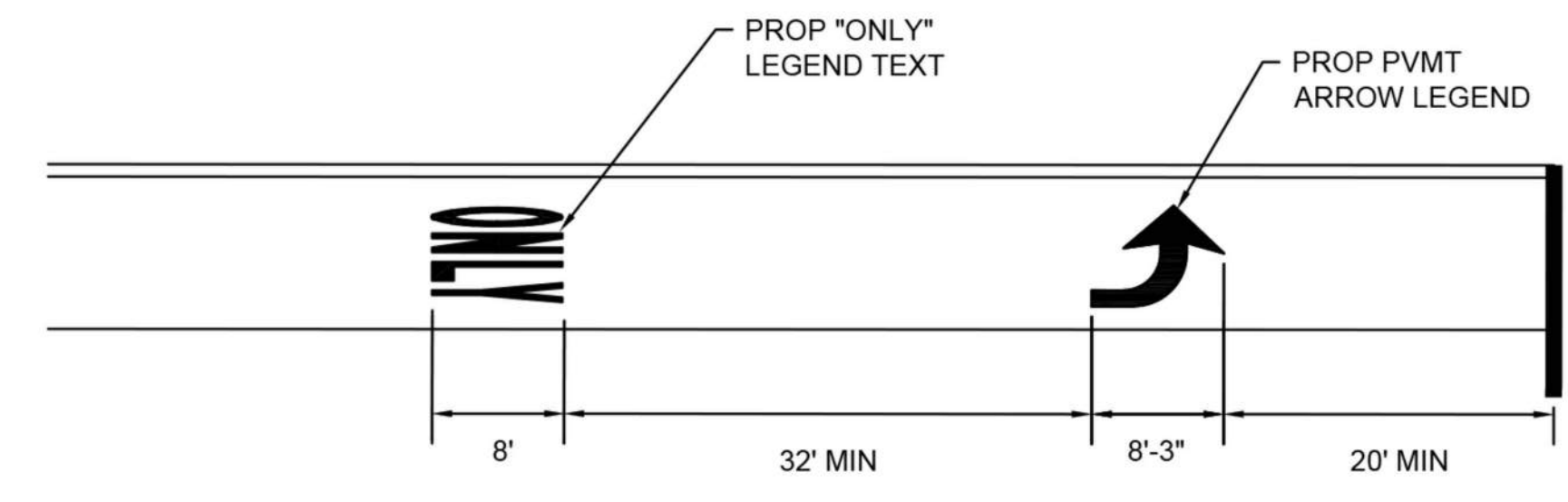
REVISIONS	No.	Date	Desc.

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DNZ00147801
Title	SITE DETAILS
Sheet No.	DN-05

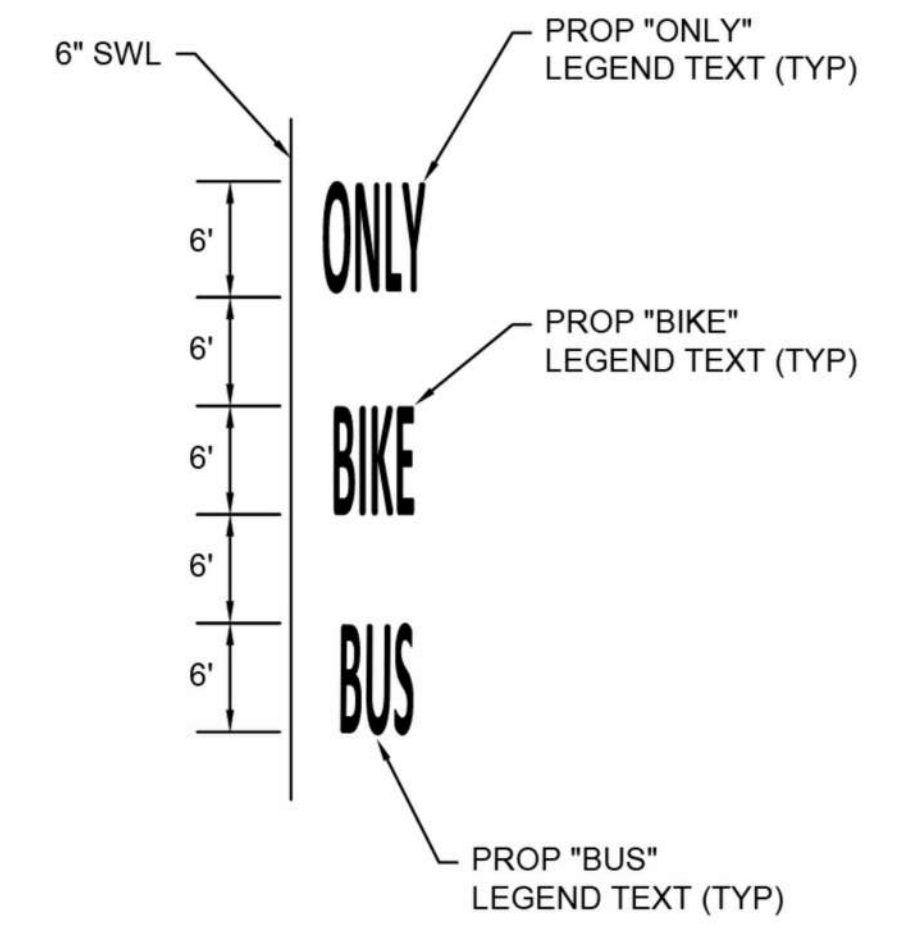


- NOTES:**
1. REFER TO FIGURE 9C-9 IN THE MUTCD FOR MORE DETAIL.
 2. SHARED LANE MARKINGS SHALL BE EPOXY PAINT.
 3. SHARED LANE MARKINGS SHALL BE ONE PIECE.

SHARED LANE PAVEMENT LEGEND DETAIL
NOT TO SCALE

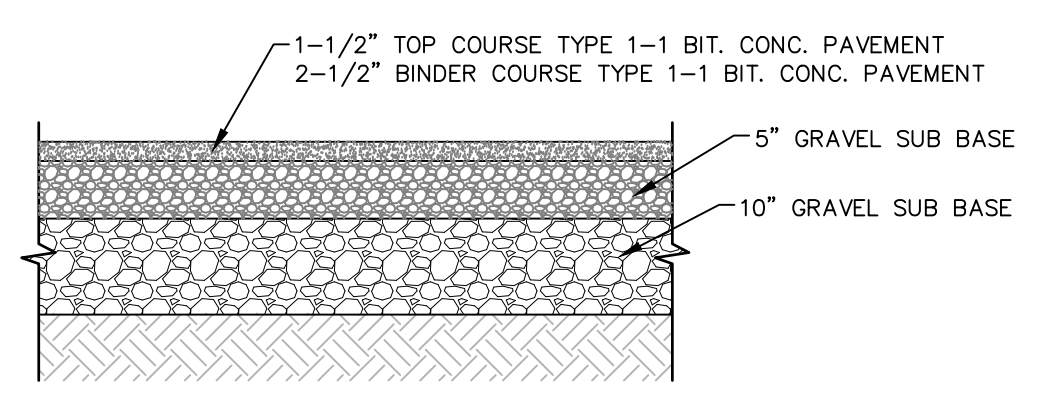
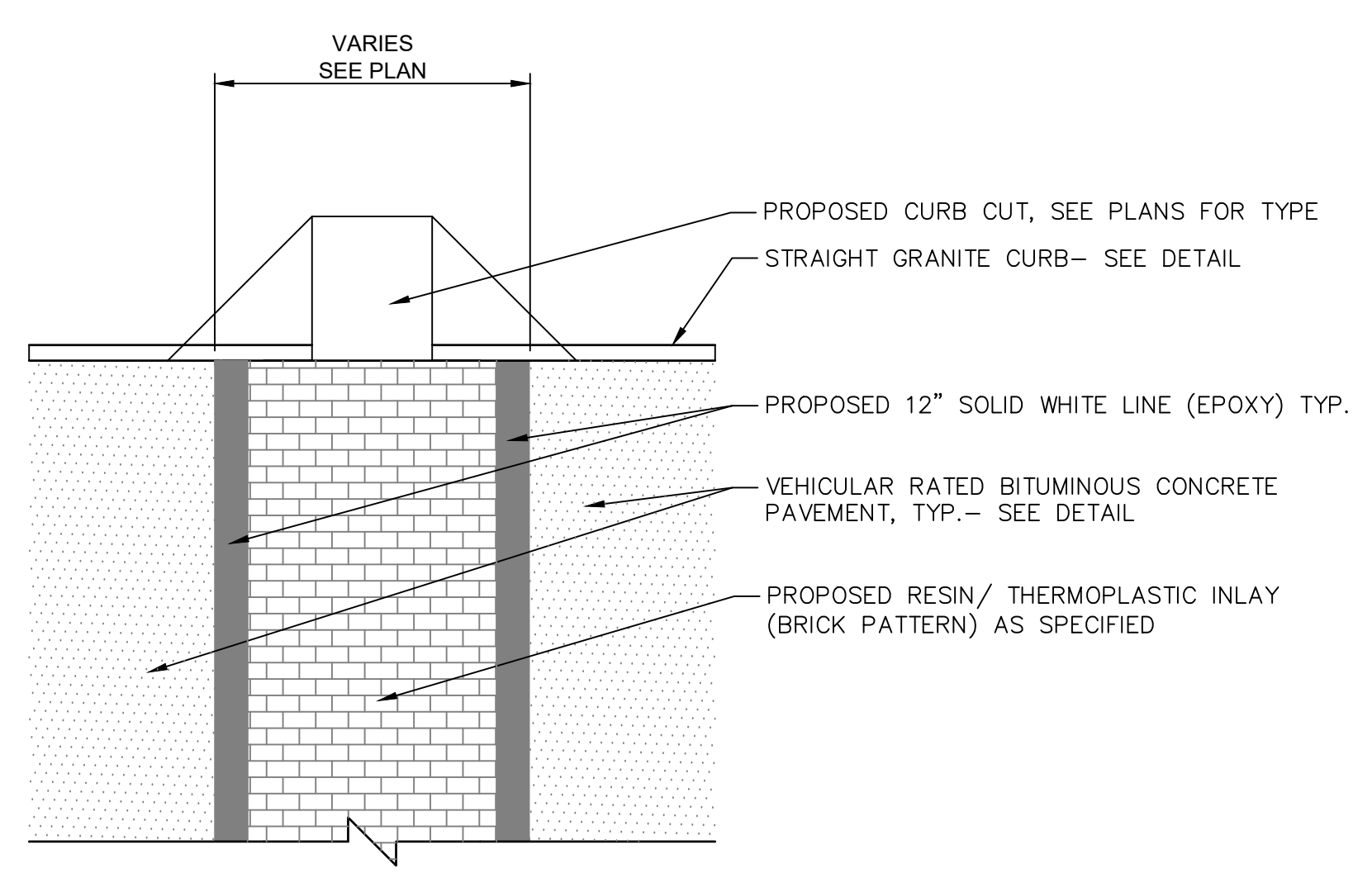


PAVEMENT ARROW AND LEGEND DETAIL
NOT TO SCALE

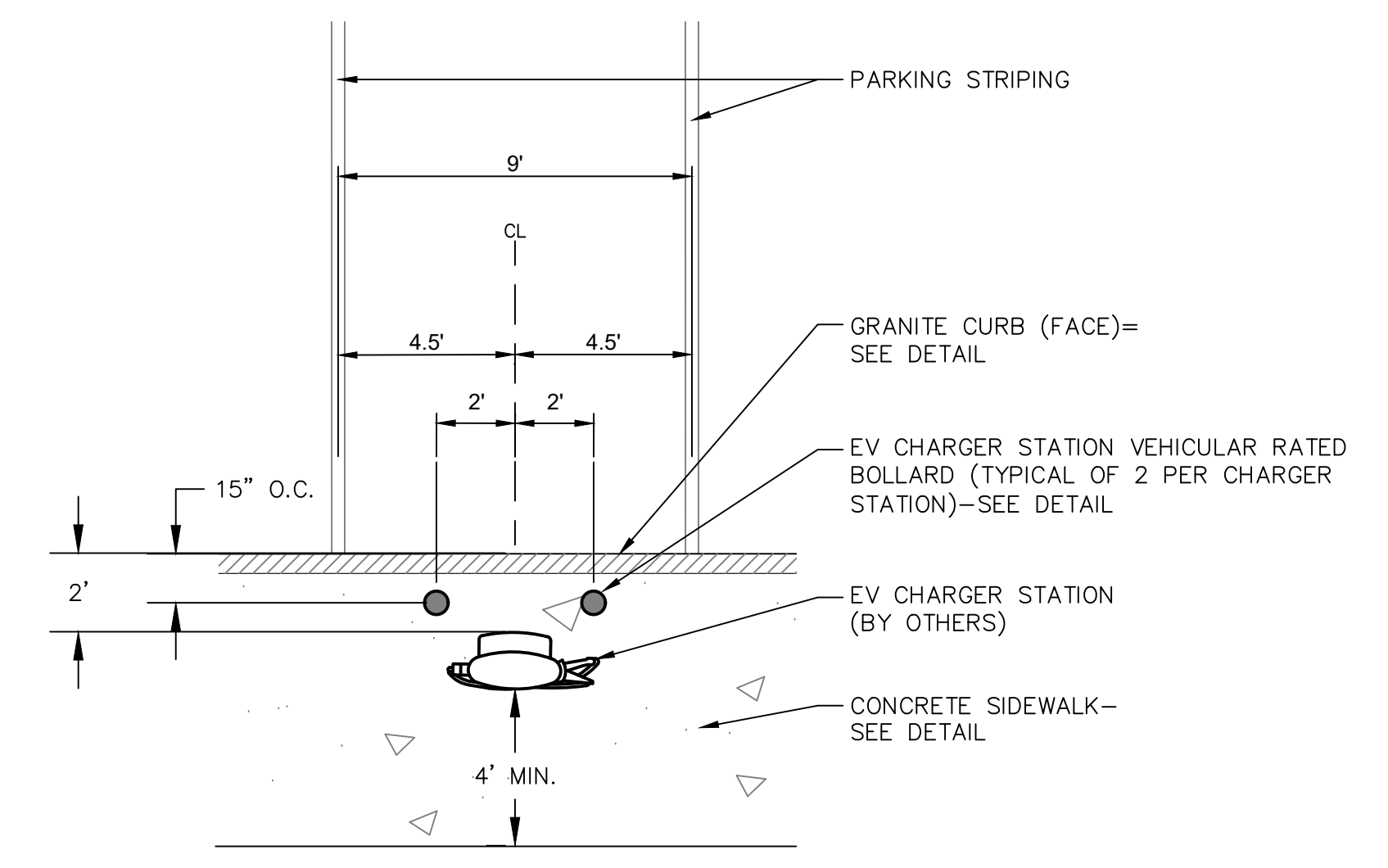


- NOTES:**
1. BUS/BIKE/ONLY PAVEMENT MARKINGS SHOULD BE CENTERED IN THE LANE UNLESS OTHERWISE NOTED.

BUS BIKE ONLY PAVEMENT MARKING AND LEGEND DETAIL
NOT TO SCALE



RESIN CROSS WALK
N.T.S.



EV CHARGING STATION AND BOLLARD LAYOUT
N.T.S.

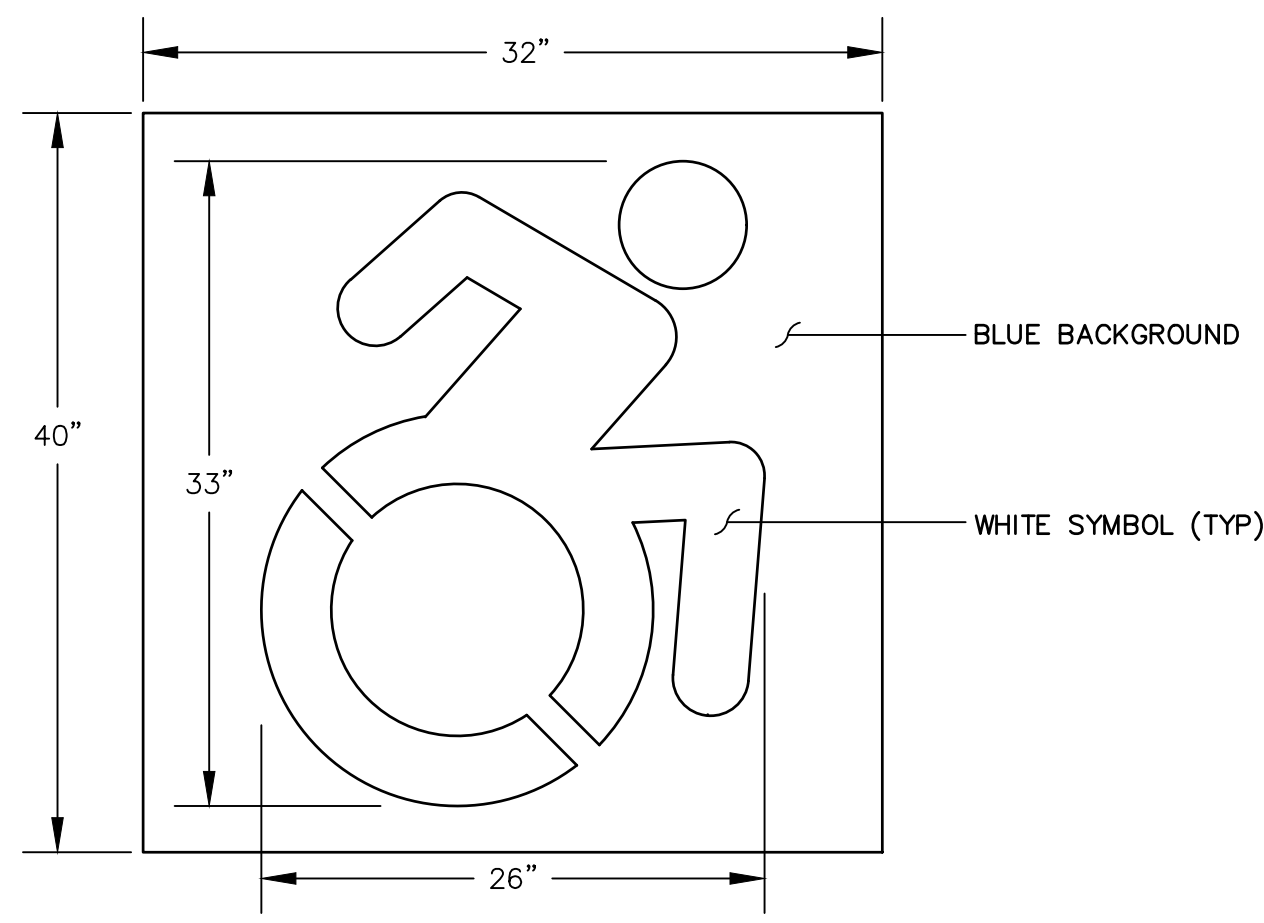
REVISIONS	Desc.
No.	Date

Designed	K.A.
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Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801

Title
SITE DETAILS

Sheet No.

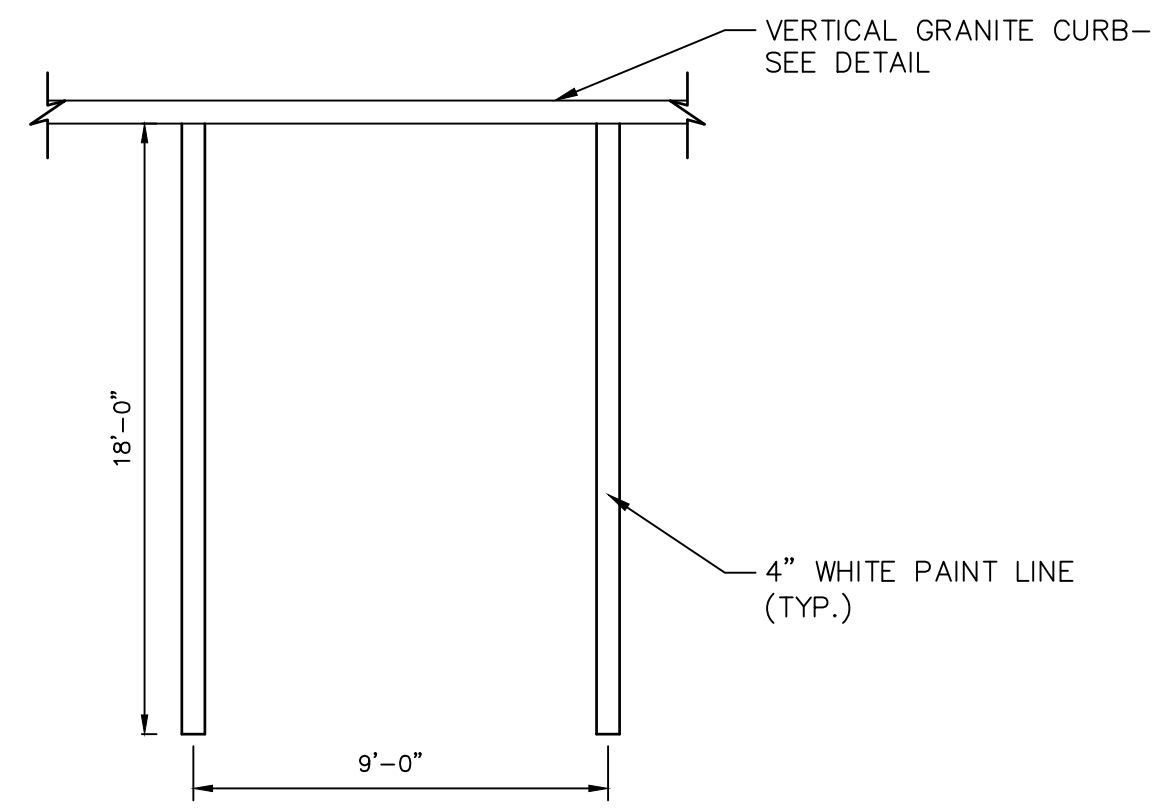
DN-06



NOTE: HANDICAP SYMBOL TO ADHERE TO STATE BUILDING CODE, LATEST EDITION

INTERNATIONAL HANDICAP SYMBOL

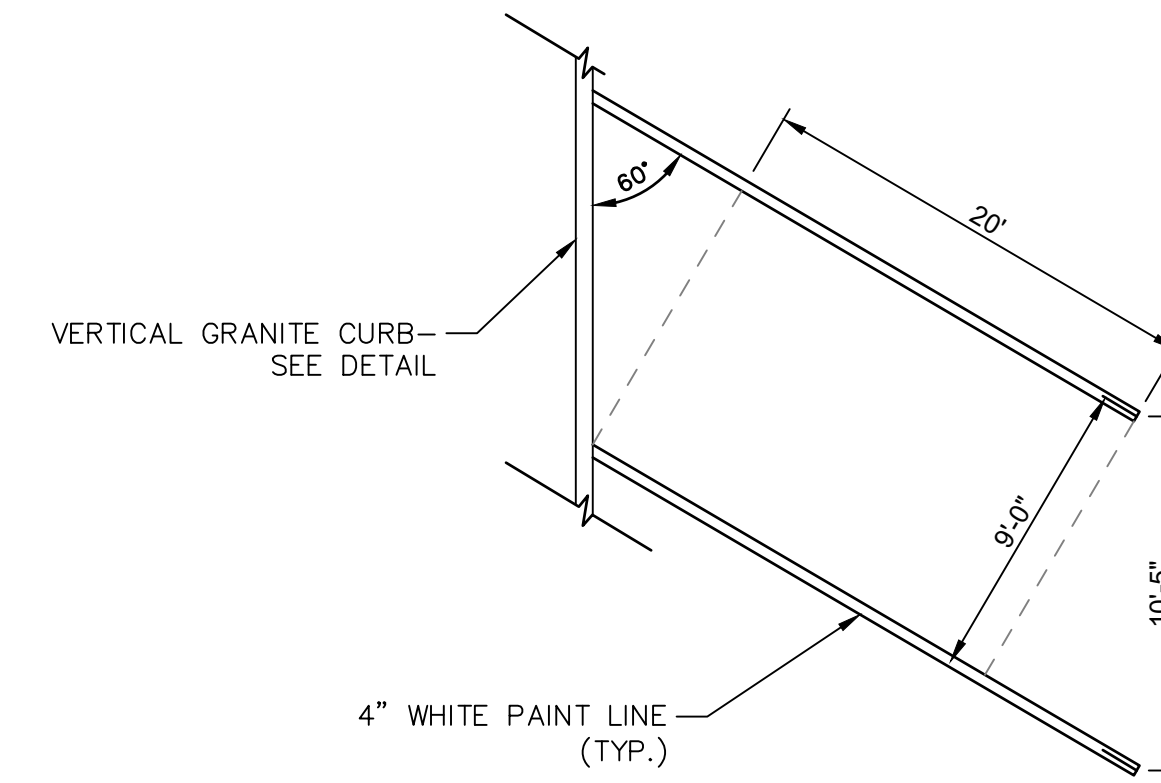
N.T.S.



NOTE:
1. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.
2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

TYPICAL PARKING SPACE DETAIL

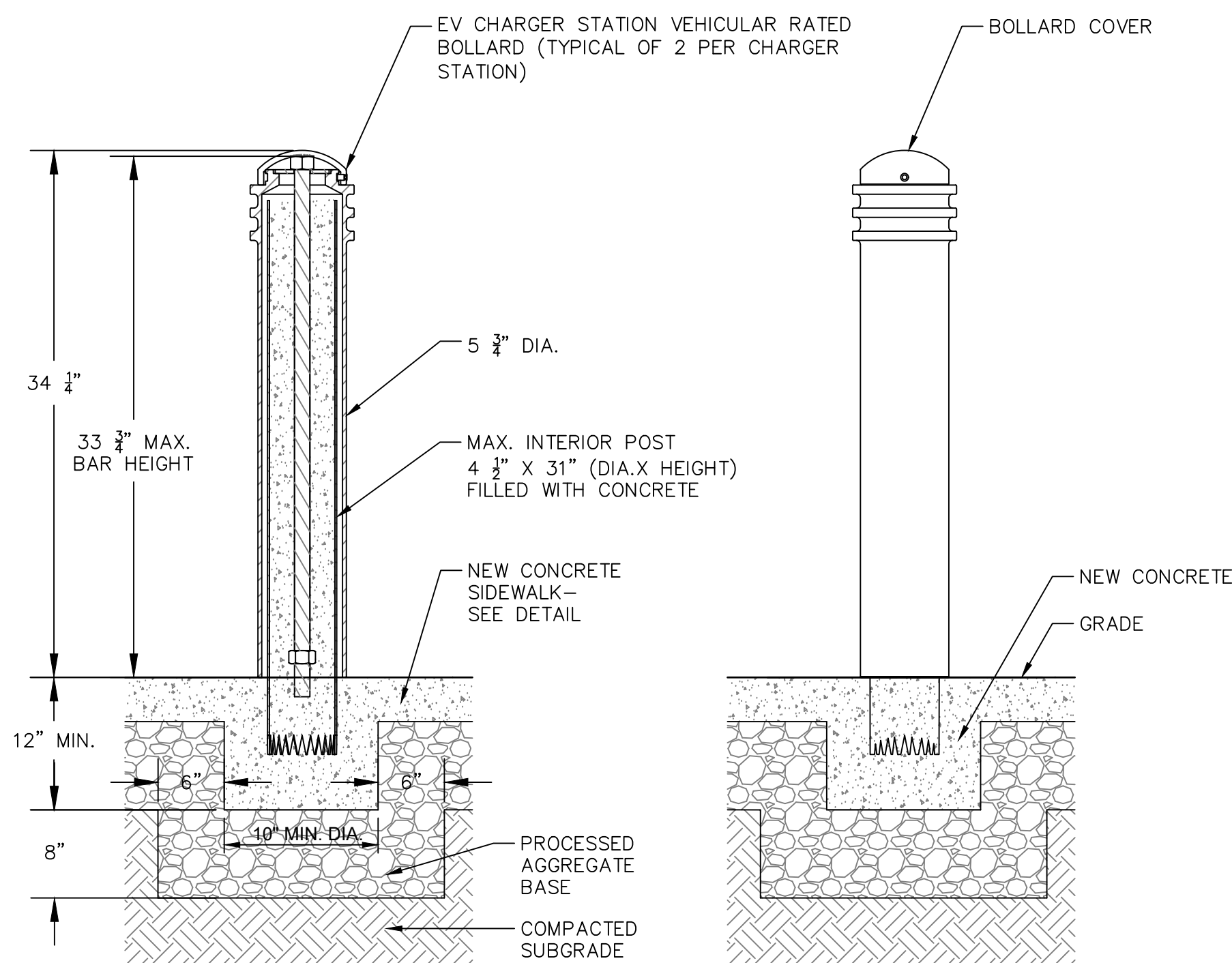
N.T.S.



NOTE:
1. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.
2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

60 DEGREE ANGLED PARKING

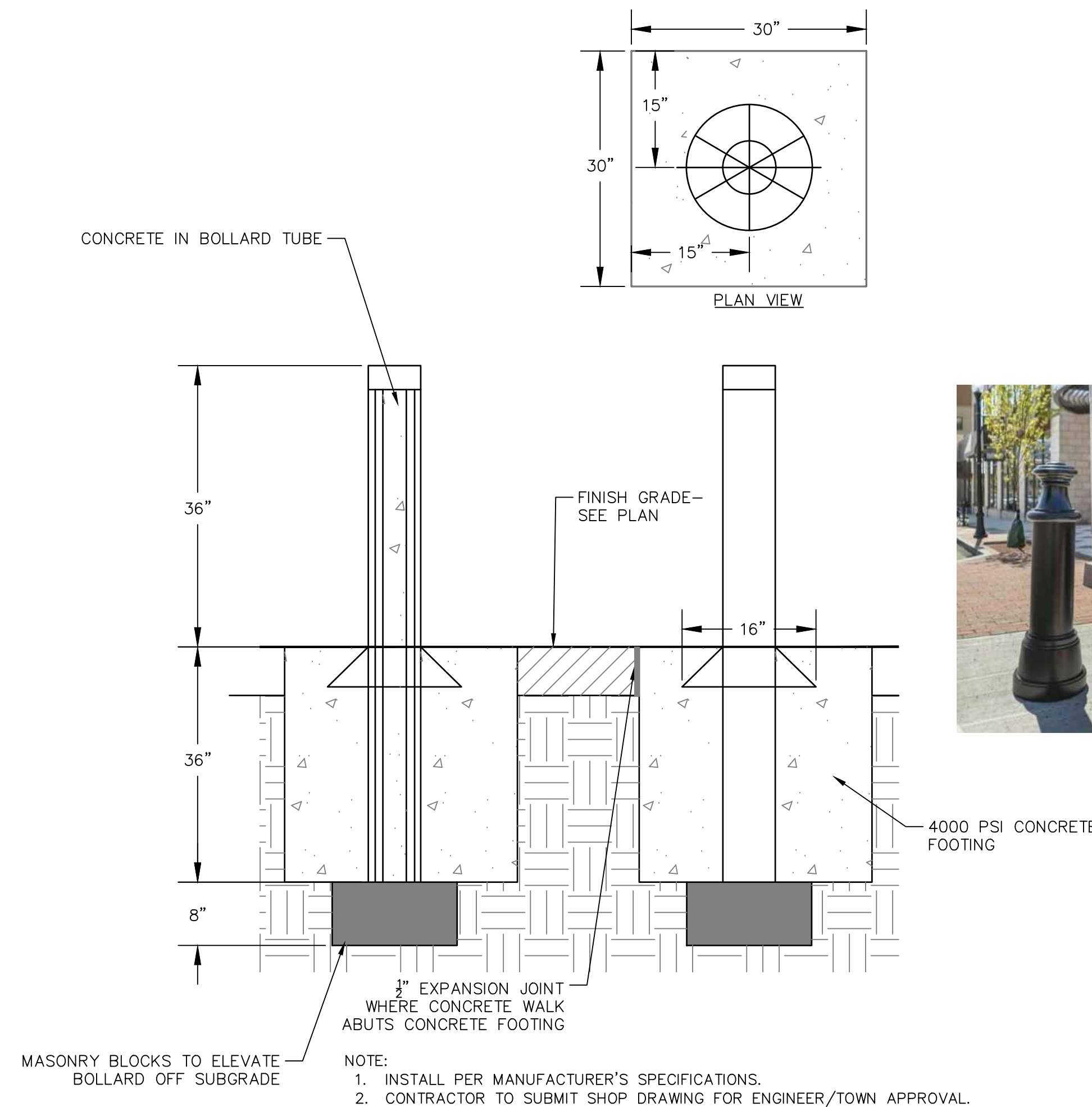
N.T.S.



NOTE:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

EV CHARGER STATION VEHICULAR RATED BOLLARD

N.T.S.
MANUFACTURER: RELIANCE FOUNDRY (OR APPROVED EQUAL)
PHONE: 1-877-789-3245
WEBSITE: WWW.RELIANCE-FOUNDRY.COM
PRODUCTS: R-7576 DECORATIVE BOLLARD COVER (COLOR: BLACK), ASTM C40 BOLLARD



NOTE:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR ENGINEER/TOWN APPROVAL.

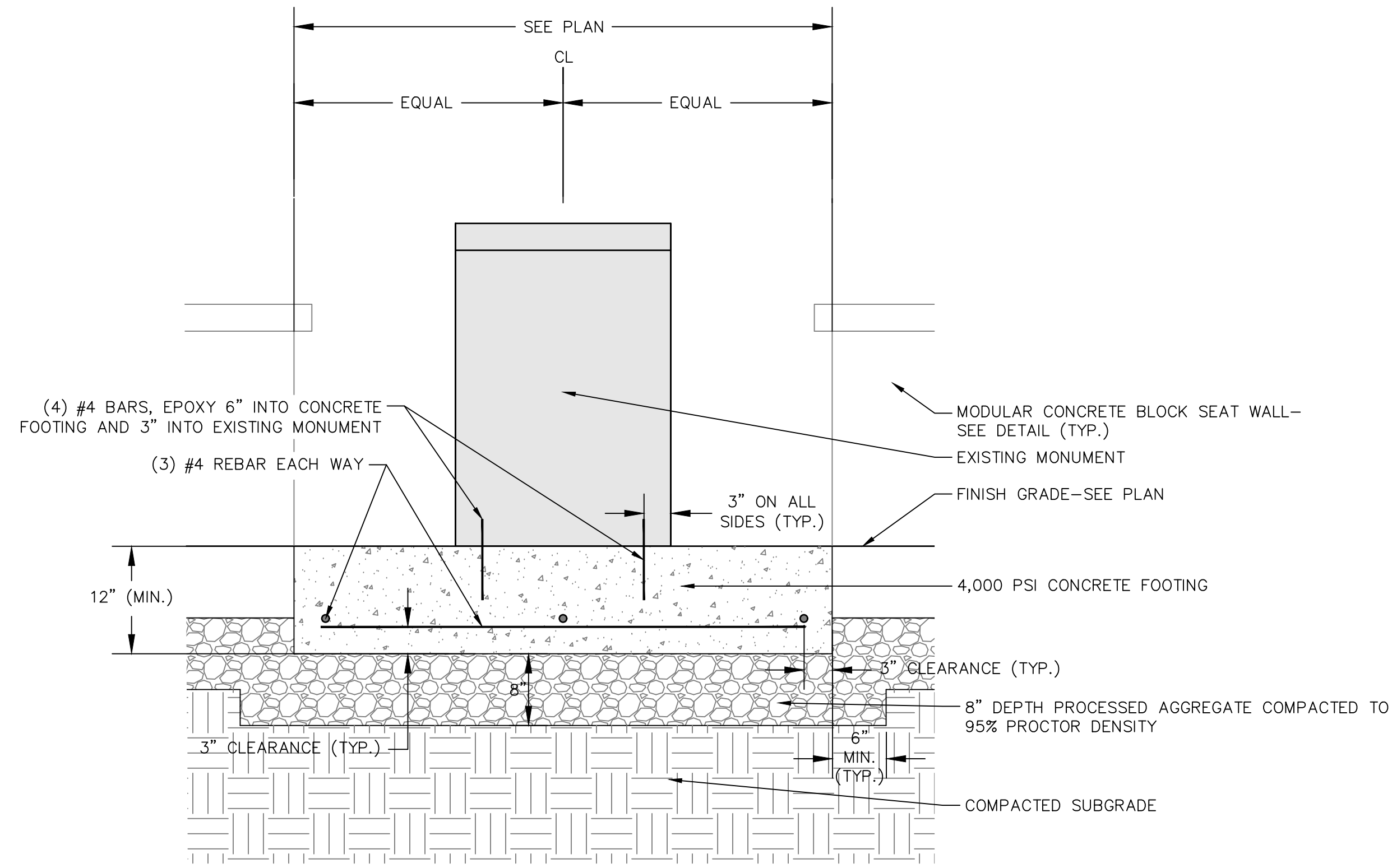
VEHICULAR RATED BOLLARD AT KIOSK

N.T.S.
MANUFACTURER: RELIANCE FOUNDRY (OR APPROVED EQUAL)
PHONE: 1-877-789-3245
WEBSITE: WWW.RELIANCE-FOUNDRY.COM
PRODUCTS: R-7533 DECORATIVE BOLLARD COVER (COLOR: BLACK), ASTM C40 BOLLARD



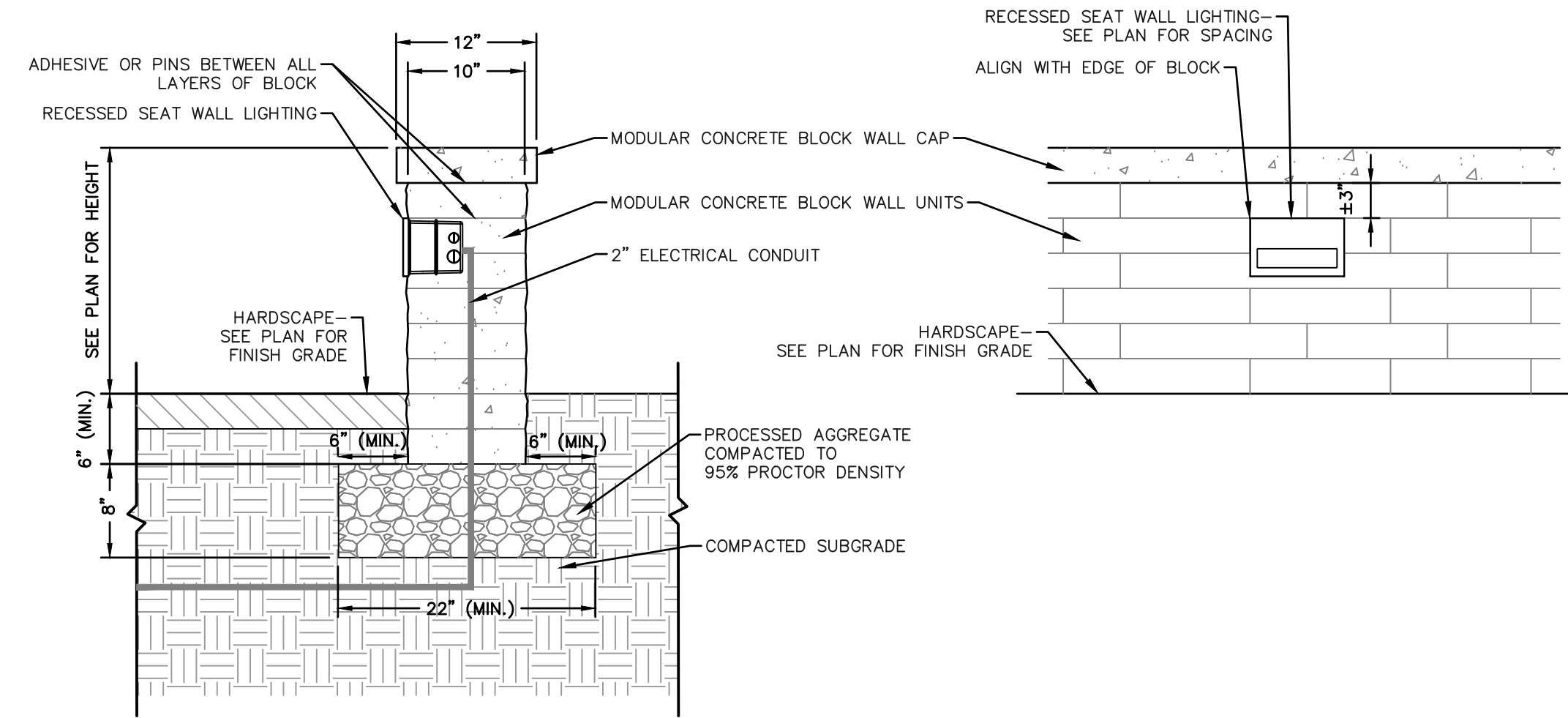
BENCH

N.T.S.
NOTE:
1. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



RELOCATED MONUMENT

N.T.S.



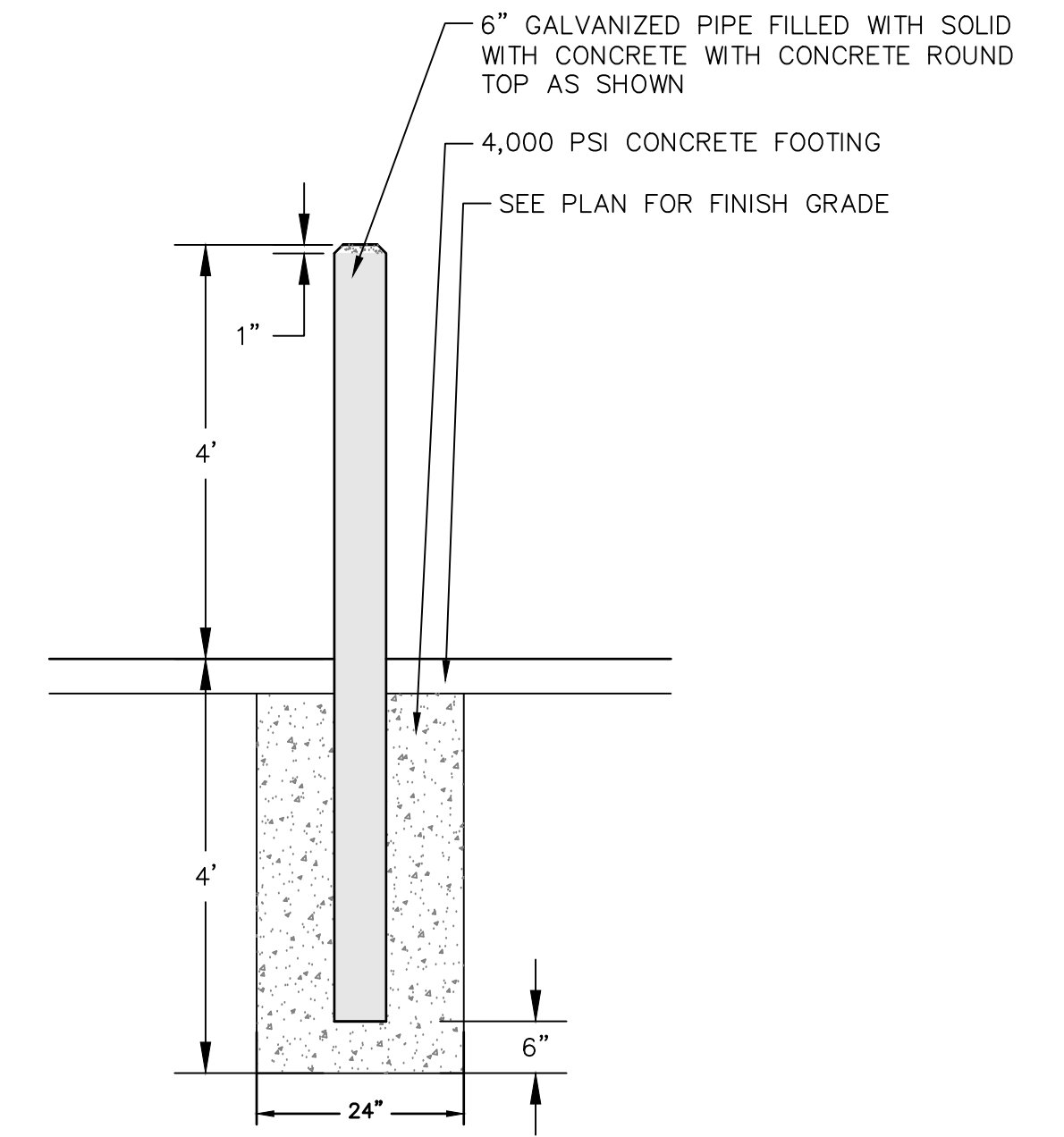
NOTES:

1. SEAT WALL COLOR TO BE APPROVED BY OWNER/LANDSCAPE ARCHITECT

MODULAR CONCRETE BLOCK SEAT WALL AND RECESSED LIGHTING

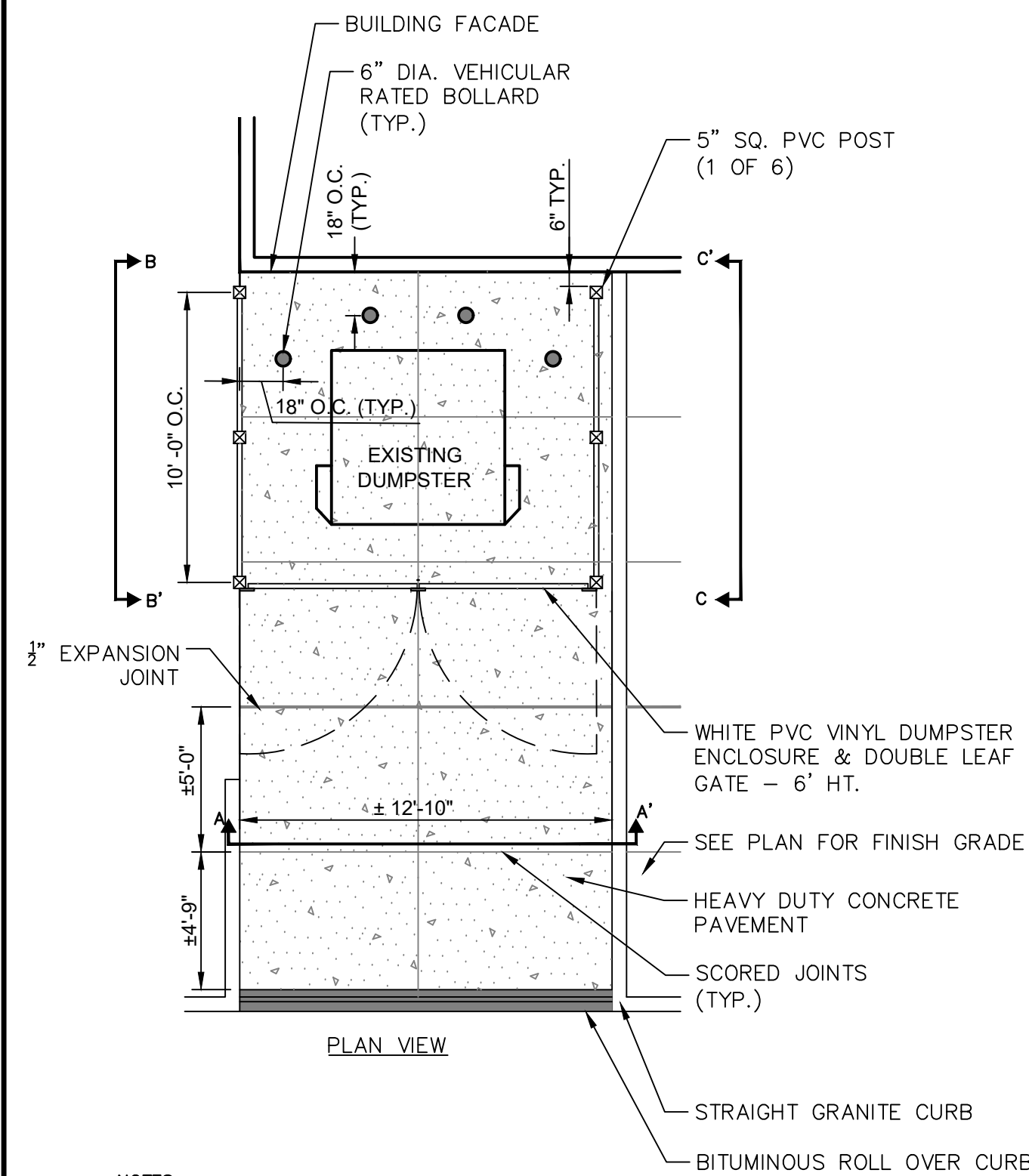
SCALE: N.T.S.

SEAT WALL MANUFACTURER: PAVERS BY IDEAL (OR APPROVED EQUAL)
 PHONE: 978-692-3076
 WEBSITE: WWW.IDEALCONCRETEBLOCK.COM
 WALL STONE: 3" ANCESTRAL
 PATTERN: 3" HIGH RUNNING BOND
 WALL COLOR: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT
 CAP STONE: ANCESTRAL COPING
 CAP STONE COLOR: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT
 RECESSED WALL LIGHT MANUFACTURER: B-K LIGHTING
 PRODUCT: YUKON
 INDIRECT FACEPLATE OPTION: STANDARD
 INDIRECT BACK PLATE OPTION: STEPPED
 COLOR/FINISH: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT



6" DIA. VEHICULAR RATED BOLLARD (AT DUMPSTER ENCLOSURE)

N.T.S.



