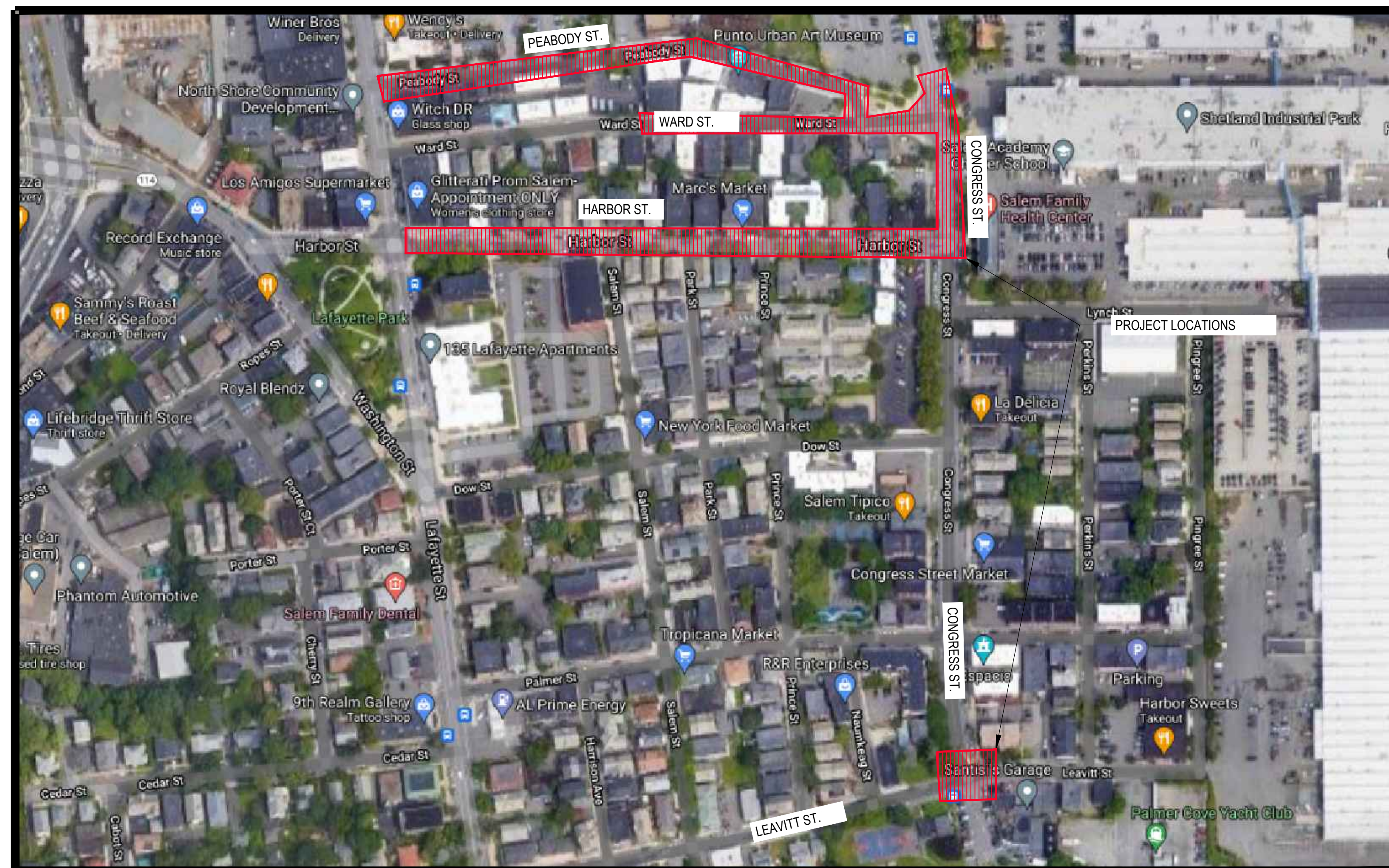


CONGRESS STREET AREA SURFACE IMPROVEMENTS PROJECT

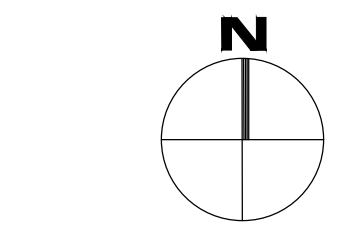
FOR

CITY OF SALEM, MA ENGINEERING DEPARTMENT

APRIL 2023



25 0 50 100 FEET
SCALE = 1"=50'



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CITY OF SALEM
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DEPARTMENT
98 WASHINGTON ST
SALEM, MA 01970

CLIENT INFO

CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

SHEET INDEX:

SHEET No.	DESCRIPTION
C-000	COVER SHEET
C-100	HARBOR STREET I
C-101	HARBOR STREET II
C-200	PEABODY STREET
C-201	PEABODY @ WARD STREET
C-202	CONGRESS STREET
C-300	CIVIL DETAILS PLAN I
C-301	CIVIL DETAILS PLAN II
C-400	ALT 1 PEABODY STREET
C-401	ALT 1 PEABODY @ WARD STREET
C-500	ALT 2 LEAVITT AT CONGRESS STREET
L-1.00	PLANTING & FURNISHINGS PLAN
L2.00	LANDSCAPE DETAILS

COVER SHEET

SHEET NAME:

C-000

SHT NO:

DR BY: BTP

CHK BY: JPB

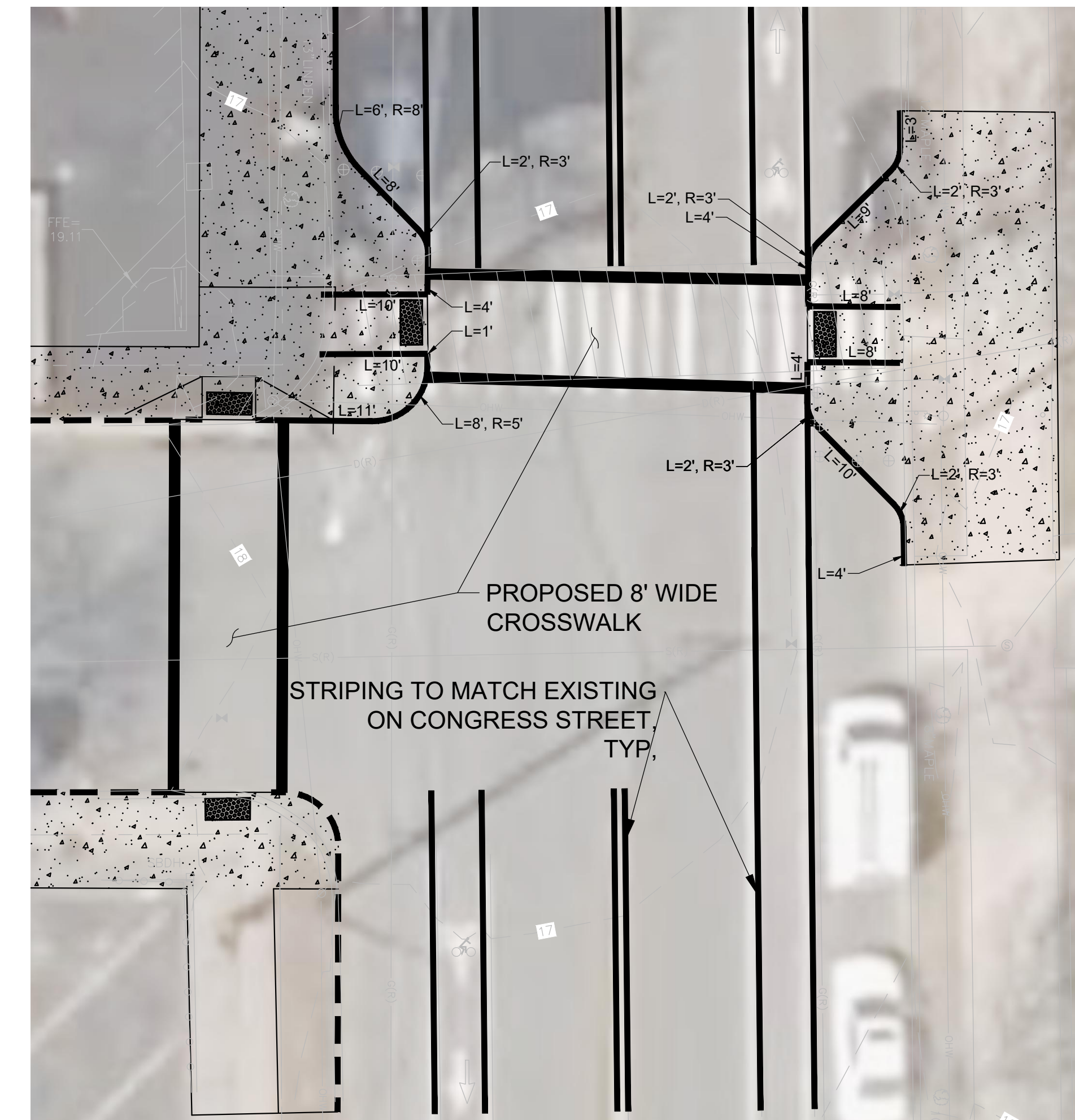
PROJ NO: 20-004.02

DATE: APRIL 2023

SCALE: 1"=50'

NOTES

1. BASE MAPPING OF THE PROJECT SITE IS A RESULT OF MASSGIS ORTHOIMAGERY AND SURVEY DONE BY SAMIOTES CONSULTANTS INC OF FRAMINGHAM, MA DATED MAY 10, 2014. LOCATIONS OF EXISTING SITE FEATURES SHALL BE CONSIDERED APPROXIMATE.
2. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK.
3. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ADJUTING LOTS.
4. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. CONTACT THE CITY OF SALEM FOR THE MARKING OF SALEM MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
6. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
7. CONTRACTOR SHALL REFER TO MASSDOT 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES FOR PRODUCT AND MATERIAL GUIDELINES.