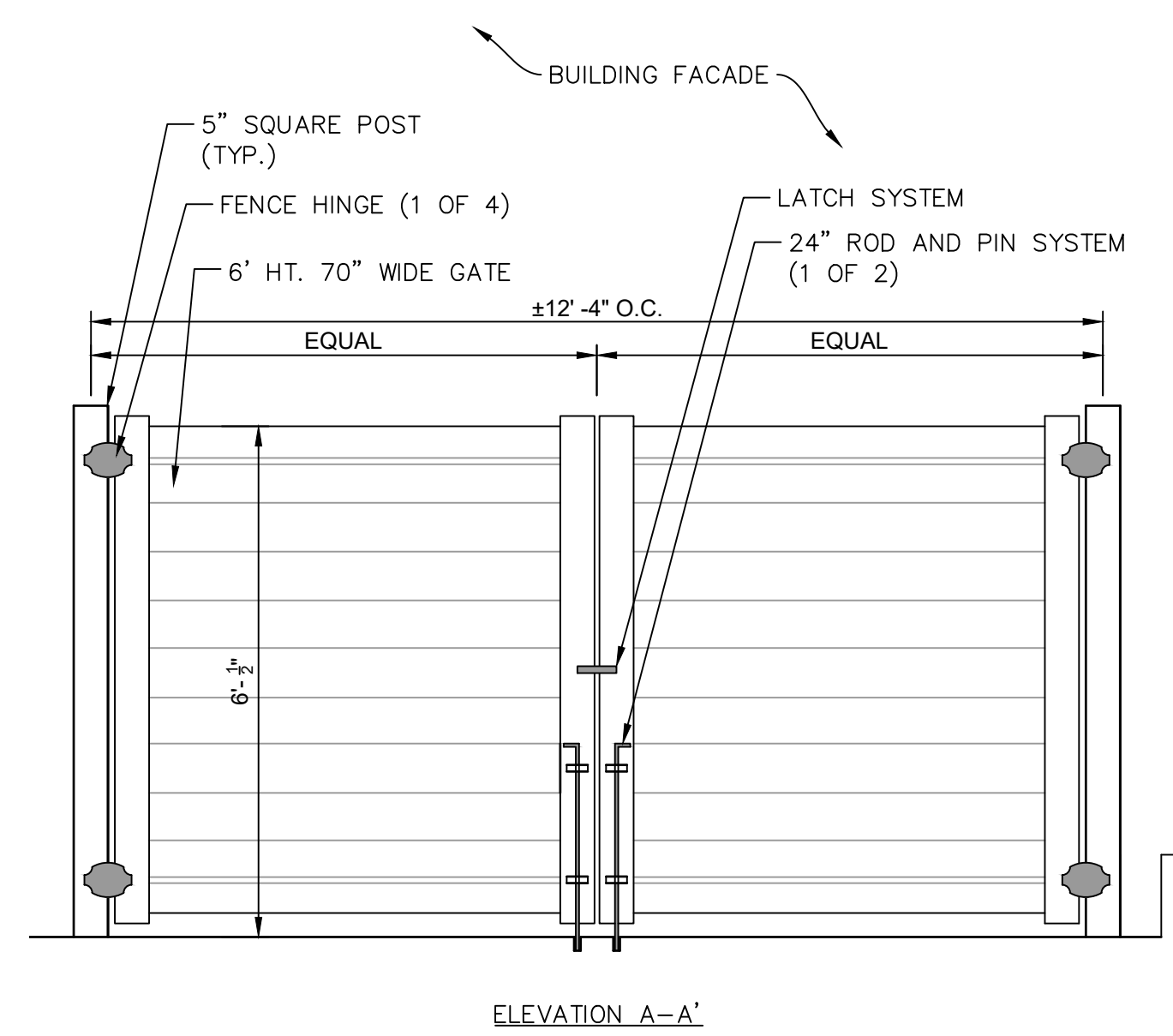
NOTES:

1. INSTALL WALL PER MANUFACTURERS SPECIFICATIONS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS

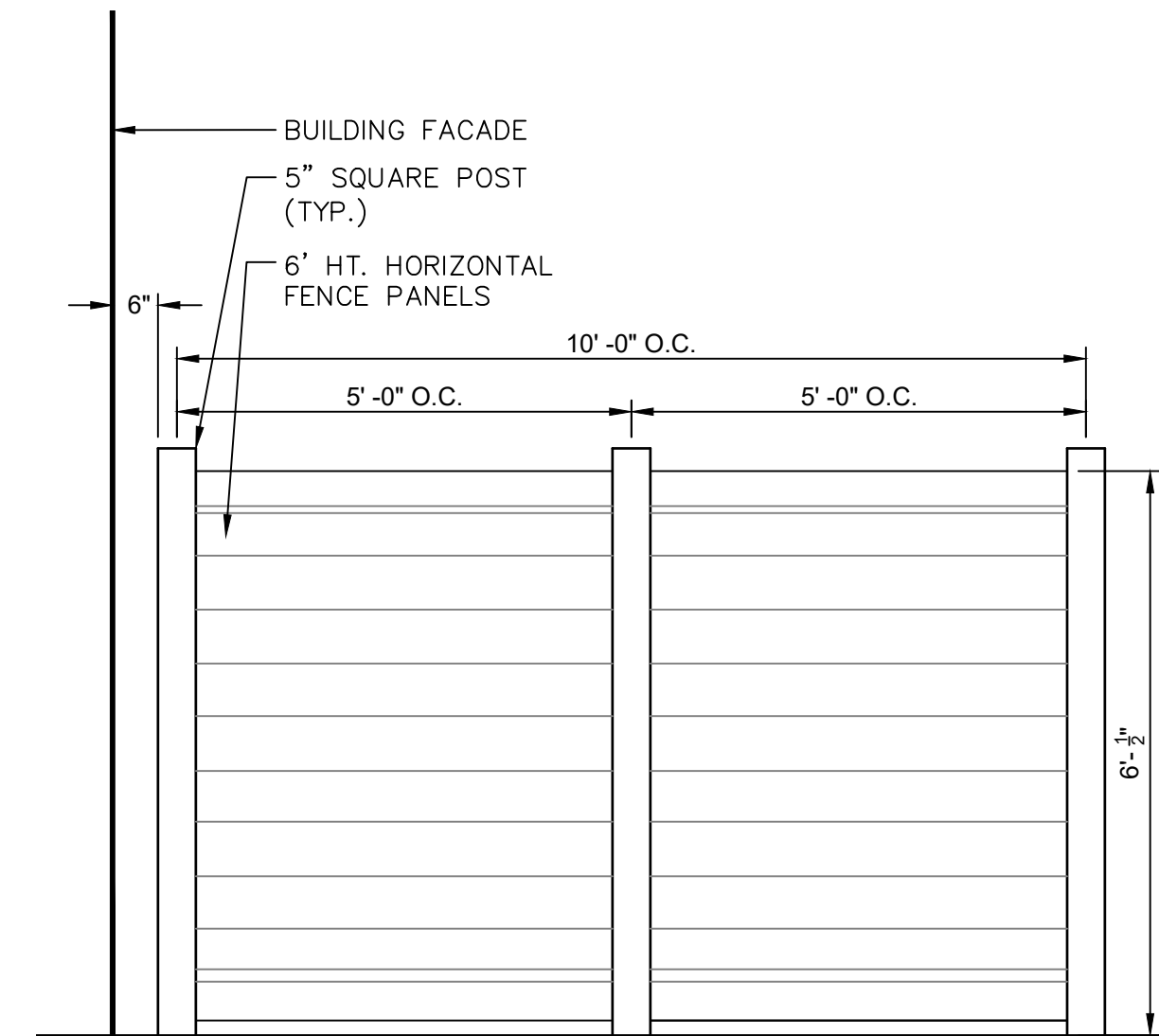
DUMPSTER ENCLOSURE

N.T.S.

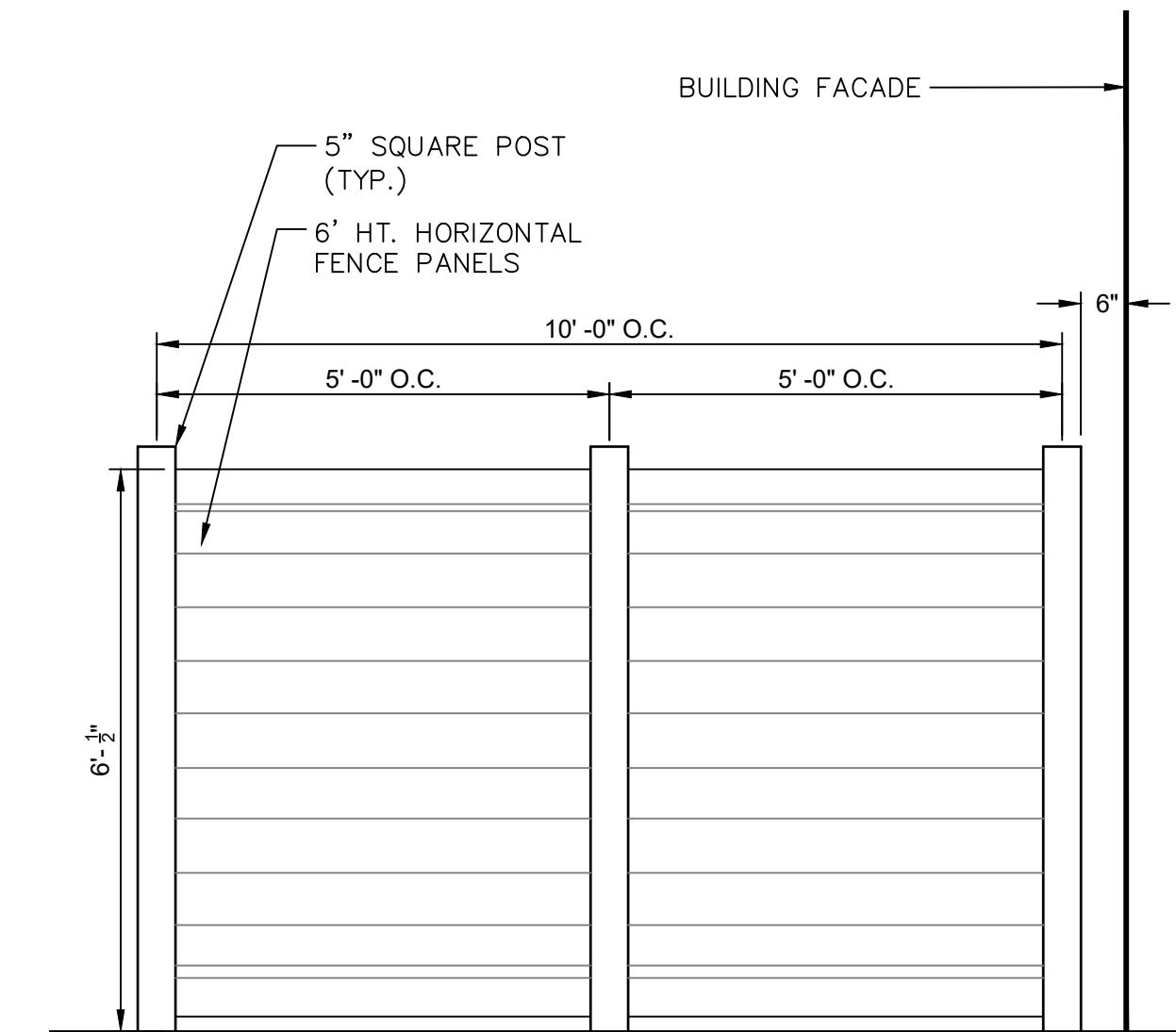
MANUFACTURER: CERTAINTEED CORPORATION (OR APPROVED EQUAL)
 PHONE: 800-233-8990
 WEBSITE: WWW.CERTAINTEED.COM
 PRODUCTS: 6' HT. BROOKLINE FENCE
 COLOR: WHITE



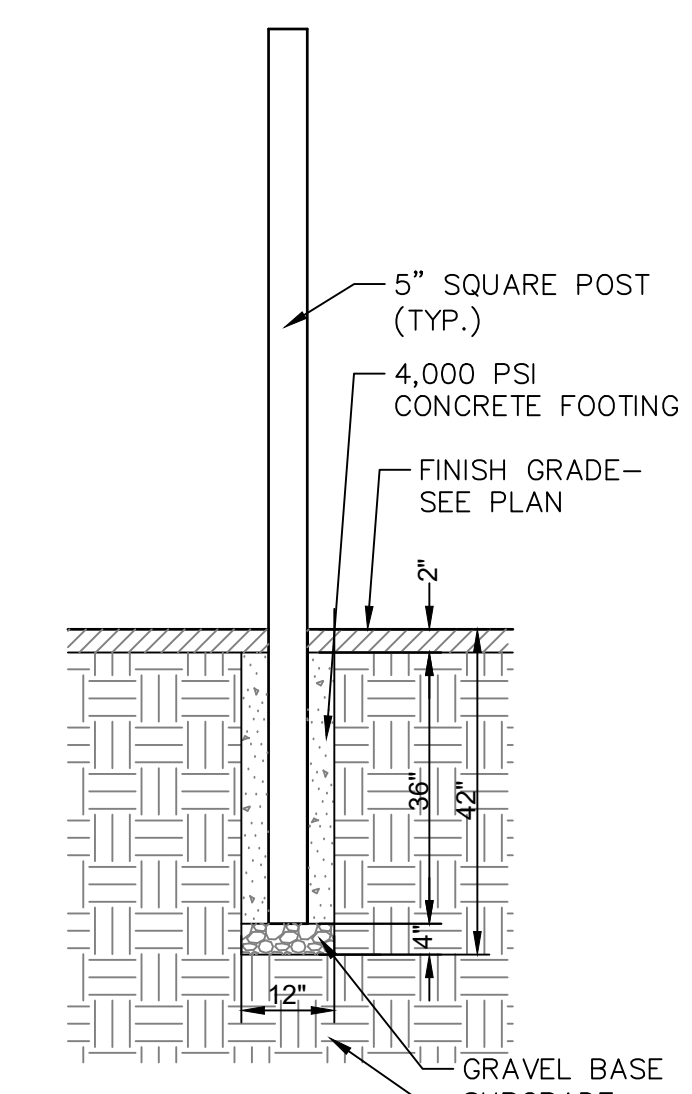
ELEVATION A-A'



ELEVATION B-B'



ELEVATION C-C'

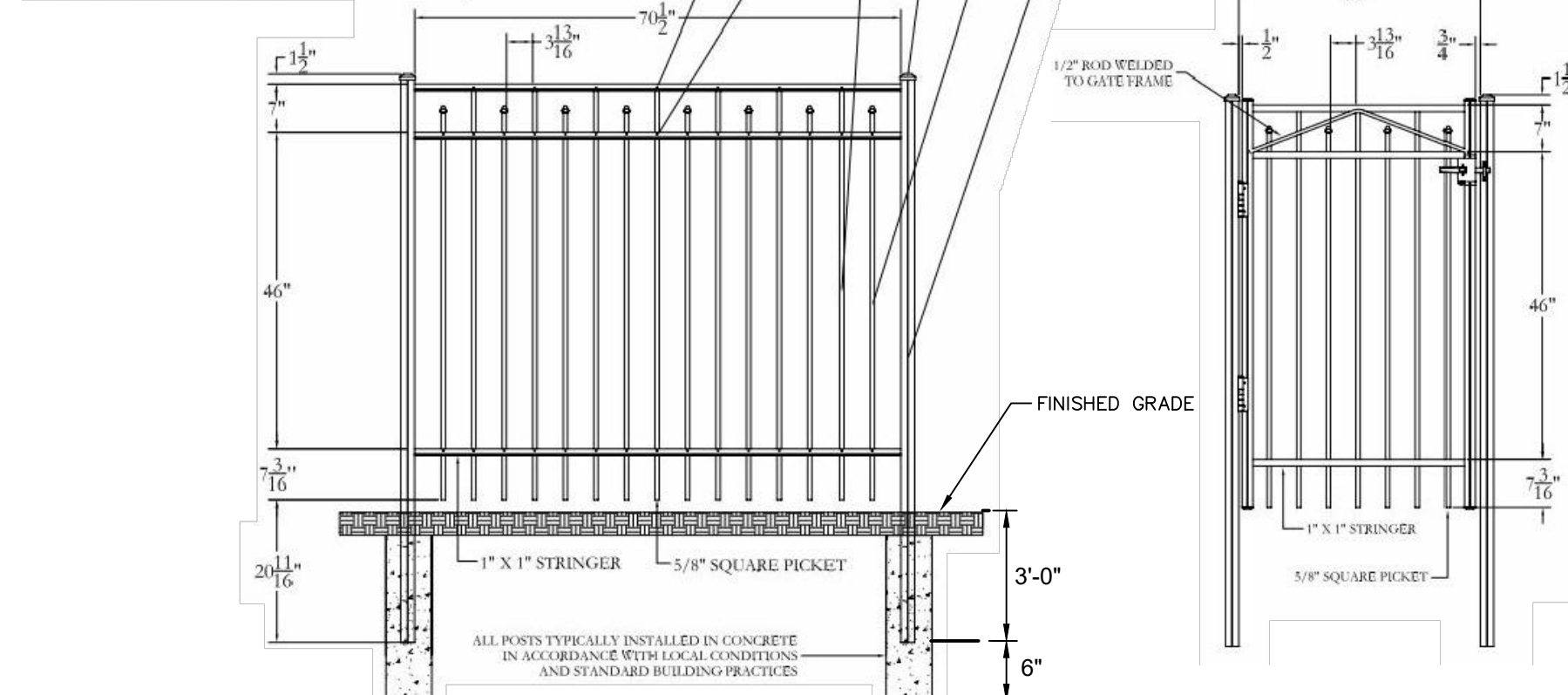


POST AND FOOTING

REVISIONS	No.	Date	Desc.

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801
Title	
SITE DETAILS	
Sheet No.	

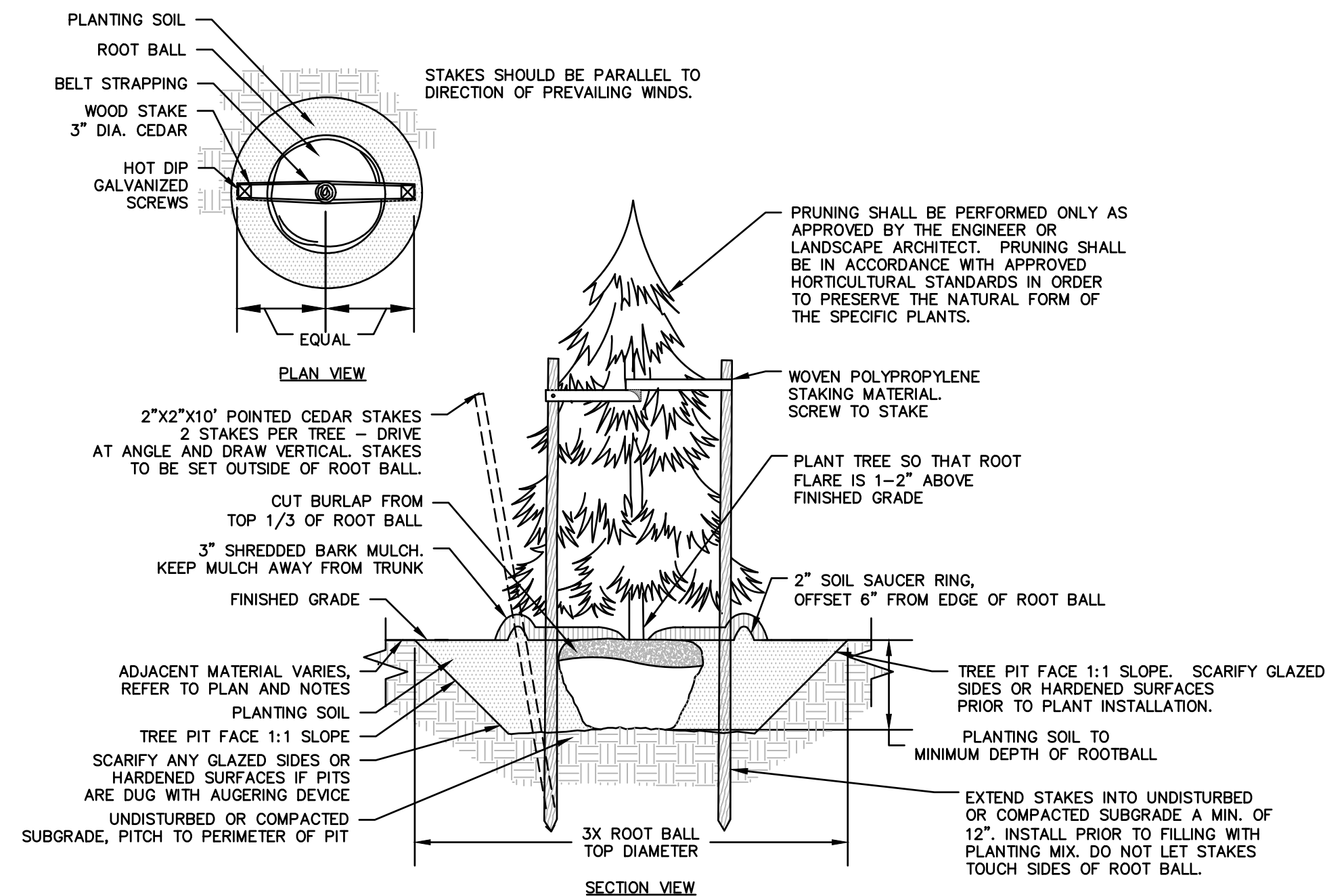
ITEM QTY	FENCE PARTS	NAME
1	1	LIBERTY 200 - 60" PICKET
2	2	7/2" - 15 HOLE LIBERTY STRINGER
3	1	7/2" - 7 HOLE LIBERTY HEADER
4	8	LIBERTY 200 - 60" PICKET
5	2	LIBERTY POST
6	2	ALUMINUM POST CAP



- NOTE:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR ENGINEER/TOWN APPROVAL.

DECORATIVE METAL FENCE

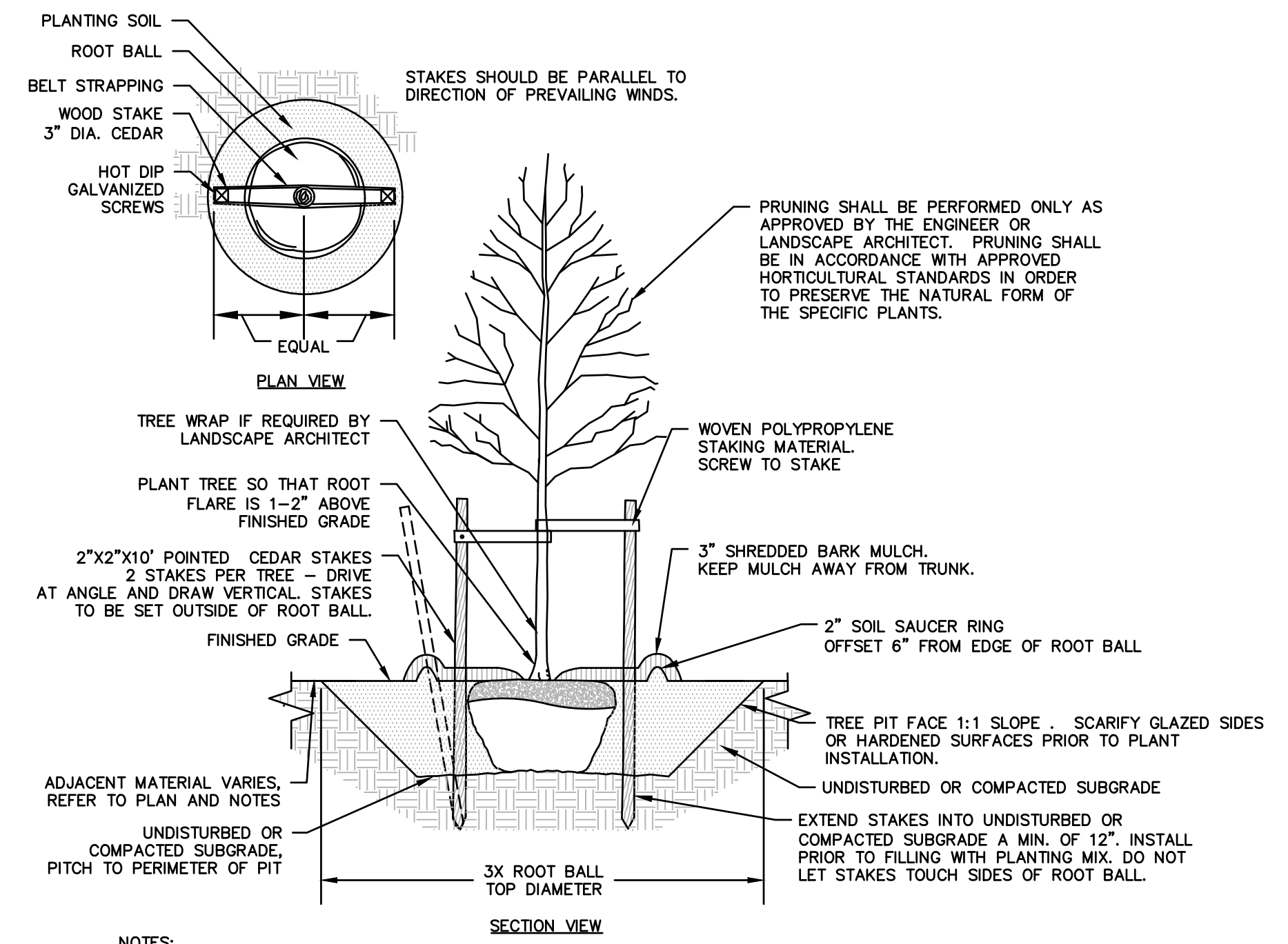
N.T.S.
 MANUFACTURER: JERITH MANUFACTURING CO., INC (OR APPROVED EQUAL)
 ADDRESS: 14400 MCNUITY ROAD, PHILADELPHIA, PA 19154
 PHONE: 800-344-2242
 WEBSITE: WWW.JERITH.COM
 FENCE STYLE: LIBERTY FENCE #200; 60" HEIGHT
 GATE STYLE: LIBERTY GATE #200 60" HEIGHT X 36" WIDE
 FENCE AND GATE COLOR: POWDERCOATED BLACK



- NOTES:
1. STAKING FOR TREES ON 4:1 SLOPES OR LESS TO BE PERFORMED AT CONTRACTOR'S DISCRETION.
 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORTIE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICANT, COMPLETELY REMOVE IT FROM ROOT BALL.

EVERGREEN TREE PLANTING

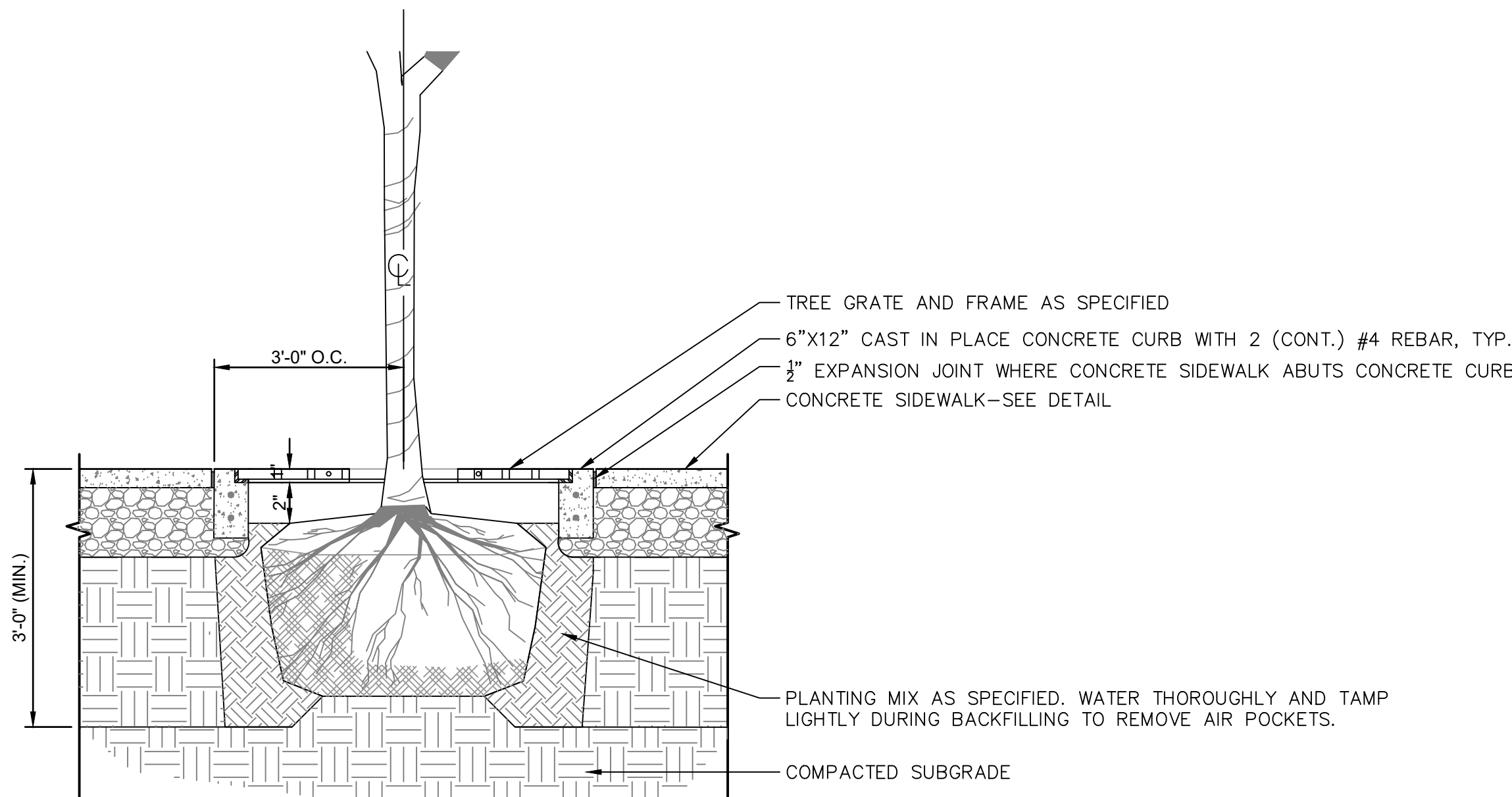
N.T.S.



- NOTES:
1. STAKING FOR TREES ON 4:1 SLOPES OR LESS THAN 3" CALIPER TO BE PERFORMED AT CONTRACTORS DISCRETION.
 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORTIE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICANT, COMPLETELY REMOVE IT FROM ROOT BALL.

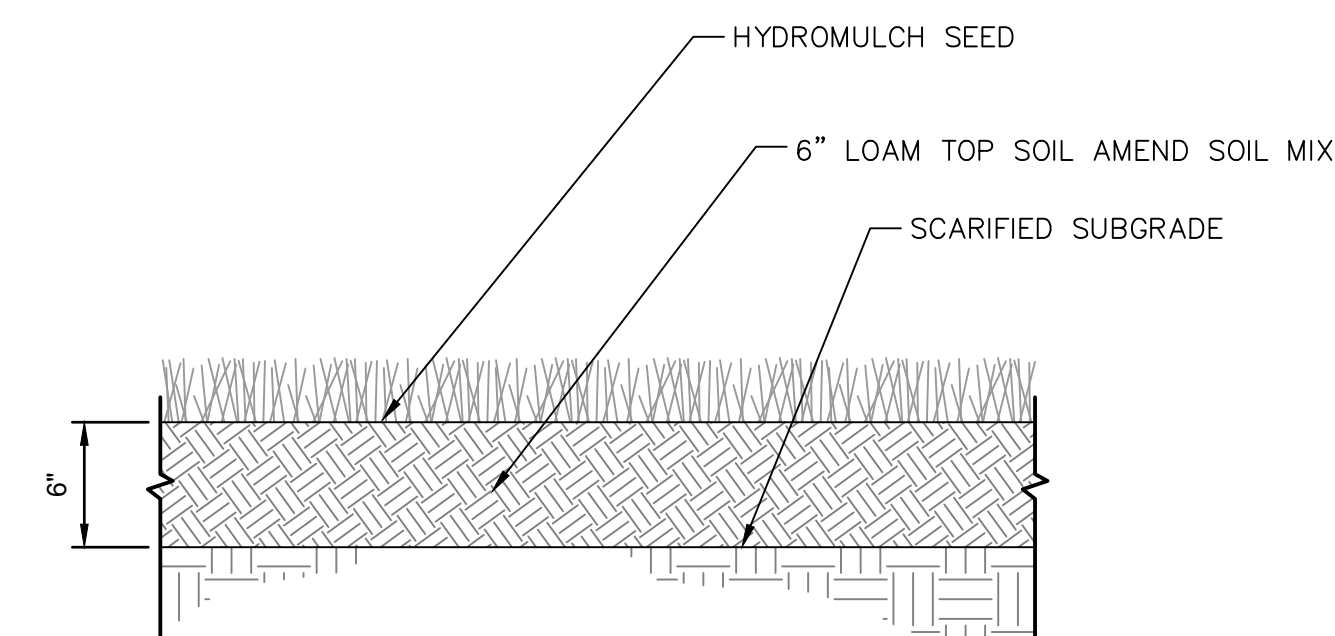
DECIDUOUS TREE PLANTING

N.T.S.



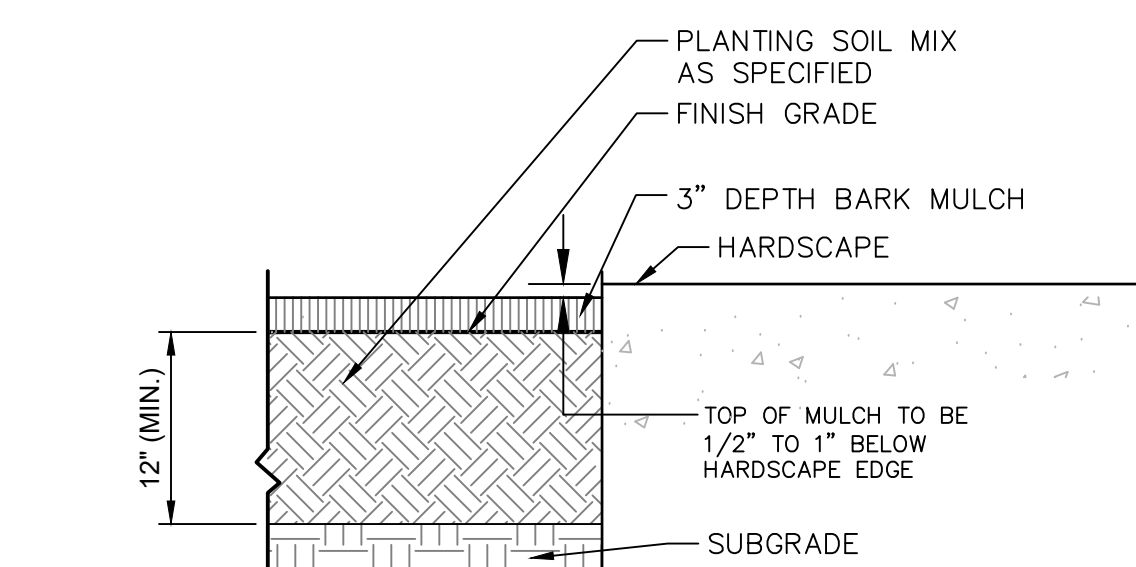
TREE GRATE

N.T.S.



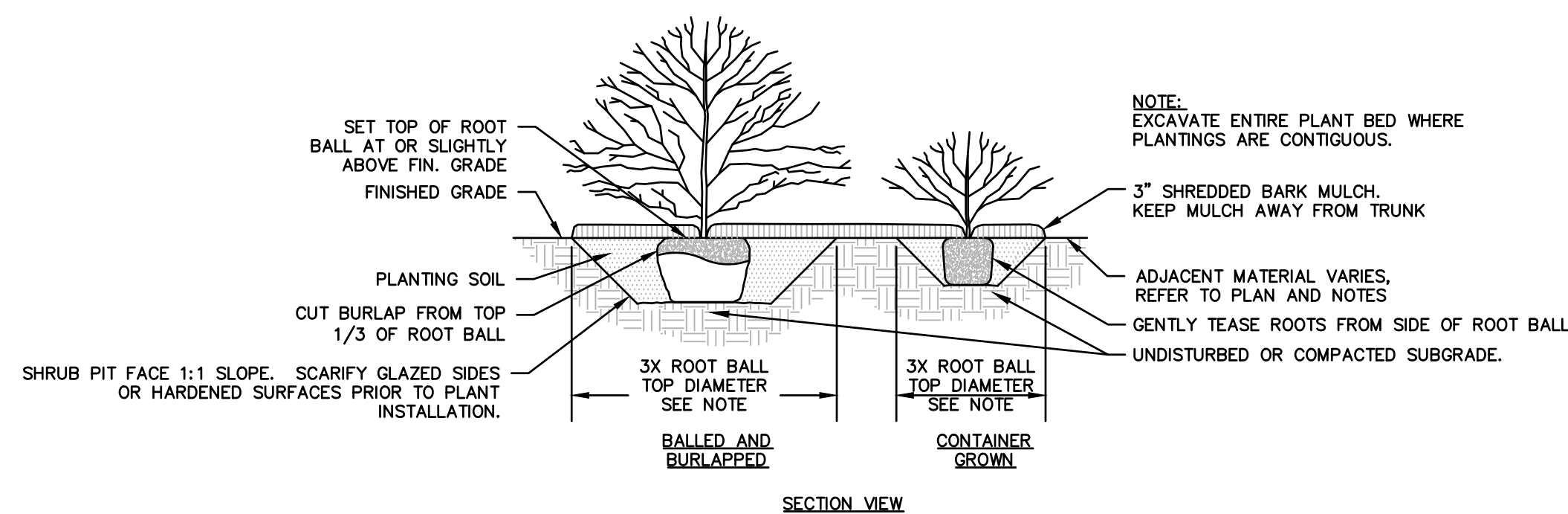
LOAM AND SEED, TYP.

N.T.S.



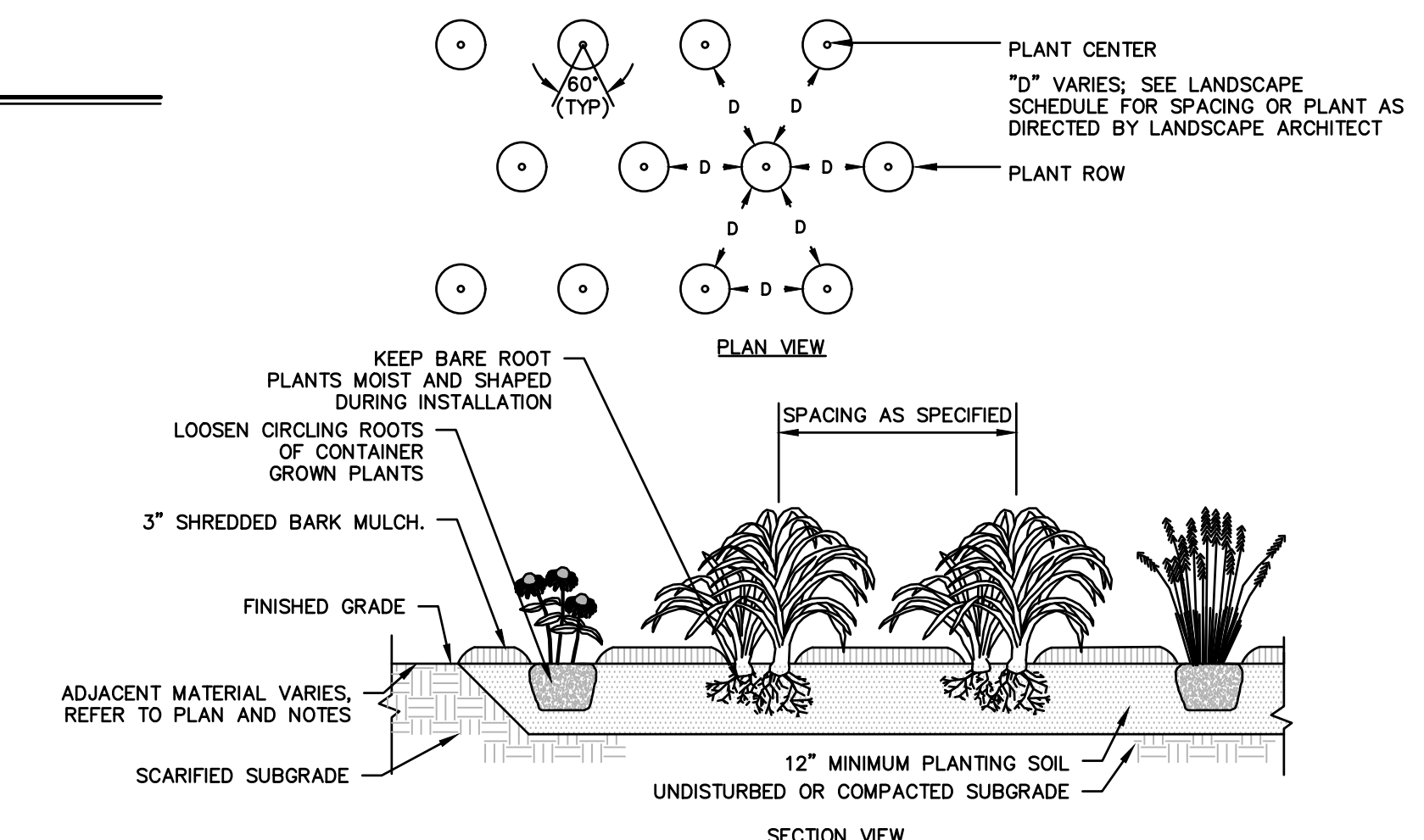
MULCH PLANT BED

N.T.S.



SHRUB PLANTING, TYP.

N.T.S.



GROUNDCOVER/PERENNIAL PLANTING

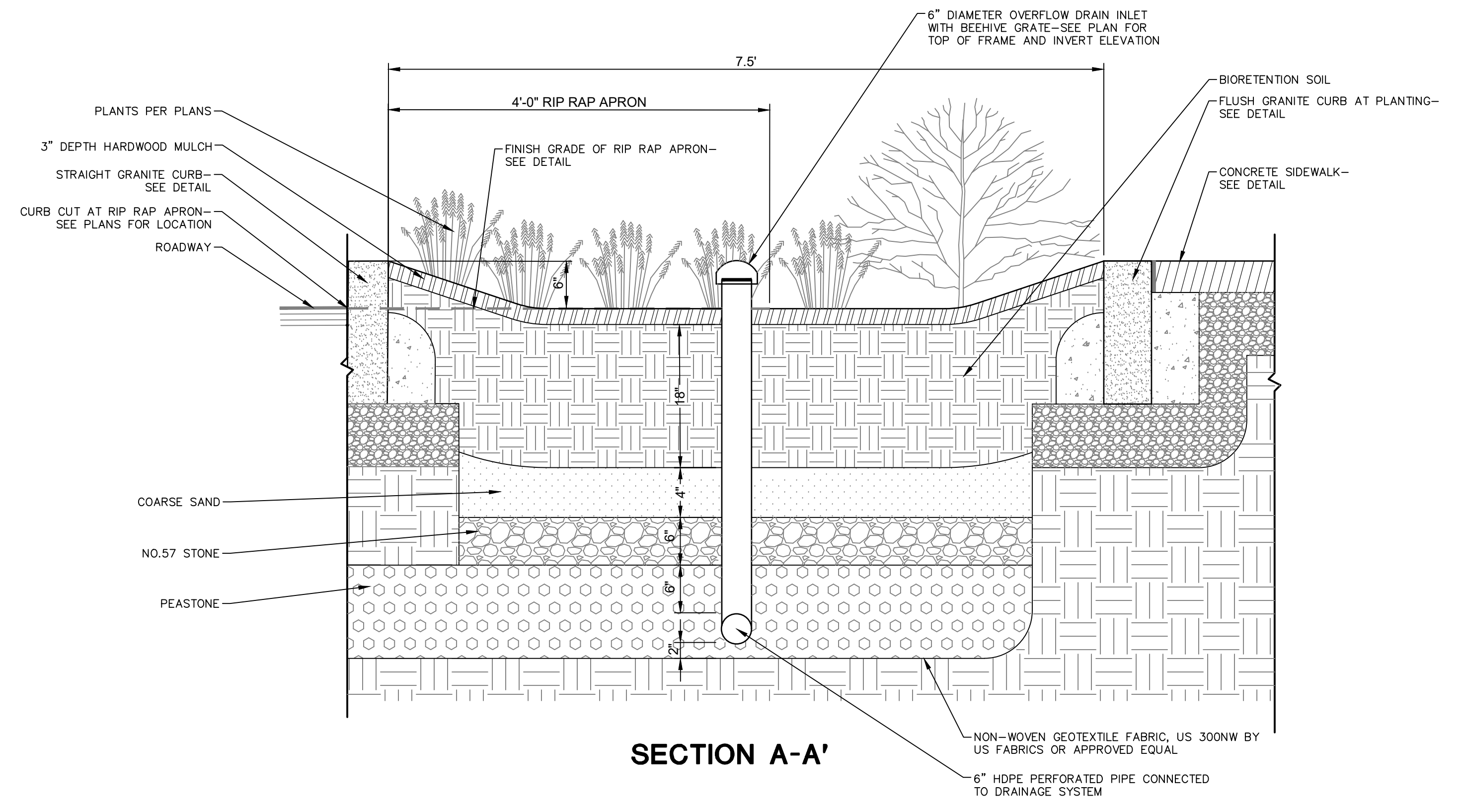
N.T.S.

REVISIONS	No.	Date	Desc.

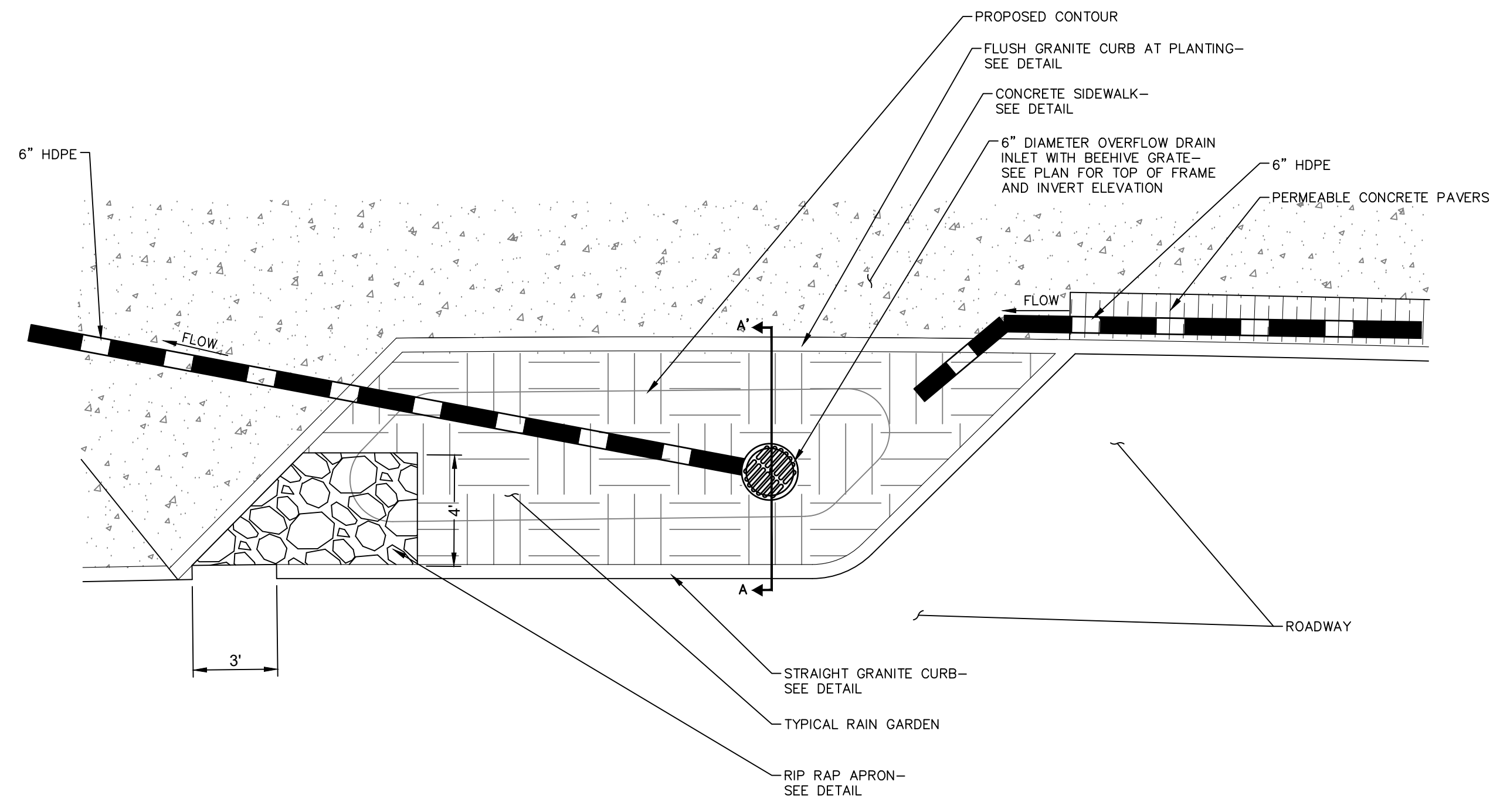
Designed: K.A.
Drawn: K.A.
Reviewed: M.M.
Scale:
Project No.: 2001478
Date: FEBRUARY, 2022
CAD File: DN200147801

Title:
SITE LANDSCAPE DETAILS

Sheet No.
DN-10

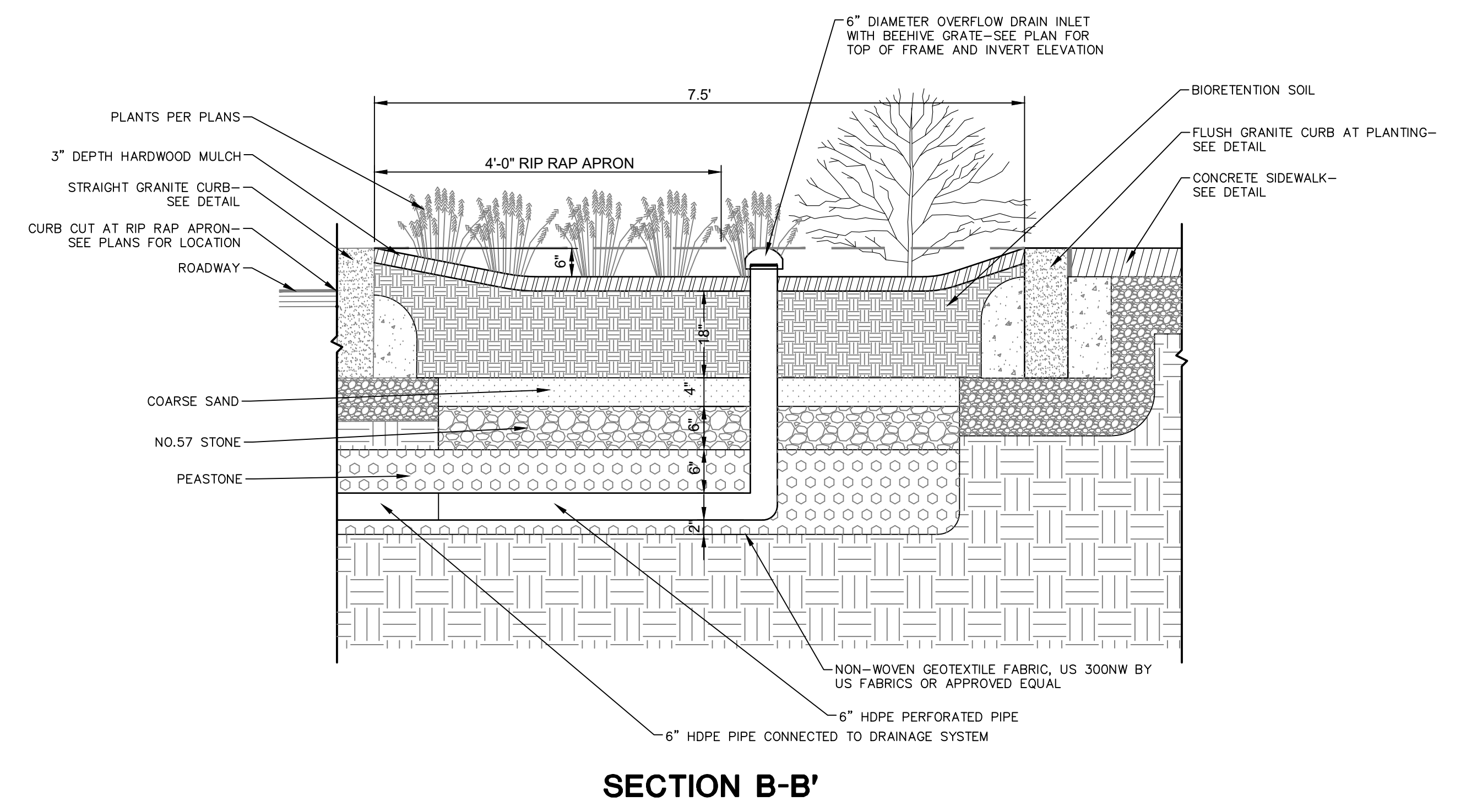


SECTION A-A'

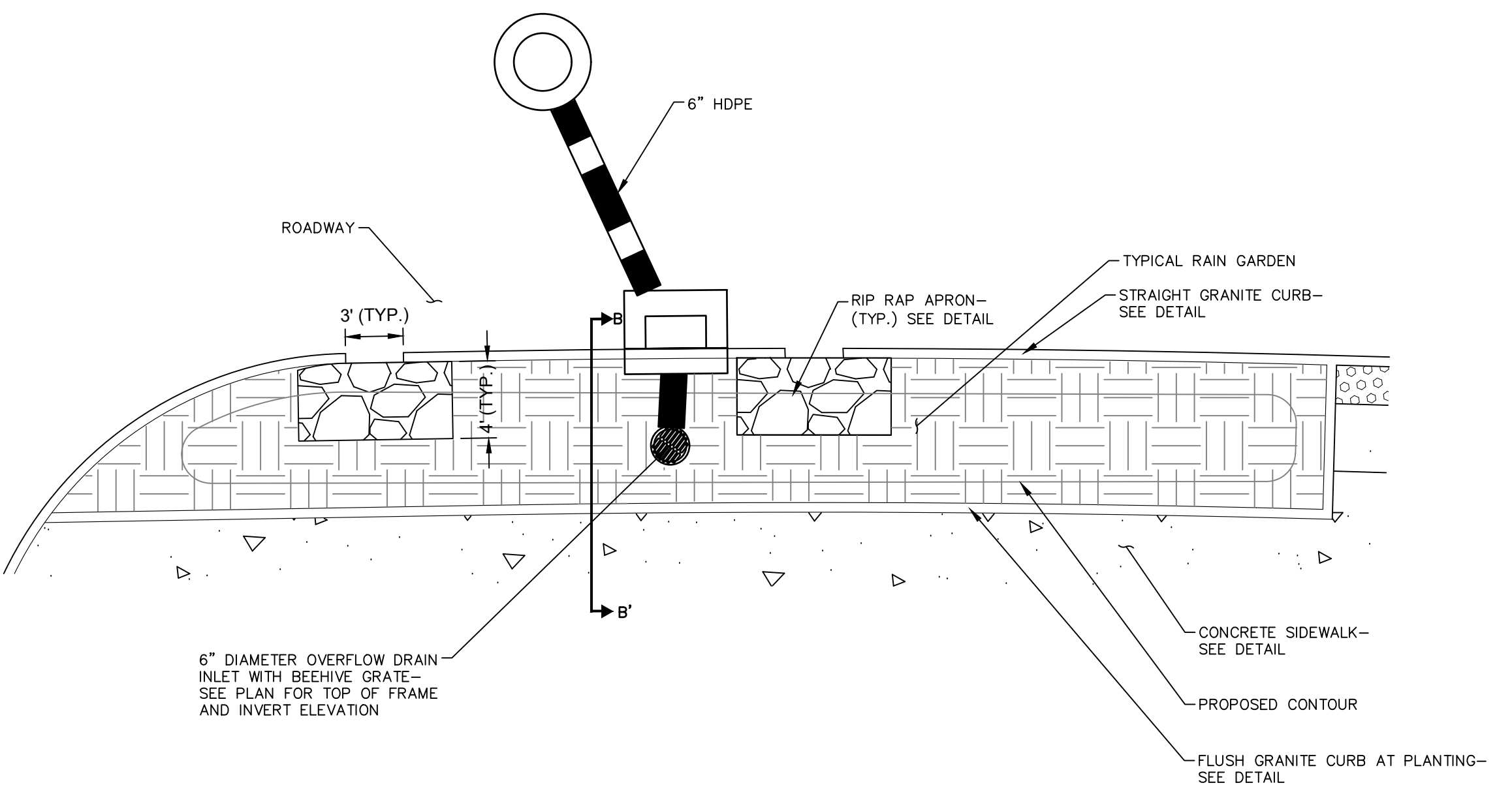


TYPICAL RAIN GARDEN DETAIL -TYPE A

N.T.S.