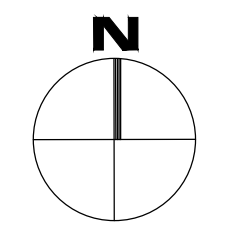
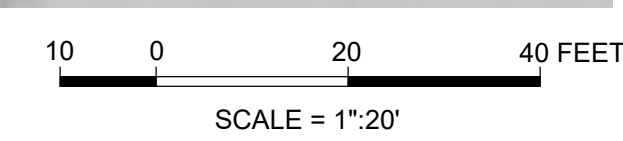
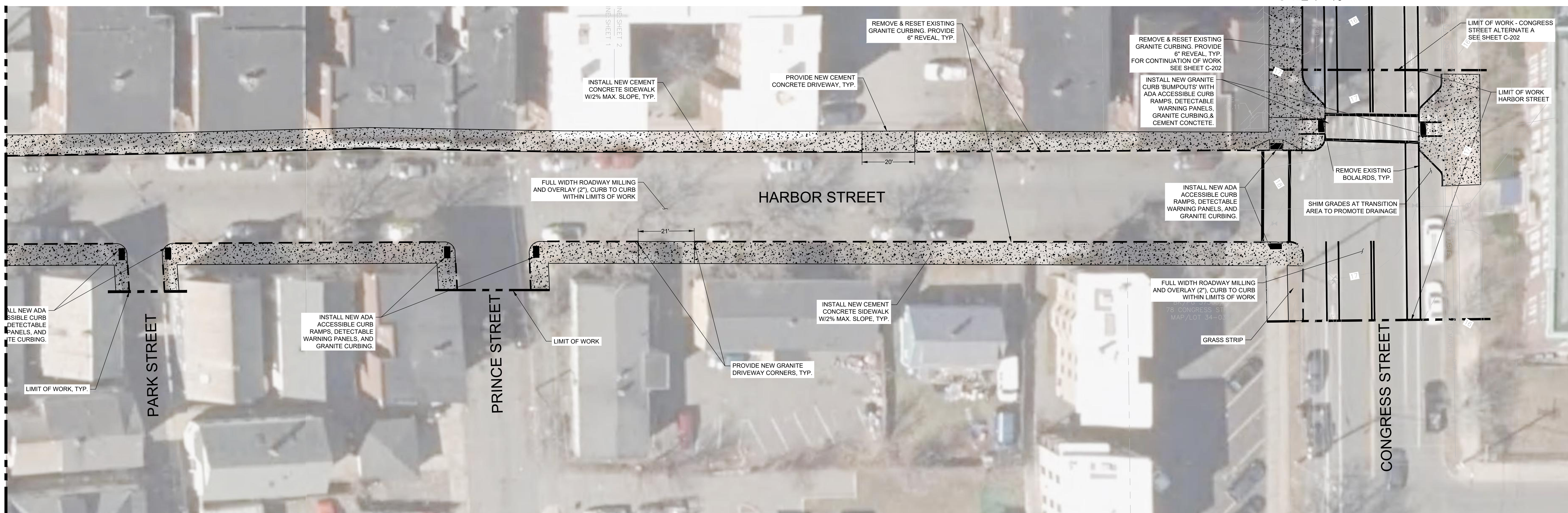


CURB TIE & PAVEMENT MARKINGS

SCALE 1"=10'

MATCH LINE

SEE SHEET C-101



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SALEM, MA 01970

CLIENT INFO

CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

HARBOR STREET I

SHEET NAME:

C-100

SHT NO:

DR BY: BTP

CHK BY: JPB

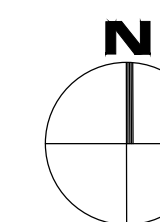
PROJ NO: 20-004.02

DATE: MARCH 2023

SCALE: 1"=20'

NOTES

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CLIENT INFO

CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

REV DESCRIPTION DATE

HARBOR STREET II

SHEET NAME:

C-101

SHT NO:

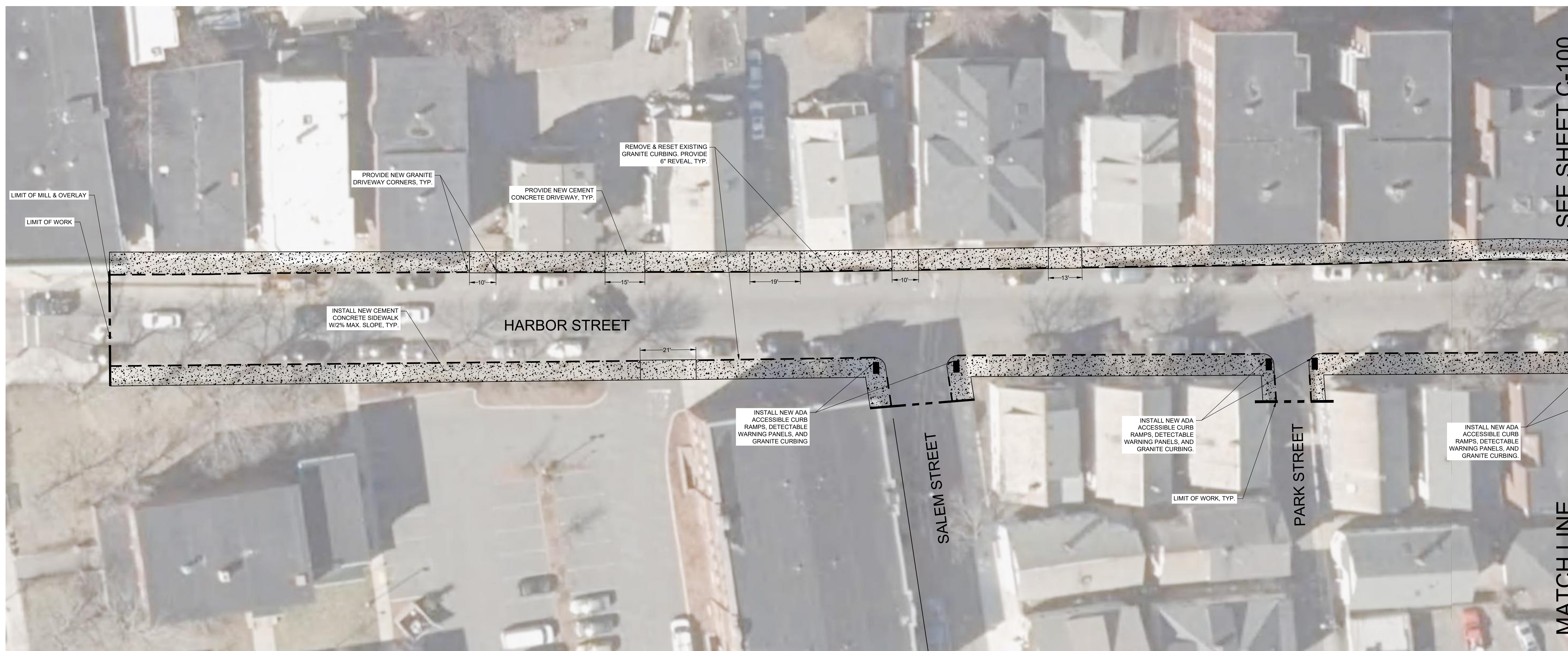
DR BY: BTP

CHK BY: JPB

PROJ NO: 20-004.02

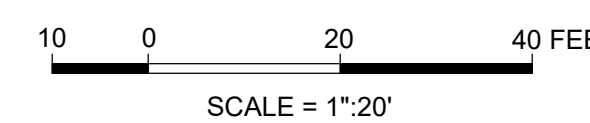
DATE: MARCH 2023

SCALE: 1"=20'



SEE SHEET C-100

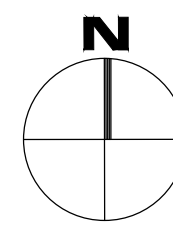
MATCH LINE




SCALE = 1"=20'

NOTES

1. BASE MAPPING OF THE PROJECT SITE IS A RESULT OF MASSGIS ORTHOIMAGERY AND AN ON THE GROUND SURVEY DONE BY WSP OF MERRIMACK, NH. LOCATIONS OF EXISTING SITE FEATURES SHALL BE CONSIDERED APPROXIMATE.
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CLIENT INFO

**CONGRESS STREET
AREA SURFACE
IMPROVEMENTS**

PROJECT INFO

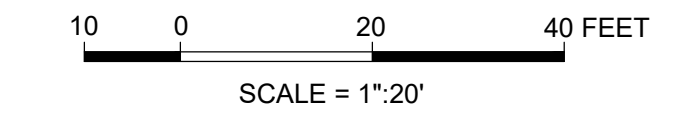
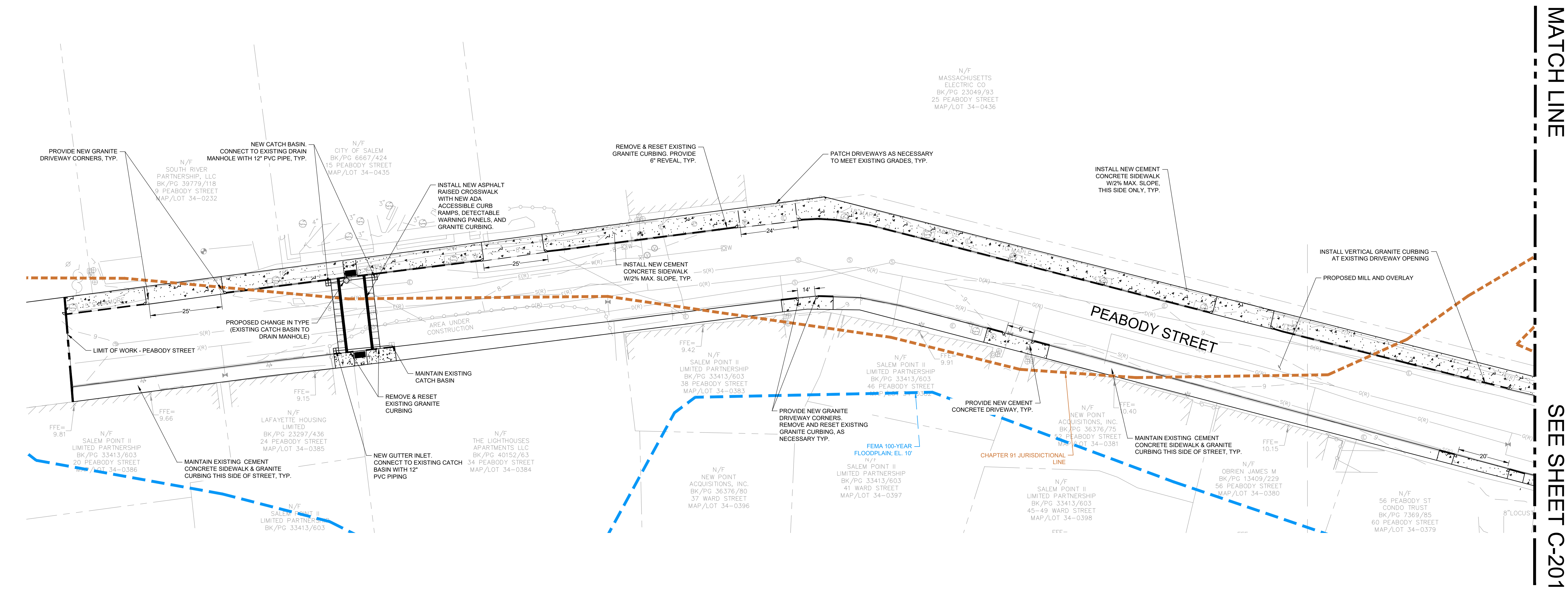
REV	DESCRIPTION	DATE

**PEABODY STREET
SURFACE
IMPROVEMENTS**

SHEET NAME:

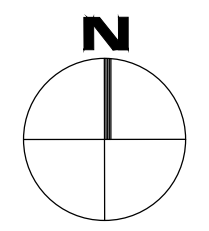
C-200

SHT NO:
DR BY: BTP
CHK BY: JPB
PROJ NO: 20-004.02
DATE: MARCH 2023
SCALE: 1"=20'




NOTES

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CLIENT INFO
**CONGRESS STREET
AREA SURFACE
IMPROVEMENTS**

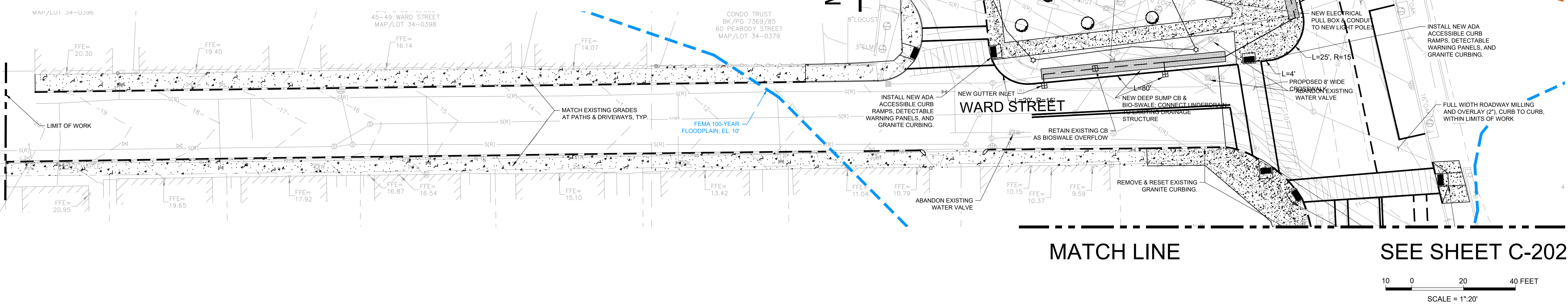