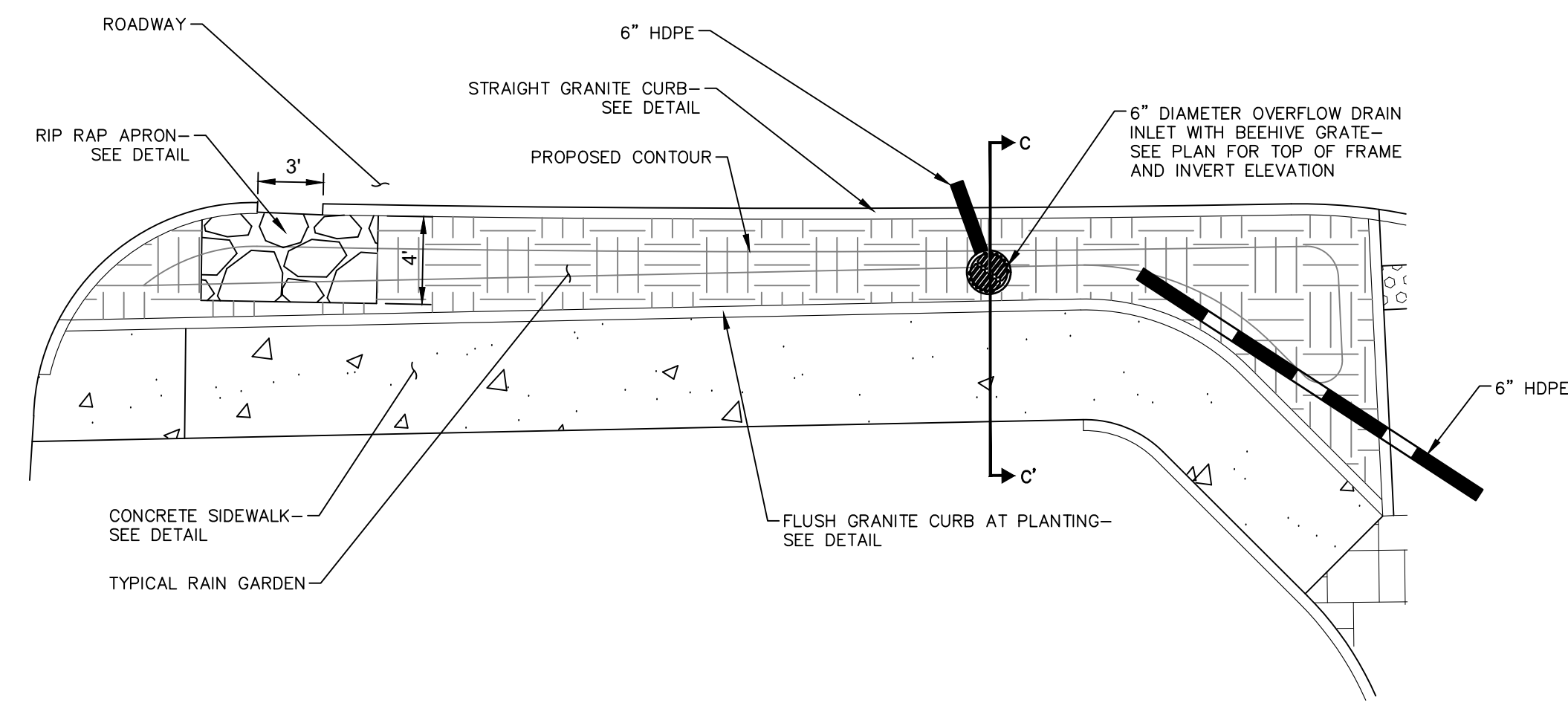


SECTION B-B'



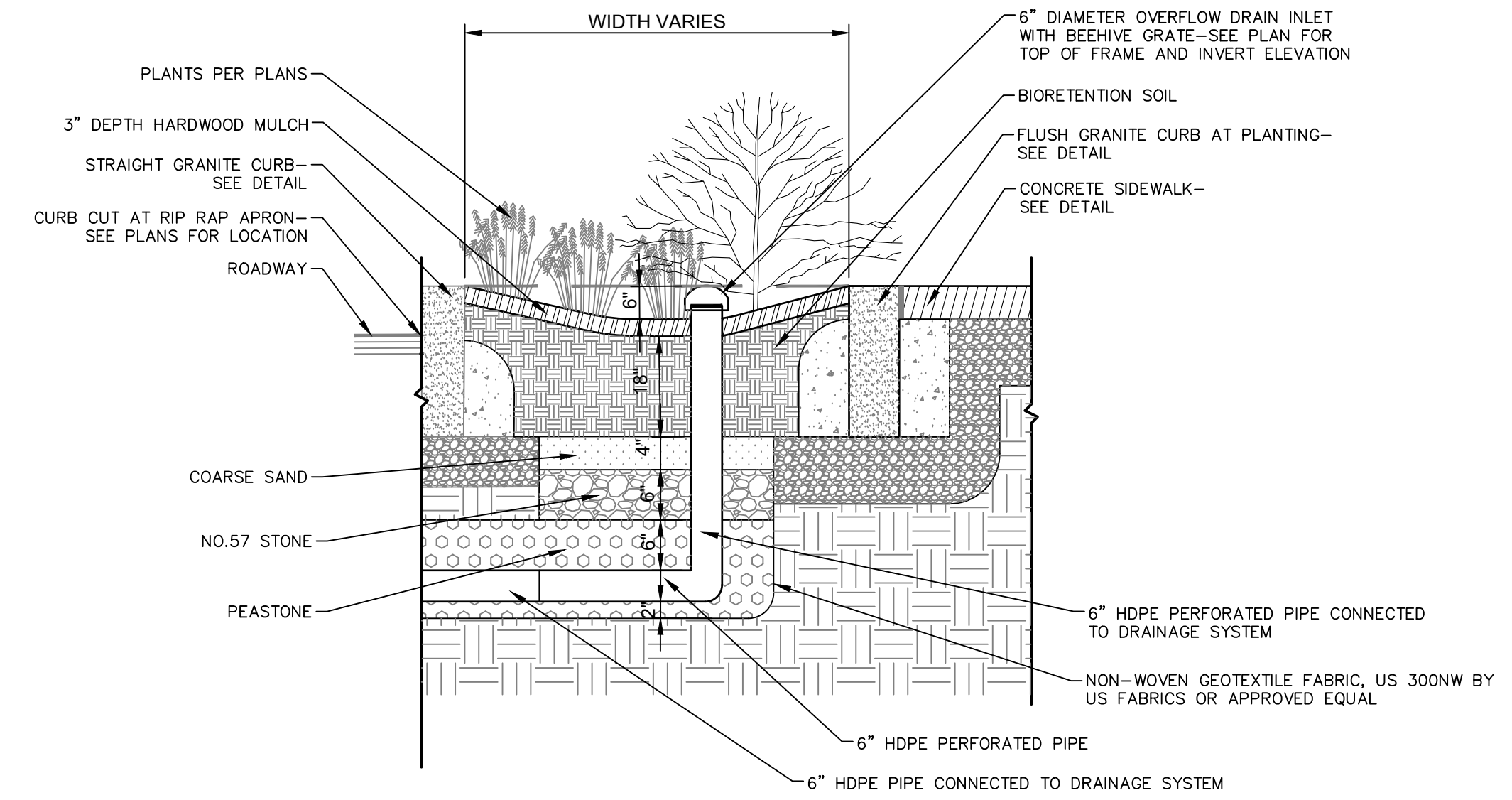
TYPICAL RAIN GARDEN DETAIL -TYPE B

N.T.S.

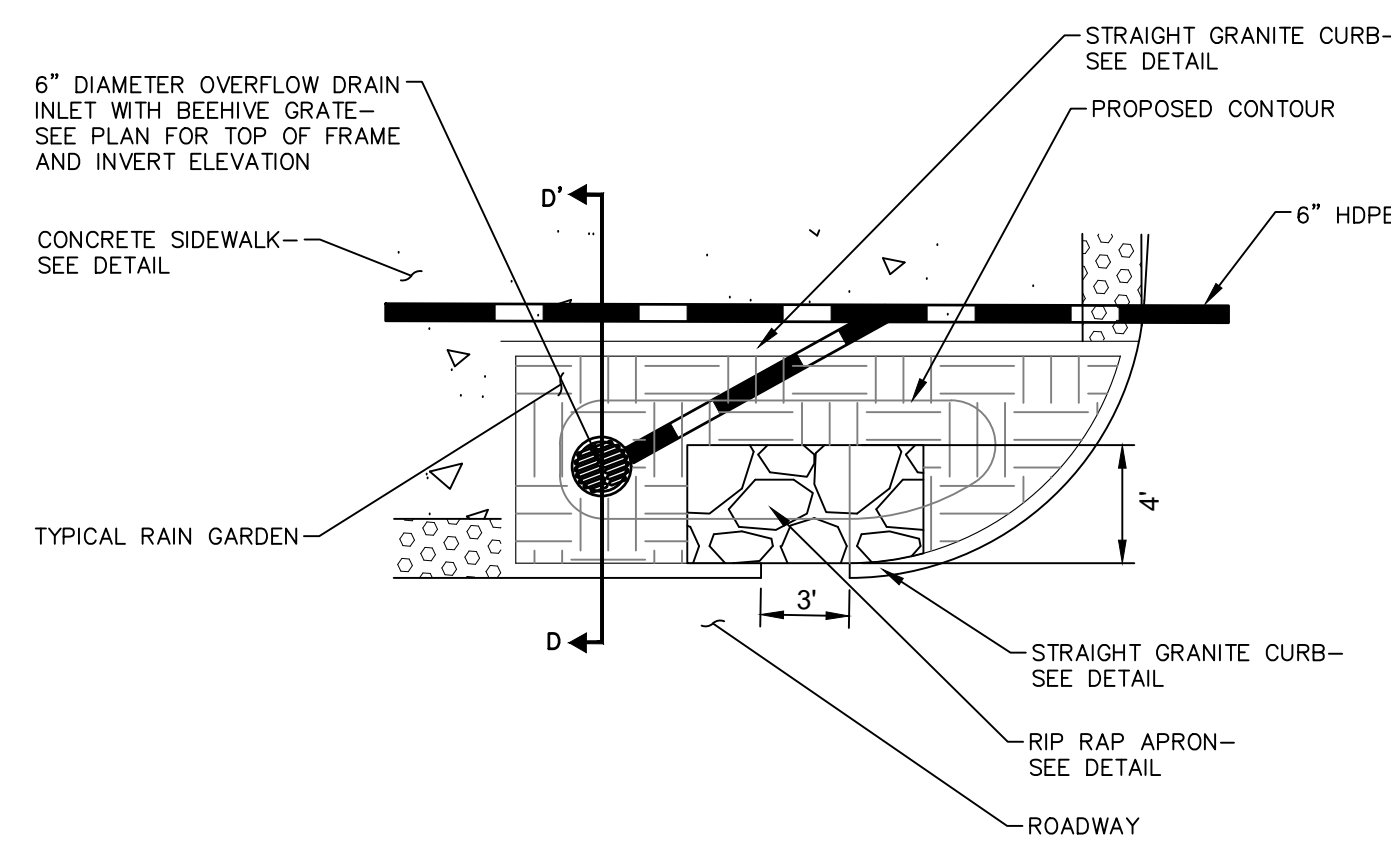


TYPICAL RAIN GARDEN DETAIL -TYPE C

N.T.S.

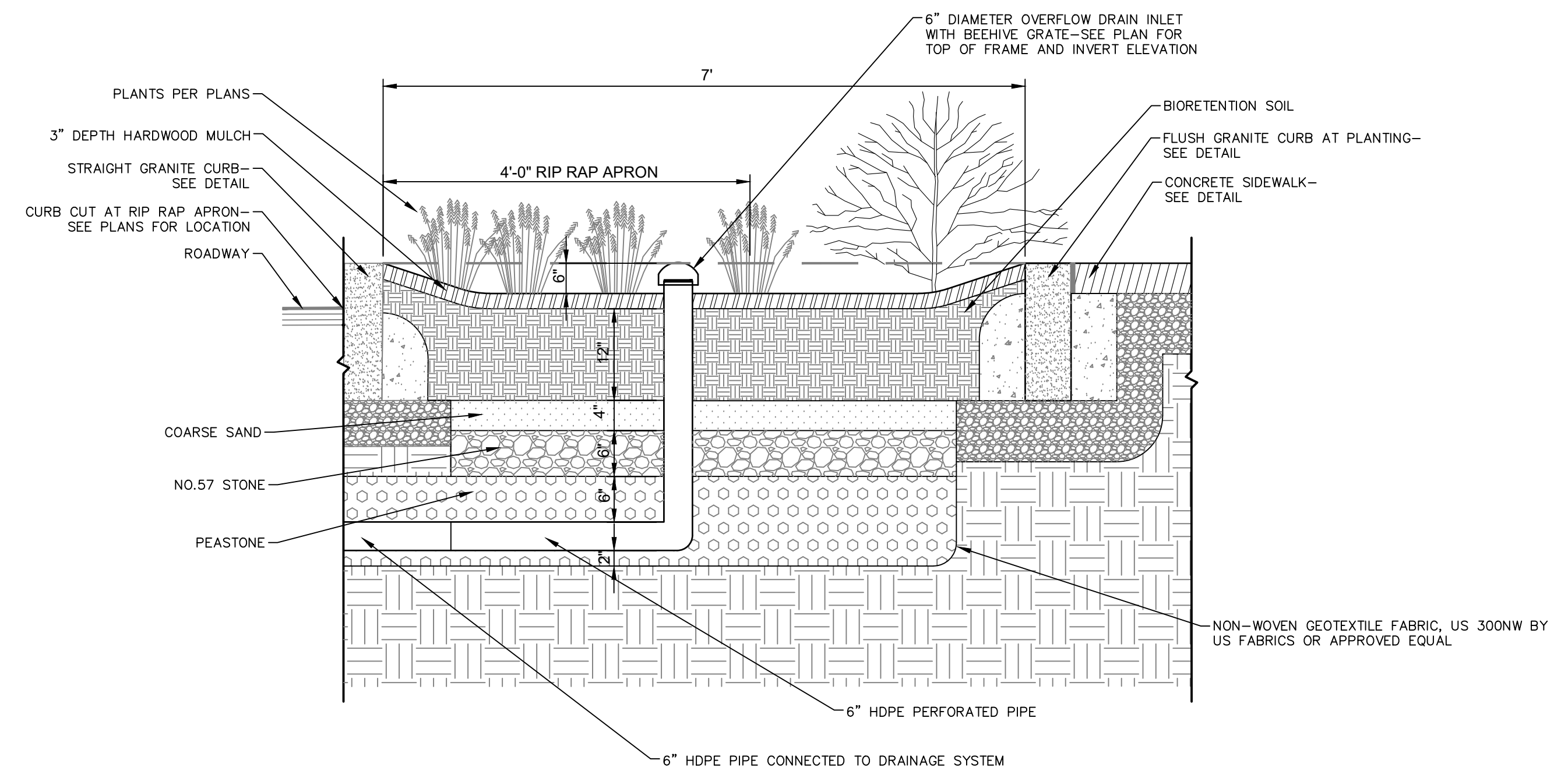


SECTION C-C'



TYPICAL RAIN GARDEN DETAIL -TYPE D

N.T.S.



SECTION D-D'

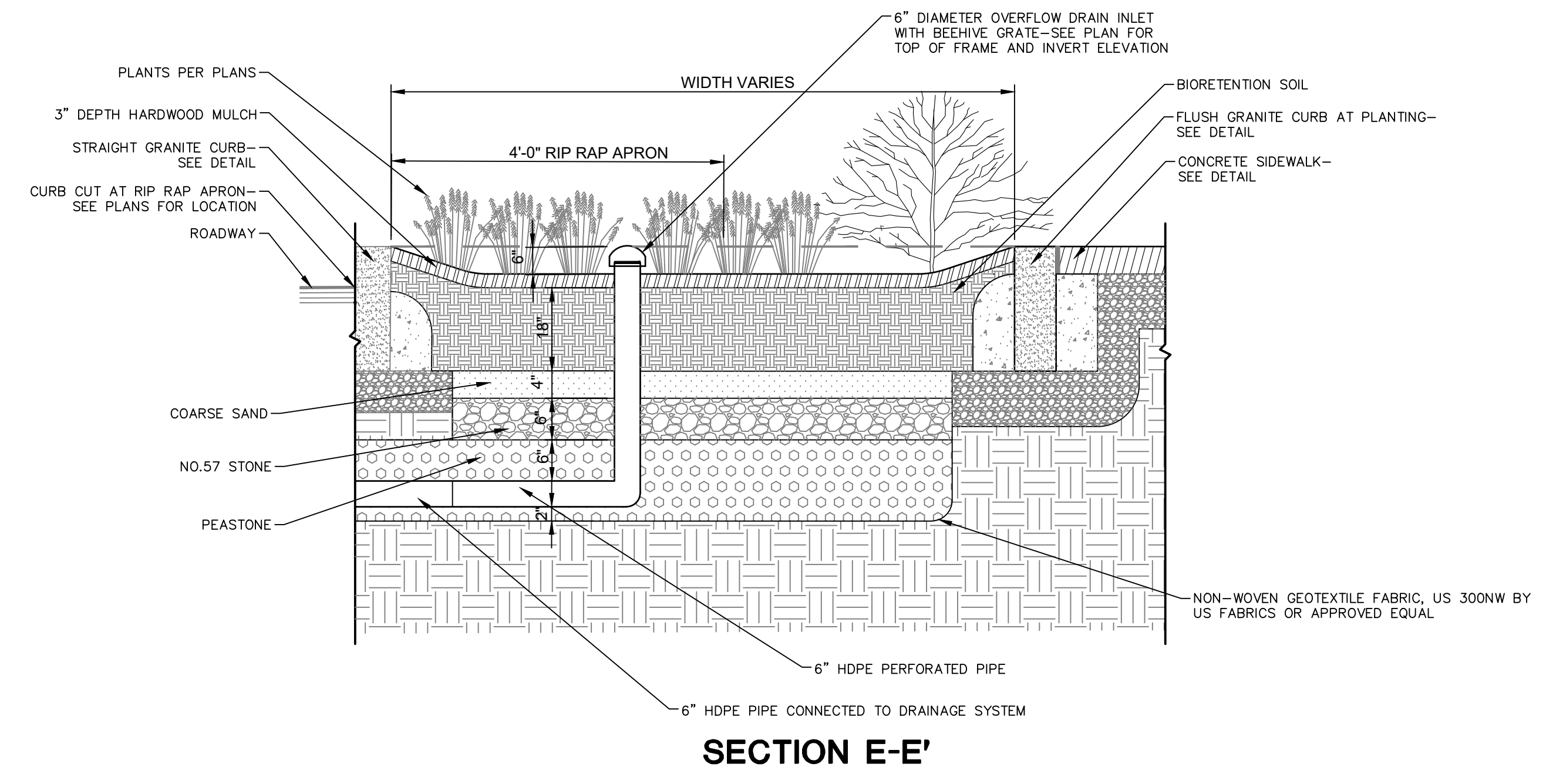
REVISIONS	Desc.
No.	Date

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DNZ00147801

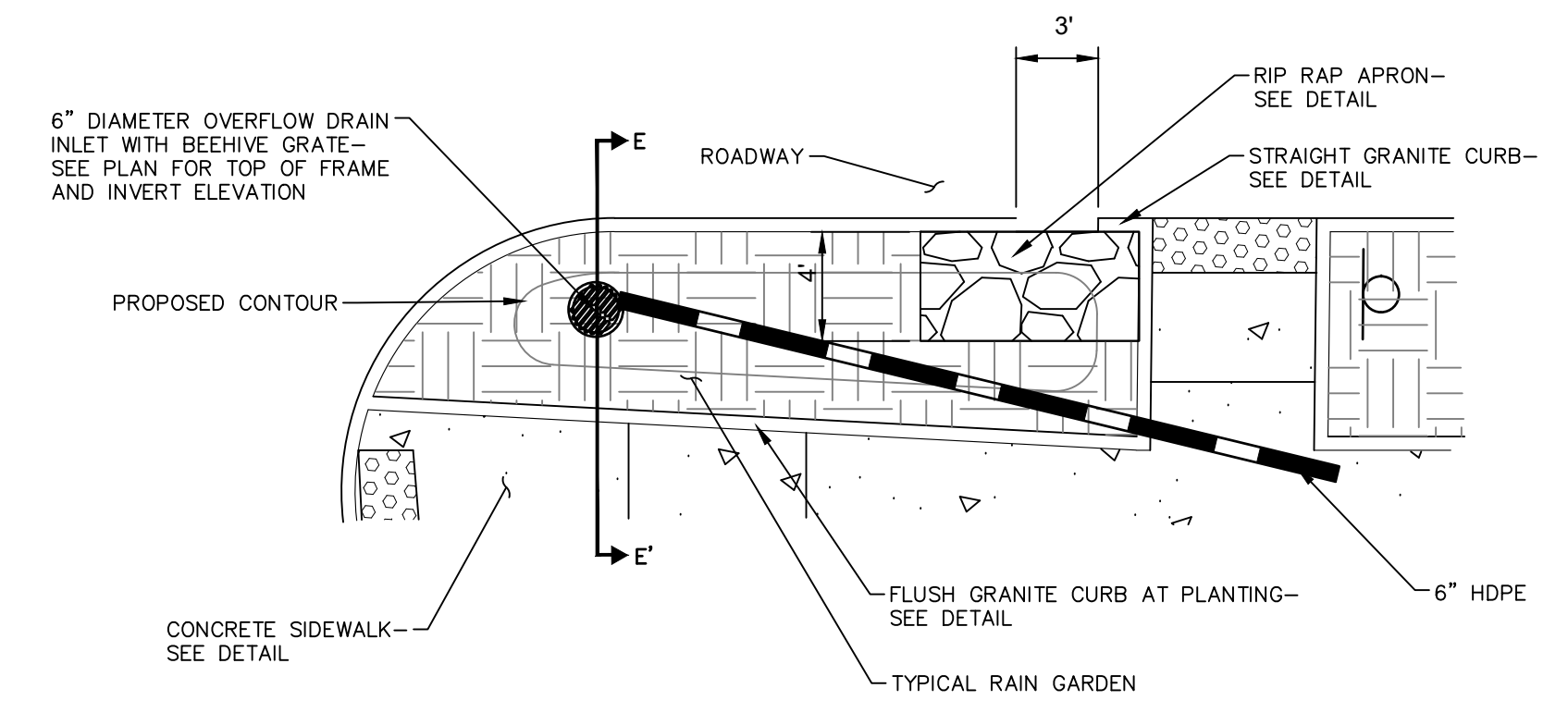
Title
**SITE
LANDSCAPE
DETAILS**

Sheet No.

DN-11

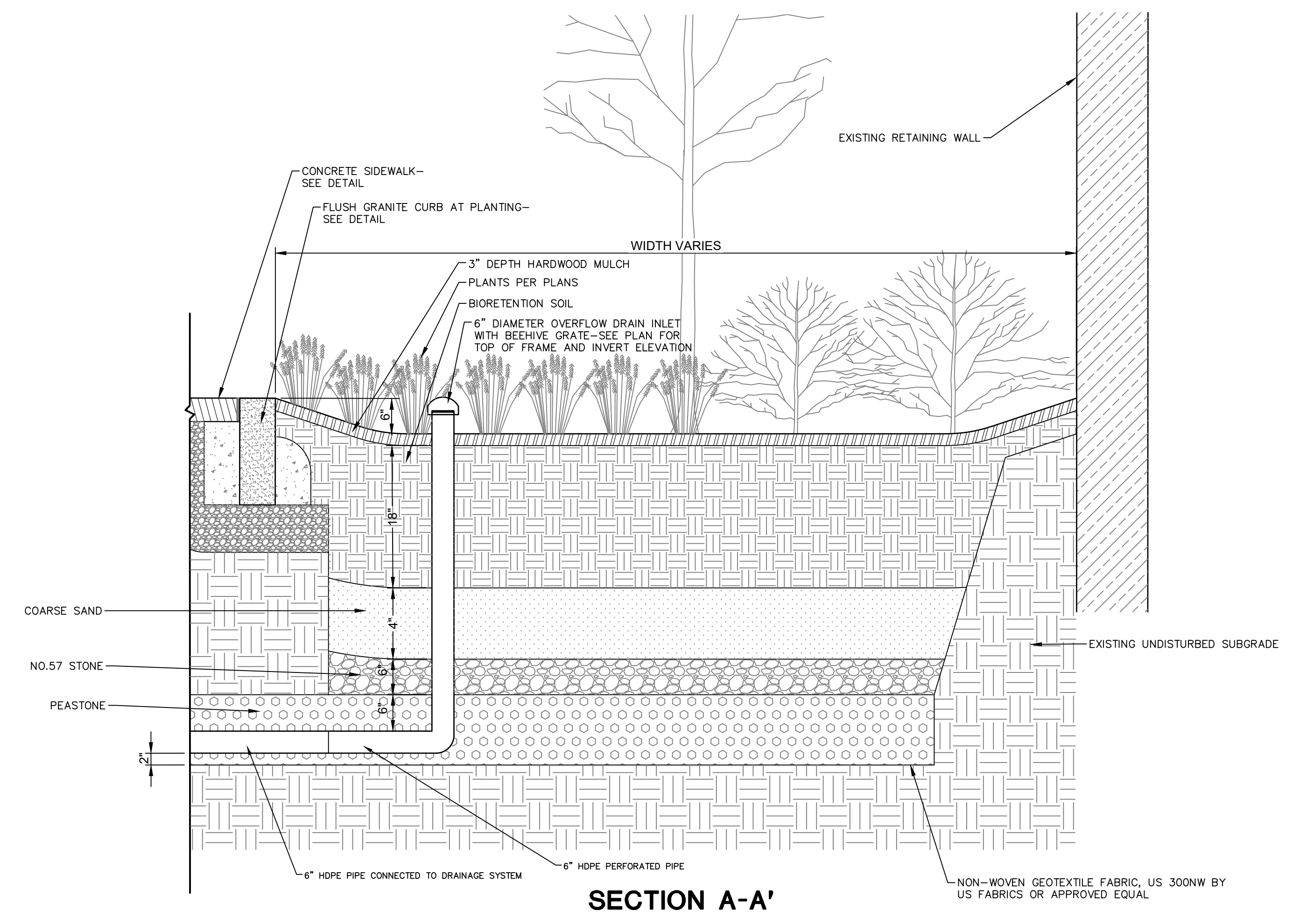


SECTION E-E'

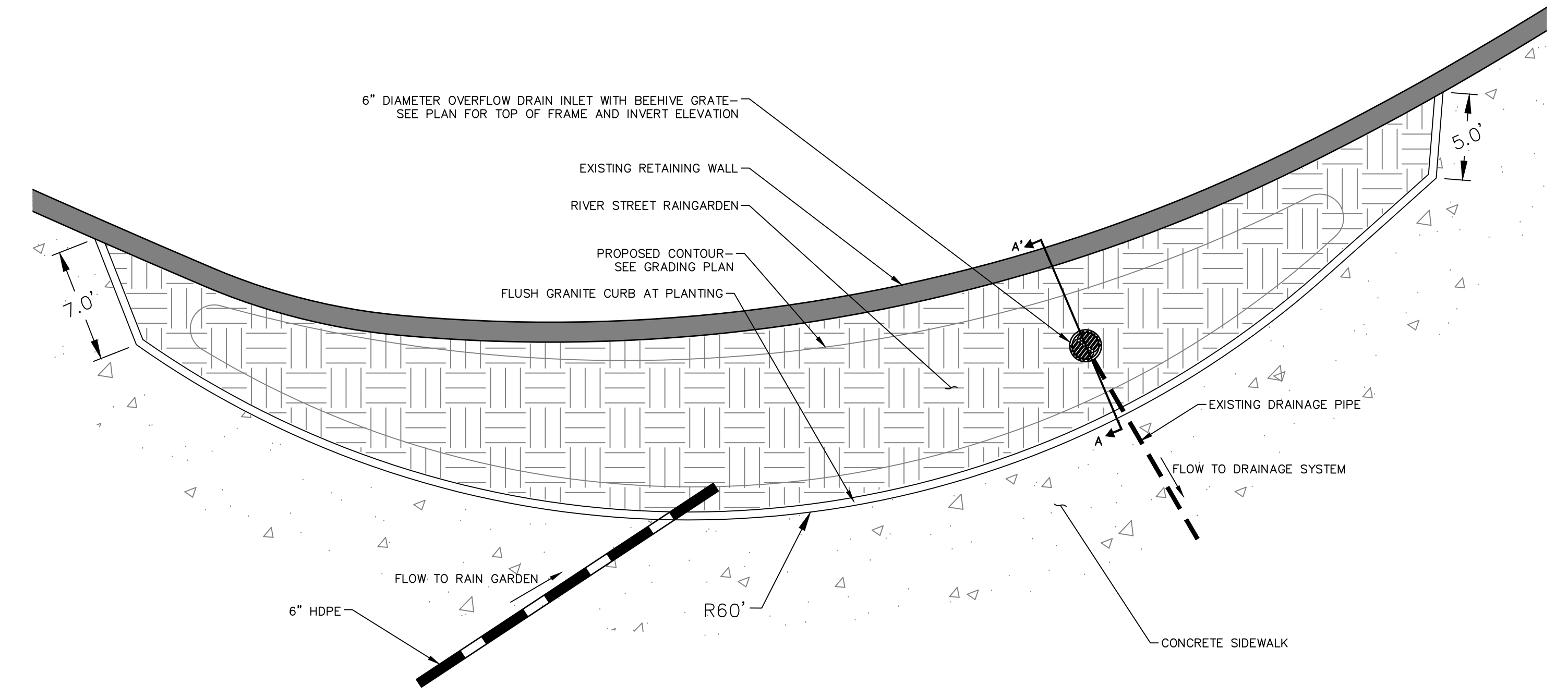


TYPICAL RAIN GARDEN DETAIL -TYPE E

N.T.S.



SECTION A-A'



RIVER STREET RAIN GARDEN DETAIL

N.T.S.

REVISIONS	Desc.
No.	Date

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801

Title
SITE LANDSCAPE DETAILS

Sheet No.

DN-12

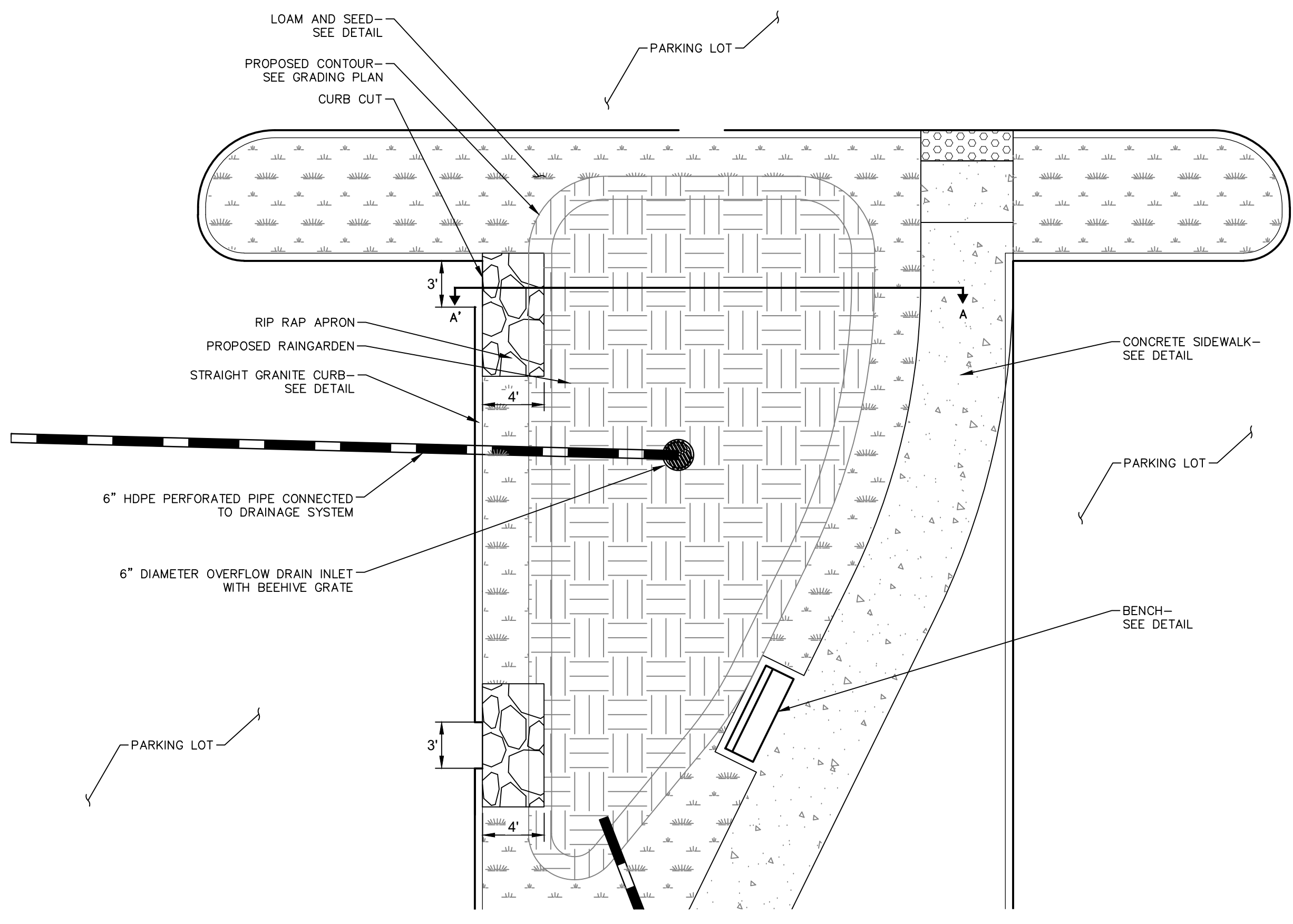
REVISIONS	No.	Date	Desc.

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801

Title
SITE LANDSCAPE DETAILS

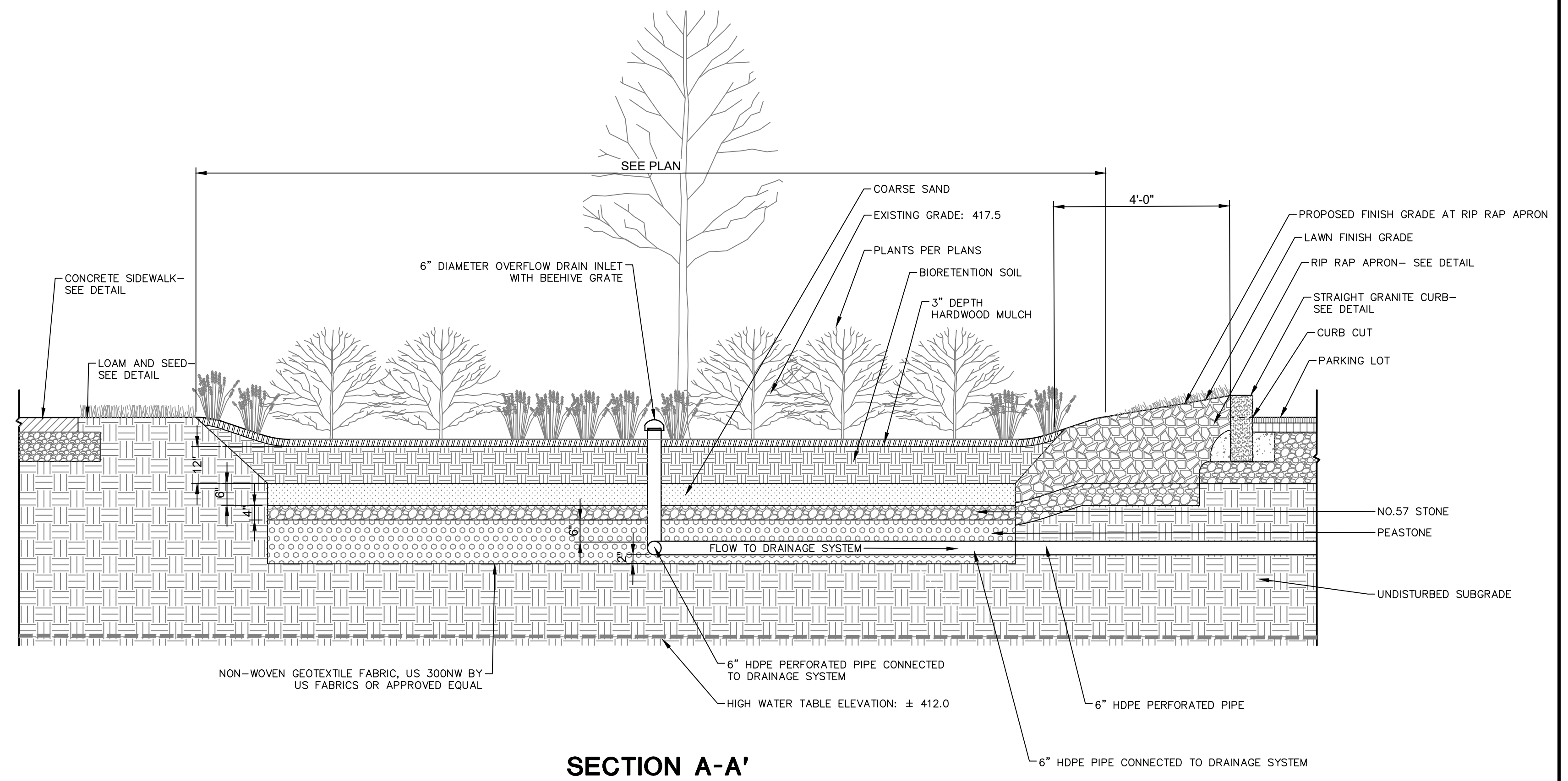
Sheet No.

DN-13

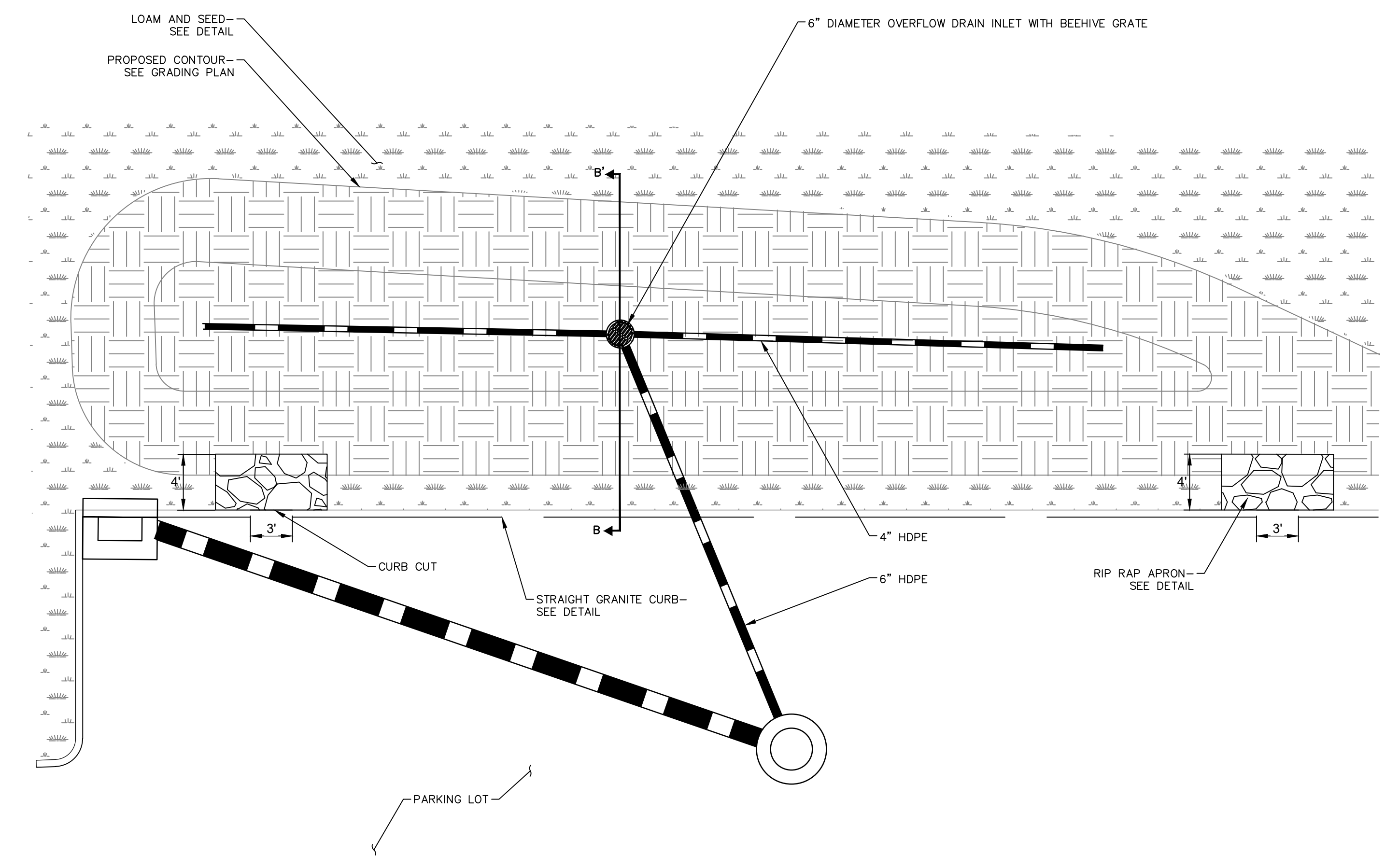


RAIN GARDEN AT PARKING LOT DETAIL

N.T.S.

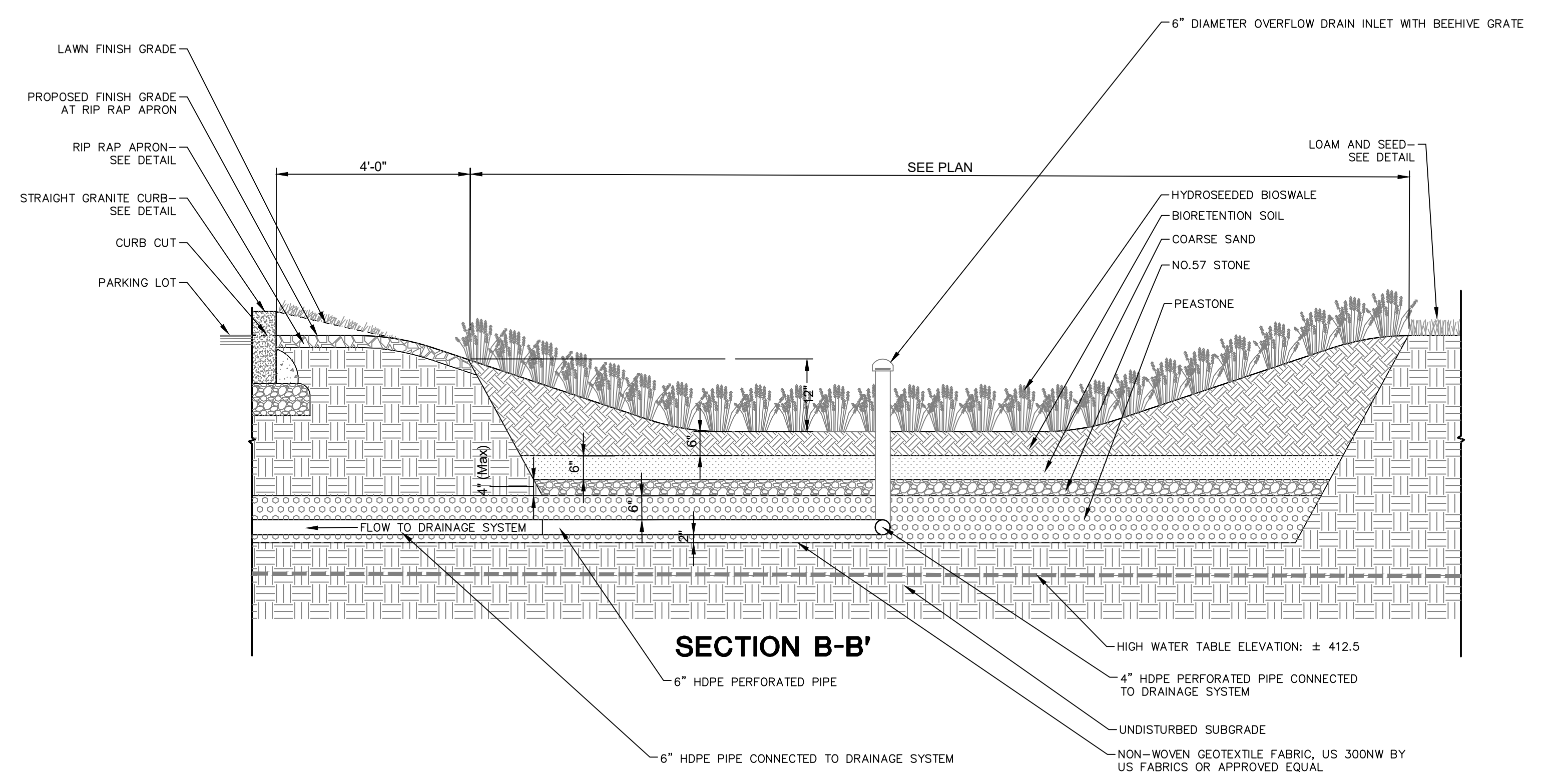


SECTION A-A'



BIOSWALE AT PARKING LOT

N.T.S.



SECTION B-B'

YUKON LED (INDIRECT)

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:

CATALOG NUMBER LOGIC
 Example: YK-1-LED-A2790-BLP-SD-B1-BLW-010-MT

MATERIAL
 (Blank) - Aluminum B - Brass S - Stainless Steel

SERIES
 YK - Yukon Commercial Slight

STYLE
 1 - Indirect

SOURCE
 LED - Linear Array

LED TYPE
 A2790 - 12W/2700K/90CRI A2790 - 15W/2700K/90CRI
 A3360 - 12W/3000K/90CRI A3360 - 12W/3000K/90CRI
 A3560 - 12W/3500K/90CRI A3560 - 12W/3500K/90CRI
 A4060 - 12W/4000K/90CRI A4060 - 12W/4000K/90CRI

FINISH (See page 2 for full-color swatches)
 Standard Finishes (SD, SDW, BLP, BLW, WHI, WMI, SAP, VER)
 Premium Finish (ABR, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
 Also available in RAL Finishes
 Brass Finishes (MAC, POL, MIT)
 Stainless Steel Finishes (MAC, POL)

FACEPLATE
 SD - Standard LD - Louvered VR - Visor

BACKPLATE
 B1 - Stepped (For use with SD and VR Faceplate)
 B2 - Curved (For use with SD and LD Faceplate)

BACKPLATE FINISH
 (Blank) - Backplate finish matches faceplate finish
 BLW* - Black Winkie finish for glare reduction

CONTROL TYPE
 ELV - 12W Dimming Driver (For use with Electronic Low Voltage Dimmer)**
 INC - 12W Dimming Driver (For use with Incandescent Dimmer)**
 D10 - 12W Dimming Driver (For use with 0-10 Dimmer)

INPUT VOLTAGE
 MT - 120-277 VAC

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ADJUSTABLE WELL STAR (REMOTE TRANSFORMER)

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:

CATALOG NUMBER LOGIC
 Example: AW-LED-e66-WFL-A9-MAC-12-11-CPC

MATERIAL
 Brass

SERIES
 AW - Adjustable Well Star

SOURCE
 LED - with Integral Dimming Driver (25% min. load when dimmed)*

LED TYPE
 e64 - 7W LED/2700K e66 - 7W LED/4000K
 e65 - 7W LED/3000K e74 - 7W LED/Amber

OPTICS
 NSP - Narrow Spot (3°) MFL - Medium Flood (37°)
 SP - Spot (18°) WFL - Wide Flood (37°)

ADJUST-E-LUME OUTPUT INTENSITY**
 A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)
 Standard Finishes (SDW, BLW, WMI, VER)
 Premium Finish (ABR, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
 Also available in RAL Finishes
 Brass Finishes (MAC, POL, MIT)

LENS TYPE
 12 - Soft Focus 13 - Rectilinear

SHIELDING
 T1 - Honeycomb Baffle

OPTION
 CPC - Concrete Pour Collar

*Designed for use with LED transformer. Requires magnetic low voltage dimmer.
 **Please see Adjust-E-Lume photometry to determine desired intensity.

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DELTA STAR LED

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:

CATALOG NUMBER LOGIC
 Example: D-DS-LED-e64-SP-A7-B2P-12-11-A-360SL

MATERIAL
 (Blank) - Aluminum B - Brass S - Stainless Steel

SERIES
 DS - Delta Star

SOURCE
 LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE
 e64 - 7W LED/2700K e66 - 7W LED/4000K
 e65 - 7W LED/3000K e74 - 7W LED/Amber

OPTICS
 NSP - Narrow Spot (3°) MFL - Medium Flood (37°)
 SP - Spot (18°) WFL - Wide Flood (37°)

ADJUST-E-LUME OUTPUT INTENSITY**
 A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)
 Standard Finishes (SDW, BLW, WMI, WHI, SAP, VER)
 Premium Finish (ABR, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
 Also available in RAL Finishes
 Brass Finishes (MAC, POL, MIT)
 Stainless Steel Finishes (MAC, POL)

LENS TYPE
 12 - Soft Focus 13 - Rectilinear

SHIELDING
 T1 - Honeycomb Baffle

CAP STYLE
 A - 4°
 B - 9°
 C - Flush Lens
 D - 4° Lens W/stephole (Interior use only)
 E - 9° Lens W/stephole (Interior use only)
 F - 9° with Flush Lens

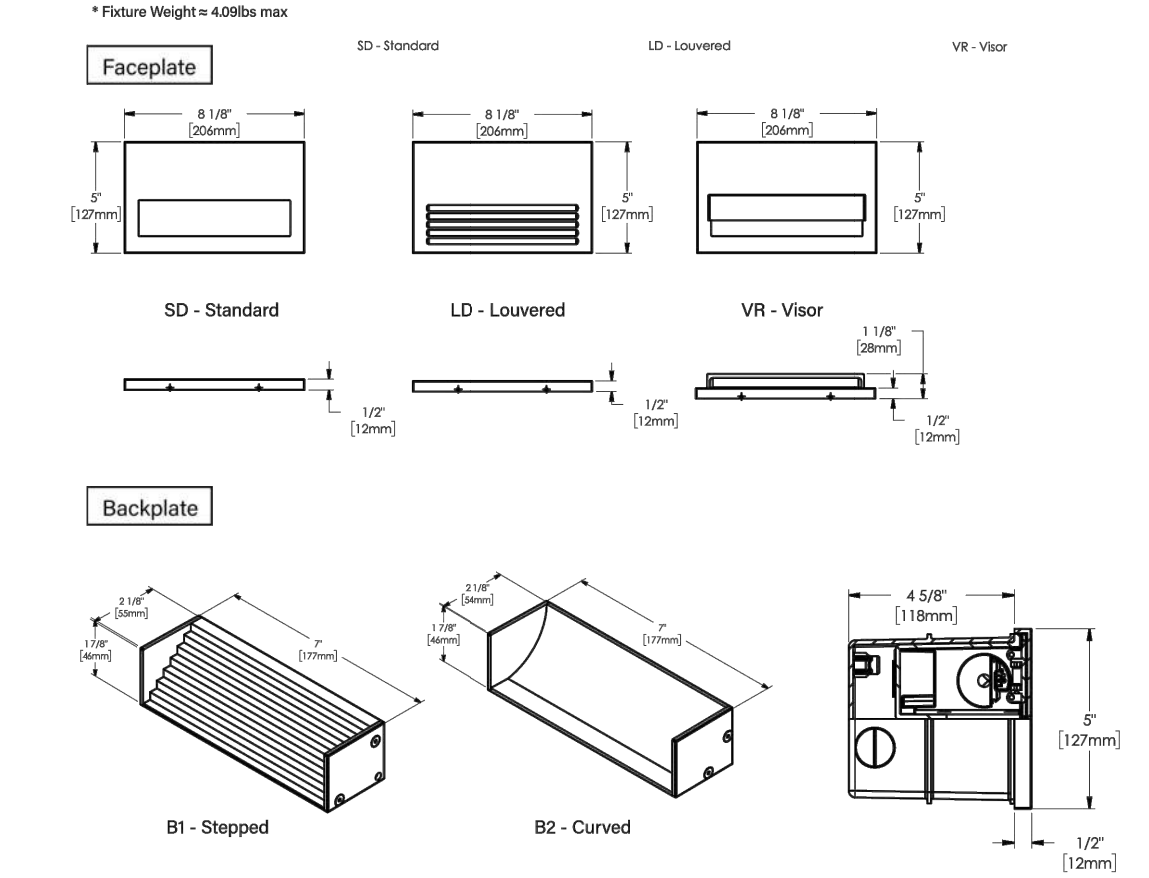
OPTIONS
 300SL - Knuckle Mounting System***

*Designed for use with LED transformer. Requires magnetic low voltage dimmer.
 **Please see Adjust-E-Lume photometry to determine desired intensity.
 ***The 300SL cost is already included in the price of CPM, LPM, dual, and Power Gauge.

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YUKON LED (INDIRECT)

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:



STANDARD FINISHES				PREMIUM FINISHES			
Satin Black (BLF)	Satin Bronze (BSP)	Satin White (WSP)	Satin Aluminum (SAP)	Cascade Mtn. Granite (CMG)	Rocky Mtn. Granite (RMG)	Sierra Mtn. Granite (SMG)	Alutian Mtn. Granite (AMG)
Black Winkie (BLW)	Bronze Winkie (BCW)	White Winkie (WW)	Verde (VER)	Black Chrome (BCR)	Beige (BGE)	Weathered Copper (WCP)	Hunter Green (HUG)
Cracked Ice (CRI)	Majave Desert Sandstone (MDS)	Antique Brass Powder (ABP)	Brown Patina Powder (BPP)	Weathered Iron (WIR)	Clear Anodized Powder (CAP)	Cream (CRM)	Antique White (AQW)
Click Here to view larger, full-color swatches of all available finishes on our website.							

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- NOTE:
 1. INSTALL PER MANUFACTURER'S SPECIFICATIONS
 2. CONTRACTOR TO CONFIRM LOCATIONS OF LIGHT FIXTURES IN FIELD WITH OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

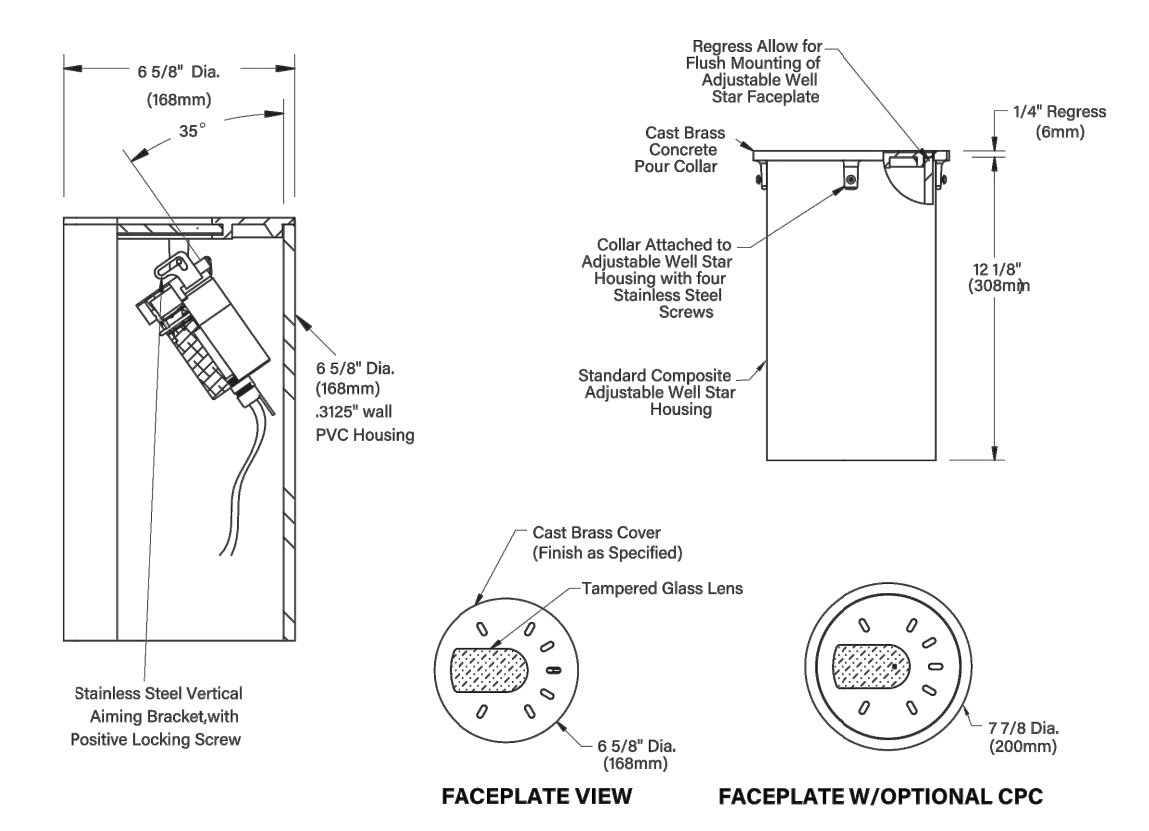
RECESSED WALL LIGHT

N.T.S.

RECESSED WALL LIGHT MANUFACTURER: B-K LIGHTING
 PHONE: 559-438-5800
 WEBSITE: WWW.BKLIGHTING.COM
 PRODUCT: YUKON
 INDIRECT FACEPLATE OPTION: STANDARD
 INDIRECT BACK PLATE OPTION: STEPPED
 COLOR/FINISH: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT

ADJUSTABLE WELL STAR (REMOTE TRANSFORMER)

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:



STANDARD FINISHES				PREMIUM FINISHES			
Satin Black (BLF)	Satin Bronze (BSP)	Satin White (WSP)	Satin Aluminum (SAP)	Cascade Mtn. Granite (CMG)	Rocky Mtn. Granite (RMG)	Sierra Mtn. Granite (SMG)	Alutian Mtn. Granite (AMG)
Black Winkie (BLW)	Bronze Winkie (BCW)	White Winkie (WW)	Verde (VER)	Black Chrome (BCR)	Beige (BGE)	Weathered Copper (WCP)	Hunter Green (HUG)
Cracked Ice (CRI)	Majave Desert Sandstone (MDS)	Antique Brass Powder (ABP)	Brown Patina Powder (BPP)	Weathered Iron (WIR)	Clear Anodized Powder (CAP)	Cream (CRM)	Antique White (AQW)
Click Here to view larger, full-color swatches of all available finishes on our website.							

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- NOTE:
 1. INSTALL PER MANUFACTURER'S SPECIFICATIONS
 2. CONTRACTOR TO CONFIRM LOCATIONS OF LIGHT FIXTURES IN FIELD WITH OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

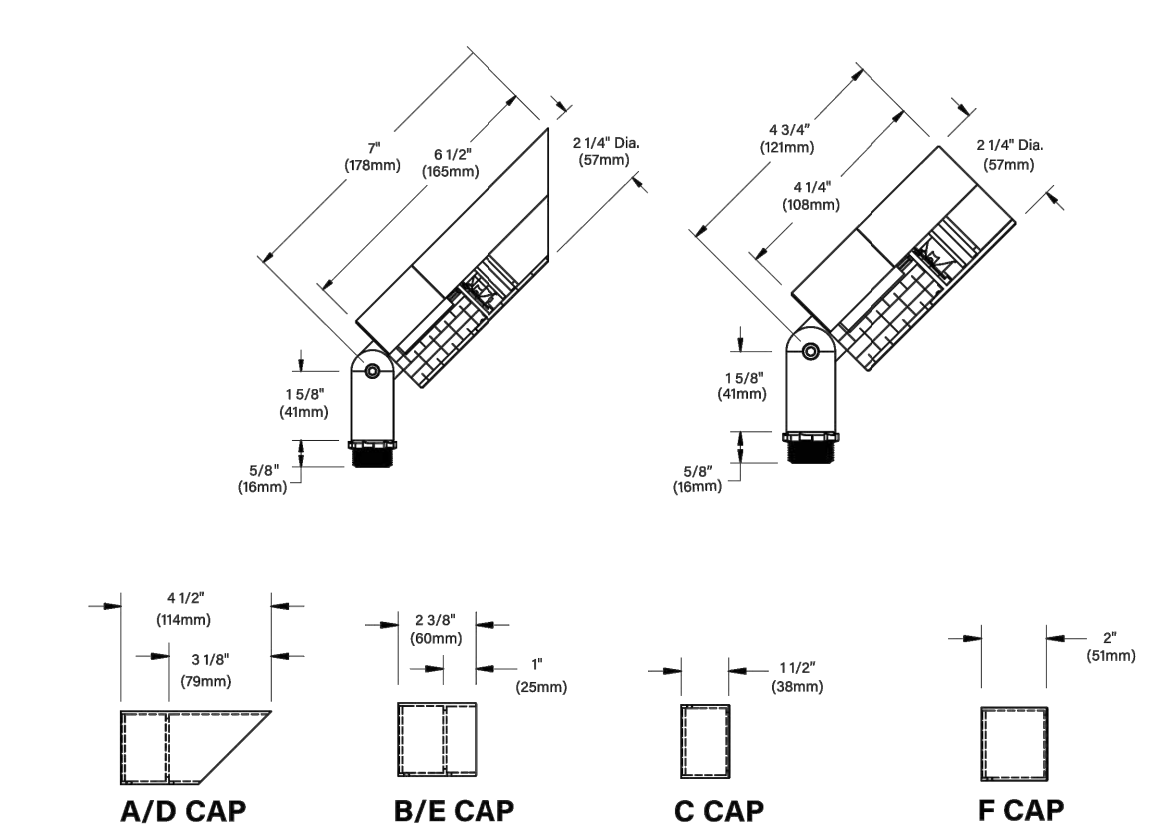
IN GRADE LIGHT

N.T.S.

IN GRADE LIGHT MANUFACTURER: B-K LIGHTING
 PHONE: 559-438-5800
 WEBSITE: WWW.BKLIGHTING.COM
 PRODUCT: ADJUSTABLE WELL STAR
 COLOR/FINISH: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT

DELTA STAR LED

DATE: PROJECT: TYPE:
 CATALOG NUMBER LOGIC:



STANDARD FINISHES				PREMIUM FINISHES			
Satin Black (BLF)	Satin Bronze (BSP)	Satin White (WSP)	Satin Aluminum (SAP)	Cascade Mtn. Granite (CMG)	Rocky Mtn. Granite (RMG)	Sierra Mtn. Granite (SMG)	Alutian Mtn. Granite (AMG)
Black Winkie (BLW)	Bronze Winkie (BCW)	White Winkie (WW)	Verde (VER)	Black Chrome (BCR)	Beige (BGE)	Weathered Copper (WCP)	Hunter Green (HUG)
Cracked Ice (CRI)	Majave Desert Sandstone (MDS)	Antique Brass Powder (ABP)	Brown Patina Powder (BPP)	Weathered Iron (WIR)	Clear Anodized Powder (CAP)	Cream (CRM)	Antique White (AQW)
Click Here to view larger, full-color swatches of all available finishes on our website.							

B-K LIGHTING MADE IN THE USA 559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM
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- NOTE:
 1. INSTALL PER MANUFACTURER'S SPECIFICATIONS
 2. CONTRACTOR TO CONFIRM LOCATIONS OF LIGHT FIXTURES IN FIELD WITH OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

FLOOD LIGHT

N.T.S.

FLOOD LIGHT MANUFACTURER: B-K LIGHTING
 PHONE: 559-438-5800
 WEBSITE: WWW.BKLIGHTING.COM
 PRODUCT: DELTA STAR LED
 CAP OPTION: A/D CAP
 COLOR/FINISH: TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT

REVISIONS	No.	Date	Desc.

Designed: K.A.
 Drawn: K.A.
 Reviewed: M.M.
 Scale:
 Project No.: 2001478
 Date: FEBRUARY, 2022
 CAD File: DN200147801

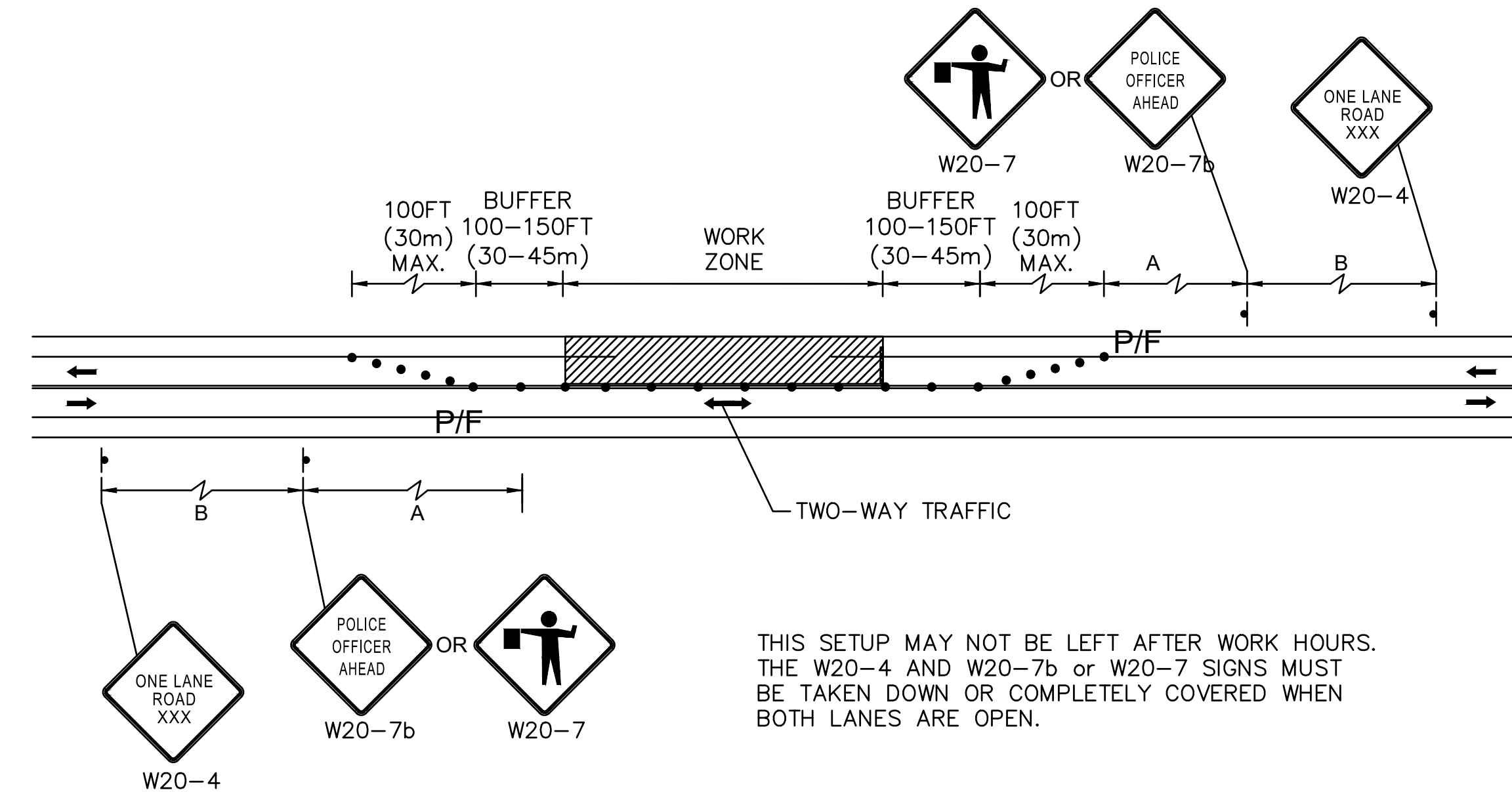
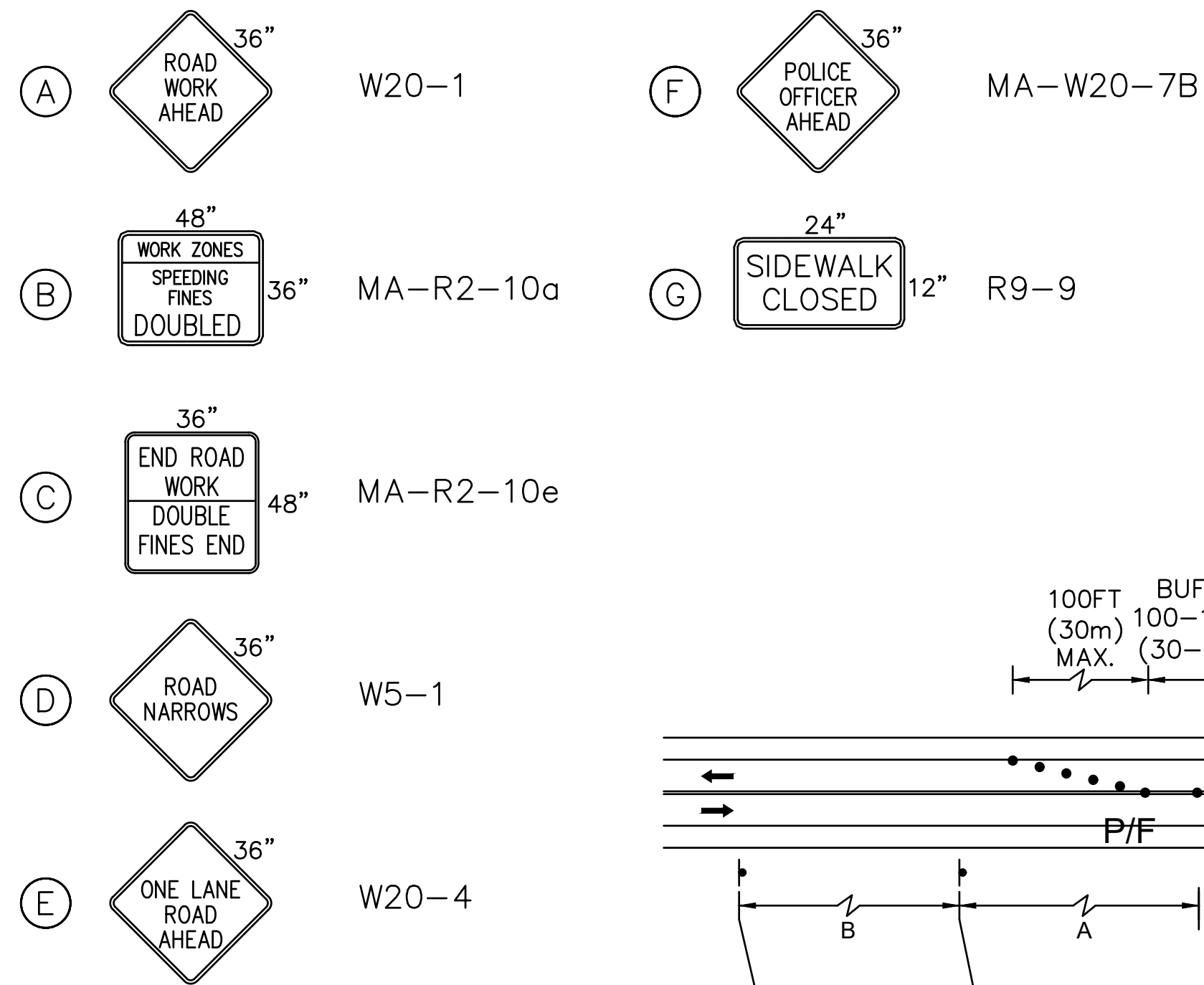
Title:

SITE DETAILS

Sheet No.

DN-14

SIGN LEGEND



THIS SETUP MAY NOT BE LEFT AFTER WORK HOURS. THE W20-4 AND W20-7b OR W20-7 SIGNS MUST BE TAKEN DOWN OR COMPLETELY COVERED WHEN BOTH LANES ARE OPEN.

ONE LANE ALTERNATING TRAFFIC DETAIL

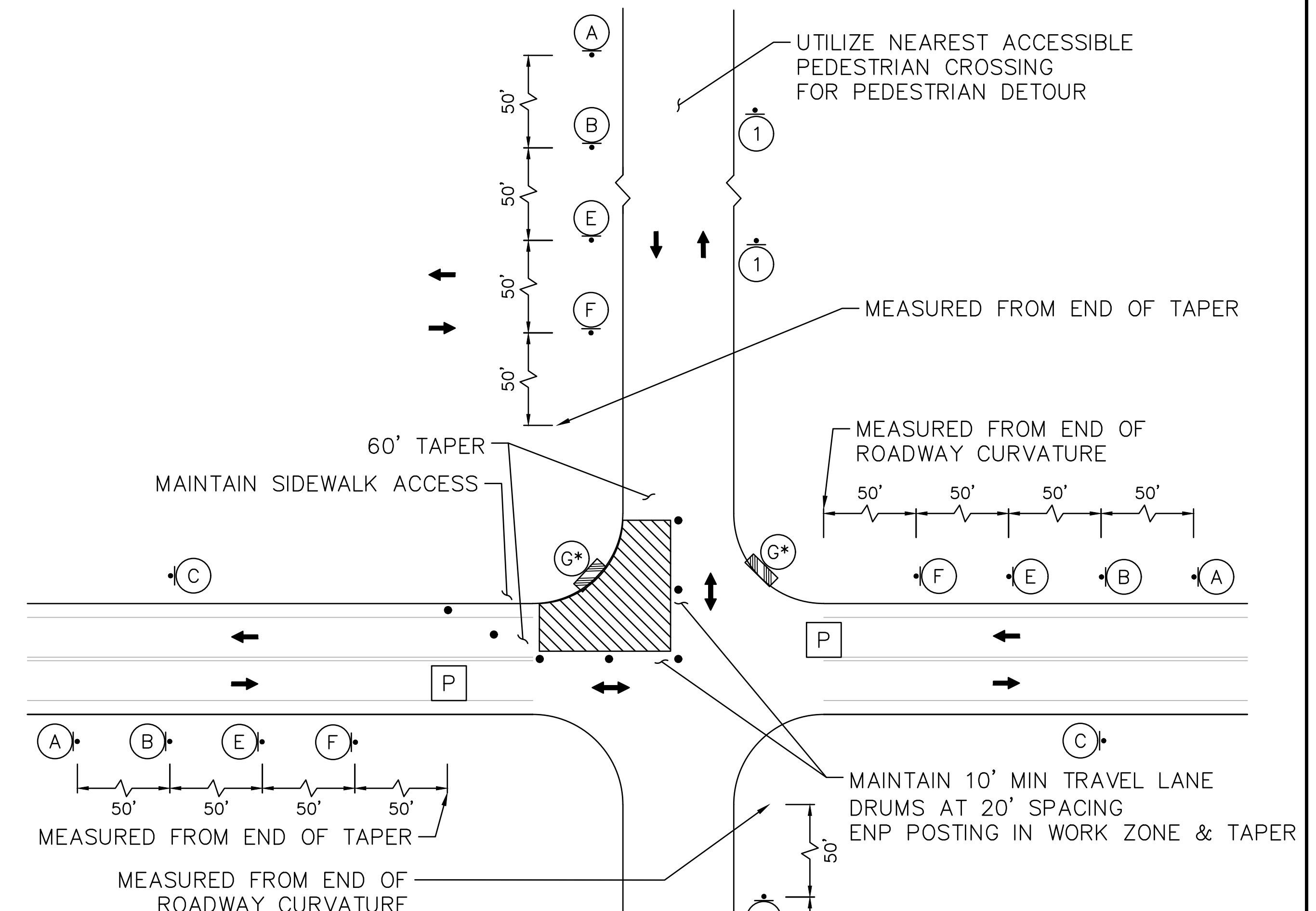
NOT TO SCALE

LEGEND

- ▨ WORK AREA
- CONSTRUCTION SIGN
- TRAFFIC DRUM
- ⊙ TRAFFIC DRUM WITH MARKER
- ▲ 36" TRAFFIC CONE
- ➔ DIRECTION OF TRAVEL
- P POLICE OFFICER
- ▨ WORK VEHICLE WITH CRASH ATTENUATOR
- ➔ ARROW BOARD
- x - CONSTRUCTION FENCE
- ▨ TYPE III BARRICADE
- * SIGN MOUNTED ON TYPE III BARRICADE

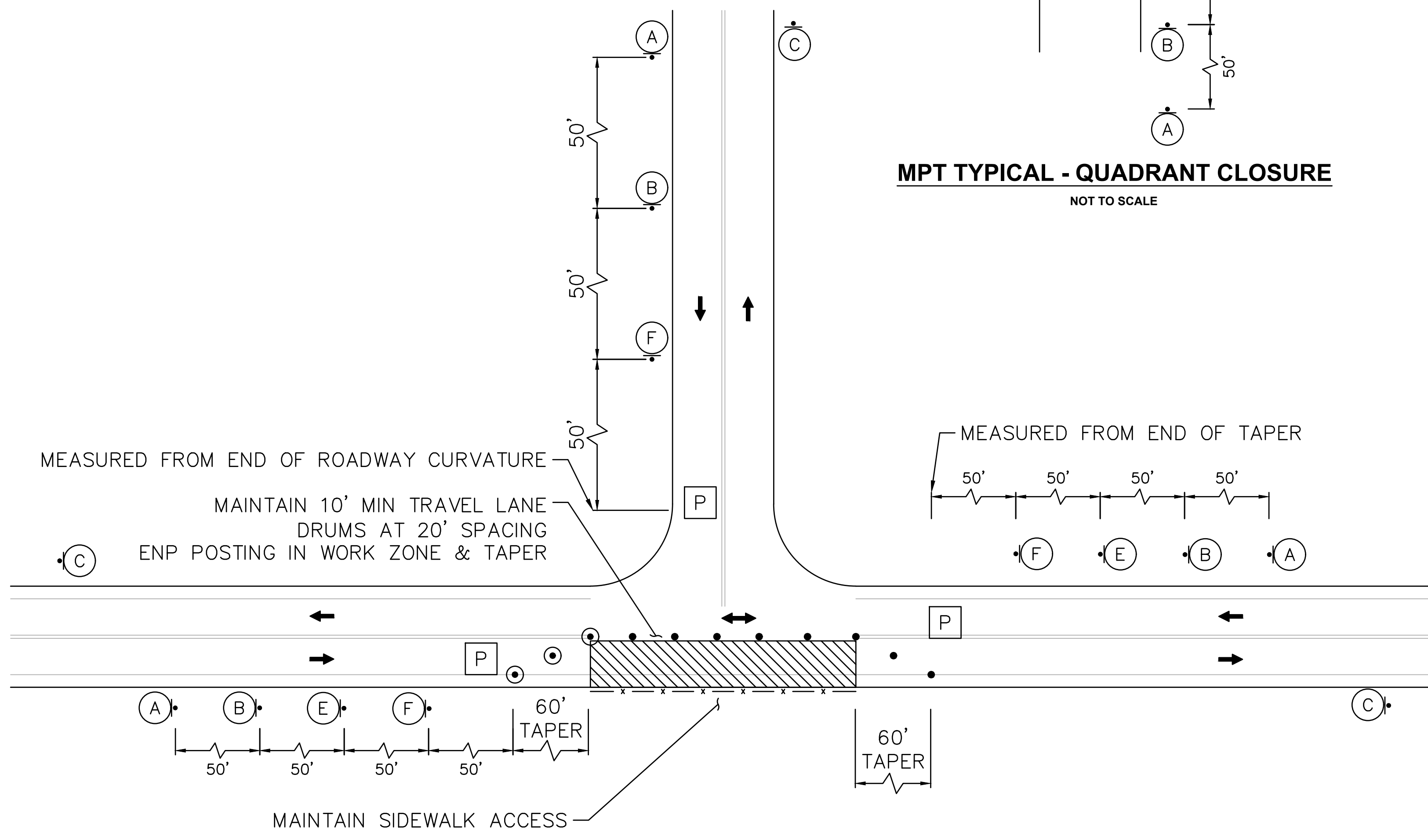
GENERAL NOTES

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS. ROAD PLATES SHALL BE USED AS REQUIRED TO MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL ABUTTERS. AT ALL OTHER TIMES, DRIVEWAY ACCESS SHALL BE MAINTAINED.
6. THE FIRST TEN (10) PLASTIC DRUMS OF A TAPER SHALL BE EQUIPPED WITH SEQUENTIAL FLASHING LIGHTS.
7. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
8. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
9. SIGN PLACEMENT TO BE ADJUSTED TO NOT BLOCK INGRESS AND EGRESS FROM ALL DRIVEWAYS.
10. LANE CLOSURES AND WORK HOUR RESTRICTIONS SHALL BE COORDINATED WITH THE CITY OF CAMBRIDGE AND WITH THE PERMIT CONDITIONS AND APPROVALS.
11. CONTRACTOR SHALL MAINTAIN MINIMUM ONE (1) TRAVEL LANE AT 11' WIDE WITHIN WORK ZONE.



MPT TYPICAL - QUADRANT CLOSURE

NOT TO SCALE



MPT TYPICAL - QUADRANT CLOSURE

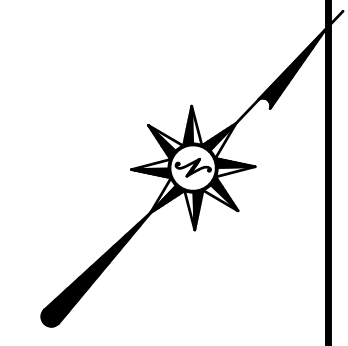
NOT TO SCALE

REVISIONS	No.	Date	Desc.

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	DN200147801
Title	MPT SCHEMATICS
Sheet No.	

2/27/2022: KAU/RED, \\\BLCOMPANIES\CON\PLANS\PROJ\JORDON, KAU\2001478\DWG\DN15.DWG:DN-15

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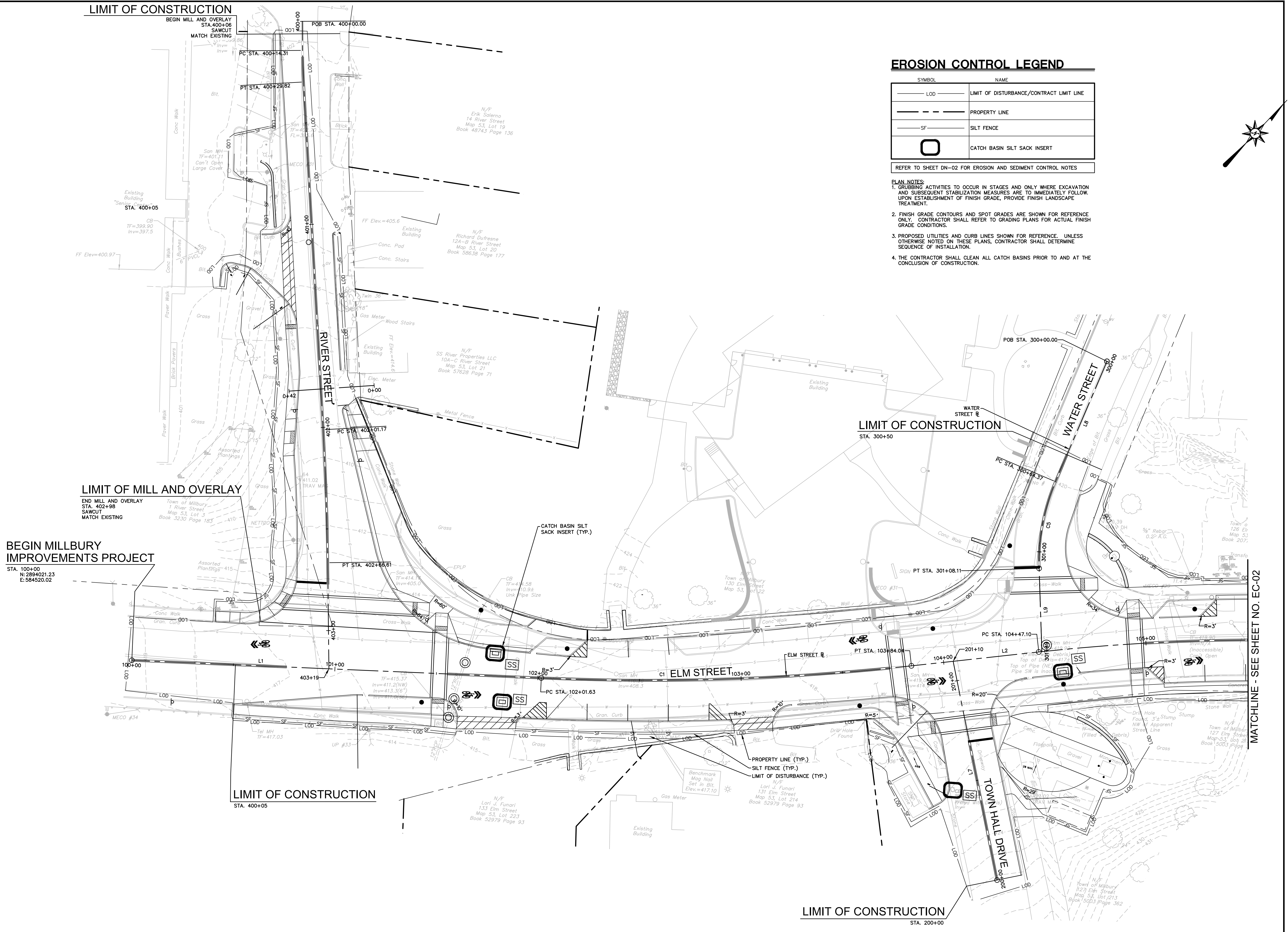


EROSION CONTROL LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
- - - - -	PROPERTY LINE
- - - - -	SILT FENCE
□	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

- PLAN NOTES:**
- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
 - FINISH GRADE CONTOURS AND SPOT GRADES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO GRADING PLANS FOR ACTUAL FINISH GRADE CONDITIONS.
 - PROPOSED UTILITIES AND CURB LINES SHOWN FOR REFERENCE. UNLESS OTHERWISE NOTED ON THESE PLANS, CONTRACTOR SHALL DETERMINE SEQUENCE OF INSTALLATION.
 - THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS PRIOR TO AND AT THE CONCLUSION OF CONSTRUCTION.



LIMIT OF CONSTRUCTION

BEGIN MILL AND OVERLAY
STA. 400+06
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY

END MILL AND OVERLAY
STA. 402+98
SAWCUT
MATCH EXISTING

BEGIN MILLBURY IMPROVEMENTS PROJECT

STA. 100+00
N: 2894021.23
E: 584520.02

LIMIT OF CONSTRUCTION

STA. 400+05

LIMIT OF CONSTRUCTION

STA. 300+50

LIMIT OF CONSTRUCTION

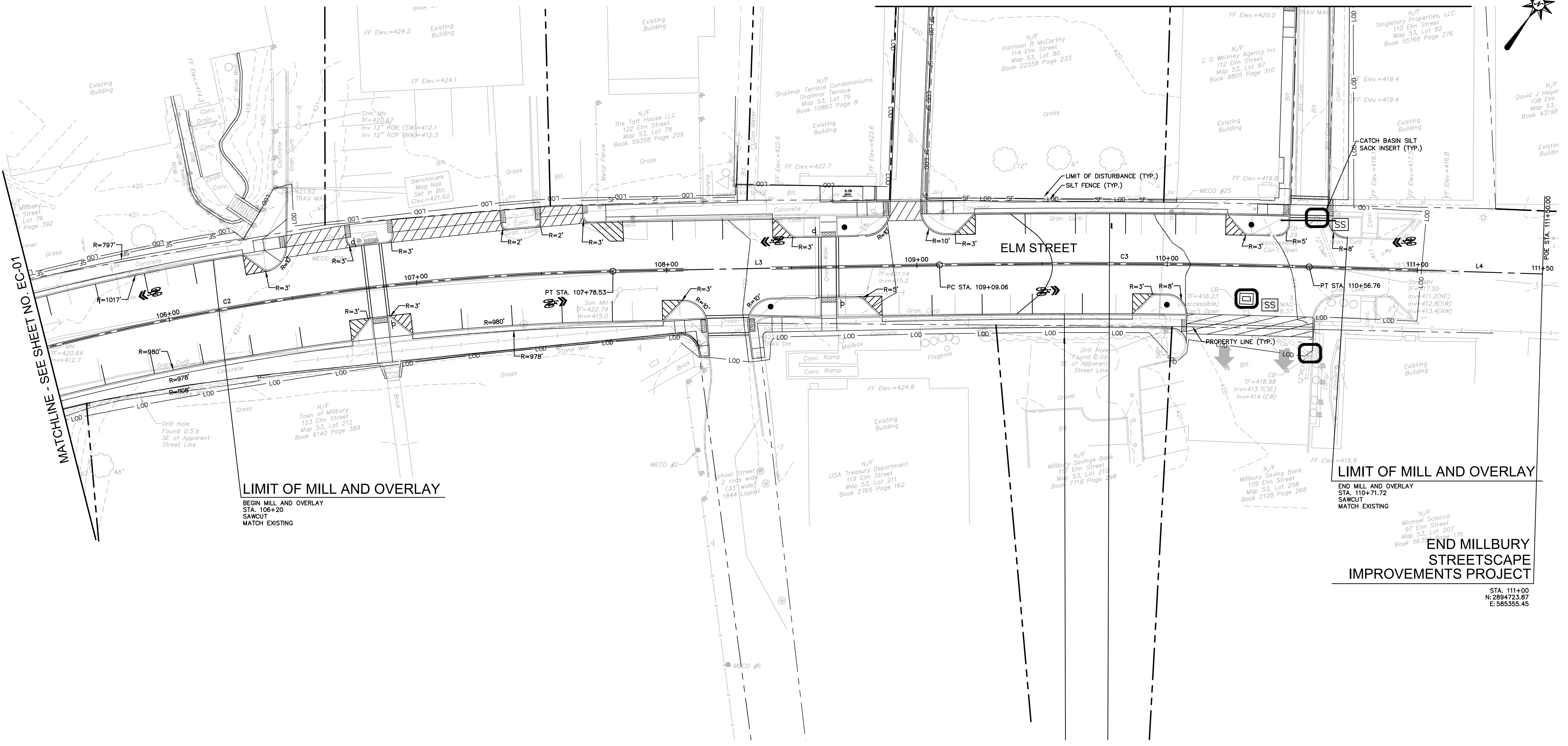
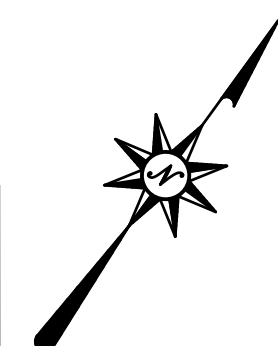
STA. 200+00

MATCHLINE - SEE SHEET NO. EC-02

2/27/2022: LAUREN, V:\COMPANIES\CON\UP\SP\JO\JO\2021\14\2001478\DWG\EC20047801.DWG (EC-01)

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MATCHLINE - SEE SHEET NO. EC-03



MATCHLINE - SEE SHEET NO. EC-01

LIMIT OF MILL AND OVERLAY
BEGIN MILL AND OVERLAY
STA. 106+20
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY
END MILL AND OVERLAY
STA. 110+71.72
SAWCUT
MATCH EXISTING

**END MILLBURY
STREETSCAPE
IMPROVEMENTS PROJECT**

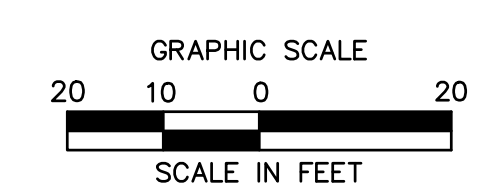
STA. 111+00
N: 2894723.97
E: 585355.45

EROSION CONTROL LEGEND

SYMBOL	NAME
— LOD —	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
— SF —	SILT FENCE
	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

- PLAN NOTES:**
- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
 - FINISH GRADE CONTOURS AND SPOT GRADES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO GRADING PLANS FOR ACTUAL FINISH GRADE CONDITIONS.
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 - THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS PRIOR TO AND AT THE CONCLUSION OF CONSTRUCTION.



220 Norwood Park South
Norwood, MA 02062
(781) 619-9500

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS

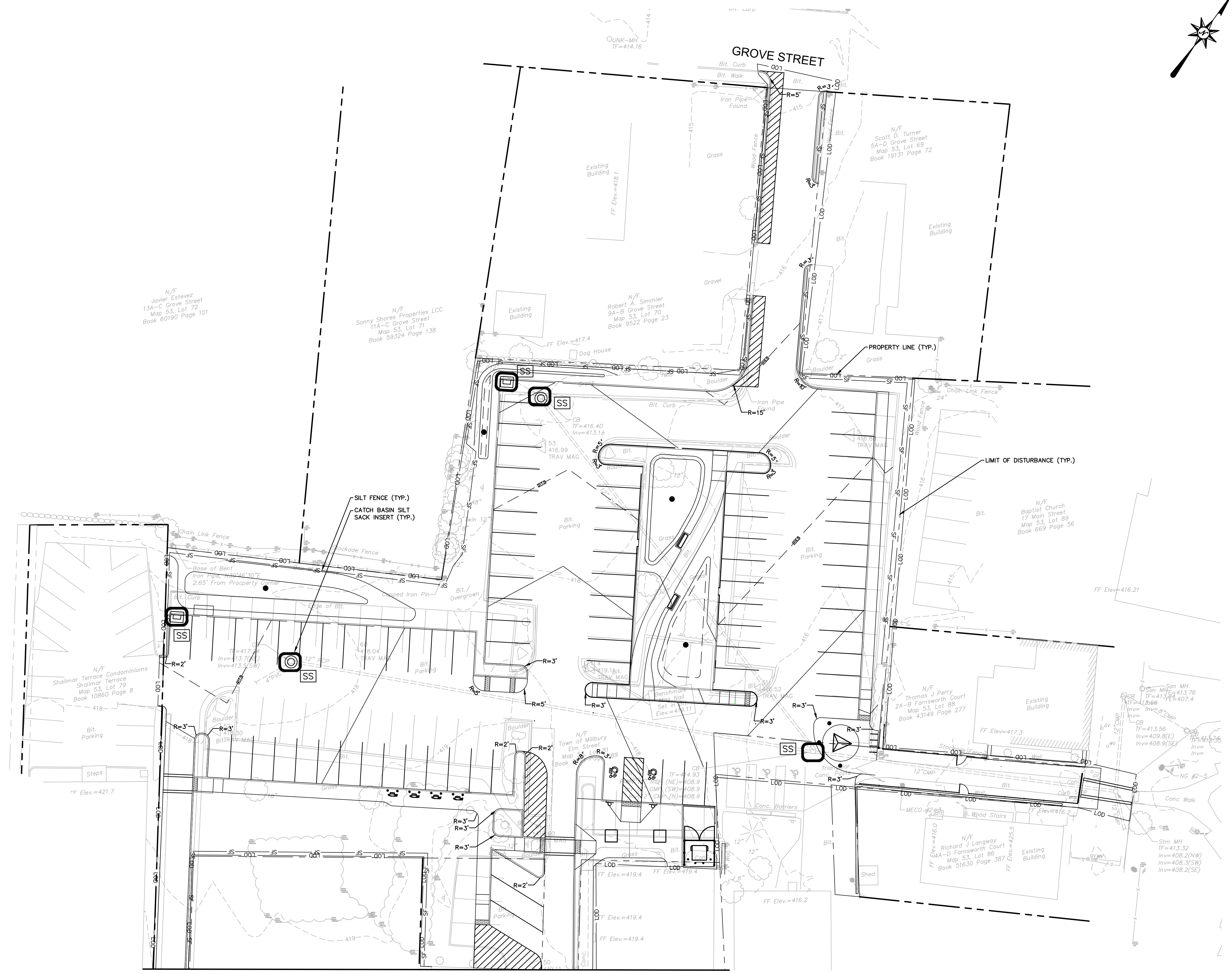
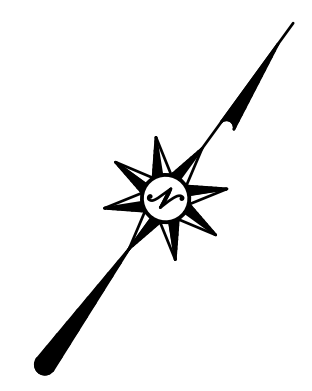
No.	Date	Desc.