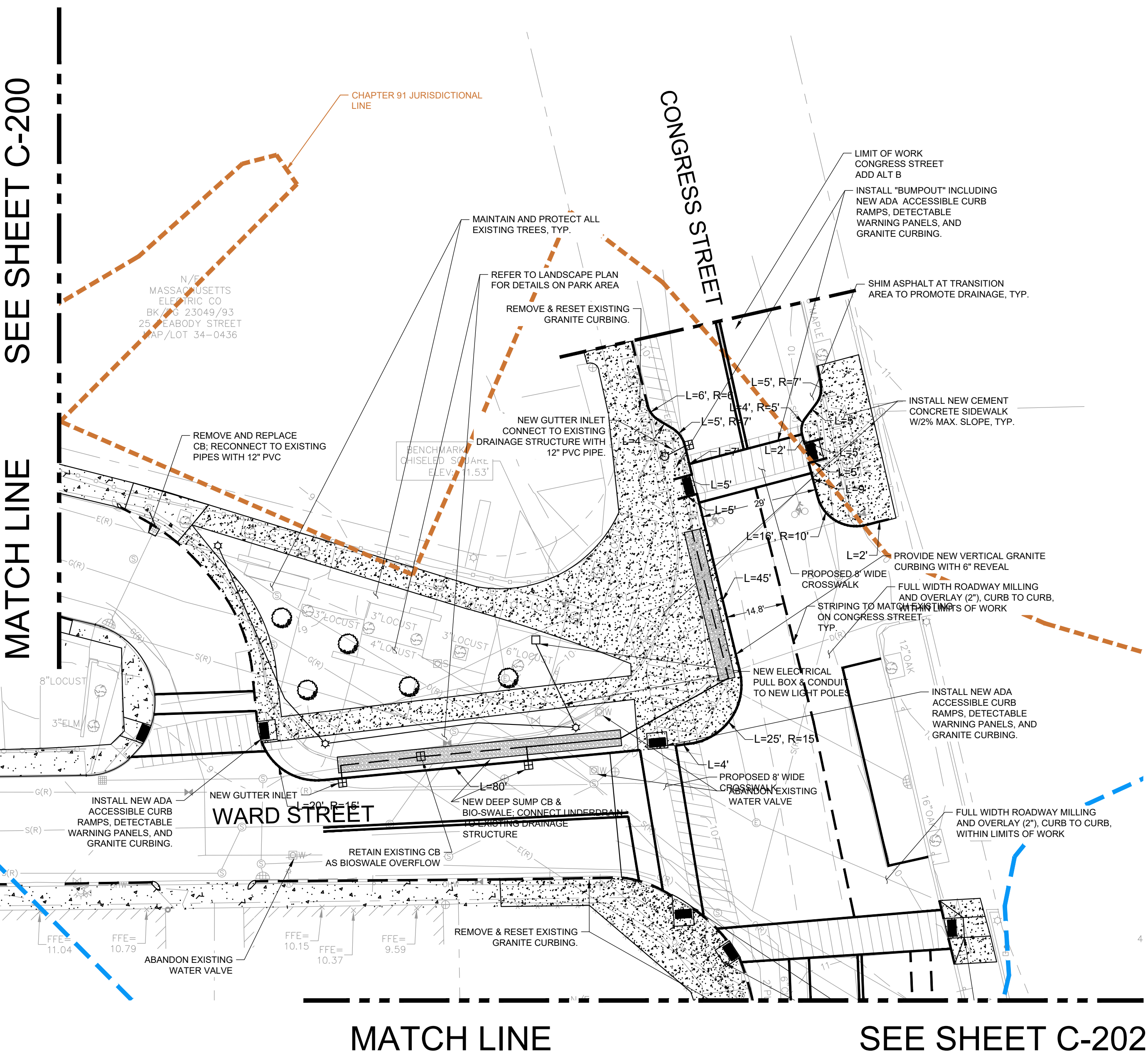
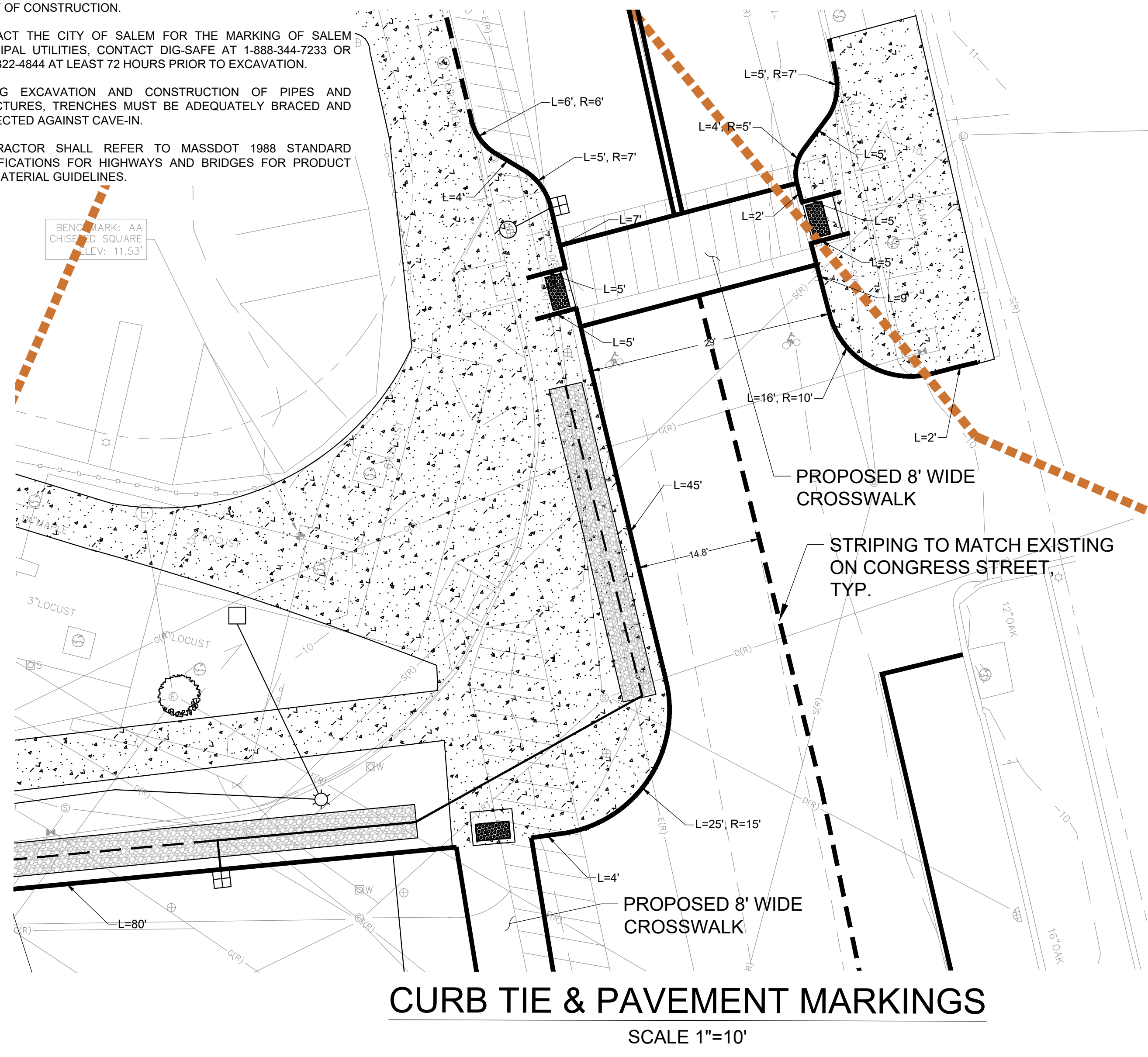
PROJECT INFO

REV	DESCRIPTION	DATE

**PEABODY @
WARD STREET
SURFACE
IMPROVEMENTS**

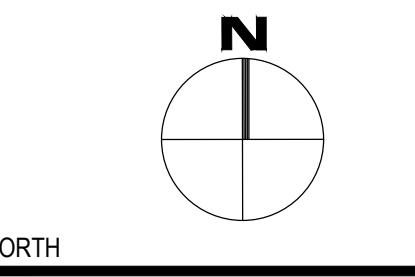
SHEET NAME:
C-201

SHT NO:
DR BY: BTP
CHK BY: JPB
PROJ NO: 20-004.02
DATE: MARCH 2023
SCALE: 1"=20'