Designed: M.M.
Drawn: K.A.
Reviewed: M.M.
Scale: 1" = 20'
Project No.: 2001478
Date: FEBRUARY, 2022
CAD File: EC20047801

Title:
**EROSION AND
SEDIMENTATION
CONTROL PLAN**

Sheet No.

EC-02



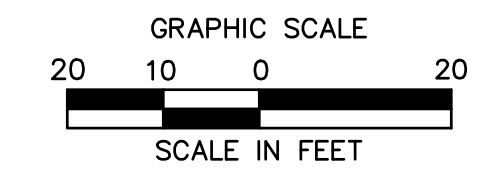
MATCHLINE - SEE SHEET NO. EC-02

EROSION CONTROL LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
- - -	PROPERTY LINE
SF	SILT FENCE
□	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

- PLAN NOTES:**
- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
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REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: EC20047801

Title
EROSION AND SEDIMENTATION CONTROL PLAN

Sheet No.

2/27/2022 LAUREL, \\\BLCOMPANIES.COM\PLANS\PROJ\2001478\DWG\EC20047801.DWG

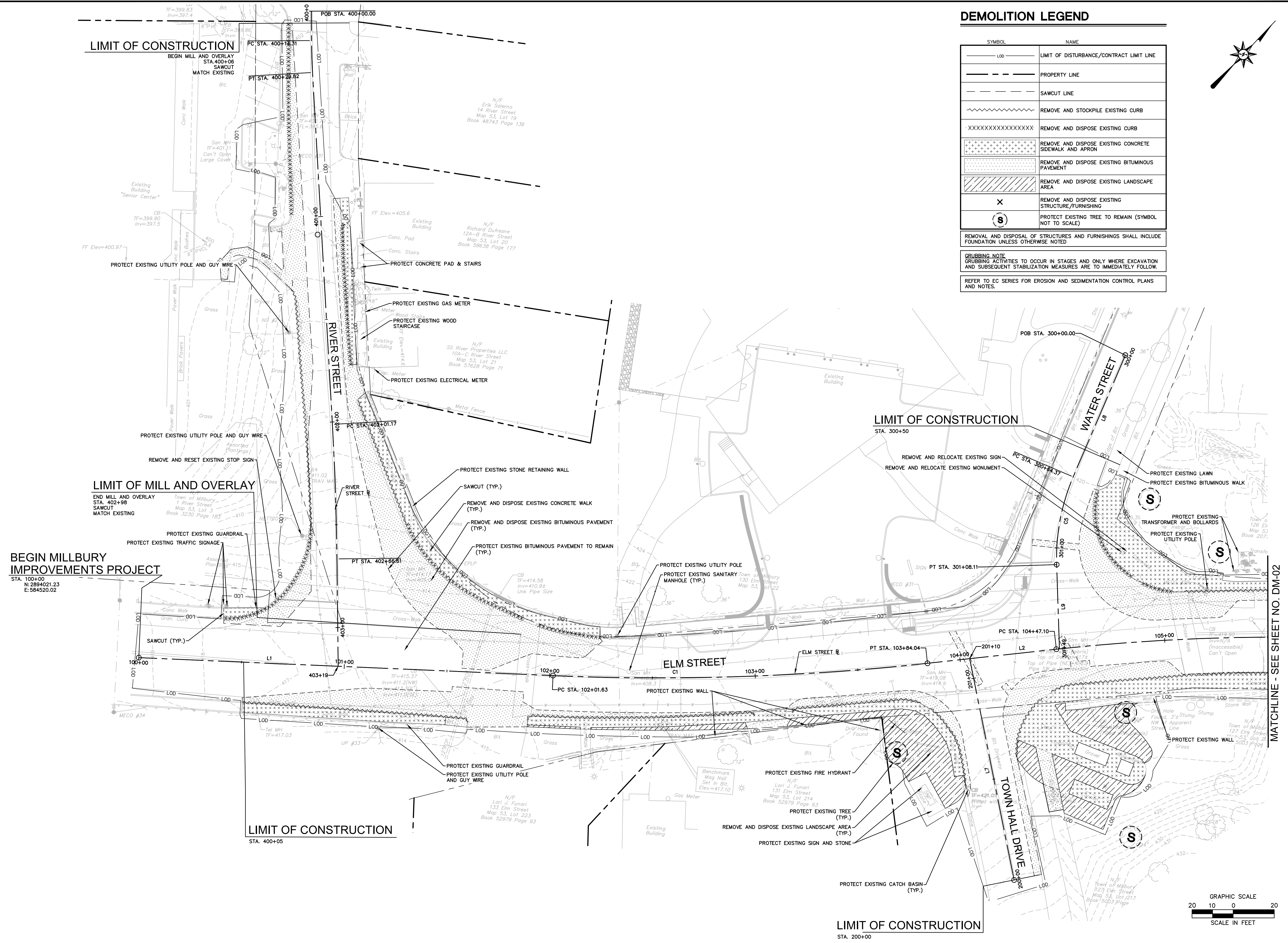
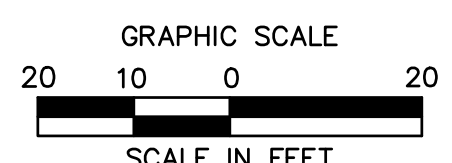
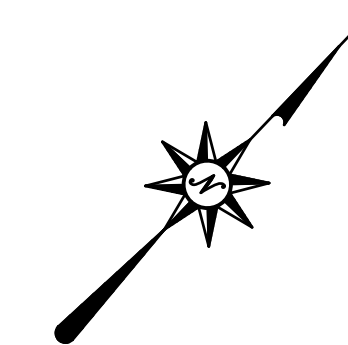
DEMOLITION LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
- - - -	PROPERTY LINE
- . - . - .	SAWCUT LINE
~~~~~	REMOVE AND STOCKPILE EXISTING CURB
-XXXXXXXXXXXXXXXX-	REMOVE AND DISPOSE EXISTING CURB
[Pattern: Dotted]	REMOVE AND DISPOSE EXISTING CONCRETE SIDEWALK AND APRON
[Pattern: Diagonal Lines]	REMOVE AND DISPOSE EXISTING BITUMINOUS PAVEMENT
[Pattern: Cross-hatch]	REMOVE AND DISPOSE EXISTING LANDSCAPE AREA
X	REMOVE AND DISPOSE EXISTING STRUCTURE/FURNISHING
(S)	PROTECT EXISTING TREE TO REMAIN (SYMBOL NOT TO SCALE)

REMOVAL AND DISPOSAL OF STRUCTURES AND FURNISHINGS SHALL INCLUDE FOUNDATION UNLESS OTHERWISE NOTED

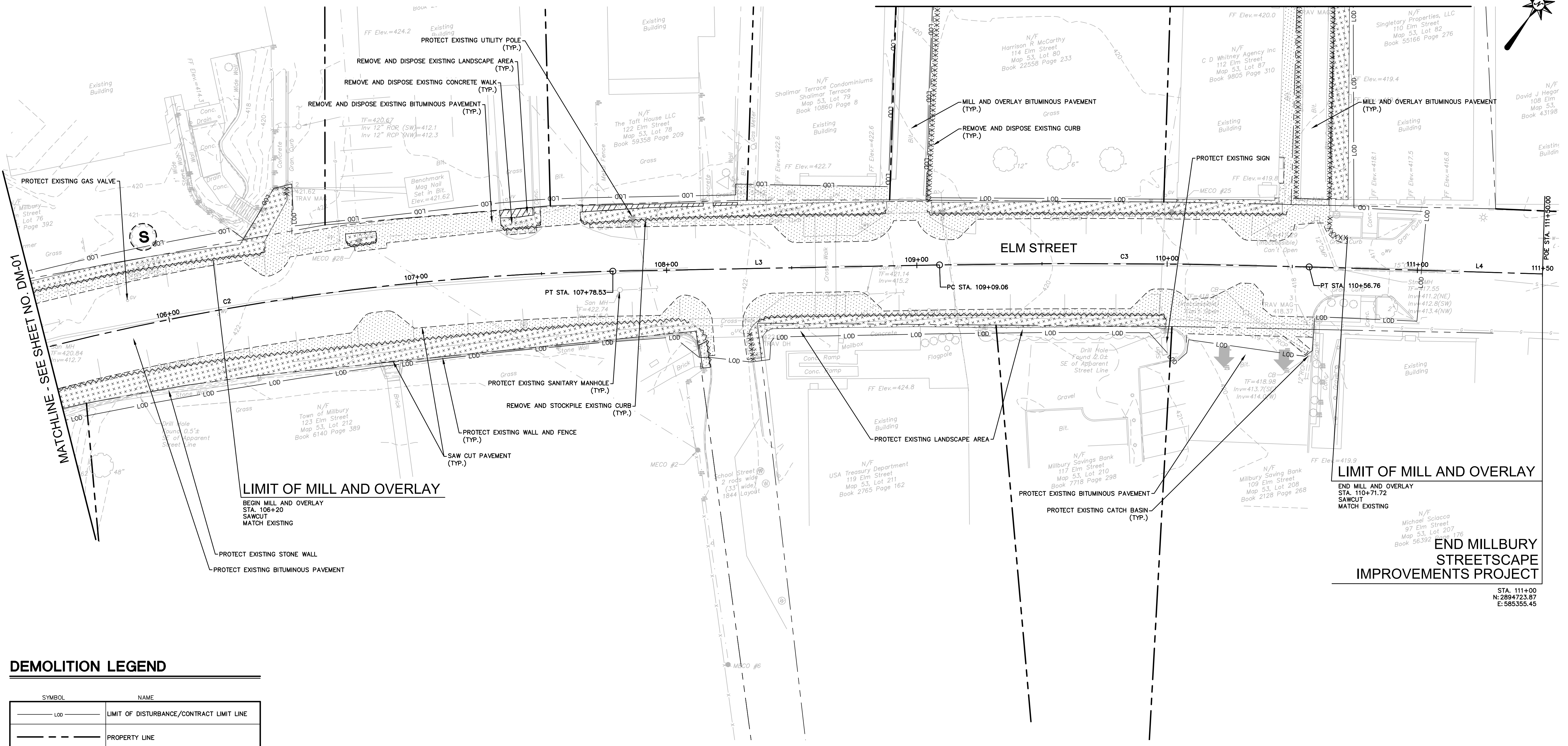
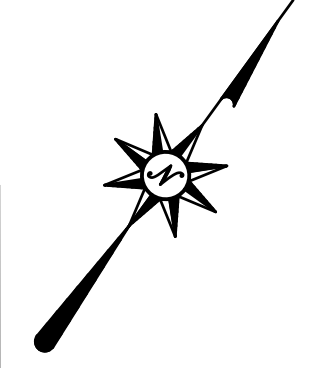
GRUBBING NOTE  
GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW.

REFER TO EC SERIES FOR EROSION AND SEDIMENTATION CONTROL PLANS AND NOTES.



2/27/2022 LAUREL, \\\BLCOMPANIES.COM\PLANS\PROJECTS\14-0001\178-DWG\DM0001.DWG (DWG)

MATCHLINE - SEE SHEET NO. DM-03



**LIMIT OF MILL AND OVERLAY**  
BEGIN MILL AND OVERLAY  
STA. 106+20  
SAWCUT  
MATCH EXISTING

**LIMIT OF MILL AND OVERLAY**  
END MILL AND OVERLAY  
STA. 110+71.72  
SAWCUT  
MATCH EXISTING

**END MILLBURY  
STREETSCAPE  
IMPROVEMENTS PROJECT**

STA. 111+00  
N: 2894723.87  
E: 585355.45

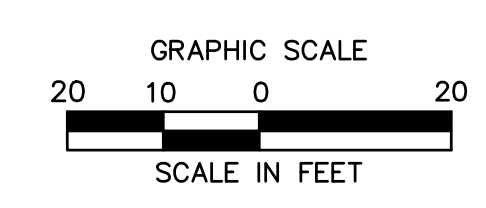
**DEMOLITION LEGEND**

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---	SAWCUT LINE
~~~~~	REMOVE AND STOCKPILE EXISTING CURB
XXXXXXXXXXXXXXXXXX	REMOVE AND DISPOSE EXISTING CURB
[Pattern]	REMOVE AND DISPOSE EXISTING CONCRETE SIDEWALK AND APRON
[Pattern]	REMOVE AND DISPOSE EXISTING BITUMINOUS PAVEMENT
[Pattern]	PULVERIZE EXISTING BITUMINOUS PAVEMENT
[Pattern]	REMOVE AND DISPOSE EXISTING LANDSCAPE AREA
X	REMOVE AND DISPOSE EXISTING STRUCTURE/FURNISHING
(S)	PROTECT EXISTING TREE TO REMAIN (SYMBOL NOT TO SCALE)

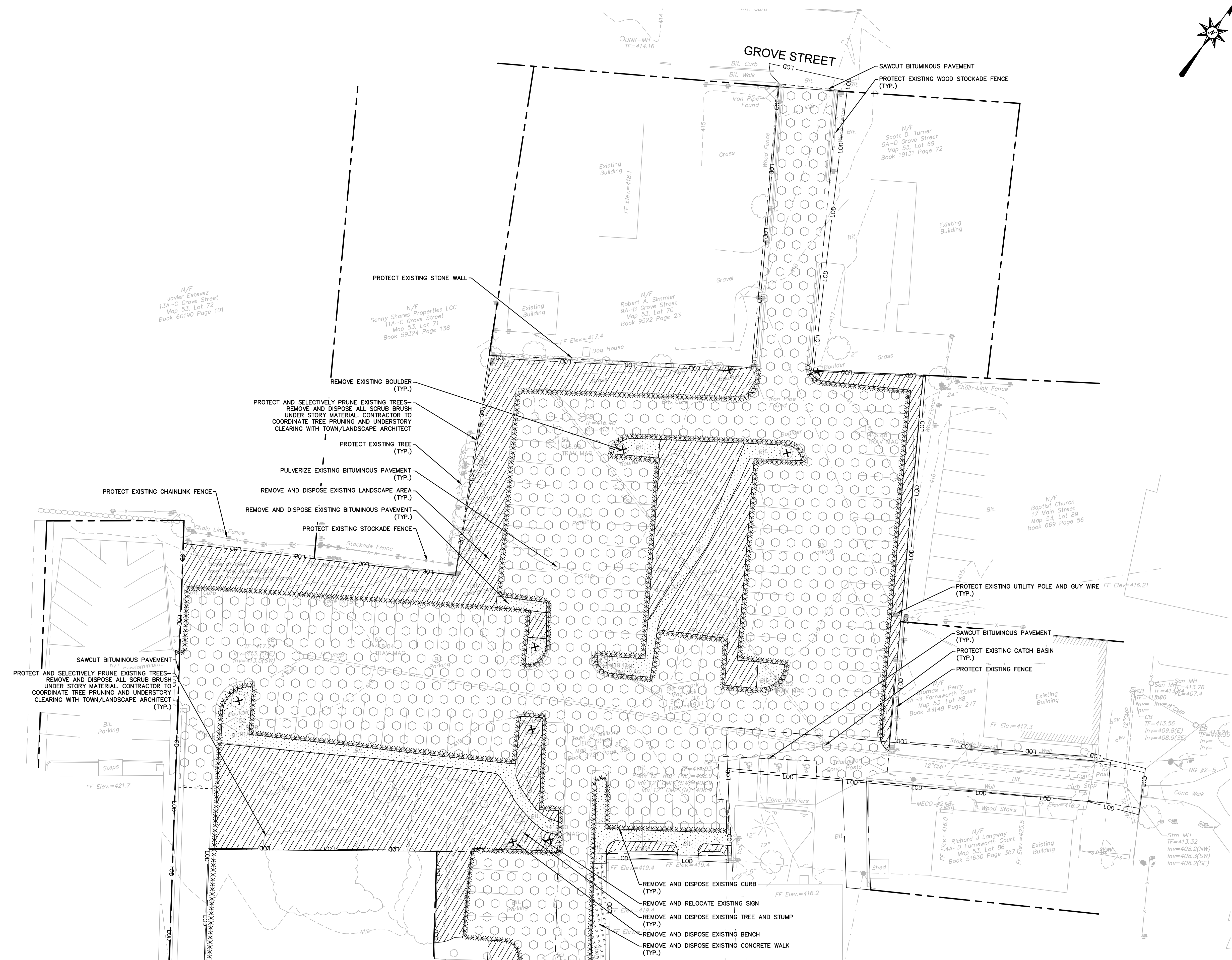
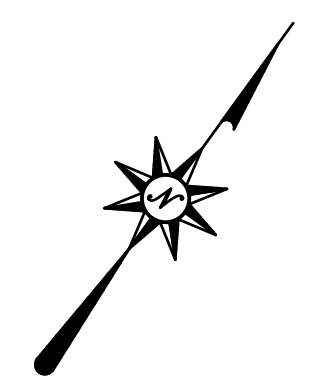
REMOVAL AND DISPOSAL OF STRUCTURES AND FURNISHINGS SHALL INCLUDE FOUNDATION UNLESS OTHERWISE NOTED

GRUBBING NOTE
GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW.

REFER TO EC SERIES FOR EROSION AND SEDIMENTATION CONTROL PLANS AND NOTES.



2/27/2022 LAUREL, \LANCOMPANIES\CON\UP\PROJ\JORDON, K\2001478\DWG\DM02\DM02.DWG



MATCHLINE - SEE SHEET NO. DM-02

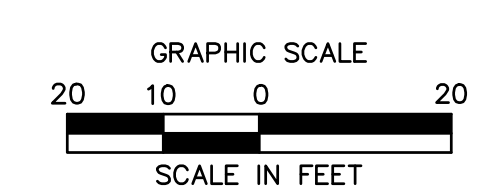
DEMOLITION LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---	SAWCUT LINE
XXXXXXXXXXXXXXXX	REMOVE AND DISPOSE EXISTING CURB
XXXXXX	REMOVE AND DISPOSE EXISTING CONCRETE SIDEWALK AND APRON
XXXXXX	REMOVE AND DISPOSE EXISTING BITUMINOUS PAVEMENT
XXXXXX	PULVERIZE EXISTING BITUMINOUS PAVEMENT
XXXXXX	REMOVE AND DISPOSE EXISTING LANDSCAPE AREA
X	REMOVE AND DISPOSE EXISTING STRUCTURE/FURNISHING/LANDSCAPE ITEM
⊗	REMOVE AND DISPOSE EXISTING TREE AND STUMP (SYMBOL NOT TO SCALE)
⊙	PROTECT EXISTING TREE TO REMAIN (SYMBOL NOT TO SCALE)
---	PROTECT EXISTING TREES/TREELINE

REMOVAL AND DISPOSAL OF STRUCTURES AND FURNISHINGS SHALL INCLUDE FOUNDATION UNLESS OTHERWISE NOTED

GRUBBING NOTE
GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW.

REFER TO EC SERIES FOR EROSION AND SEDIMENTATION CONTROL PLANS AND NOTES.



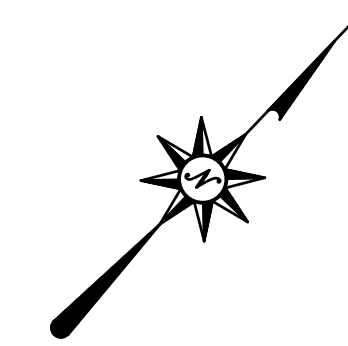
REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn B.C.T.
Reviewed N.R.G.
Scale 1" = 20'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: DM20047801

Title
DEMOLITION PLAN

Sheet No.

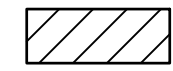


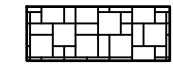
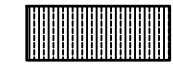
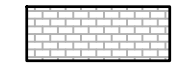
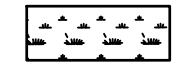
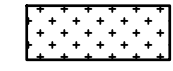

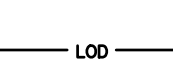


DM-03



PARKING TABLE ON STREET		
EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

- NOTES:**
- DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.

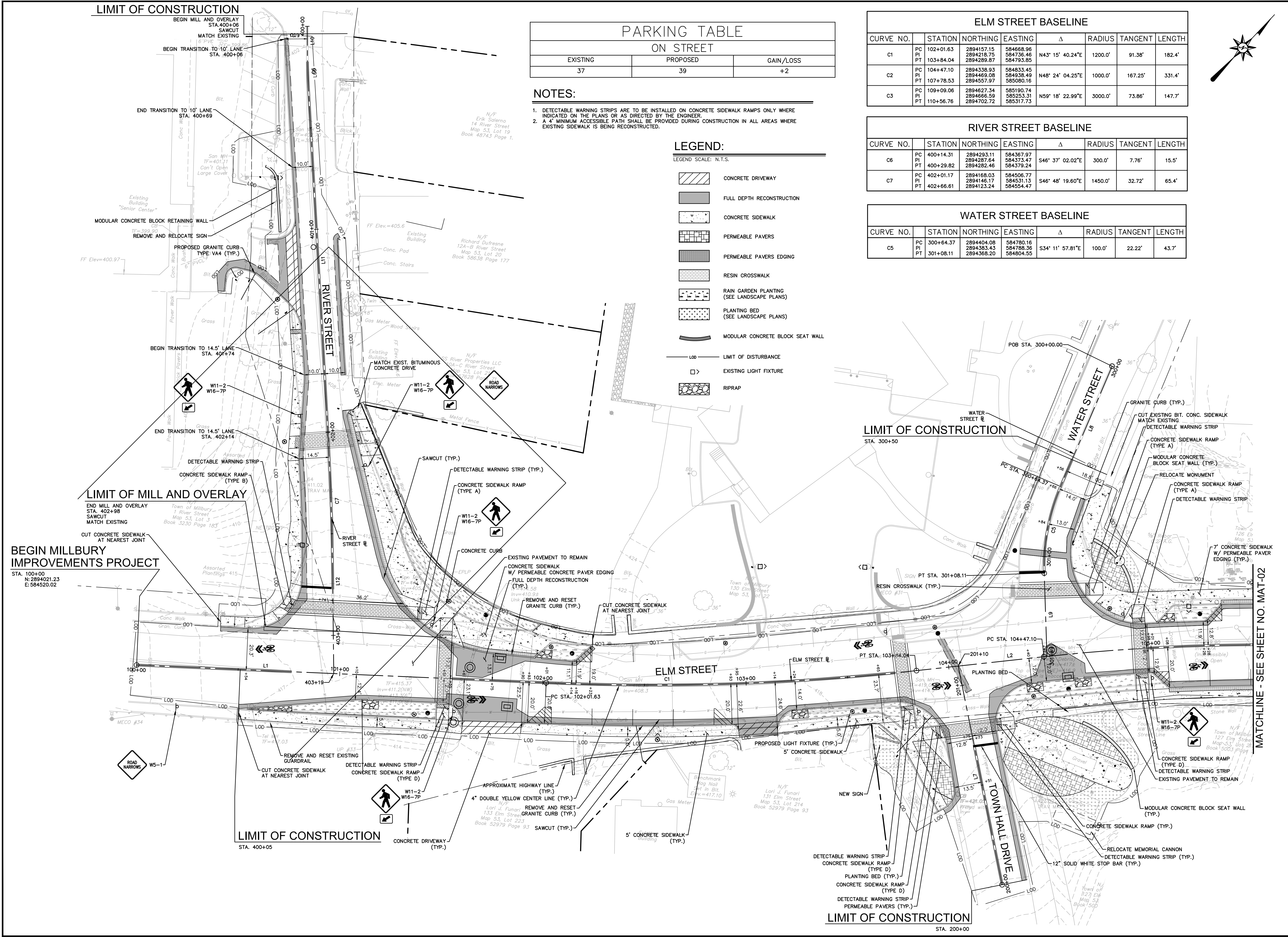
LEGEND:

- LEGEND SCALE: N.T.S.
-  CONCRETE DRIVEWAY
 -  FULL DEPTH RECONSTRUCTION
 -  CONCRETE SIDEWALK
 -  PERMEABLE PAVERS
 -  PERMEABLE PAVERS EDGING
 -  RESIN CROSSWALK
 -  RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
 -  PLANTING BED (SEE LANDSCAPE PLANS)
 -  MODULAR CONCRETE BLOCK SEAT WALL
 -  LIMIT OF DISTURBANCE
 -  EXISTING LIGHT FIXTURE
 -  RIPRAP

ELM STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C1	PC	102+01.63	2894157.15	584668.96	N43° 15' 40.24"E	1200.0'	91.38'
	PT	103+84.04	2894218.75	584736.46			
C2	PC	104+47.10	2894338.93	584833.45	N48° 24' 04.25"E	1000.0'	167.25'
	PT	107+78.53	2894469.08	584938.49			
C3	PC	109+09.06	2894627.34	585190.74	N59° 18' 22.99"E	3000.0'	73.86'
	PT	110+56.76	2894702.72	585317.73			

RIVER STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C6	PC	400+14.31	2894293.11	584367.97	S46° 37' 02.02"E	300.0'	7.76'
	PT	400+29.82	2894287.64	584373.47			
C7	PC	402+01.17	2894168.03	584506.77	S46° 48' 19.60"E	1450.0'	32.72'
	PT	402+66.61	2894146.17	584531.13			

WATER STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C5	PC	300+64.37	2894404.08	584780.16	S34° 11' 57.81"E	100.0'	22.22'
	PT	301+08.11	2894368.20	584604.55			



BEGIN MILLBURY IMPROVEMENTS PROJECT
STA. 100+00
N: 2894021.23
E: 584520.02

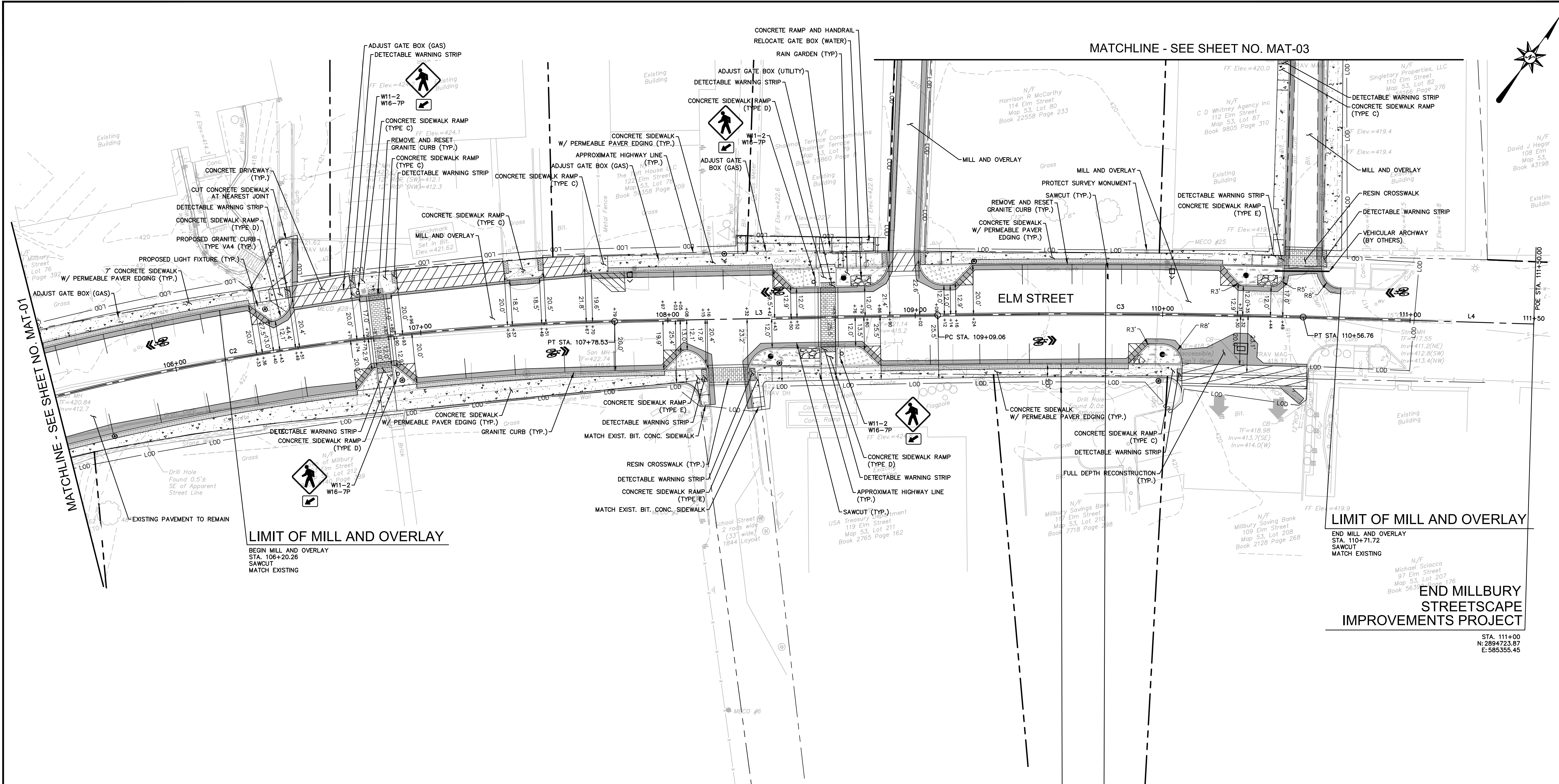
LIMIT OF MILL AND OVERLAY
END MILL AND OVERLAY
STA. 402+98
SAWCUT
MATCH EXISTING

LIMIT OF CONSTRUCTION
STA. 400+05

LIMIT OF CONSTRUCTION
STA. 300+50

LIMIT OF CONSTRUCTION
STA. 200+00

MATCHLINE - SEE SHEET NO. MAT-02



LIMIT OF MILL AND OVERLAY
BEGIN MILL AND OVERLAY
STA. 106+20.26
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY
END MILL AND OVERLAY
STA. 110+71.72
SAWCUT
MATCH EXISTING

**END MILLBURY
STREETSCAPE
IMPROVEMENTS PROJECT**

STA. 111+00
N: 2894723.97
E: 585355.45

LEGEND:

- LEGEND SCALE: N.T.S.
- CONCRETE DRIVEWAY
 - FULL DEPTH RECONSTRUCTION
 - CONCRETE SIDEWALK
 - PERMEABLE PAVER EDGING
 - RESIN CROSSWALK
 - RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
 - PLANTING BED (SEE LANDSCAPE PLANS)
 - VEHICULAR ARCHWAY (BY OTHERS)
 - LIMIT OF DISTURBANCE
 - EXISTING LIGHT FIXTURE
 - RIPRAP

ELM STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C1	PC	102+01.63	2894157.15	584668.96	N43° 15' 40.24"E	1200.0'	91.38'
	PI	103+84.04	2894218.75	584736.46			
	PT		2894289.87	584793.85			
C2	PC	104+47.10	2894338.93	584833.45	N48° 24' 04.25"E	1000.0'	167.25'
	PI	107+78.53	2894463.08	584938.49			
	PT		2894557.97	585080.16			
C3	PC	109+09.06	2894627.34	585190.74	N59° 18' 22.99"E	3000.0'	73.86'
	PI	109+09.06	2894666.59	585253.31			
	PT	110+56.76	2894702.72	585317.73			

RIVER STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C6	PC	400+14.31	2894293.11	584367.97	S46° 37' 02.02"E	300.0'	7.76'
	PI	400+29.82	2894287.64	584373.47			
	PT		2894282.46	584379.24			
C7	PC	402+01.17	2894168.03	584506.77	S46° 48' 19.60"E	1450.0'	32.72'
	PI	402+01.17	2894146.17	584531.13			
	PT	402+66.61	2894123.24	584554.47			

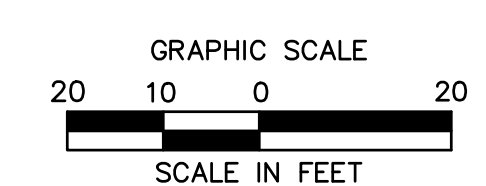
WATER STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C5	PC	300+64.37	2894404.08	584780.16	S34° 11' 57.81"E	100.0'	22.22'
	PI	301+08.11	2894383.43	584788.36			
	PT		2894368.20	584804.55			

**PARKING TABLE
ON STREET**

EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

- NOTES:**
- DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.

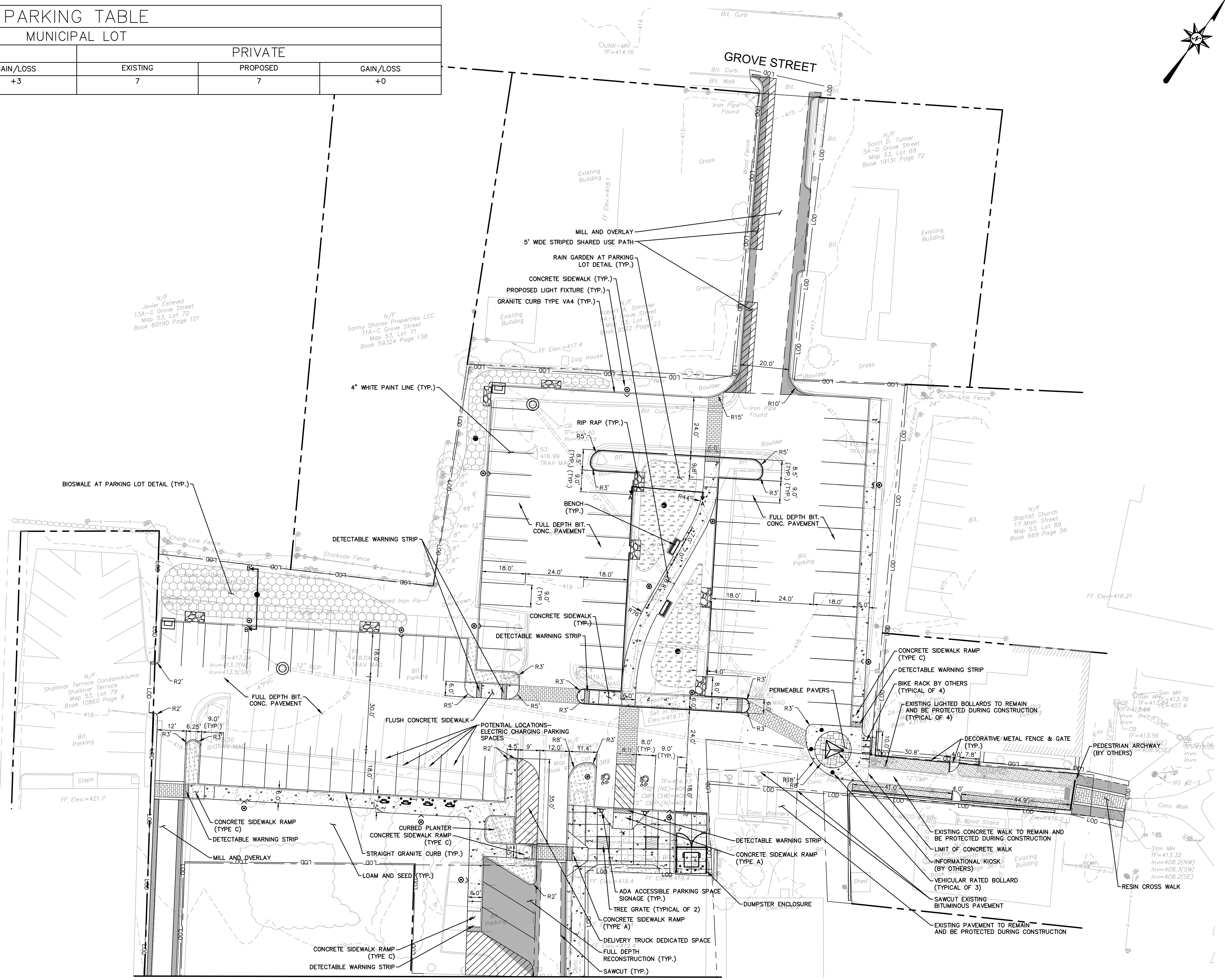
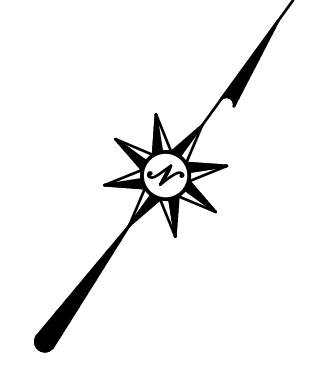


PARKING TABLE					
PUBLIC			PRIVATE		
EXISTING	PROPOSED	GAIN/LOSS	EXISTING	PROPOSED	GAIN/LOSS
77 TOTAL - 76 PUBLIC, 1 SPACE LOADING	79 PUBLIC, 1 SPACE LOADING	+3	7	7	+0



220 Norwood Park South
 Norwood, MA 02062
 (781) 619-9500

MILLBURY DOWNTOWN PHASE 2
 ELM STREET
 MILLBURY, MA



LEGEND:

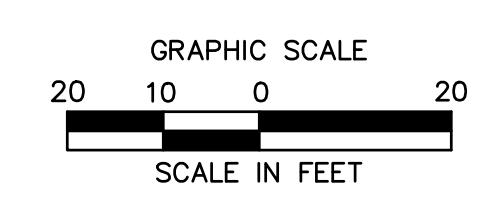
LEGEND SCALE: N.T.S.

- FULL DEPTH RECONSTRUCTION
- CONCRETE SIDEWALK
- RESIN CROSSWALK
- PERMEABLE PAVERS
- RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
- SHRUB & GROUND COVER PLANTING (SEE LANDSCAPE PLANS)
- SEEDED BIO SWALE (SEE LANDSCAPE PLANS)
- BENCH
- BIKE RACK
- INFORMATION KIOSK (BY OTHERS)
- LIMIT OF DISTURBANCE
- ELECTRICAL CONDUIT (NOT IN CONTRACT)
- DECORATIVE METAL FENCE
- RIPRAP

NOTES:

1. DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.

MATCHLINE - SEE SHEET NO. MAT-02



REVISED	No.	Date	Desc.

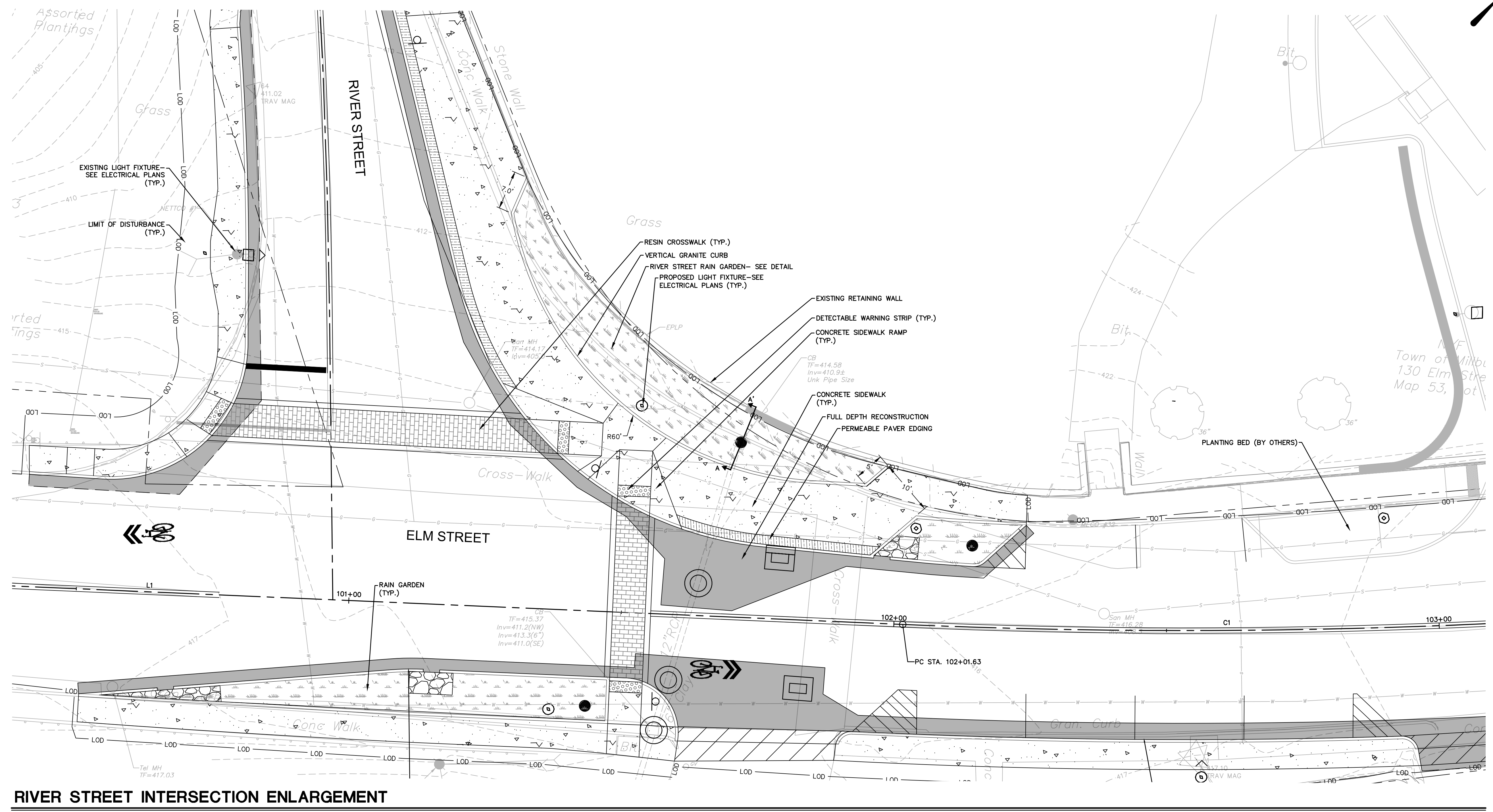
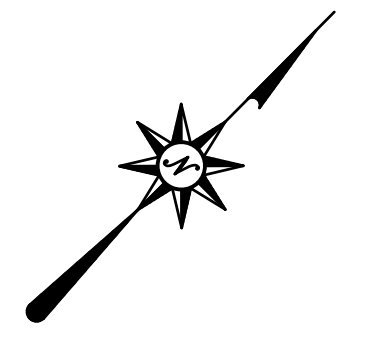
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 Drawn: B.C.T.
 Reviewed: N.R.G.
 Scale: 1" = 20'
 Project No.: 2001478
 Date: FEBRUARY, 2022
 CAD File: MAT20047801

Title: MATERIALS PLAN

Sheet No.



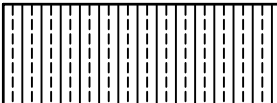
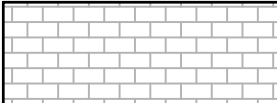

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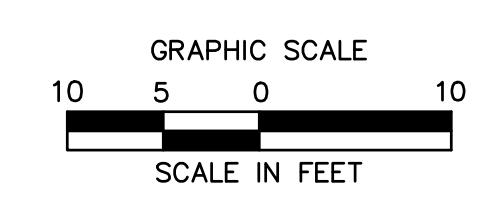
2/27/2022: LAUREN, L:\COMPANIES\CONCEPTS\PROJ\0201\145\001\178\DWG\MAT20047801.DWG (MAY 03)



RIVER STREET INTERSECTION ENLARGEMENT
N.T.S.

LEGEND

-  FULL DEPTH RECONSTRUCTION
-  CONCRETE SIDEWALK
-  PERMEABLE PAVER EDGING
-  RESIN CROSSWALK
-  RAIN GARDEN PLANTING
(SEE LANDSCAPE PLANS)



REVISIONS	
No.	Date

Desc.

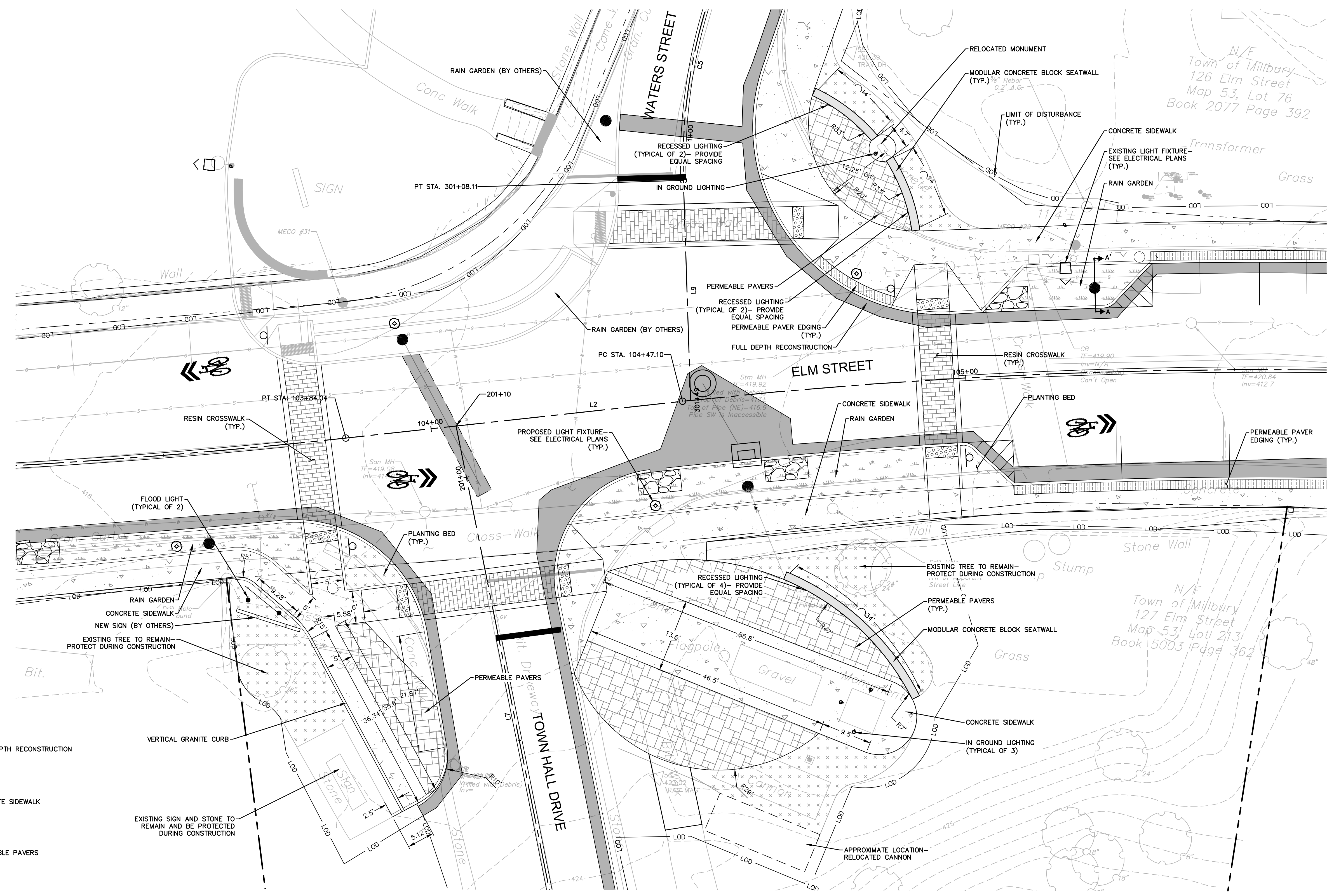
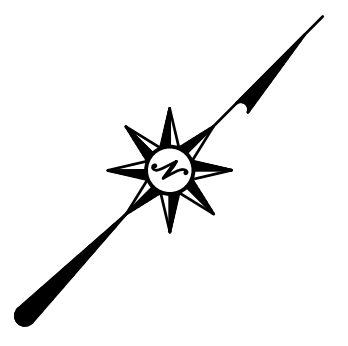
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Drawn	K.A.
Reviewed	N.R.G.
Scale	1" = 10'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	MAT20047801

Title
MATERIALS ENLARGEMENT PLAN

Sheet No.

2/27/2022: HAURED, \\BLCOMPANIES\COM\PLANS\PROJ\JORDON, E\2001478\DWG\MAT04.DWG:MAT04

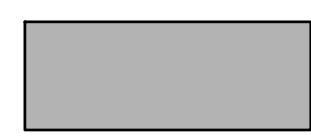
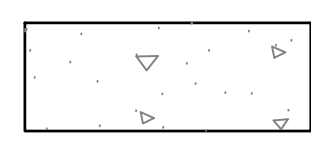
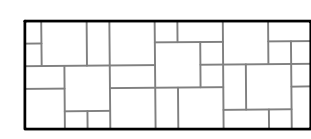
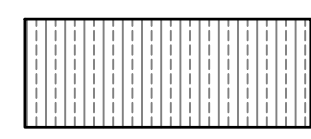
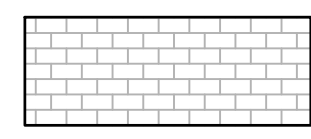
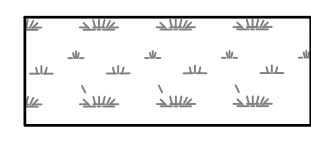
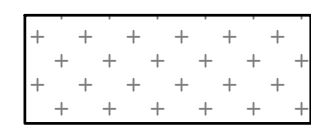

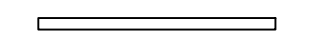
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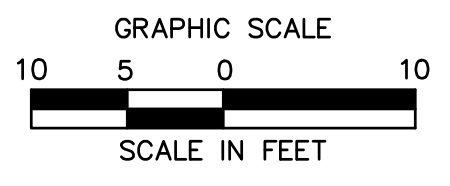


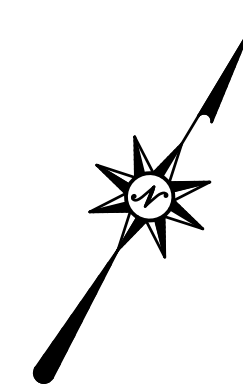
WATERS STREET AND TOWN HALL DRIVE INTERSECTION

NOTE:
1. CONTRACTOR TO CONFIRM PLACEMENT OF FLOOD LIGHTS, RECESSED LIGHTS, AND IN GROUND LIGHTS WITH TOWN/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

LEGEND

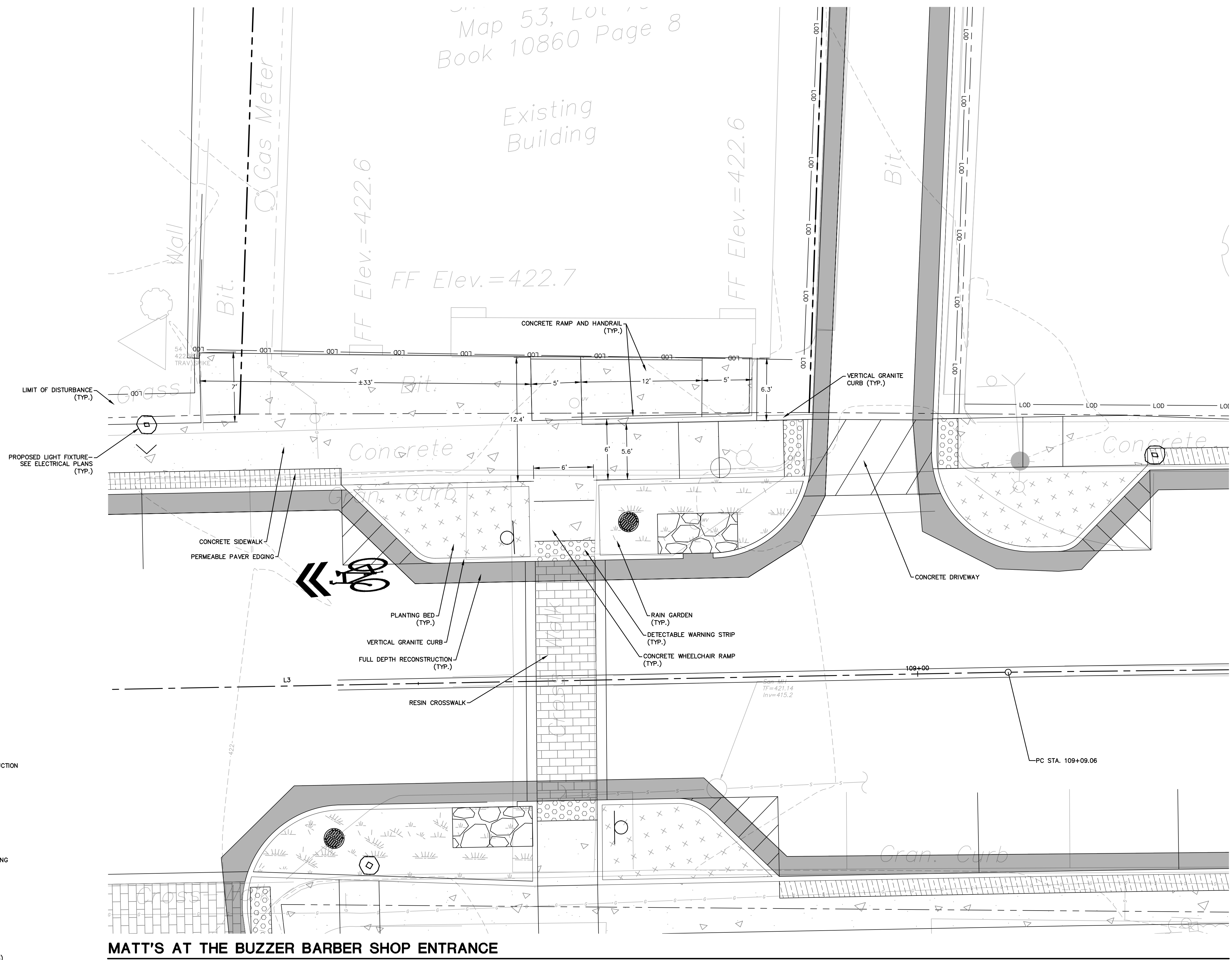
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-  FULL DEPTH RECONSTRUCTION
-  CONCRETE SIDEWALK
-  PERMEABLE PAVERS
-  PERMEABLE PAVER EDGING
-  RESIN CROSS WALK
-  RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
-  PLANTING BED (SEE LANDSCAPE PLANS)
-  MODULAR CONCRETE BLOCK SEATWALL
-  NEW SIGN (BY OTHERS)







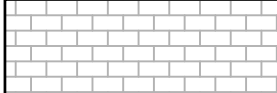




Map 53, Lot 1
Book 10860 Page 8

Existing Building

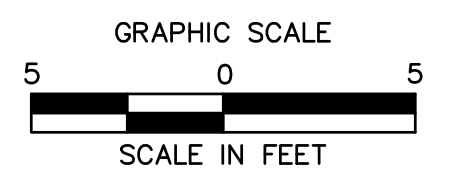


LEGEND

- N.T.S.
-  CONCRETE DRIVEWAY
 -  FULL DEPTH RECONSTRUCTION
 -  CONCRETE SIDEWALK
 -  PERMEABLE PAVER EDGING
 -  RESIN CROSS WALK
 -  RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
 -  PLANTING BED (SEE LANDSCAPE PLANS)

MATT'S AT THE BUZZER BARBER SHOP ENTRANCE

N.T.S.



REVISIONS	
No.	Date

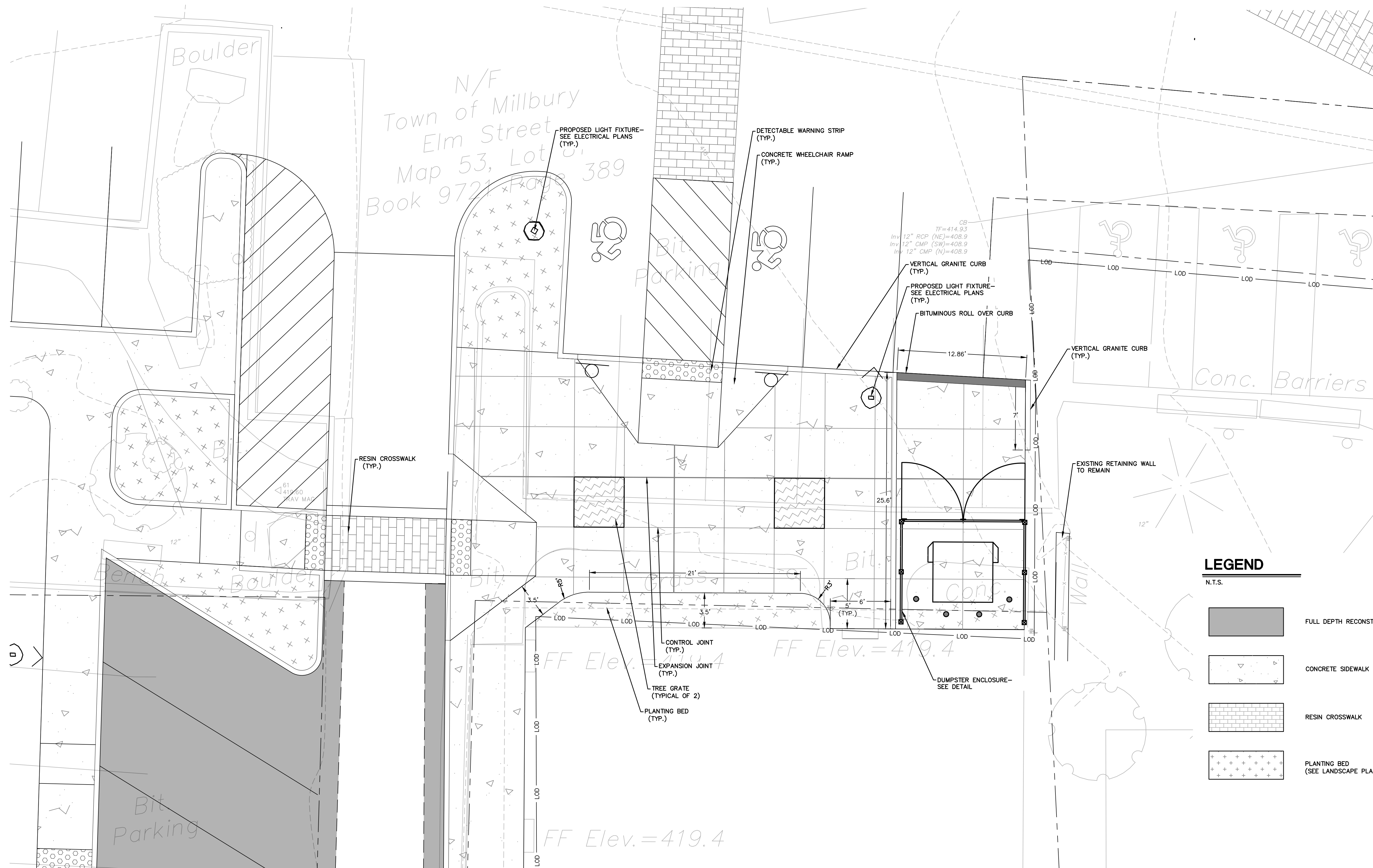
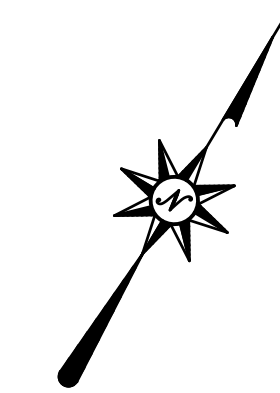
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Drawn	K.A.
Reviewed	N.R.G.
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Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	MAT20047801
Title	MATERIALS ENLARGEMENT PLAN
Sheet No.	

MAT-06

2/2/2022: KATHLEEN, \\\BLCOMPANIES.COM\PLANS\PROJ\1000\145001478\DWG\MAT0047801.DWG:KAY:KAY

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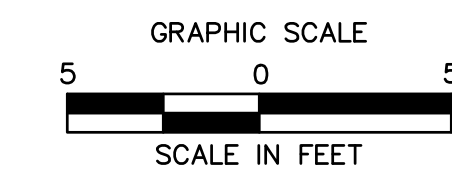
LEGEND

N.T.S.

	FULL DEPTH RECONSTRUCTION
	CONCRETE SIDEWALK
	RESIN CROSSWALK
	PLANTING BED (SEE LANDSCAPE PLANS)

MUNICIPAL PARKING LOT ENLARGEMENT PLAN

N.T.S.

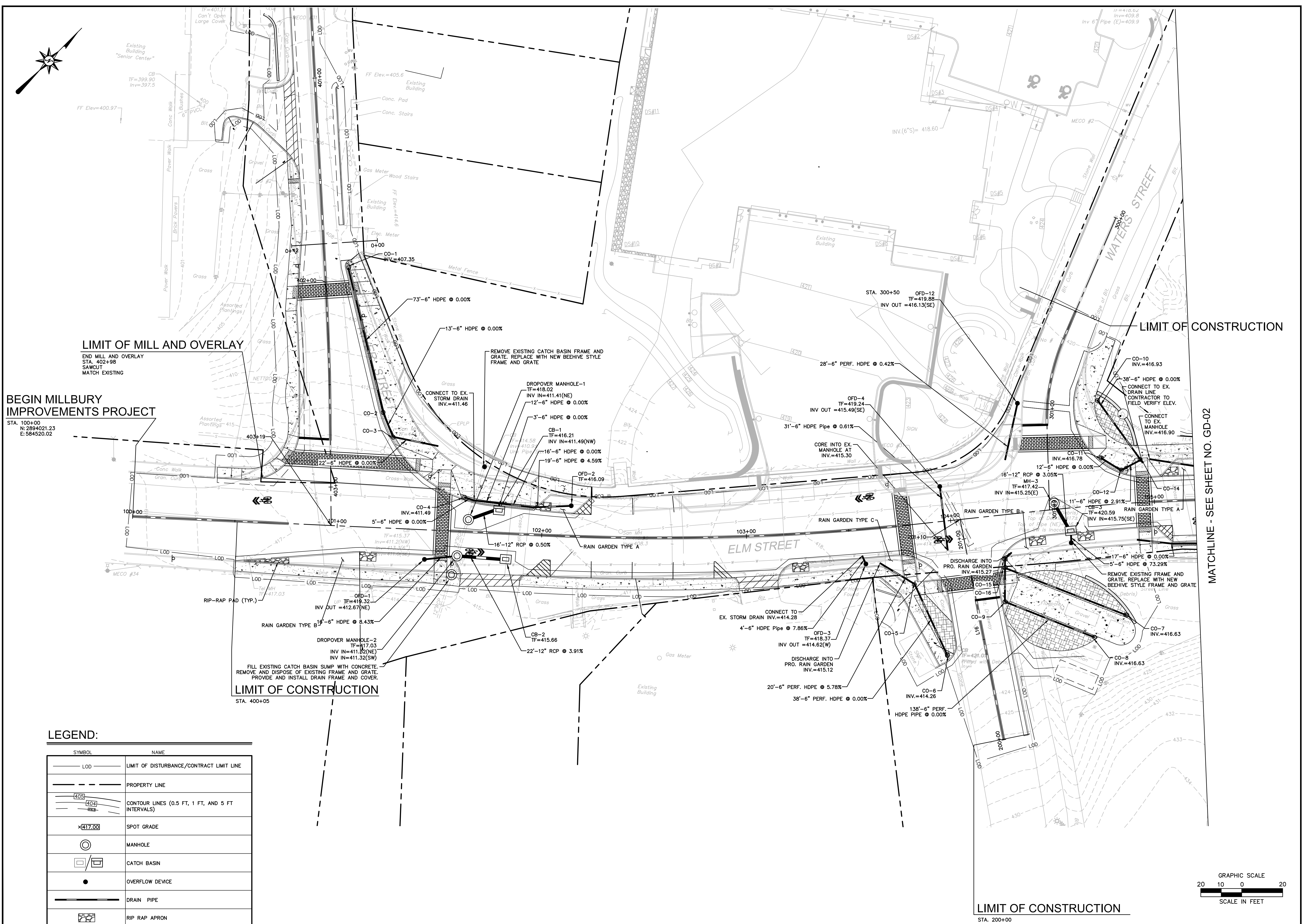


REVISIONS No.	Date	Desc.

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Drawn: K.A.
Reviewed: N.R.G.
Scale: 1" = 5'-0"
Project No.: 2001478
Date: FEBRUARY, 2022
CAD File: MAT20047801

Title: MATERIALS ENLARGEMENT PLAN

Sheet No.



LIMIT OF MILL AND OVERLAY

END MILL AND OVERLAY
STA. 402+98
SAWCUT
MATCH EXISTING

BEGIN MILLBURY IMPROVEMENTS PROJECT

STA. 100+00
N: 2894021.23
E: 584520.02

LIMIT OF CONSTRUCTION

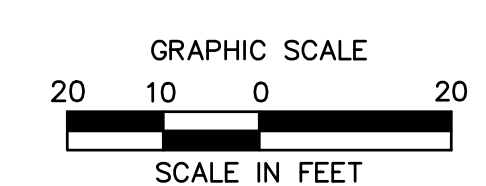
MATCHLINE - SEE SHEET NO. GD-02

LIMIT OF CONSTRUCTION
STA. 400+05

LIMIT OF CONSTRUCTION
STA. 200+00

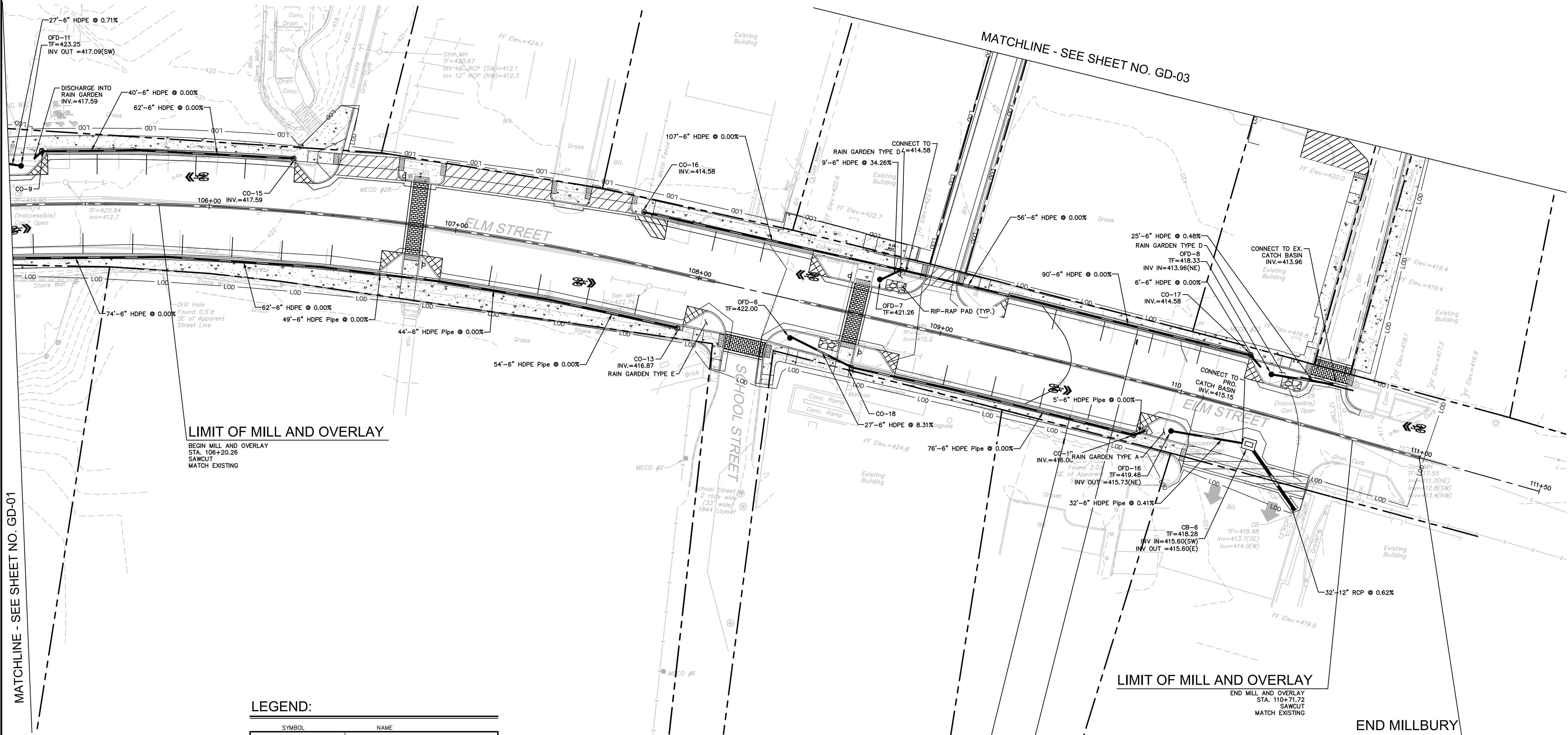
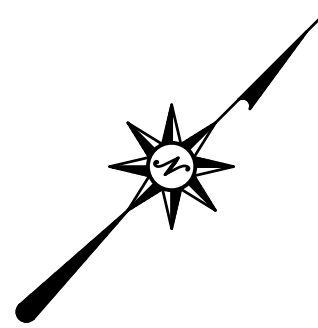
LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---(40.5)---	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
x(417.00)	SPOT GRADE
⊙	MANHOLE
⊠	CATCH BASIN
●	OVERFLOW DEVICE
---	DRAIN PIPE
⊠	RIP RAP APRON



2/27/2022 LAUREN, \\\BLCOMPANIES.COM\PLANS\PROJ\JORDAN, KAY\2001478\DWG\GD200147801.DWG (GD-01)

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LIMIT OF MILL AND OVERLAY

BEGIN MILL AND OVERLAY
STA. 106+20.26
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY

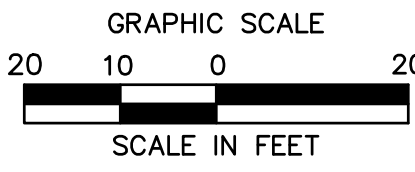
END MILL AND OVERLAY
STA. 110+71.72
SAWCUT
MATCH EXISTING

**END MILLBURY
STREETSCAPE
IMPROVEMENTS PROJECT**

STA. 111+00
N: 2894723.87
E: 585355.45

LEGEND:

SYMBOL	NAME
— LOD —	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
40.0 40.4 0.0%	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
×417.00	SPOT GRADE
⊙	MANHOLE
□/▭	CATCH BASIN
●	OVERFLOW DEVICE
—	DRAIN PIPE
▨	RIP RAP APRON



MATCHLINE - SEE SHEET NO. GD-01

MATCHLINE - SEE SHEET NO. GD-03



220 Norwood Park South
Norwood, MA 02062
(781) 619-9500

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS

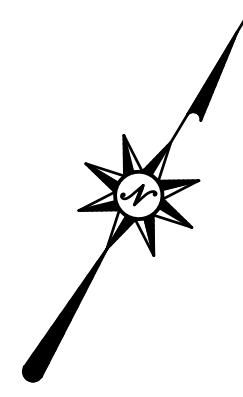
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Date FEBRUARY, 2022
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Sheet No. **GD-02**

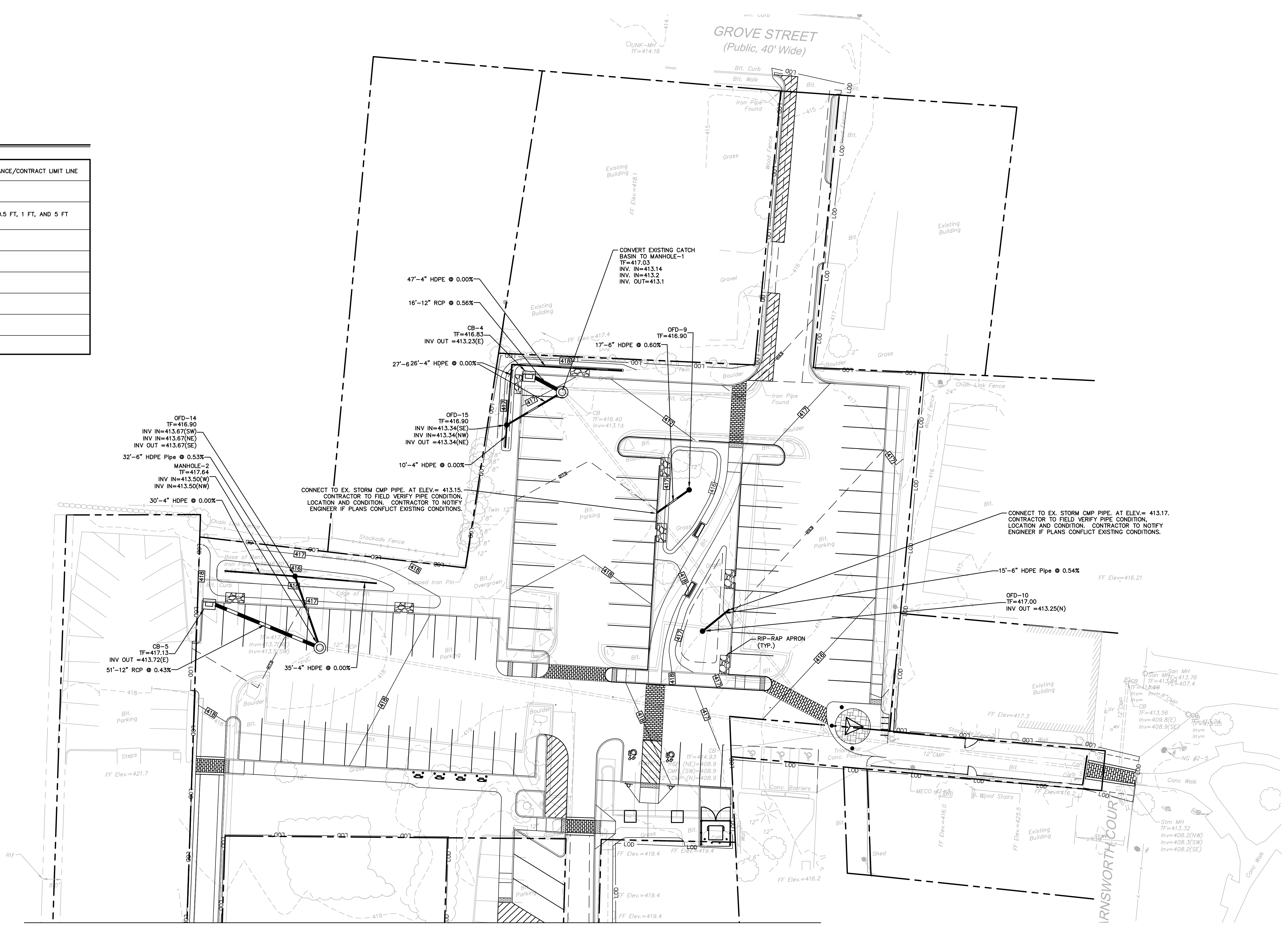
2/27/2022 LAUREN, \\\COMPA\BLS\PROJECTS\2001478\DWG\GD200147801.DWG GD-02

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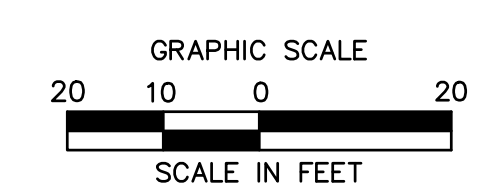


LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
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×[417.00]	SPOT GRADE
⊙	MANHOLE
□/□	CATCH BASIN
●	OVERFLOW DEVICE
—	DRAIN PIPE
▨	RIP RAP APRON



MATCHLINE - SEE SHEET NO. GD-02



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: GD200147801

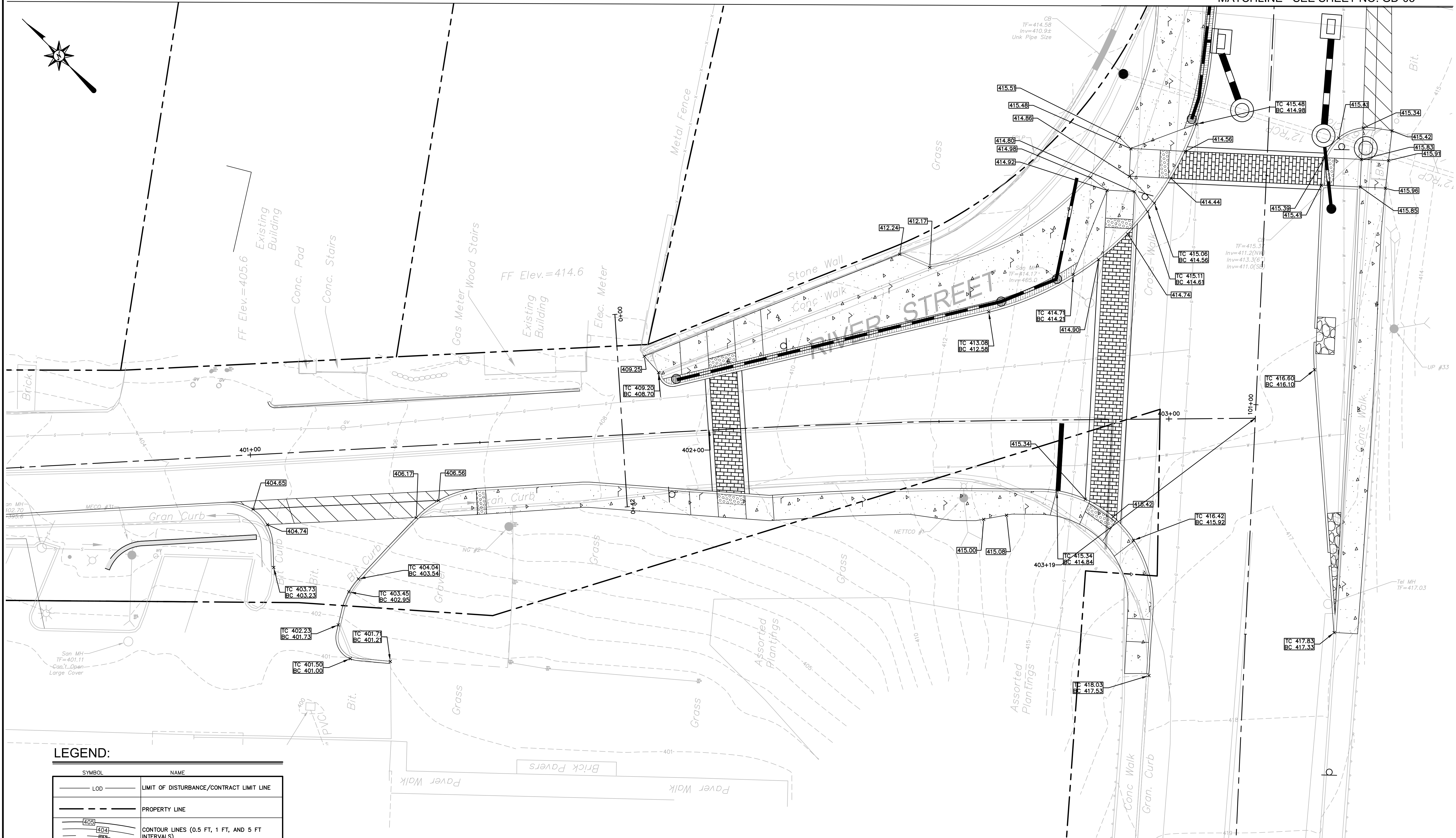
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GRADING AND DRAINAGE PLAN

Sheet No.

GD-03

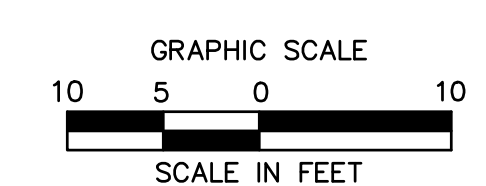
2/27/2022 LAUREN, \\\BLCOMPANIES.COM\LAUREN\PROJECTS\2022\1478\DWG\GD200147801.DWG GD-03

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LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---404---	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
x417.00	SPOT GRADE
⊙	MANHOLE
⊞	CATCH BASIN
●	OVERFLOW DEVICE
---	DRAIN PIPE
▨	RIP RAP APRON



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS

No.	Date	Desc.

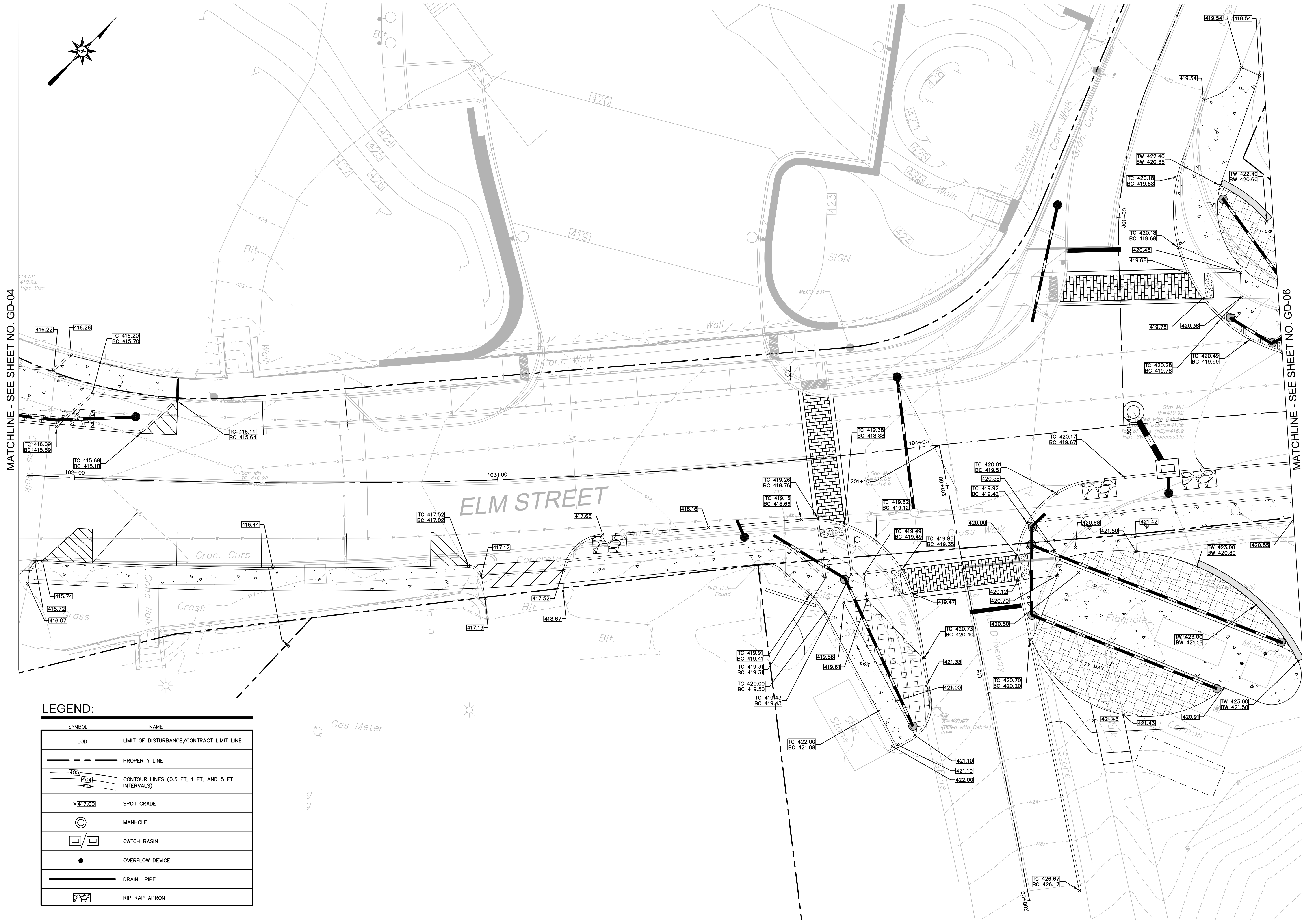
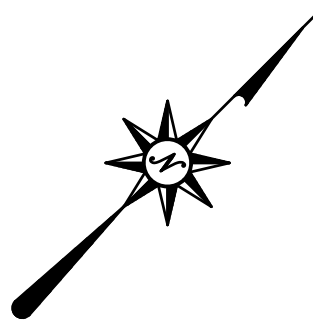
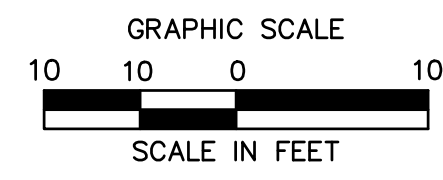
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Drawn E.A.E.
Reviewed M.M.
Scale 1" = 10'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: GD200147801

Title
GRADING AND DRAINAGE PLAN

Sheet No.

2/27/2022 LAUREL, \\\BLCOMPANIES.COM\PLANS\PROJ\JORDON, K\2001478\DWG\GD2001478.DWG GD-04

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MATCHLINE - SEE SHEET NO. GD-04

MATCHLINE - SEE SHEET NO. GD-06

LEGEND:

SYMBOL	NAME
— LOD —	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
—	PROPERTY LINE
— 40.5 —	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
x(417.00)	SPOT GRADE
⊙	MANHOLE
⊠	CATCH BASIN
•	OVERFLOW DEVICE
—	DRAIN PIPE
⊞	RIP RAP APRON



220 Norwood Park South
 Norwood, MA 02062
 (781) 619-9500

MILLBURY DOWNTOWN PHASE 2
 ELM STREET
 MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed	E.A.E.
Drawn	E.A.E.
Reviewed	M.M.
Scale	1" = 10'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	GD200147801
Title	GRADING AND DRAINAGE PLAN
Sheet No.	GD-05

2/27/2022: KAUHREID, \\\BLCOMPANIES.COM\PLANS\PROJECTS\2001478\DWG\GD200147801.DWG (GD-05)

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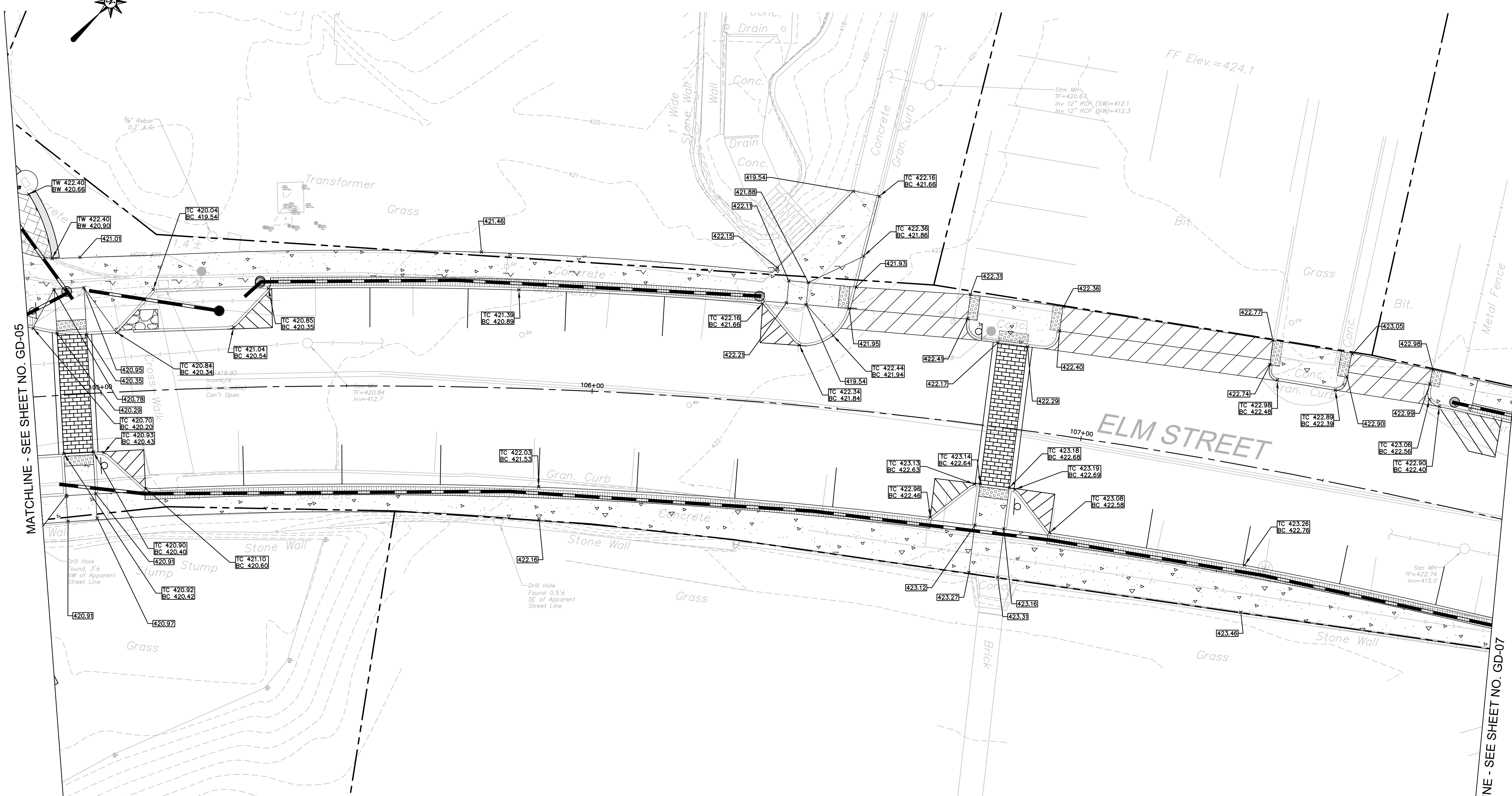
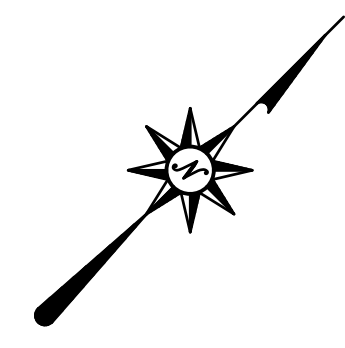
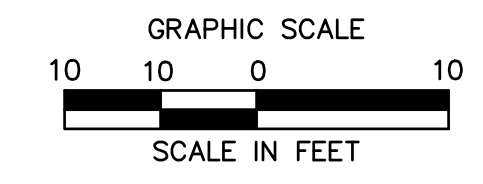
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	Desc.
No.	Date

Designed E.A.E.
Drawn E.A.E.
Reviewed M.M.
Scale 1" = 10'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: GD200147801

Sheet No.

GD-06



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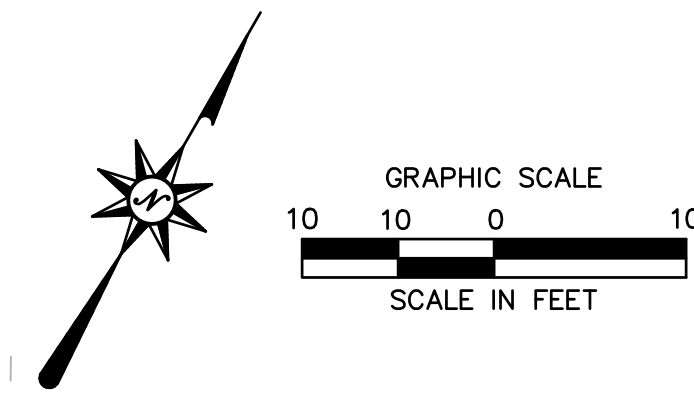
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—	PROPERTY LINE
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x417.00	SPOT GRADE
⊙	MANHOLE
□/□	CATCH BASIN
●	OVERFLOW DEVICE
—	DRAIN PIPE
▨	RIP RAP APRON

2/7/2022: HA/RED, \\\BLCOMPANIES.COM\PLANS\PROJ\JORDAN, J\42001478\DWG\GD200147801.DWG GD-06

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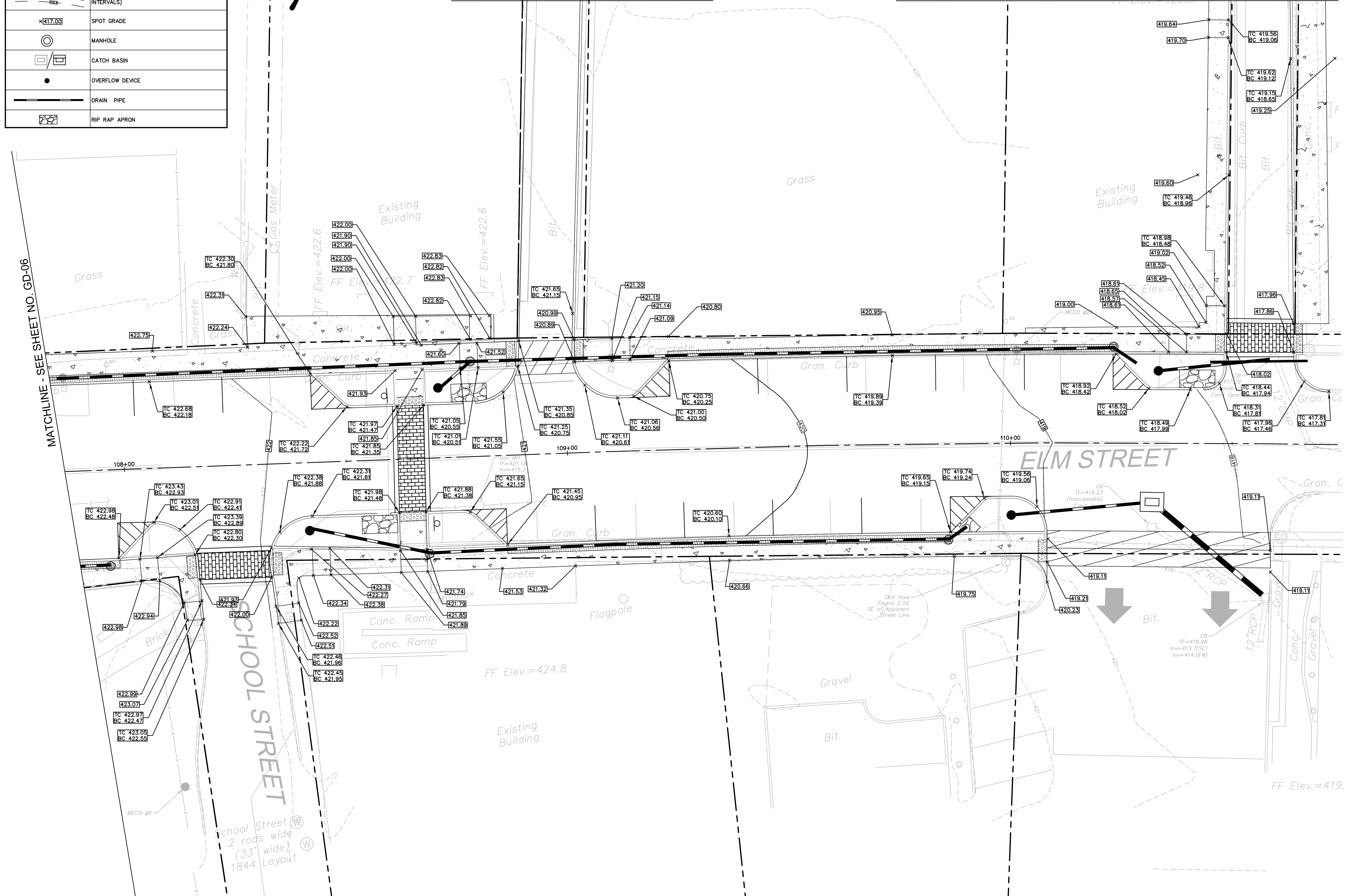
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---	PROPERTY LINE
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x417.00	SPOT GRADE
⊙	MANHOLE
□	CATCH BASIN
•	OVERFLOW DEVICE
—	DRAIN PIPE
▨	RIP RAP APRON



MATCHLINE - SEE SHEET NO. GD-10

MATCHLINE - SEE SHEET NO. GD-08



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MILLBURY DOWNTOWN PHASE 2
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REVISIONS	Desc.
No.	Date

Designed E.A.E.
Drawn E.A.E.
Reviewed M.M.
Scale 1" = 10'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: GD200147801

Sheet No.

GD-07

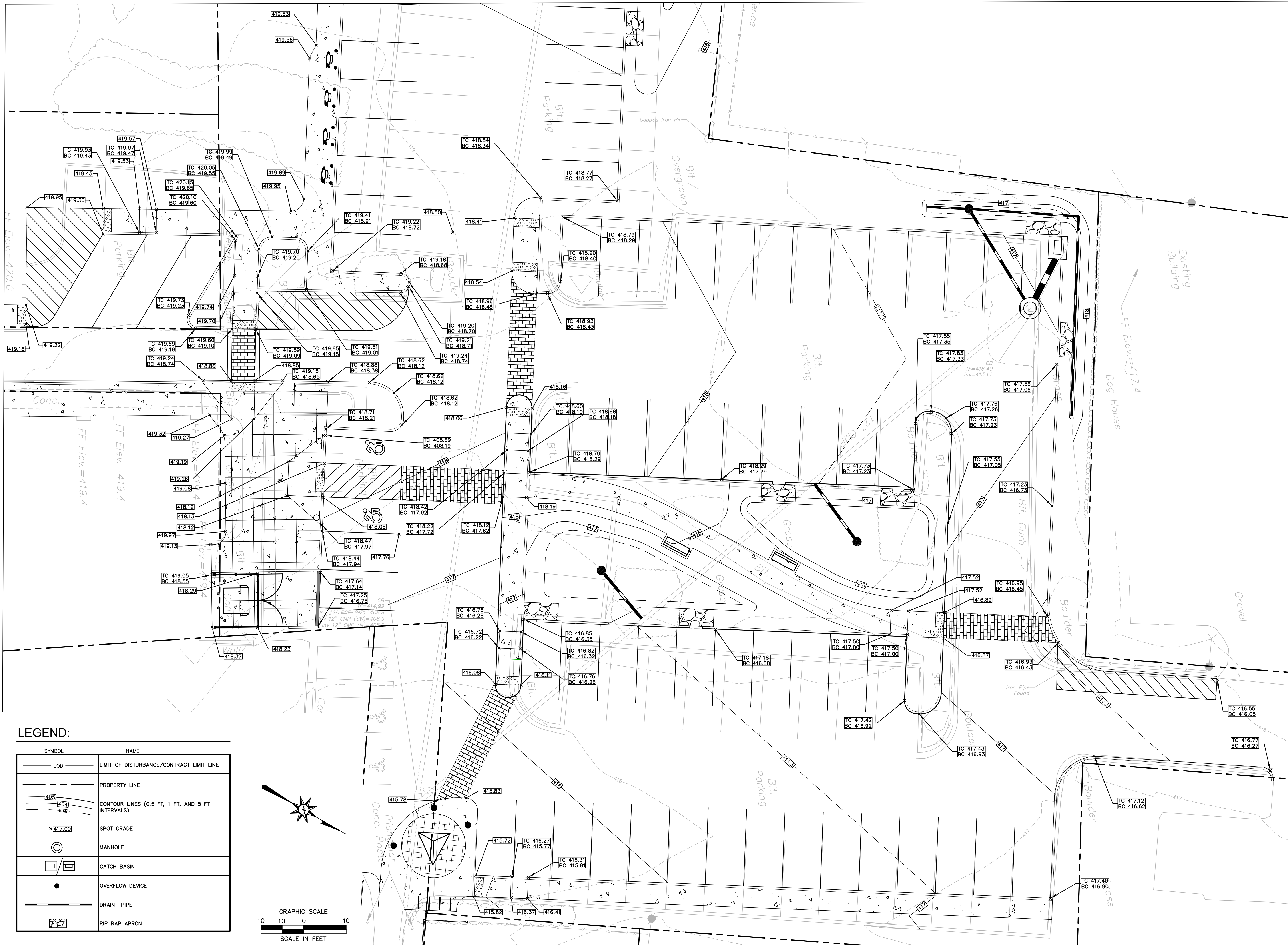
2/27/2022: LAUREN, \\\BLCOMPANIES.COM\LAUREN\PROJECTS\2022\GD-07.DWG

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MATCHLINE - SEE SHEET NO. GD-10

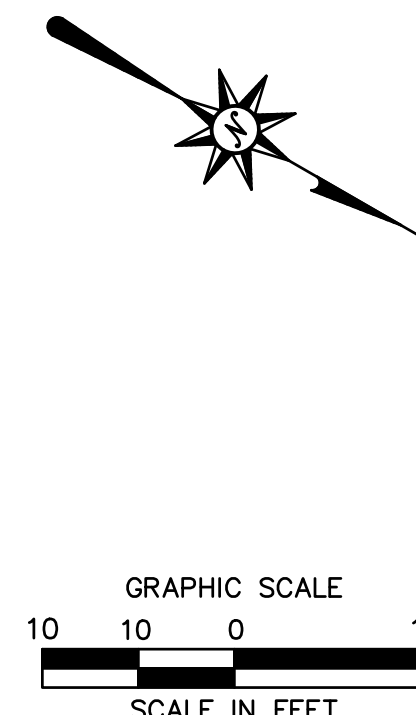
MATCHLINE - SEE SHEET NO. GD-08

MATCHLINE - SEE SHEET NO. GD-09



LEGEND:

SYMBOL	NAME
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---	PROPERTY LINE
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x417.00	SPOT GRADE
⊙	MANHOLE
⊠	CATCH BASIN
●	OVERFLOW DEVICE
—	DRAIN PIPE
⊠	RIP RAP APRON



2/27/2022: KAITRED, V:\COMPANIES\CON\ELM\PHASE 2\GD-08.DWG



Architecture
Engineering
Environmental
Land Surveying

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Norwood, MA 02062
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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	Desc.
No. Date	
Designed	E.A.E.
Drawn	E.A.E.
Reviewed	M.M.
Scale	1" = 10'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	GD200147801
Title	GRADING AND DRAINAGE PLAN
Sheet No.	

GD-08

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	
No.	Date

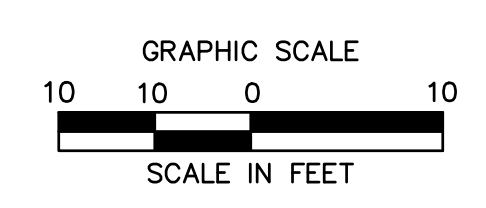
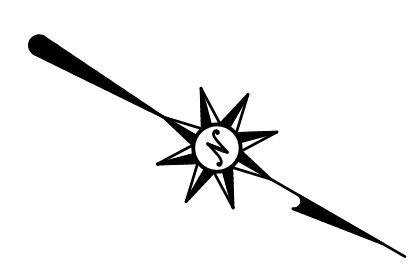
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Drawn E.A.E.
Reviewed M.M.
Scale 1" = 10'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: GD200147801

Title
GRADING AND DRAINAGE PLAN

Sheet No.
GD-09

LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---405--- ---404--- ---403---	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
×417.00	SPOT GRADE
⊙	MANHOLE
□/□	CATCH BASIN
●	OVERFLOW DEVICE
---	DRAIN PIPE
▨	RIP RAP APRON



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	Desc.
No.	Date



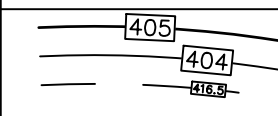

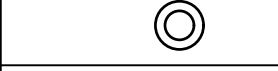

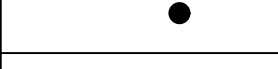

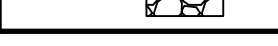
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Scale 1" = 10'
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Date FEBRUARY, 2022
CAD File: GD200147801

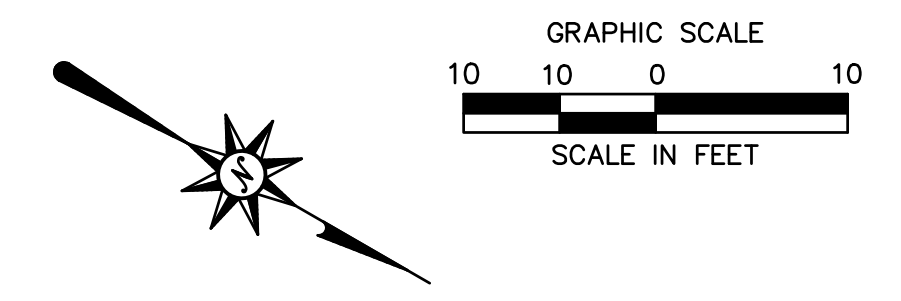
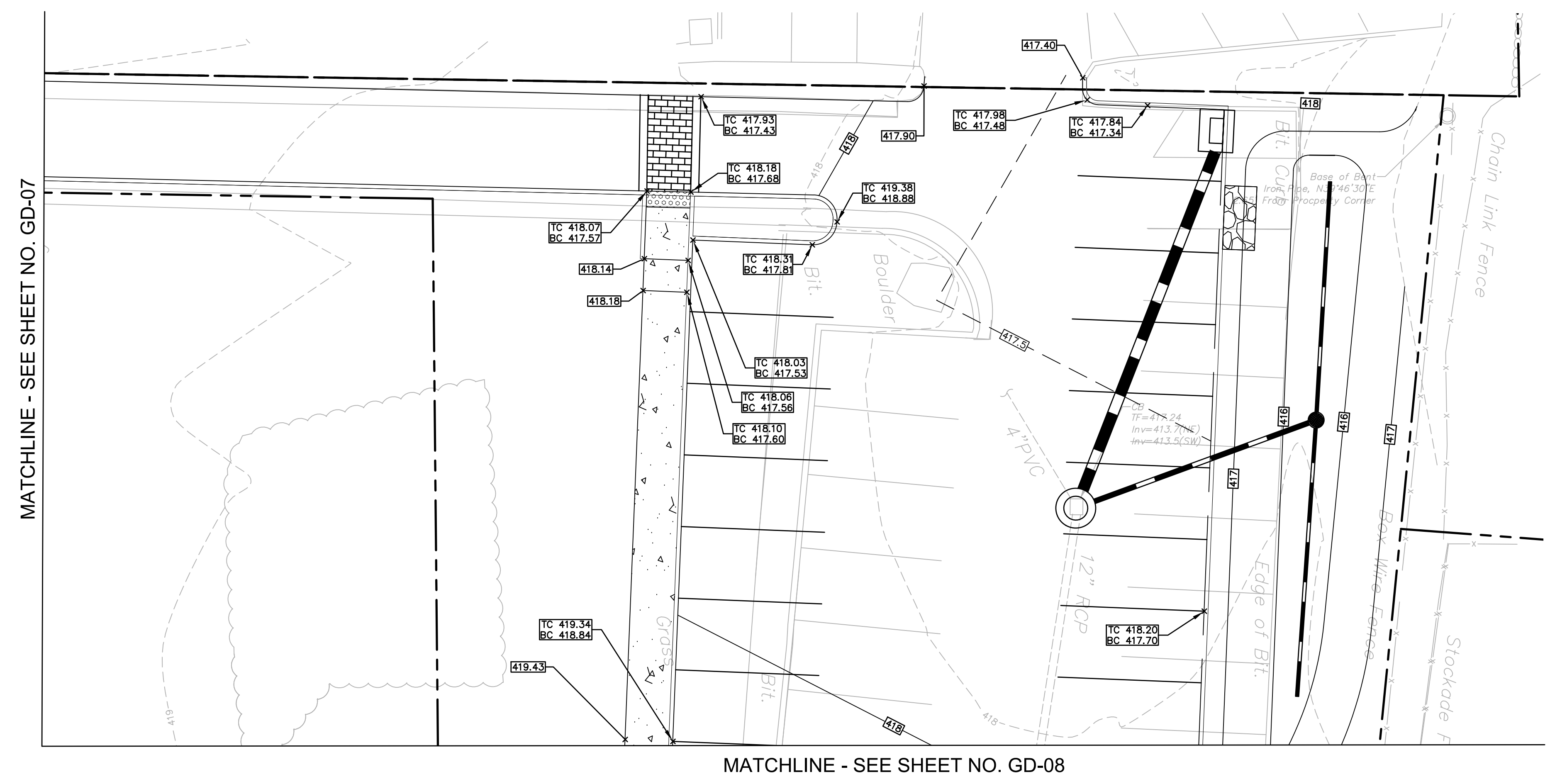
Title
GRADING AND DRAINAGE PLAN

Sheet No.

GD-10

LEGEND:

SYMBOL	NAME
	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
	PROPERTY LINE
	CONTOUR LINES (0.5 FT, 1 FT, AND 5 FT INTERVALS)
	SPOT GRADE
	MANHOLE
	CATCH BASIN
	OVERFLOW DEVICE
	DRAIN PIPE
	RIP RAP APRON



ELECTRICAL ABBREVIATIONS			
A OR AMP	AMPERES	MCA	MINIMUM CIRCUIT AMPS
AAC	ABOVE ACCESSIBLE CEILING	MCB	MAIN CIRCUIT BREAKER
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCM	THOUSAND CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	MD	MOTORIZED DAMPER
AHJ	AUTHORITY HAVING JURISDICTION	MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MFR, MFR	MANUFACTURER
AIC	INTERRUPTING CAPACITY(RMS SYMMETRICAL AMPERES)	MH	MECHANICALLY HELD
ATS	AUTOMATIC TRANSFER SWITCH	MIC	MICROPHONE
BB	DEVICE MOUNTED IN BASEBOARD TRIM	MLO	MAIN LUGS ONLY
BFG	BELOW FINISHED GRADE	MO	MOTOR OPERATED
BKGD	BACKBOARD	MTD	MOUNTED
C OR COND	CONDUIT	MUA, MAU	MAKE-UP AIR UNIT
C/T	CURRENT TRANSFORMER	MW	MICROWAVE POWER RECEPTACLE
CB, C/B	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CFA	CALL FOR ASSISTANCE	NEC	NATIONAL ELECTRIC CODE
CH	MOUNT DEVICE AT 6" ABOVE COUNTER OR BACK SPLASH	NF	NOT FUSED
CLG	CEILING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CM	CONSTRUCTION MANAGER	NIC	NOT IN CONTRACT
CPT	CURRENT POTENTIAL TRANS.	NL	NIGHT LIGHT
CTR	DEVICE MOUNTED ABOVE COUNTER/BACKSPLASH	NO	NORMALLY OPEN
CU	CONDENSING UNIT	NTS	NOT TO SCALE
DC	DIRECT CURRENT	OC	OCCUPANCY SENSOR
DISC. SW	DISCONNECT SWITCH	P	POLE
DN	DOWN	PB	PULL BOX
dh	DAYLIGHT HARVEST CONTROLLED LIGHT FIXTURE	PE	PNEUMATIC ELECTRIC SWITCH
EBB	ELECTRIC BASEBOARD HEATER	PH	PHASE
EDH	ELECTRIC DUCT HEATER	P/T	POTENTIAL TRANSFORMER
EF	EXHAUST FAN	PTR	PRINTER POWER RECEPTACLE
EM	EMERGENCY	PVC	POLYVINYL CHLORIDE
EO	ELECTRICALLY OPERATED	REF	REFRIGERATOR POWER RECEPTACLE
EP	ELECTRIC PNEUMATIC SWITCH	RGS	RIGID GALVANIZED STEEL
ETR, E	EXISTING TO REMAIN	RMC	RIGID METALLIC CONDUIT
EUH	ELECTRIC UNIT HEATER	RTU	ROOFTOP UNIT
EW	ELECTRIC WATER COOLER	SW	SWITCH
EWB	ELECTRIC WALL HEATER	SWBO	SWITCHBOARD
FA	FIRE ALARM	TEL	TELEPHONE
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FLA	FULL LOAD AMPS	UF	UNDERFLOOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
G, GND	GROUND	UL	UNDERWRITERS LABORATORIES
HOA	HANDS-OFF AUTOMATIC SWITCH	UP	UP
HP	HORSEPOWER	UTP	UNSHIELDED TWISTED PAIR
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	V	VOLTS
IG	ISOLATED GROUND	VAV	VARIABLE AIR VOLUME
IMC	INTERMEDIATE METALLIC CONDUIT	VM	VENDING MACHINE POWER RECEPTACLE
JB	JUNCTION BOX	VP	VAPORPROOF
KCMIL	1000 CIRCULAR MILS	VFD	VARIABLE FREQUENCY DRIVE
KV	KILOVOLTS (1000 VOLTS)	VSD	VARIABLE SPEED DRIVE
KVA	KILOVOLT AMPERES (1000 VOLT-AMPERES)	W/	WITH
KW	KILOWATTS (1000 WATTS)	WP	WEATHERPROOF
LRA	LOCKED ROTOR AMPS	XFMR, XFMR	TRANSFORMER
EXISTING ELECTRICAL EQUIPMENT ABBREVIATIONS			
EX	EXISTING TO REMAIN.		
RE	REMOVE EXISTING.		
RL	RELOCATE EXISTING.		
NL	NEW LOCATION OF EXISTING RELOCATED.		
NR	NEW TO REPLACE EXISTING.		
RR	REMOVE AND REPLACE ON NEW SURFACE.		
NOTE: NOT ALL ABBREVIATIONS MAY APPEAR ON THE DRAWINGS.			

ELECTRICAL SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	TRANSFORMER
	SURFACE MOUNTED PANEL BOARD
	HOME RUN CIRCUIT WIRING TO POWER PANEL
	LINE VOLTAGE WIRING
	UNDERGROUND WIRING IN CONDUIT
NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS.	

ELECTRICAL GENERAL NOTES

- UPON COMPLETION OF THE JOB, IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO TURN OVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE FORM. THESE DRAWINGS DO NOT HAVE TO BE MADE FROM SCRATCH; THE CONTRACT REFLECTED CEILING AND POWER PLANS MAY BE USED AS BACKGROUNDS WITH THE ACTUAL CIRCUIT CHANGES ADDED.
- ALL ELECTRICAL WORK MUST BE PERFORMED IN ACCORDANCE WITH AND SHALL CONFORM IN ALL ASPECTS TO THE NATIONAL ELECTRICAL CODE (NFPA CODES & LOCAL BUILDING CODES).
- ALL PERMITS, LICENSES AND CERTIFICATES COVERING THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK MUST BE OBTAINED AND PAID FOR BY THE CONTRACTOR. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ELECTRICAL PERMITS AS REQUIRED FOR ALL ELECTRICAL WORK DESCRIBED IN THE CONSTRUCTION DRAWINGS AND DOCUMENTS.
- ALL CORE-BORING, CAPPING OF EXISTING CORES OR BACKFILLING AND RESURFACING OF EXISTING CORES, REQUIRED FOR THE ELECTRICAL WORK, MUST BE PROVIDED BY ELECTRICAL CONTRACTOR.
- ALL CUTTING PATCHING AND REFINISHING OF WALLS, FLOORS AND CEILINGS, REQUIRED FOR THE ELECTRICAL WORK, MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ALL CONDUIT, ETC. MUST BE FIELD DETERMINED AND RUN TO AVOID OBSTRUCTIONS AND EQUIPMENT BY OTHER TRADES.
- WORK NOT INCLUDED IN CONTRACT ("N.I.C."); ANY WIRING OR EQUIPMENT NOT TO BE FURNISHED BY CONTRACTOR MUST BE INDICATED ON PLANS AS N.I.C.
- SITE VISITATION - PRIOR TO SUBMITTING A BID FOR HIS WORK, THE CONTRACTOR SHALL VISIT THE SITE TO INSPECT THE NATURE AND EXTENT OF THE EXISTING CONDITIONS AND EQUIPMENT, AND DETERMINE HOW THEY WILL AFFECT THE INSTALLATION OF ELECTRICAL WORK. NO ADDITIONAL PAYMENT IN EXCESS OF THE CONTRACT PRICE WILL BE AUTHORIZED FOR "EXTRA" WORK PERFORMED DUE TO EXISTING CONDITIONS WHICH ARE OBVIOUS UPON INSPECTION.
- ALL UNUSED CONDUIT AND WIRING MUST BE DROPPED TO THE FLOOR BY THE ELECTRICIAN FOR REMOVAL FROM THE BUILDING BY THE CONTRACTOR.
- ALL EQUIPMENT AND DEVICES MUST BE NEW & BEAR U.L. LABEL. ALL DEVICES MUST BE "SPECIFICATION" GRADE.
- WORKMANSHIP: ONLY THE BEST IN WORKMANSHIP IN ACCORDANCE WITH PRESENT STANDARDS WILL BE ACCEPTABLE. ANY WORK INSTALLED AND ADJUDGED BY THE ENGINEER TO BE BELOW STANDARDS WILL BE TAKEN OUT AND REPLACED WITH PROPERLY DONE WORK AT CONTRACTOR'S EXPENSE.
- GUARANTEE: CONTRACTOR MUST GUARANTEE ALL EQUIPMENT AND WIRING TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION OF PROJECT. ALL DEFECTS MUST BE REPAIRED, DURING THIS PERIOD, AT NO CHARGE TO OWNER (MISUSE OR ABUSE CAUSED PROBLEMS EXCEPTED).
- ALL PROJECT SUBMITTALS TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SUBSTITUTIONS OF EQUIPMENT: SPECIFIED PRODUCTS MUST BE USED AS THE BASIS OF BID AND SHALL BE PROVIDED; WHERE 2 OR MORE MANUFACTURERS ARE LISTED, THE CHOICE IS AT THE CONTRACTOR'S OPTION. AN APPROVED EQUAL SHALL BE DETERMINED BY ENGINEER.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES MUST BE FIRE STOPPED USING FIRE RETARDANT SEALANTS APPROVED BY THE ENGINEER. CONTRACTOR MUST SEAL ALL ELECTRICAL PENETRATIONS THRU FIRE RATED PARTITIONS WITH FIRE RATED MATERIAL EQUAL TO DOW CORNING FIRESTOP 3-6548 SILICONE RTV FOAM AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
- ALL SUPPLEMENTARY STEEL REQUIRED FOR ELECTRICAL WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- PROVIDE INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS AND CABLE ASSEMBLIES AS NECESSARY TO COMPLY WITH NEC.
- ALL EMPTY CONDUITS FOR FUTURE WORK MUST BE PROVIDED WITH A PULL STRING/ROPE.
- ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO N.E.C. ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
- ALL PANEL DIRECTORIES, ASSOCIATED WITH THIS PROJECT, MUST BE "TYPED" AND COMPLETELY FILLED IN AT COMPLETION OF JOB IN ACCORDANCE WITH NEC 408.4. NO HAND-WRITTEN DIRECTORIES WILL BE ALLOWED.
- CONTRACTOR MUST PRODUCE A LETTER ATTESTING THAT WORK HAS BEEN COMPLETED TO THE SATISFACTION OF THE OWNER WHO WILL CONFIRM HIS ACCEPTANCE BY AFFIXING HIS SIGNATURE TO THE LETTER IN A SPACE PROVIDED FOR THIS PURPOSE. WORK WILL NOT BE CONSIDERED AS BEING COMPLETE WITHOUT THIS LETTER.
- PRIOR TO THE CONTRACTOR BEING RELEASED FROM ALL OBLIGATIONS, CONTRACTOR WILL OBTAIN AND TURN OVER TO THE OWNER THE ORIGINAL COPY OF THE "CERTIFICATE OF ELECTRICAL INSPECTION".
- CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING IN ALL AREAS OF CONSTRUCTION DURING THE ENTIRE DURATION OF CONSTRUCTION AS REQUIRED. CONTRACTOR MUST NOT PLUG INTO EXISTING LOCAL GENERAL CONVENIENCE OUTLETS FOR CONSTRUCTION REQUIREMENTS. THE CONTRACTOR MUST REMOVE ALL TEMPORARY POWER AND LIGHTING UPON COMPLETION OF THE PROJECT.
- CONTRACTOR MUST COORDINATE ALL PLANNED POWER SHUTDOWN REQUIREMENTS APPROXIMATELY 10 DAYS IN ADVANCE WITH OWNER. CONTRACTOR MUST NOT PROCEED WITH POWER SHUTDOWN WITHOUT WRITTEN AUTHORIZATION FROM OWNER.



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MILLBURY DOWNTOWN PHASE 2
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REVISIONS
No. Date Desc.

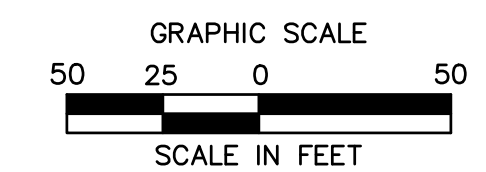
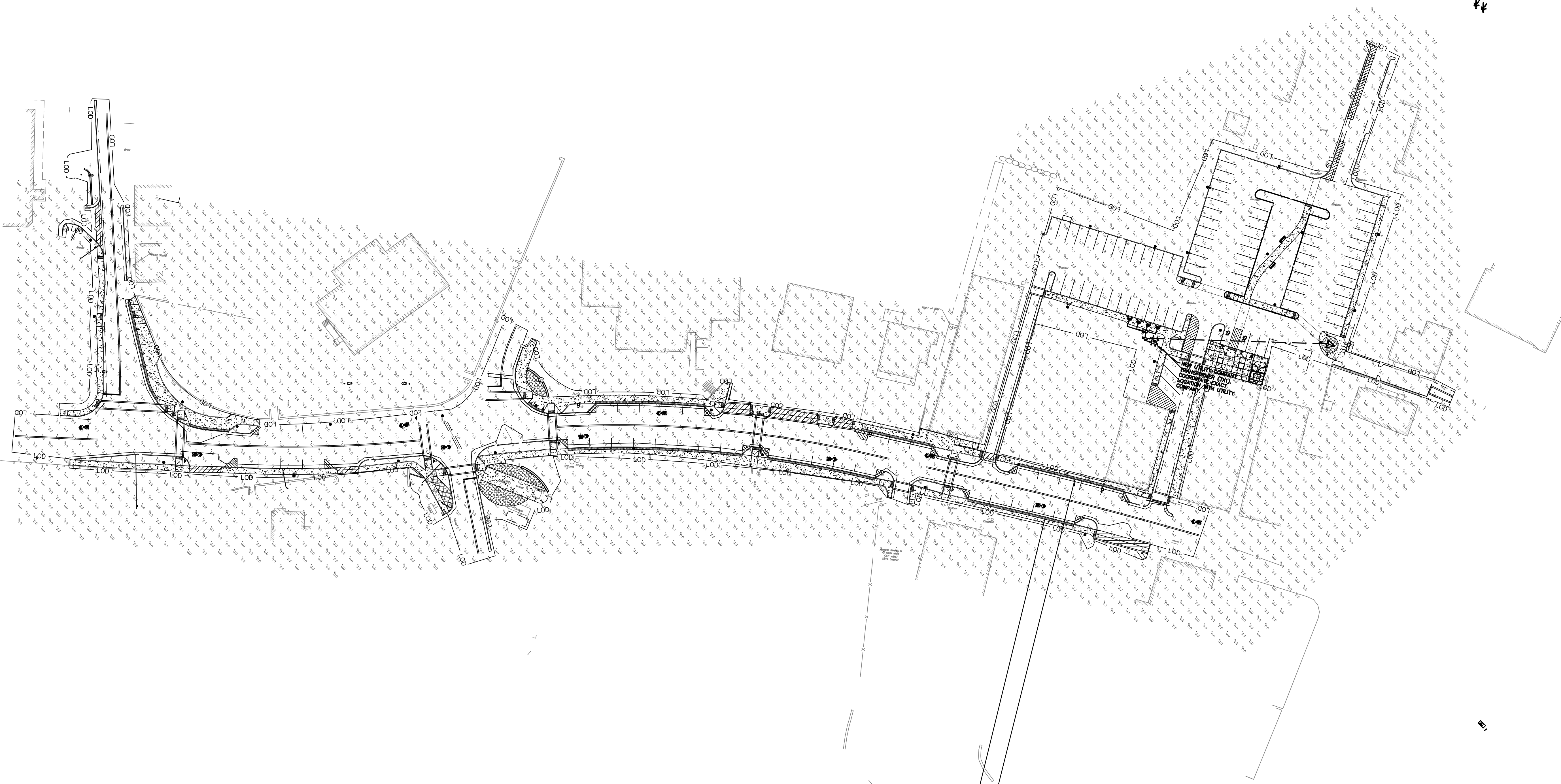
Designed D.J.H.
Drawn D.J.H.
Reviewed XXX
Scale
Project No. 2001478
Date FEBRUARY, 2022
CAD File: E1.02

Title
OVERALL SITE LIGHTING PLAN

Sheet No.

ES0.01

- ELECTRICAL GENERAL NOTES:**
1. REFER TO ESO.01 FOR ELECTRICAL SYMBOLS AND ELECTRICAL SPECIFICATIONS.
 2. REFER TO DRAWING ES4.01 FOR LIGHTING FIXTURE SCHEDULE, PANEL SCHEDULE AND ONE-LINE DIAGRAM.
 3. CONDUIT ROUTING SHOWN IS DIAGRAMMATICALLY. REFER TO CIVIL DRAWINGS FOR EXACT ROUTINGS.
 4. REFER TO CIVIL DRAWINGS FOR CONCRETE BASE DETAILS AND ADDITIONAL INFORMATION.



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	Desc.
No.	Date

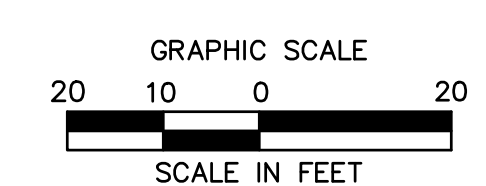
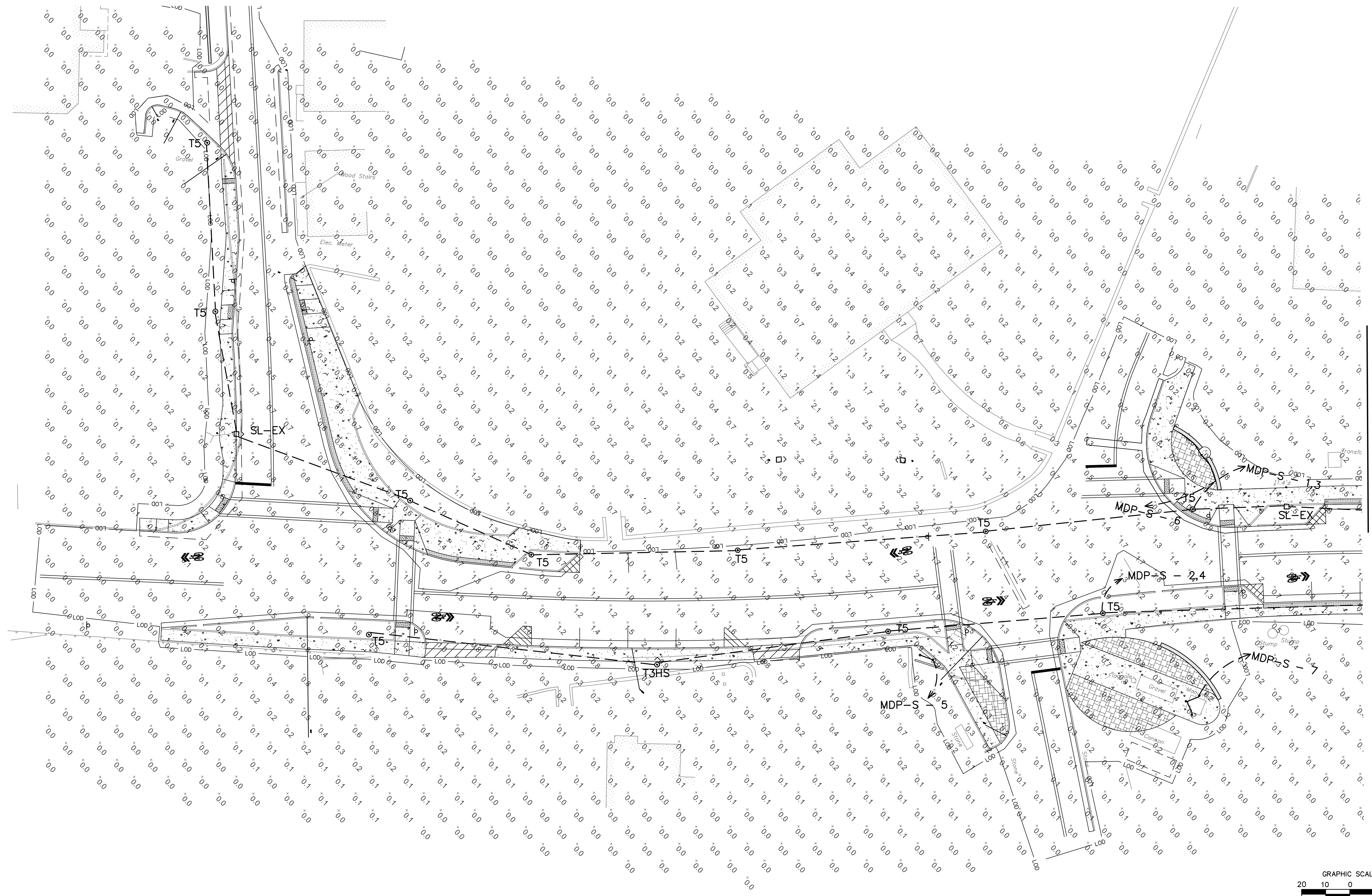
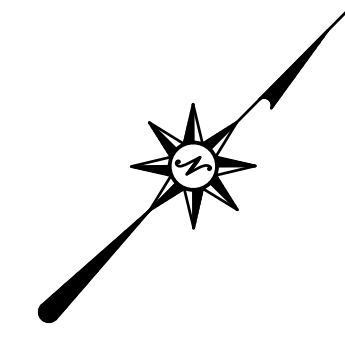
Designed D.J.H.
Drawn D.J.H.
Reviewed XXX
Scale 1" = 50'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: E1.02

**OVERALL
SITE LIGHTING
PLAN**

Sheet No.

ES1.01

- ELECTRICAL GENERAL NOTES:**
1. REFER TO ESO.01 FOR ELECTRICAL SYMBOLS AND ELECTRICAL SPECIFICATIONS.
 2. REFER TO DRAWING ES4.01 FOR LIGHTING FIXTURE SCHEDULE, PANEL SCHEDULE AND ONE-LINE DIAGRAM.
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 4. REFER TO CIVIL DRAWINGS FOR CONCRETE BASE DETAILS AND ADDITIONAL INFORMATION.



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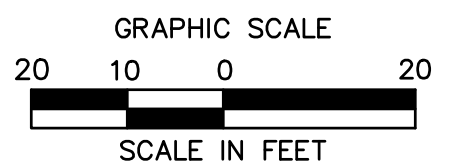
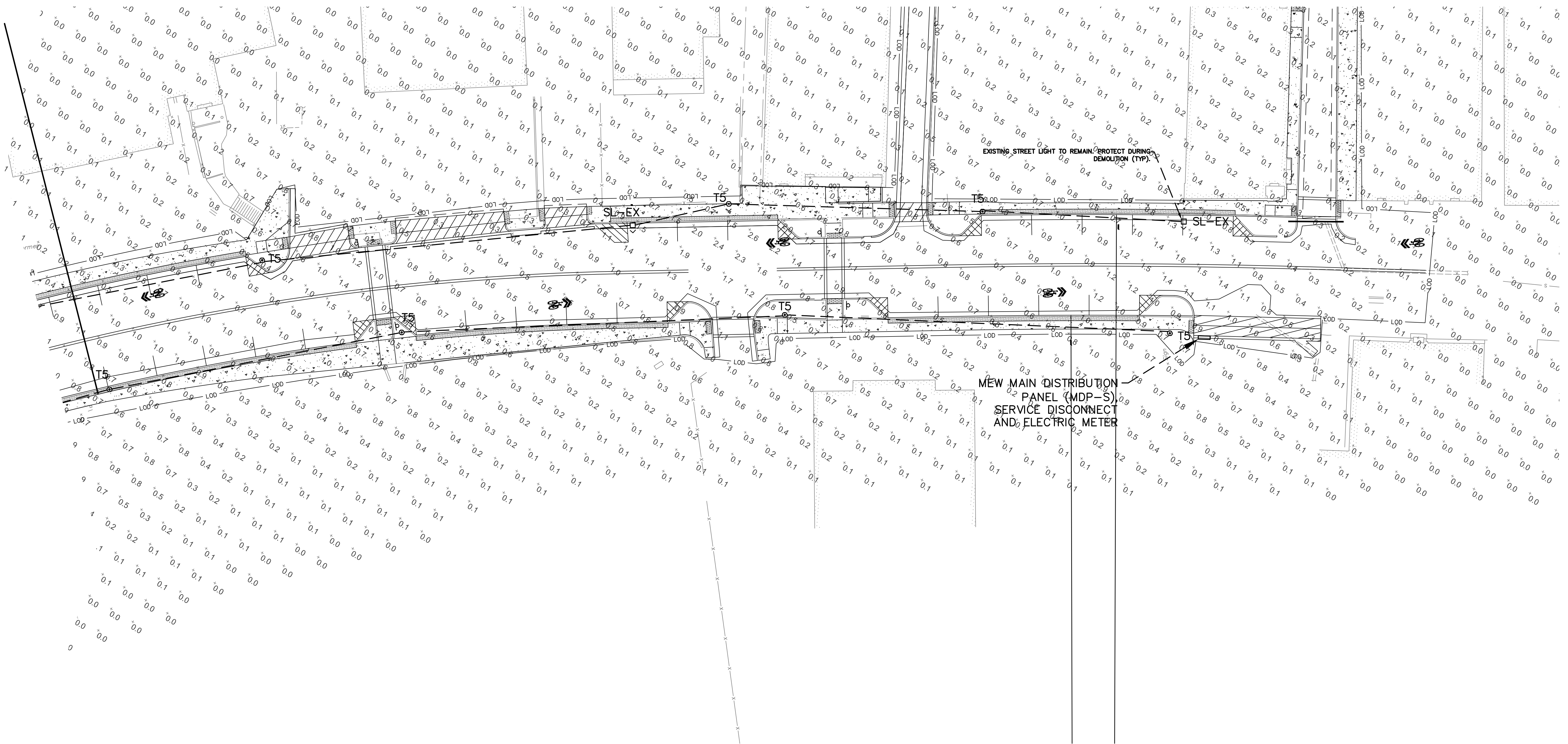
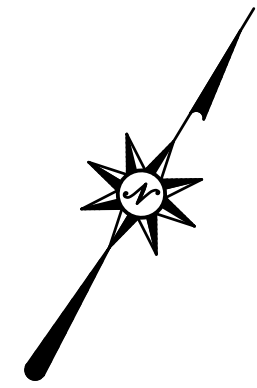
REVISONS	No.	Date	Desc.
Designed			D.J.H.
Drawn			D.J.H.
Reviewed			XXX
Scale			1" = 20'
Project No.			2001478
Date			FEBRUARY, 2022
CAD File:			E1.02
Title			

**ELECTRICAL
POWER PLAN -
PART A**

Sheet No.

ES1.01A

- ELECTRICAL GENERAL NOTES:**
1. REFER TO ESO.01 FOR ELECTRICAL SYMBOLS AND ELECTRICAL SPECIFICATIONS.
 2. REFER TO DRAWING ES4.01 FOR LIGHTING FIXTURE SCHEDULE, PANEL SCHEDULE AND ONE-LINE DIAGRAM.
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REVISIONS	No.	Date	Desc.

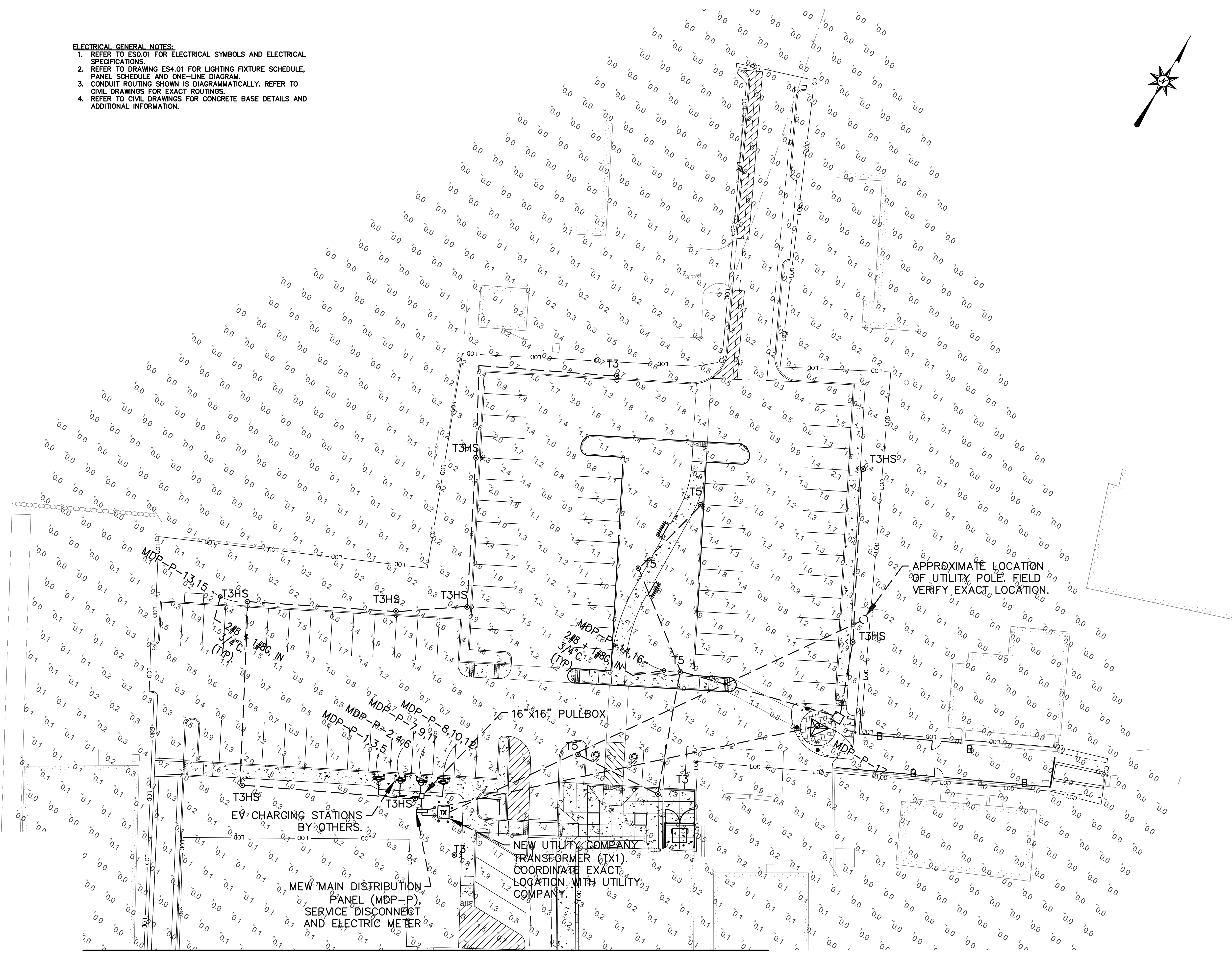
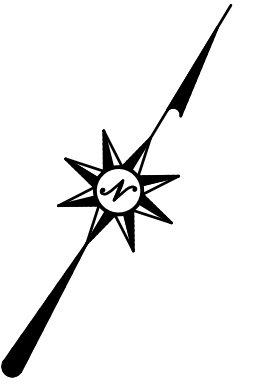
Designed D.J.H.
Drawn D.J.H.
Reviewed XXX
Scale 1" = 20'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: E1.02
Title

ELECTRICAL POWER PLAN - PART B

Sheet No.

ES1.01B

- ELECTRICAL GENERAL NOTES:**
1. REFER TO ES0.01 FOR ELECTRICAL SYMBOLS AND ELECTRICAL SPECIFICATIONS.
 2. REFER TO DRAWING ES4.01 FOR LIGHTING FIXTURE SCHEDULE, PANEL SCHEDULE AND ONE-LINE DIAGRAM.
 3. CONDUIT ROUTING SHOWN IS DIAGRAMMATICALLY. REFER TO CIVIL DRAWINGS FOR EXACT ROUTINGS.
 4. REFER TO CIVIL DRAWINGS FOR CONCRETE BASE DETAILS AND ADDITIONAL INFORMATION.



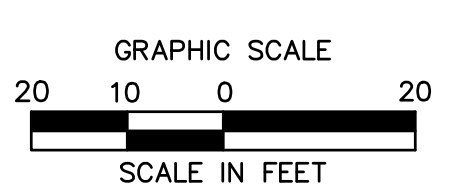
APPROXIMATE LOCATION OF UTILITY POLE FIELD. VERIFY EXACT LOCATION.

EV CHARGING STATIONS BY OTHERS.

MEW MAIN DISTRIBUTION PANEL (MDP-P), SERVICE DISCONNECT AND ELECTRIC METER

NEW UTILITY COMPANY TRANSFORMER (TX1). COORDINATE EXACT LOCATION WITH UTILITY COMPANY.

16"X16" PULLBOX



REVISIONS	Desc.
No.	Date

Designed	D.J.H.
Drawn	D.J.H.
Reviewed	xxx
Scale	1" = 20'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	E1.02
Title	

ELECTRICAL POWER PLAN - PART C

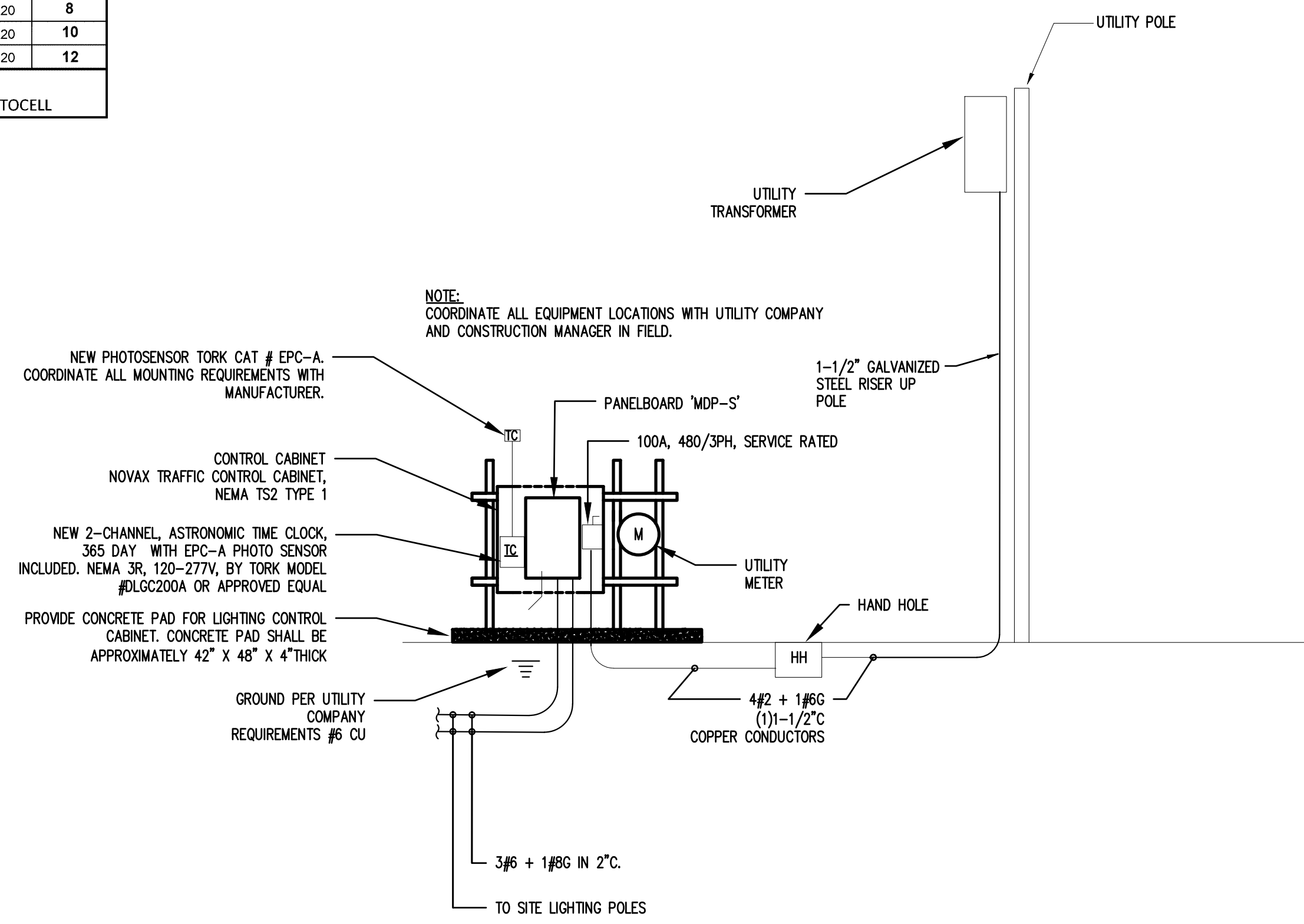
Sheet No.

ES1.01C

Panel: MDP-P		Location: 65										
Amps/Mains: 600A/ 600A MCB		kAIC: Surface										
Volts / Phase: 480/277V, 3ø, 4W		Mounting: Surface										
Options:												
Pos.	AMP	POLES	LOAD DESCRIPTION	KVA	Phase A	Phase B	Phase C	KVA	LOAD DESCRIPTION	POLES	AMP	Pos.
1					33.32							2
3	100	3	EV CHARGER	50.00		33.32		50.00	EV CHARGER	3	100	4
5							33.32					8
7					33.32							8
9	100	3	FUTURE EV CHARGER	50.00		33.32		50.00	FUTURE EV CHARGER	3	100	10
11							33.32					12
13					0.85			0.90	PARKING LOT LIGHTING	1	20	14
15	20	2	PARKING LOT LIGHTING	0.80		0.85						16
17	20	1	KIOSK POWER	1.00			1.00	0.00	SPACE	1	20	18
19	20	1	SPACE	0.00	0.00			0.00	SPACE	1	20	20
21	20	1	SPACE	0.00		0.00		0.00	SPACE	1	20	22
23	20	1	SPACE	0.00			0.00	0.00	SPACE	1	20	24
25	20	1	SPACE	0.00	0.00			0.00	SPACE	1	20	26
27	20	1	SPACE	0.00		0.00		0.00	SPACE	1	20	28
29	20	1	SPACE	0.00			0.00	0.00	SPACE	1	20	30
31	20	1	SPACE	0.00	0.00			0.00	SPACE	1	20	32
33	20	1	SPACE	0.00		0.00		0.00	SPACE	1	20	34
35	20	1	SPACE	0.00			0.00	0.00	SPACE	1	20	36
37	20	1	SPACE	0.00	0.00			0.00	SPACE	1	20	38
39	20	1	SPACE	0.00		0.00		0.00	SPACE	1	20	40
41	20	1	SPACE	0.00			0.00	0.00	SPACE	1	20	42
Section 1 Total KVA					67.49	67.49	67.64		NOTES: PROVIDE TC FOR LIGHTING VIA PHOTOCELL			

Panel: MDP-S		Location: 65										
Amps/Mains: 100A/ 50A MCB		kAIC: Surface										
Volts / Phase: 480/277V, 3ø, 4W		Mounting: Surface										
Options:												
Pos.	AMP	POLES	LOAD DESCRIPTION	KVA	Phase A	Phase B	Phase C	KVA	LOAD DESCRIPTION	POLES	AMP	Pos.
1					0.93							2
3	20	2	STREET LIGHTING	0.80		0.93		1.07	STREET LIGHTING	1	20	4
5	20	1	SIGN FLOOD LIGHT	0.00			0.10	0.00	WALL WASHER LIGHTS	1	20	6
7	20	1	FLAG POLE LIGHTS	0.00	0.07			0.00	SPACE	1	20	8
9	20	1	SPACE	0.00		0.00		0.00	SPACE	1	20	10
11	20	1	SPACE	0.00			0.00	0.00	SPACE	1	20	12
Section 1 Total KVA					2.78	1.78	1.03		NOTES: PROVIDE TC FOR LIGHTING VIA PHOTOCELL			

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage	Distribution
⊙	T5	18	Holophane	GVD3 P30 30K XXXX GL5 RB	GranVile Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 5 distribution with Ribs and Bands	1	GVD3_P30_30K_XXXX_GL5_RB.ies	7616	0.9	61	TYPE VS, BUG RATING: B3 - U4 - G3
⊙	T3	3	Holophane	GVD3 P30 30K XXXX GL3 RB	GranVile Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 3 distribution with Ribs and Bands	1	GVD3_P30_30K_XXXX_GL3_RB.ies	7517	0.9	61	TYPE IV, MEDIUM, BUG RATING: B2 - U4 - G5
⊙	T3HS	10	Holophane	GVD3 P30 30K XXXX GL3 RB GVDHSS18	GranVile Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 3 distribution with Ribs and Bands and with 180deg House Side Shield	1	GVD3_P30_30K_XXXX_GL3_RB_GVDHSS18.ies	5430	0.9	61	TYPE IV, MEDIUM, BUG RATING: B1 - U4 - G5
⊙	SL-EX	4	American Electric Lighting	ATB2 40BLEDE10 XXXXX R4 3K	ATB2 SERIES LED 1000MA TYPE 4 3000K CCT	1	ATB2_40BLEDE10_XXXXX_R4_3K.ies	15626	0.3	133	TYPE IV, SHORT, BUG RATING: B3 - U0 - G3
⊙	SL-NEW	2	American Electric Lighting	ATB2 40BLEDE10 XXXXX R4 3K	ATB2 SERIES LED 1000MA TYPE 4 3000K CCT	1	ATB2_40BLEDE10_XXXXX_R4_3K.ies	15626	0.7	133	TYPE IV, SHORT, BUG RATING: B3 - U0 - G3



2 STREET LIGHTS RISER DIAGRAM
N.T.S.

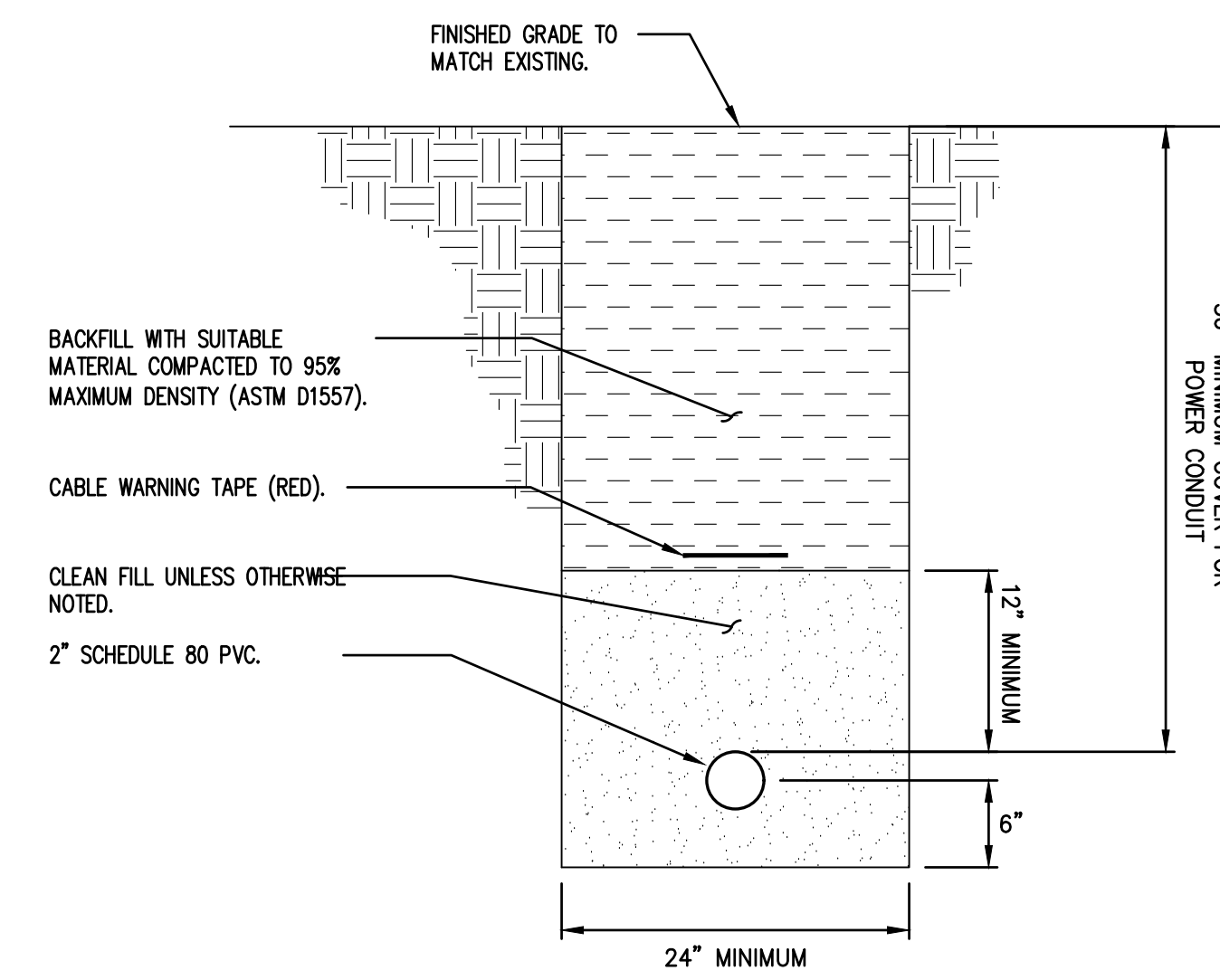
WARNING: UNDERGROUND UTILITIES

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL POWER, TELEPHONE, CABLE TELEVISION, GAS, WATER, AND SEWER COMPANIES AND ANY OTHER UTILITY COMPANIES WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES, OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. CONTRACTOR CAN OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING: 1-800-922-4455 A MINIMUM OF (2) TWO FULL WORKING DAYS BEFORE ANY EXCAVATION.

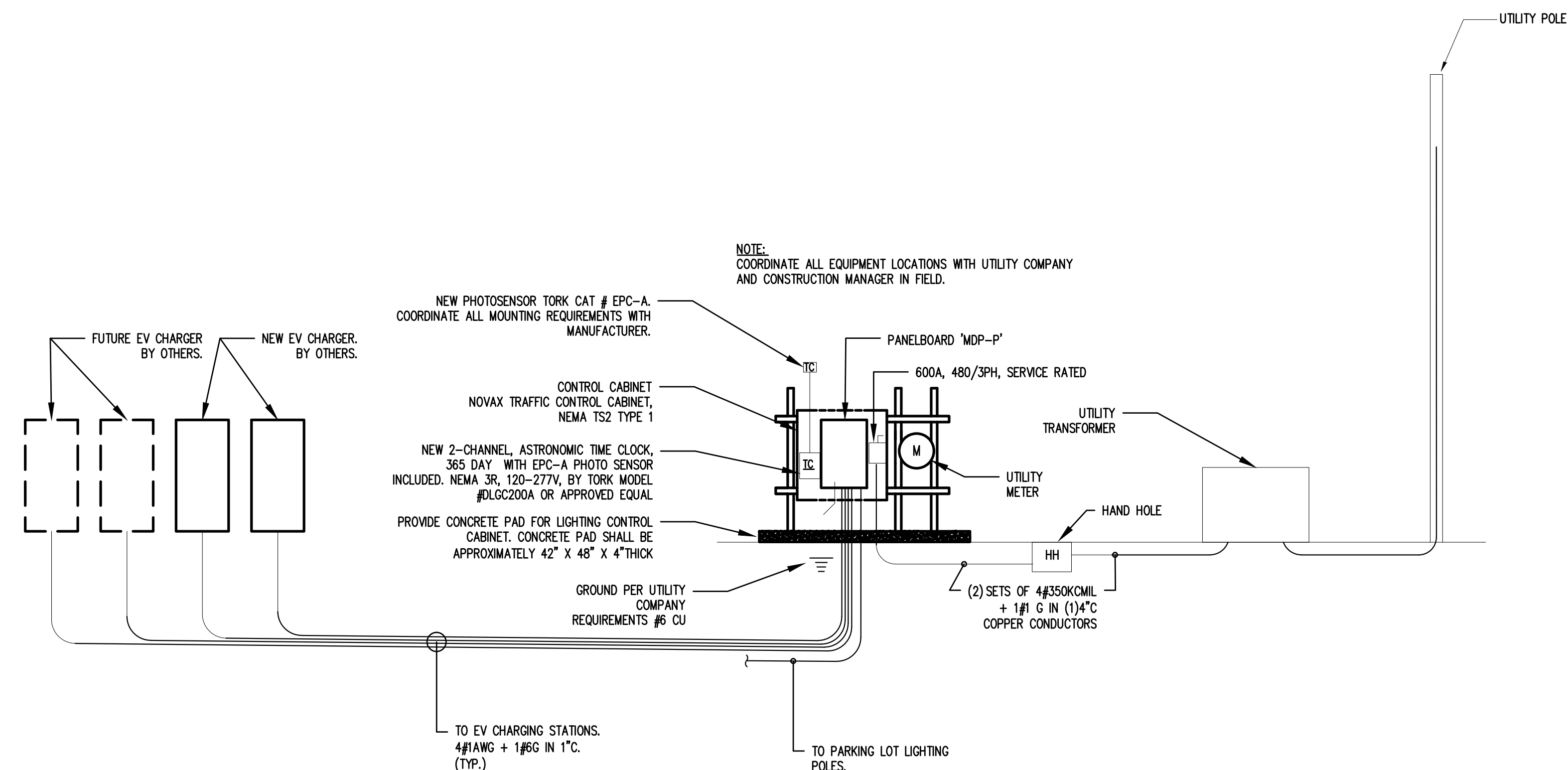
CALL TWO FULL WORKING DAYS IN ADVANCE

CALL BEFORE YOU DIG
1-800-922-4455
TOLL FREE STATEWIDE

- TYPICAL TRENCH DETAIL NOTES:**
- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MASH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, ONDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS LARGER THAN 2" IN MAXIMUM DIMENSION.
 - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.
 - COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES TO MAINTAIN REQUIRED SEPARATION WITH GAS, WATER, ETC. SERVICES.
 - CABLE WARNING TAPE SHALL BE 6" DETECTABLE TYPE AND INSTALLED ENTIRE LENGTH OF EACH TRENCH.

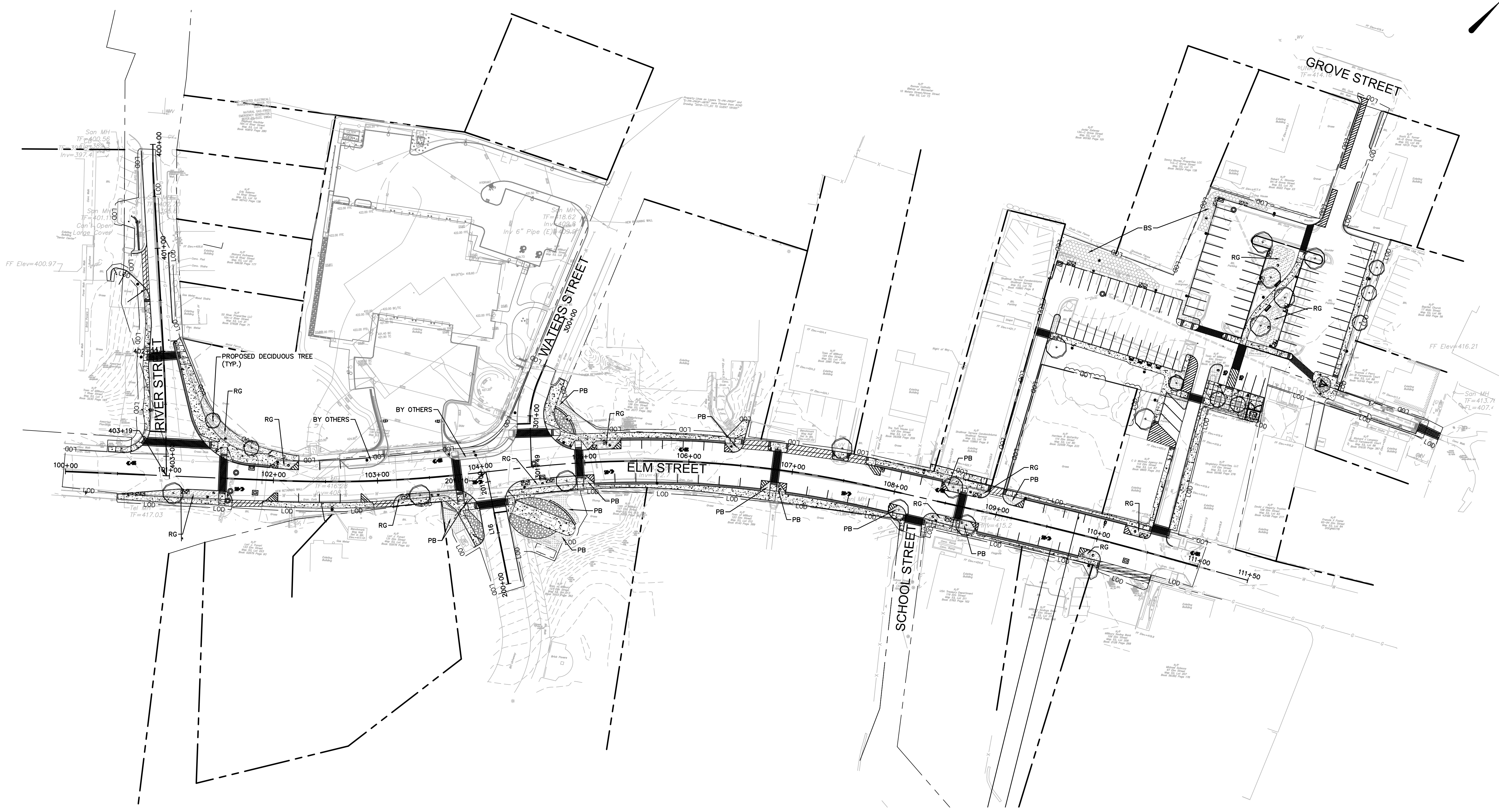
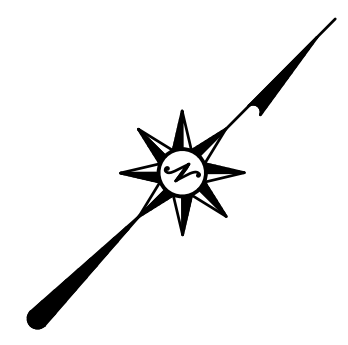


1 TYPICAL TRENCH DETAIL - SECTION (A-A)
N.T.S.




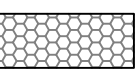


3 PARKING LOT RISER DIAGRAM
N.T.S.

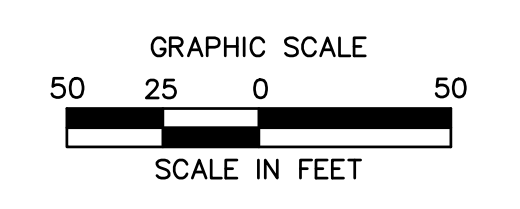
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA



LEGEND:

-  DECIDUOUS TREE- 2.5"-3" CALIPER
-  RAIN GARDEN- SHRUBS, PERENNIALS
-  PLANTING BED- SHRUBS, PERENNIALS, ORNAMENTAL GRASSES
-  BIOSWALE- SEED MIX

ABBREVIATIONS:
BS: BIOSWALE
PB: PLANTING BED
RG: RAIN GARDEN



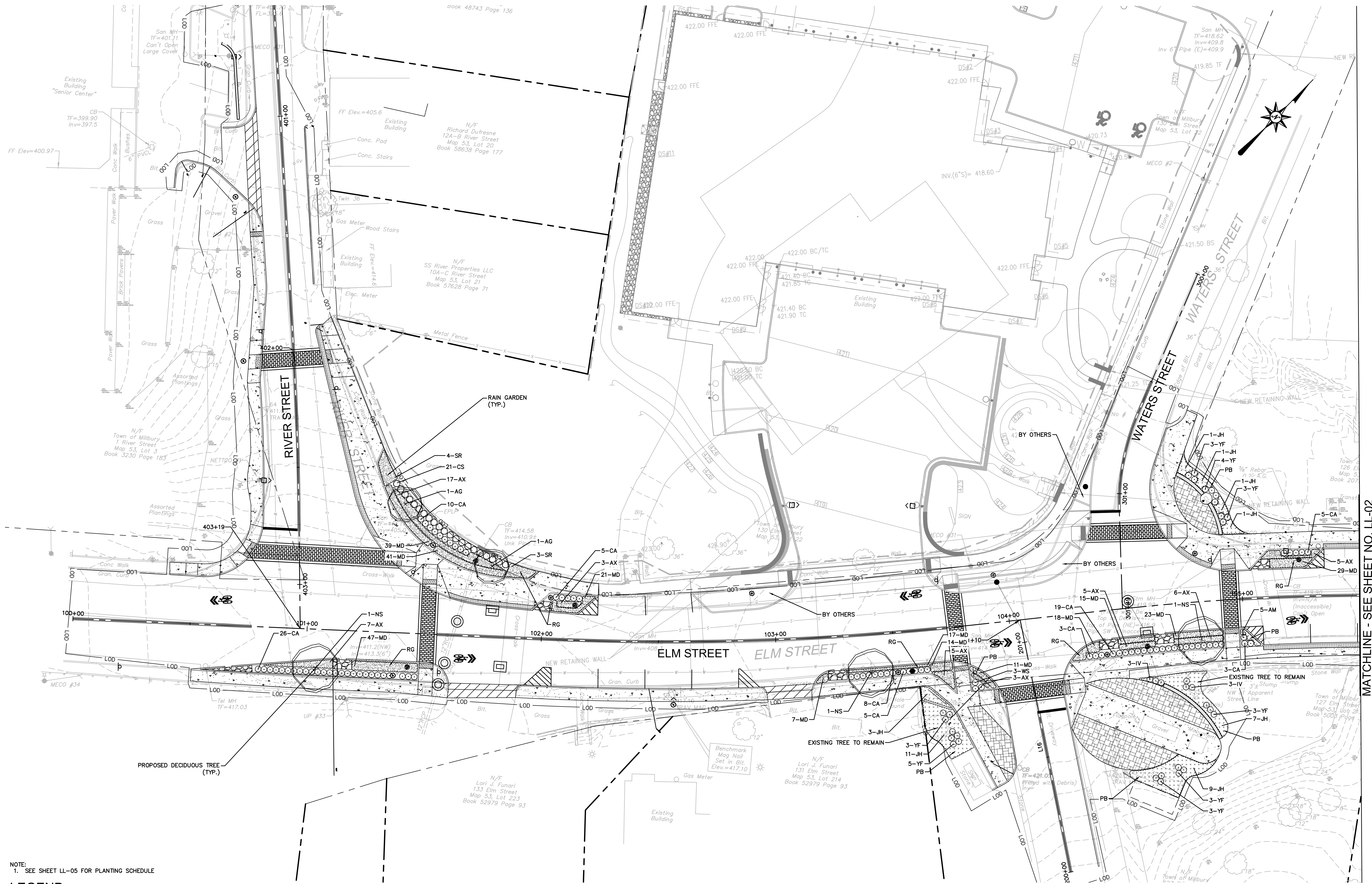
REVISIONS	Desc.
No.	Date

Designed M.M.
Drawn K.A.
Reviewed XXX
Scale 1" = 50'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: LL200147802

Title
OVERALL LANDSCAPE PLAN

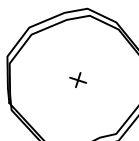
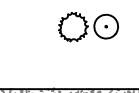
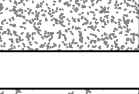

Sheet No.

LL-00

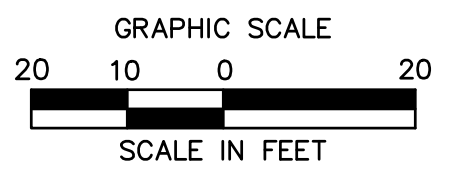


NOTE:
1. SEE SHEET LL-05 FOR PLANTING SCHEDULE

LEGEND:

-  DECIDUOUS TREE - 2.5" - 3" CALIPER
-  DECIDUOUS/EVERGREEN SHRUBS
-  RAIN GARDEN - PERENNIALS
-  PLANTING BED - GROUNDCOVER, ORNAMENTAL GRASSES

ABBREVIATIONS:
PB: PLANTING BED
RG: RAIN GARDEN



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

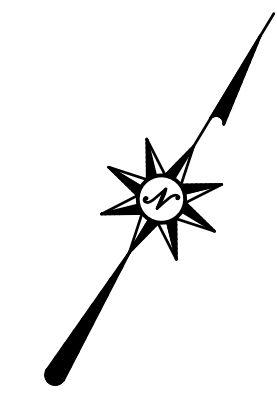
REVISIONS	Date	Desc.

Designed: M.M.
Drawn: K.A.
Reviewed: M.M.
Scale: 1" = 20'
Project No.: 2001478
Date: FEBRUARY, 2022
CAD File: LL200147802
Title: LANDSCAPE PLAN
Sheet No.:

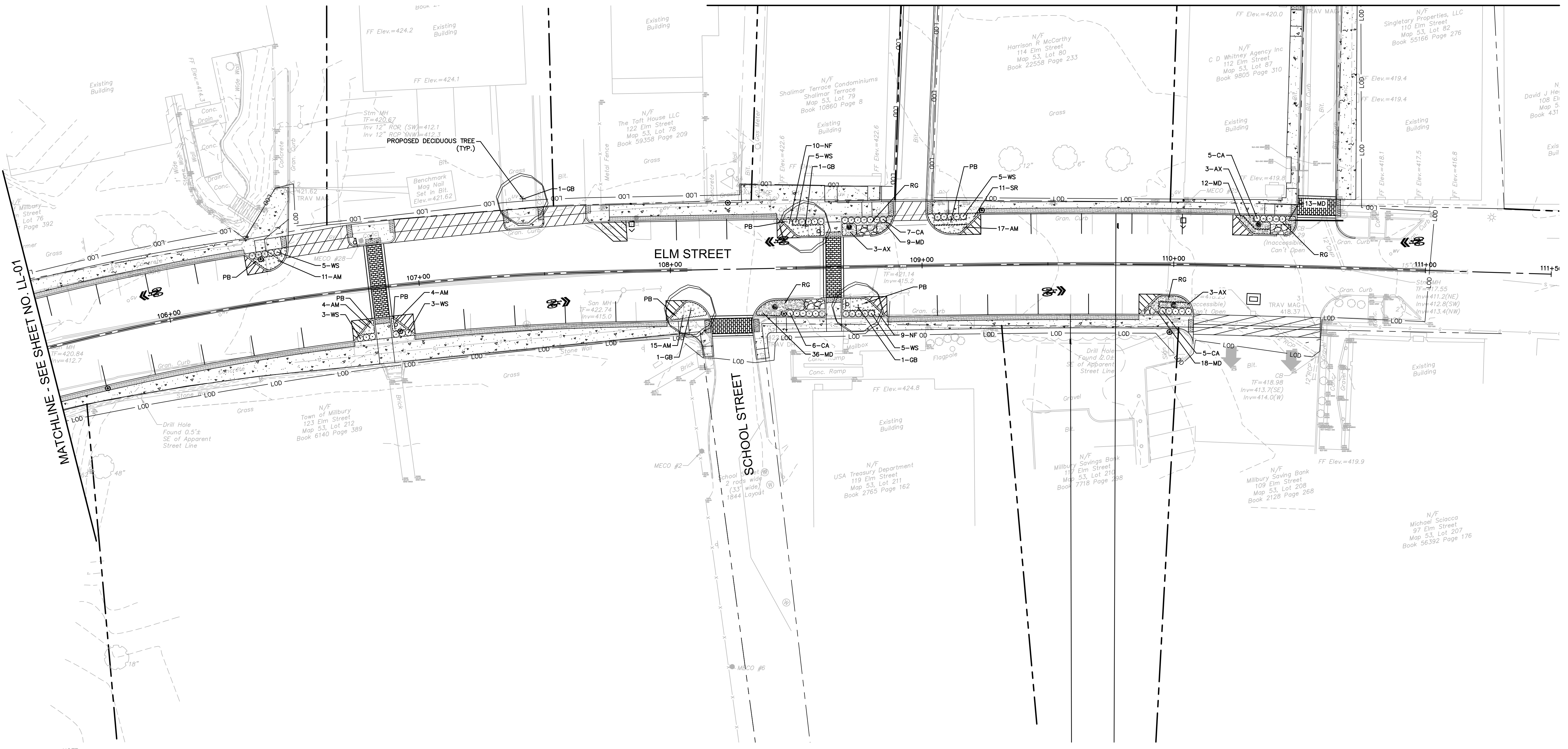
MATCHLINE - SEE SHEET NO. LL-02

2/27/2022 14:12:52 \\s\p\c\p\l\l\200147802\DWG\LL01.dwg

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MATCHLINE - SEE SHEET NO. LL-03

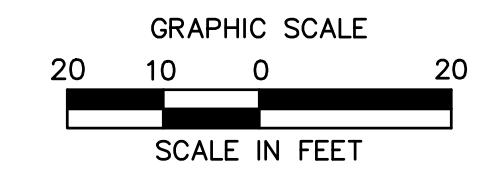


NOTE:
1. SEE SHEET LL-05 FOR PLANTING SCHEDULE

LEGEND:

-  DECIDUOUS TREE - 2.5" - 3" CALIPER
-  DECIDUOUS/EVERGREEN SHRUBS
-  RAIN GARDEN - PERENNIALS/ORNAMENTAL GRASSES
-  PLANTING BED - PERENNIALS/GROUNDCOVER

ABBREVIATIONS:
PB: PLANTING BED
RG: RAIN GARDEN



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date FEBRUARY, 2022
CAD File: LL200147802

LANDSCAPE PLAN

Sheet No.

LL-02

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS

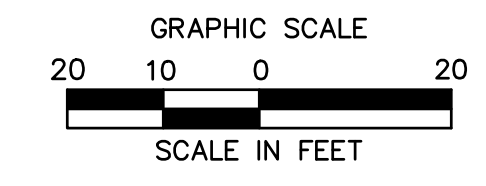
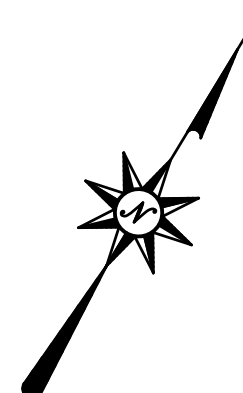
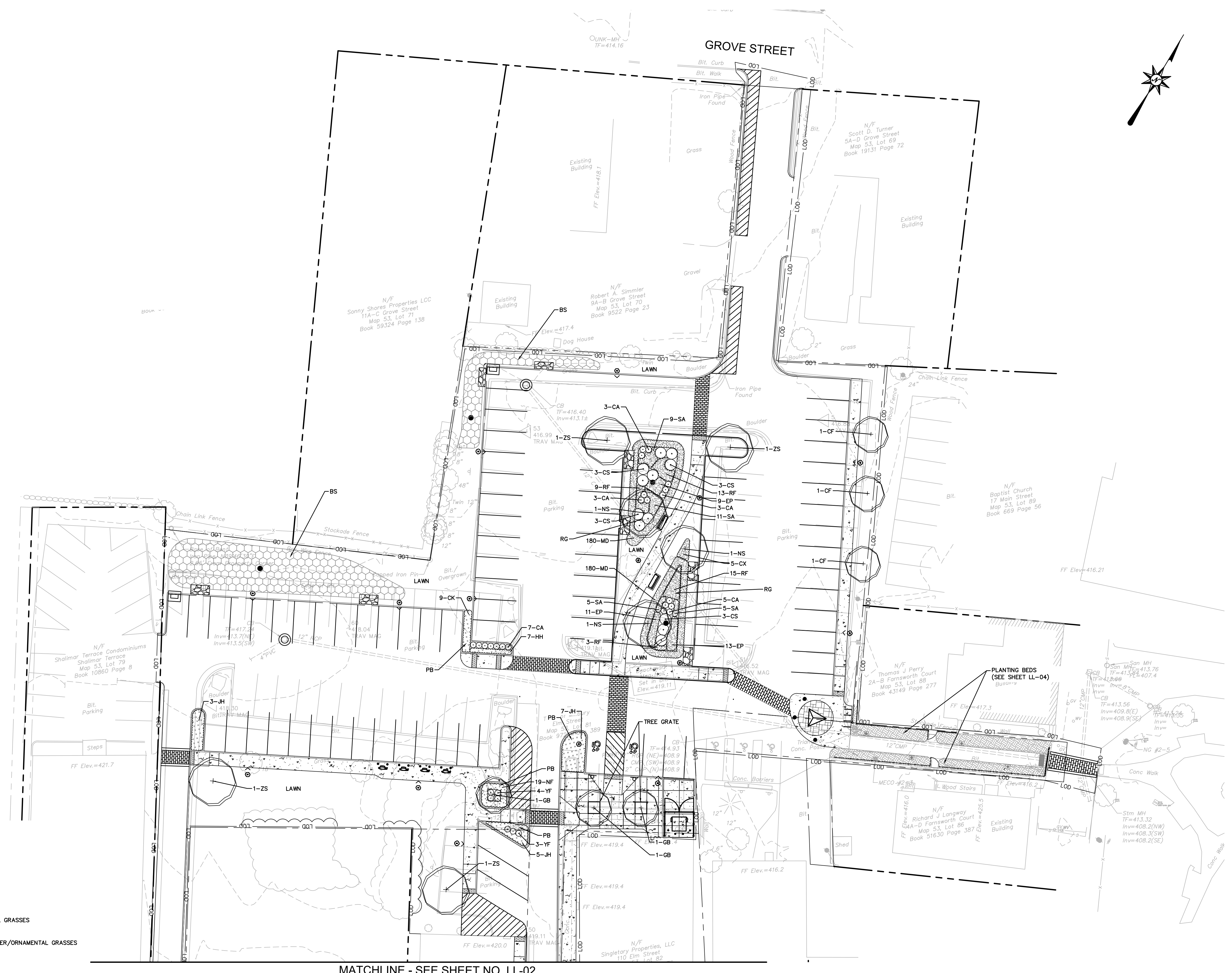
No.	Date	Desc.

Designed	M.M.
Drawn	K.A.
Reviewed	M.M.
Scale	1" = 20'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	LL200147802

LANDSCAPE PLAN

Sheet No.

LL-03



NOTE:
1. SEE SHEET LL-05 FOR PLANTING SCHEDULE

LEGEND:

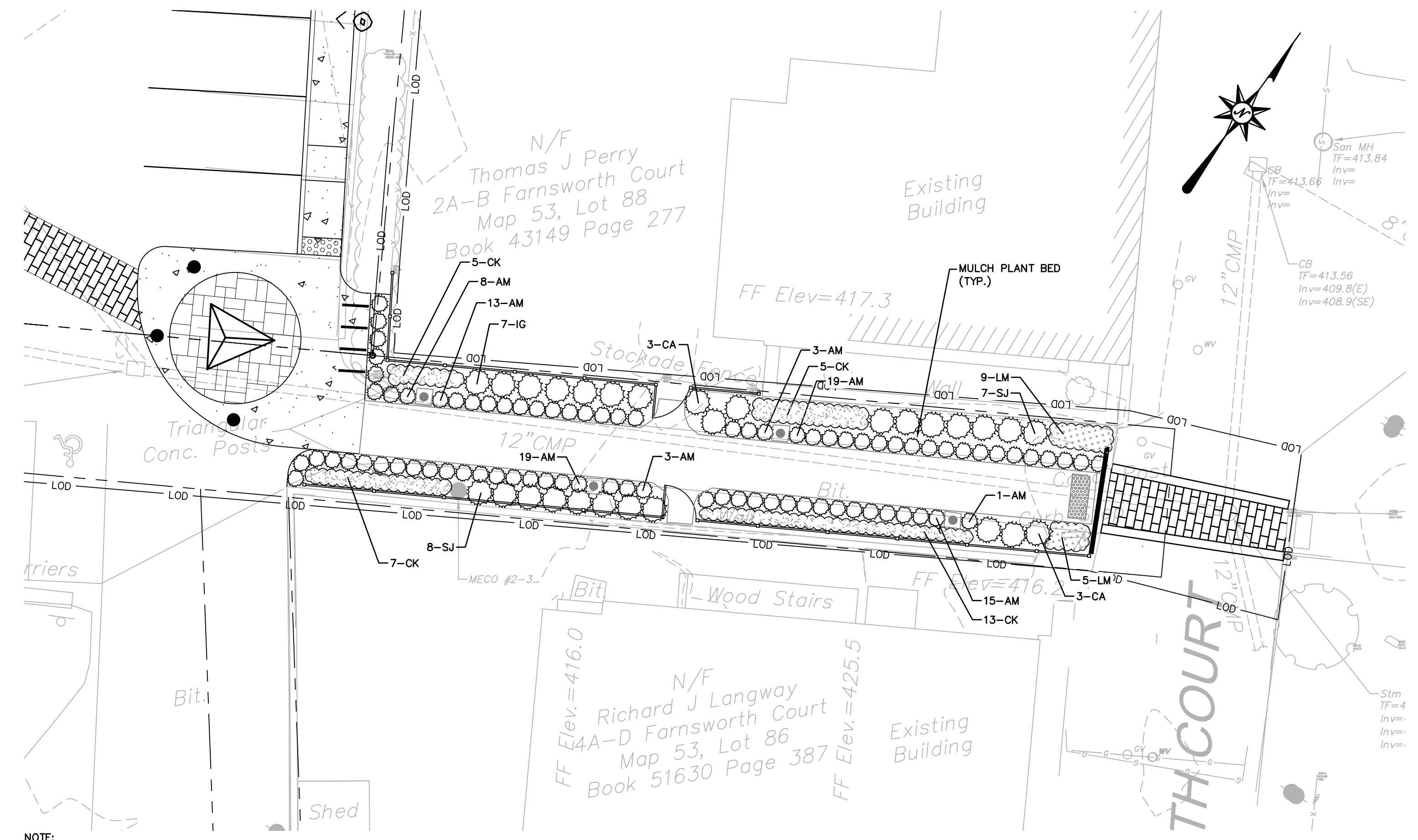
- DECIDUOUS TREE-- 2.5"-3" CALIPER
- DECIDUOUS/EVERGREEN SHRUBS
- RAIN GARDEN-- PERENNIALS/ORNAMENTAL GRASSES
- PLANTING BED-- PERENNIALS/GROUND COVER/ORNAMENTAL GRASSES
- BIOSWALE-- SEED MIX

ABBREVIATIONS:
BS: BIOSWALE
PB: PLANTING BED
RG: RAIN GARDEN

MATCHLINE - SEE SHEET NO. LL-02

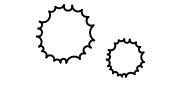
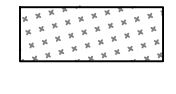
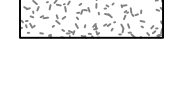
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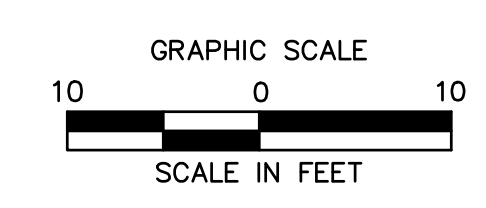
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA



NOTE:
1. SEE SHEET LL-05 FOR PLANTING SCHEDULE

LEGEND:

-  PROPOSED SHRUBS
-  PROPOSED PERENNIALS
-  PROPOSED ORNAMENTAL GRASSES



REVISIONS	Desc.
No.	Date

Designed	M.M.
Drawn	K.A.
Reviewed	N.R.G.
Scale	1" = 10'
Project No.	2001478
Date	FEBRUARY, 2022
CAD File:	LL200147802
Title	FARNSWORTH COURT LANDSCAPE PLAN
Sheet No.	

LL-04

LANDSCAPE NOTES

1. THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE SITE PLAN, GRADING AND DRAINAGE PLAN, SITE UTILITIES PLAN, LIGHTING PLAN AND DEMOLITION PLAN FOR ALL OTHER INFORMATION.
2. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
3. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS FOR THE REVIEW, ADJUSTMENT, AND APPROVAL BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
4. THE CONTRACTOR SHALL GUARANTEE THAT ALL PLANTS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF ONE YEAR OR JUNE 1ST OF THE YEAR FOLLOWING INSTALLATION, WHICHEVER IS LONGER, AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. PLANT MATERIAL REPLACEMENTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF REPLACEMENT. REPLACEMENT PLANTS SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL THE END OF THE GUARANTEE PERIOD. DURING THE LANDSCAPE MAINTENANCE PERIOD (GUARANTEE) THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY SITE CONSTRAINTS (PHYSICAL, ENVIRONMENT, ETC.) OR MAINTENANCE DEFICIENCIES THAT MAY AFFECT LANDSCAPE VEGETATION ESTABLISHMENT.
5. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT.
6. PLANTS SHALL HAVE TAGS THAT IDENTIFY PLANT GENUS, SPECIES, CULTIVAR (IF APPLICABLE), PLANT COMMON NAME, NAME OF SOURCE NURSERY, AND SIZE OF PLANT FOR REVIEW OF OWNER OR LANDSCAPE ARCHITECT.
7. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT.
8. FINAL GRADES SHALL BLEND SMOOTHLY WITH EXISTING GRADES, AND TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED.
9. ALL TREE AND SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 3". ANNUAL AND PERENNIAL BEDS SHALL BE MULCHED TO A DEPTH OF 2". MULCH SHALL BE UNCOLORED TRIPLE-SHREDDED HARDWOOD BARK MULCH, AGED AT LEAST 6 MONTHS.
10. IF TREE STAKING IS PROPOSED, TREE STAKING MUST BE COMPLETED THE SAME DAY AS THE TREE IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED PER DETAIL.
11. LANDSCAPE PLANTING AREAS MUST BE FREE DRAINING, PAVEMENT, COMPACTED SUBGRADE, DEAD OR DYING PLANT MATERIAL, BLASTED ROCK, STONES GREATER THAN 1" IN DIAMETER, AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT SHALL BE REMOVED FROM AREAS TO BE LANDSCAPED AS REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS.
12. PLANTING SOIL:

DEPTH: PLANTING SOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6" OR AS NOTED IN THE LANDSCAPE DETAILS. PLANTING SOIL SHALL BE UTILIZED IN ALL PLANTING AREAS INCLUDING SEEDED AREAS.

TESTING: CONTRACTOR SHALL SUBMIT (2) SOIL SAMPLES PER SOIL STOCKPILE TO A CERTIFIED TESTING LABORATORY TO DETERMINE ACTIVITY, ORGANIC CONTENT, MECHANICAL ANALYSIS, AVAILABLE NUTRIENTS (N,P,K,Ca,Mg,S,Pb,Mn,Zn,Cu,B,Al,Pb) AND NECESSARY AMENDMENTS TO SOIL. THE CONTRACTOR SHALL FURNISH THE TEST RESULTS TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. TEST RESULTS SHALL RECOMMEND AMENDMENTS THAT WILL ALTER THE SOIL CHARACTERISTICS SUCH THAT THE CHARACTERISTICS DESCRIBED BELOW ARE ACHIEVED AND THE SPECIFIED PLANTS (CONTRACTOR TO PROVIDE LIST TO TESTING LABORATORY) WILL ACHIEVE PROPER GROWTH THAT IS NEITHER DEFICIENT NOR EXCESSIVE. THE CONTRACTOR SHALL INCORPORATE THESE AMENDMENTS AT NO INCREASE IN CONTRACT PRICE.

CHARACTERISTICS: PLANTING SOIL MAY CONSIST OF EXISTING ON-SITE SOILS, AMENDED ON-SITE SOILS, OR IMPORTED SOILS MEETING THE FOLLOWING CRITERIA:

- A. NOT TO CONTAIN MATERIALS HARMFUL TO PLANT LIFE, TO BE CLEAN, FERTILE, FRIABLE, AND WELL DRAINING. ALL PLANTING SOIL SHALL BE FREE OF ANY SUBSOIL EARTH CLODS, SOOS, STONES OVER 1" IN ANY DIMENSION, STICKS, ROOTS, WEEDS, LITTER AND OTHER DELETERIOUS MATERIAL. PLANTING SOIL SHALL BE UNIFORM IN QUALITY AND TEXTURE.
- B. PLANTING SOIL SHALL HAVE THE FOLLOWING OPTIMUM RANGES UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.
 - ORGANIC CONTENT 3% - 6% FOR LAWN OR GRASS AREAS.
 4% - 8% FOR TREE AND SHRUB PLANTERS.
 8% - 16% FOR RETENTION OR DETENTION BASINS.
 (BY LOSS OF IGNITION AT 375 C METHOD OF TESTING)
 - PH 6.0 - 7.3
- C. NUTRIENT LEVELS SHALL BE ACHIEVED BY THE CONTRACTOR'S ADDITION OF AMENDMENTS TO THE PLANTING SOIL TO MEET THE OPTIMUM NUTRIENT LEVELS SPECIFIED IN THE TESTING LABORATORY REPORT FOR EACH OF PLANTS TO BE INSTALLED.
- D. SOIL SHALL BE COMPACTED TO A SURFACE PENETRATION RESISTANCE OF 75-125 LBS/SQ.IN
- E. SOIL MAY BE TREATED FOR WEEDS WITH PRE-EMERGENT OR POST-EMERGENT HERBICIDE, AS NEEDED AND AS APPROPRIATE FOR THE APPLICATION SEASON OR LOCATION, OR ELIMINATE GROWTH OF UNWANTED PLANT MATERIAL. APPLY HERBICIDES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. HERBICIDE APPLICATOR MUST BE LICENSED IN THE STATE OF NEW HAMPSHIRE, AND PERFORM APPLICATIONS IN ACCORDANCE WITH LOCAL REQUIREMENTS, PERMITTING STIPULATIONS, AND ANY OTHER RESTRICTIONS INCLUDING AND IN EXCESS OF STATE AND FEDERAL REGULATIONS.
- F. PROPOSED TOPSOIL SHALL MEET THE USDA SOILS TEXTURAL PERCENTAGES OF SAND, SILT, AND CLAY FOR FOLLOWING CLASSIFICATIONS:
 - LOAM
 - SANDY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS NOT LESS THAN 5%
 - SANDY CLAY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS LESS THAN 28%
- G. BIORETENTION SOILS: SOIL TO BE INSTALLED IN RETENTION BASINS, PONDS, OR OTHER STORMWATER MANAGEMENT ENVIRONS SHALL MEET THE ABOVE DESCRIBED CHARACTERISTICS AND AS FOLLOWS:
 - SOIL SHALL NOT CONTAIN MORE THAN 20% CLAY AND LESS THAN 40% SILT.
 - SOIL SHALL HAVE AN INFILTRATION RATE BETWEEN 1/2" AND 3" PER HOUR.
- H. MODIFICATION TO THE PLANTING SOIL CHARACTERISTICS DESCRIBED ABOVE MAY BE SUBMITTED FOR APPROVAL BY THE LANDSCAPE ARCHITECT. CONTRACTOR MUST DEMONSTRATE PROPOSED CHARACTERISTICS ARE EQUAL TO OR SUPERIOR TO THE SPECIFIED CHARACTERISTICS WITH RESPECT TO SUPPORTING PLANT GROWTH, AND STORMWATER MANAGEMENT.

12. PLANTING AMENDMENTS: APPLY FERTILIZER AND OTHER AMENDMENTS AS RECOMMENDED FOR EACH PLANTING AREA BY SOIL ANALYSIS. APPLY AMENDMENTS IN A MANNER CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS. ANY ORGANIC AMENDMENTS SHALL HAVE A pH BETWEEN 4.5 AND 5.5 UNLESS OTHERWISE RECOMMENDED.

13. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. ALL TREES AND SHRUBS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY WITHIN 200 MILES OF THE PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED, BUT THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSSES SHALL NOT BE LOWER THAN 7' FEET IF THE TREE CALIPER IS 3" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE LANDSCAPE ARCHITECT AND SHALL ACCOMPANY THE OWNER AND/OR LANDSCAPE ARCHITECT FOR ALL INSPECTIONS. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL PLANTS.

14. INSPECTION AND REVIEW: ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE OR PLACE OF GROWTH. THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT ON A SCHEDULE FOR SOURCE VISITS AND ACCOMPANY THE OWNER OR LANDSCAPE ARCHITECT FOR ALL SOURCE INSPECTIONS. CERTIFICATES OF COMPLIANCE ARE REQUIRED FOR ALL PLANT MATERIALS. PHOTOGRAPHIC REVIEW OF PLANT MATERIAL IS ACCEPTABLE IF APPROVED BY LANDSCAPE ARCHITECT. PHOTOGRAPHS MUST BE PROVIDED IN QUANTITY AND VARIETY TO ALLOW LANDSCAPE ARCHITECT SUFFICIENT INFORMATION TO MAKE A REASONABLE DETERMINATION AS TO THE PLANTS' QUALITY. OWNER AND LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANT MATERIAL DELIVERED TO THE SITE BUT PREVIOUSLY ACCEPTED IF DAMAGED OR NOT PROPERLY MAINTAINED DURING THE DELIVERY PROCESS.

15. PLANTING SEASONS (UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT)

EVERGREEN TREES AND SHRUBS	FALL SEPTEMBER 1 TO OCTOBER 15
DECIDUOUS TREES AND SHRUBS	APRIL 1 TO JUNE 15 SEPTEMBER 15 TO NOVEMBER 15
GROUNDCOVERS	APRIL 1 TO JUNE 15 SEPTEMBER 1 TO OCTOBER 15
PERENNIALS	MAY 15 TO JUNE 15 SEPTEMBER 1 TO OCTOBER 15
SEED MIXES	PER MANUFACTURERS RECOMMENDATIONS OR AS LISTED IN SEED MIX NOTES

16. SEEDING MIXTURES: REFER TO SEED MIX NOTES.

17. ALL SLOPES STEEPER THAN 3:1 RECEIVING A SEED MIX SHALL BE COVERED WITH AN EROSION CONTROL BLANKET OF STRAW FIBER AND BIODEGRADABLE OR PHOTODEGRADABLE NETTING.

18. UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TREELINES SHALL EQUAL CLEARING AND GRUBBING LIMIT FOR CONSTRUCTION.

19. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED WITH THE LAWN SEED MIX.

SEED MIX NOTES

- A. LAWN SEEDING MIX:
 15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS)
 25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS)
 60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS)
 SEEDING RATE: 5 LBS/1,000 S.F.
 SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 30 UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.
- B. BIOSWALE SEEDING MIX:
 MANUFACTURER: ERNST CONSERVATION SEEDS, (800) 873-3321, SALES@ERNSTSEED.COM
 PRODUCT: RAIN GARDEN GRASS MIX
 APPLICATION RATE: 15LB/ACRE

LANDSCAPE PLANT SCHEDULE (FOR SHEETS LL-01 AND LL-02)

TREES					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AG*	2	AMELANCHIER X GRANDIFLORA 'Autumn Brilliance'	'Autumn Brilliance' SERVICEBERRY	7-8' TALL* B&B	SPACE 15-20' O.C.
GB	4	GINGKO BILOBA 'Princeton Sentry'	'Princeton Sentry' COLUMNAR GINGKO	3-3.5" CAL B&B	SPACE 15' O.C.
NS	3	NYSSA SYLVATICA	Black Tupelo	3-3.5" CAL. B&B	SPACE 20' O.C.
SHRUBS					
AM	56	ARONIA MELANOCARPA 'Low Scape Mound'	'Low Scape Mound' BLACK CHOKEBERRY	#3 CONT.	SPACE 2' +/- O.C.
CA#	107	CLETHRA ALNIFOLIA 'Hummingbird'	'Hummingbird' SWEETSPIRE	#3 CONT.	SPACE 4' O.C.
CS#	21	CORNUS STOLONIFERA 'Farrow'	'Arctic Fire' RED TWIG DOGWOOD	#3 CONT.	SPACE 3-4' +/- O.C.
IV	6	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	#3 CONT.	SPACE 3' O.C.
WS	29	WEIGELA FLORIDA 'Sonic Bloom Pink'	'Sonic Bloom Pink' WEIGELA	#3 CONT.	SPACE 5' O.C.
PERENNIALS/ORNAMENTAL GRASSES/GROUNDCOVER					
AX#	60	ARUNCUS X 'Chantilly Lace'	ARUNCUS X 'Chantilly Lace'	#1 CONT.	SPACE 3' +/- O.C.
JH	31	JUNIPERUS HORIZONTALIS 'Hughes'	HUGHES SPREADING JUNIPER	#3 CONT.	SPACE 5' O.C.
MD#	290	MONARDA DIDYMA 'Pardon my Cerise' (RED)	'Pardon My Cerise' DWARF BEE BALM	#1 CONT.	SPACE 1.5' +/- O.C.
NF	19	NEPETA X FAASSENII 'Walkers Low'	'Walkers Low' CATMINT	#1 CONT.	SPACE 2.5' O.C.
SR#	18	SAMBUCUS RACEMOSA 'Lemony Lace'	'Lemony Lace' ELDERBERRY	#1 CONT.	SPACE 4-5' +/- O.C.
YF	27	YUCCA FILAMENTOSA 'COLOR GUARD'	COLOR GUARD YUCCA	#2 CONT.	SPACE 2.5' +/- O.C.

* MULTI-STEMMED FORM
 # RAIN GARDEN APPROPRIATE

LANDSCAPE PLANT SCHEDULE (FOR SHEET LL-03)

TREES					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GB	3	GINGKO BILOBA 'Princeton Sentry'	'Princeton Sentry' COLUMNAR GINGKO	3-3.5" CAL B&B	SPACE 15' O.C.
CF	3	CORNUS FLORIDA 'Cherokee Princess'	PINK FLOWERING DOGWOOD	2-2.5" CAL. B&B	SPACE 15-20' O.C.
NS	3	NYSSA SYLVATICA	Black Tupelo	3-3.5" CAL. B&B	SPACE 20' O.C.
ZS	4	ZELKOVA SERRATA 'Village Green'	'Village Green' JAPANESE ZELKOVA	3-3.5" CAL. B&B	SPACE 30-50' O.C.
SHRUBS					
CA#	21	CLETHRA ALNIFOLIA 'Hummingbird'	'Hummingbird' SWEETSPIRE	#3 CONT.	SPACE 4' O.C.
CS#	12	CORNUS STOLONIFERA 'Farrow'	'Arctic Fire' RED TWIG DOGWOOD	#3 CONT.	SPACE 3-4' +/- O.C.
PERENNIALS/ ORNAMENTAL GRASSES/ GROUNDCOVER					
CK	9	CALAMAGROSTIS X ACUFLORA 'Karl Foerster'	FEATHER REED GRASS	#1 CONT.	SPACE 3' +/- O.C.
EP	33	ECHINACEA PURPEREA	PURPLE COREFLOWER	#1 CONT.	SPACE 2' O.C.
HH	7	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1 CONT.	SPACE 2' O.C.
JH	15	JUNIPERUS HORIZONTALIS 'Hughes'	HUGHES SPREADING JUNIPER	#3 CONT.	SPACE 5' O.C.
MD#	360	MONARDA DIDYMA 'Pardon my Cerise' (RED)	'Pardon My Cerise' DWARF BEE BALM	#1 CONT.	SPACE 1.5' +/- O.C.
NF	19	NEPETA FAASSENII 'WALKERS LOW'	WALKER'S LOW CATMINT	#1 CONT.	SPACE 2' +/- O.C.
RF	40	RUDBECKIA FULGIDA	BLACK-EYED SWAN	#1 CONT.	SPACE 2' O.C.
SA#	30	SEEDUM 'Autumn Joy'	AUTUMN JOY SEEDUM	#1 CONT.	SPACE 2' O.C.
YF	7	YUCCA FILAMENTOSA 'COLOR GUARD'	COLOR GUARD YUCCA	#2 CONT.	SPACE 2.5' +/- O.C.

RAIN GARDEN APPROPRIATE

LANDSCAPE PLANT SCHEDULE (FOR SHEET LL-04)

SHRUBS						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE	COMMENTS
AM	80	ARONIA MELANOCARPA 'LOW SCAPE MOUND'	'LOW SCAPE MOUND' BLACK CHOKEBERRY	CONT.	#2 CONT.	PLANT 2' O.C.
CA	6	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SWEETSPIRE	CONT.	#3 CONT.	PLANT 3' O.C.
IG	7	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	CONT.	#3 CONT.	PLANT 3' O.C.
SJ	15	SPIREA JAPONICA 'DOUBLE PLAY GOLD'	'DOUBLE PLAY GOLD' SPIREA	CONT.	#3 CONT.	PLANT 3' O.C.
PERENNIALS AND ORNAMENTAL GRASSES						
CK	30	CALAMAGROSTIS X ACUTIFLORA	FEATHER REED GRASS	CONT.	#2 CONT.	PLANT 2' O.C.
LM	14	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILY TURF	CONT.	#1 CONT.	PLANT 18" O.C.

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MILLBURY DOWNTOWN PHASE 2
 ELM STREET
 MILLBURY, MA

REVISIONS	Desc.	
No.	Date	
Designed	M.M.	
Drawn	K.A.	
Reviewed	M.M.	
Scale		
Project No.	2001478	
Date	FEBRUARY, 2022	
CAD File:	LL200147802	
Title		

LANDSCAPE NOTES

Sheet No.

LL-05