NOTES

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SALEM, MA 01970

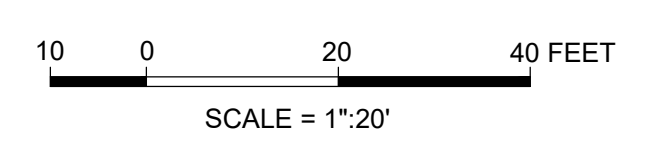
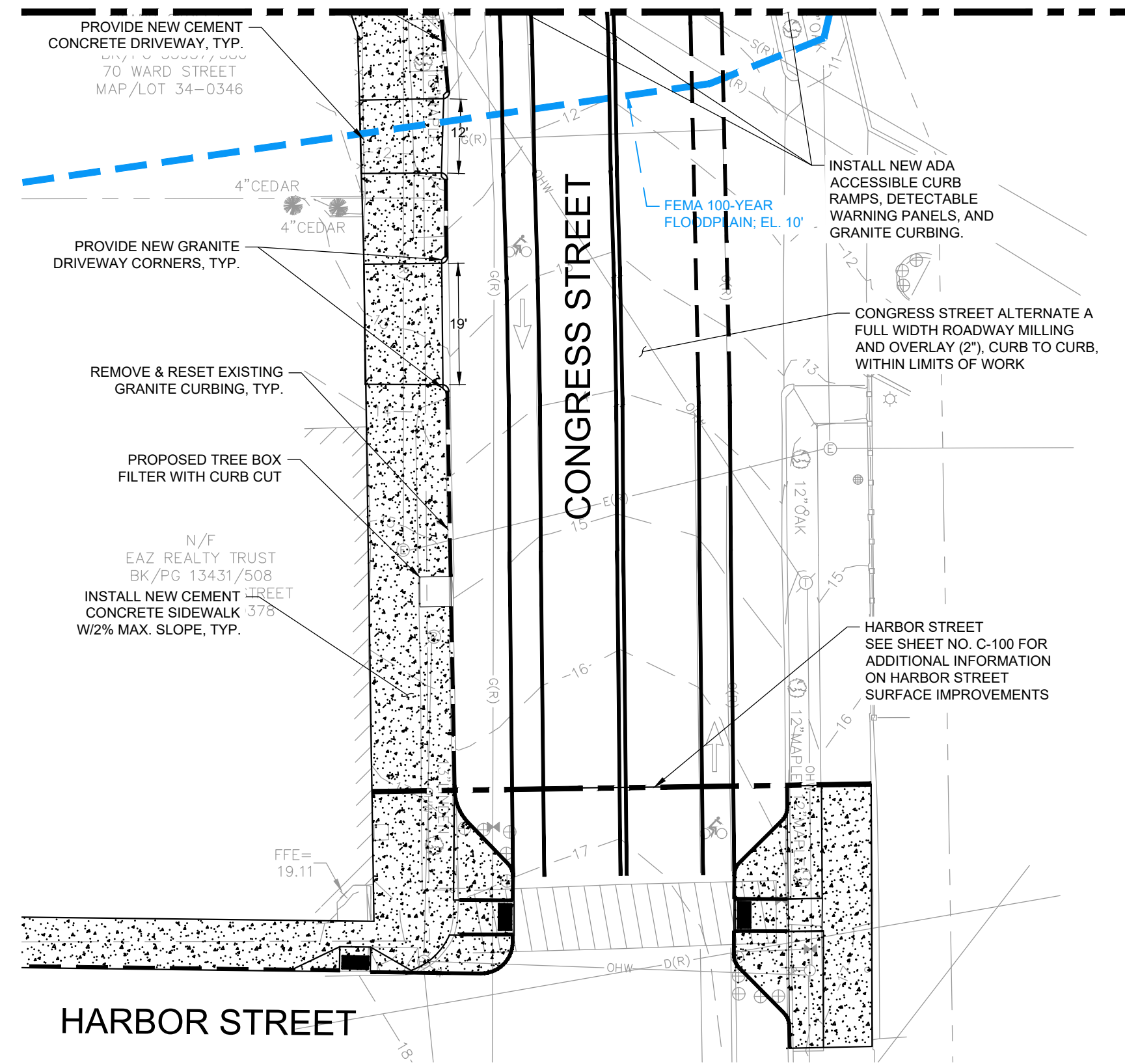
CLIENT INFO

CONGRESS STREET
CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

MATCH LINE SEE SHEET C-201



CONGRESS
STREET
SURFACE
IMPROVEMENTS

SHEET NAME:

C-202

SHT NO.:

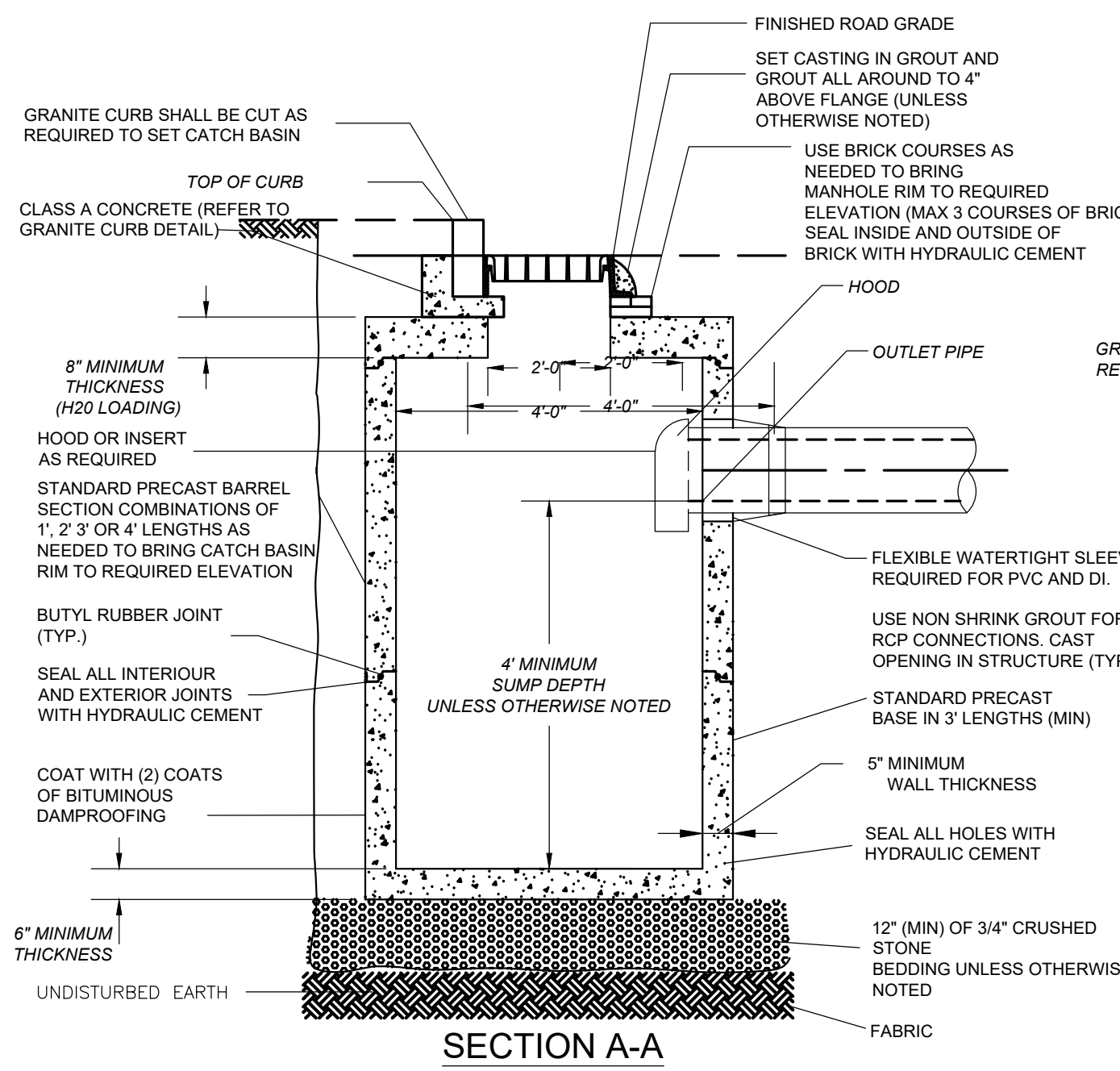
DR BY: BTP

CHK BY: JPB

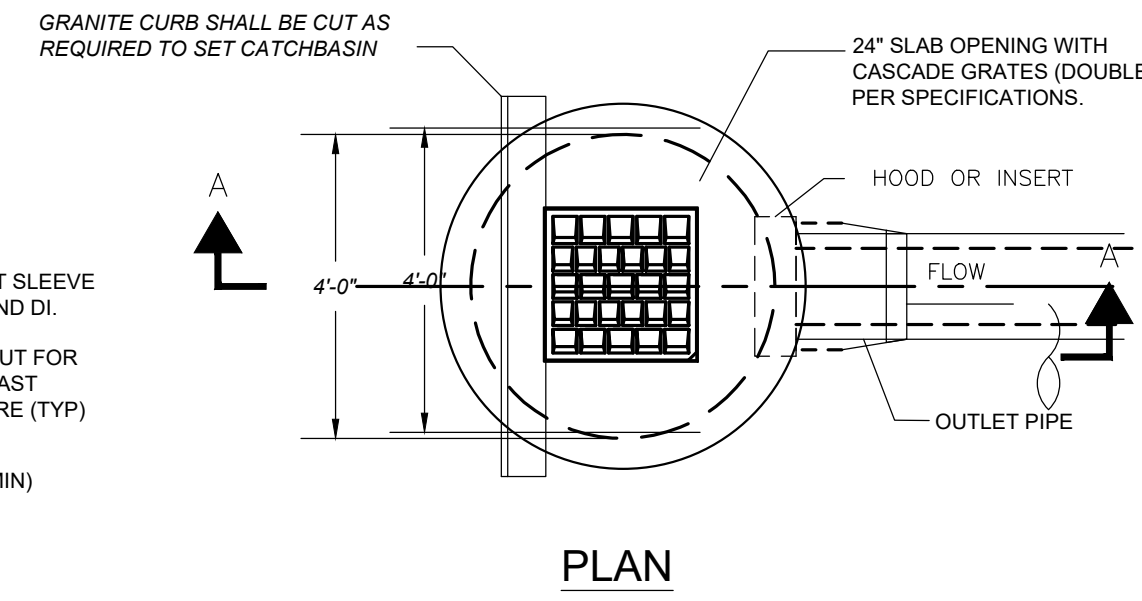
PROJ NO: 20-004.02

DATE: MARCH 2023

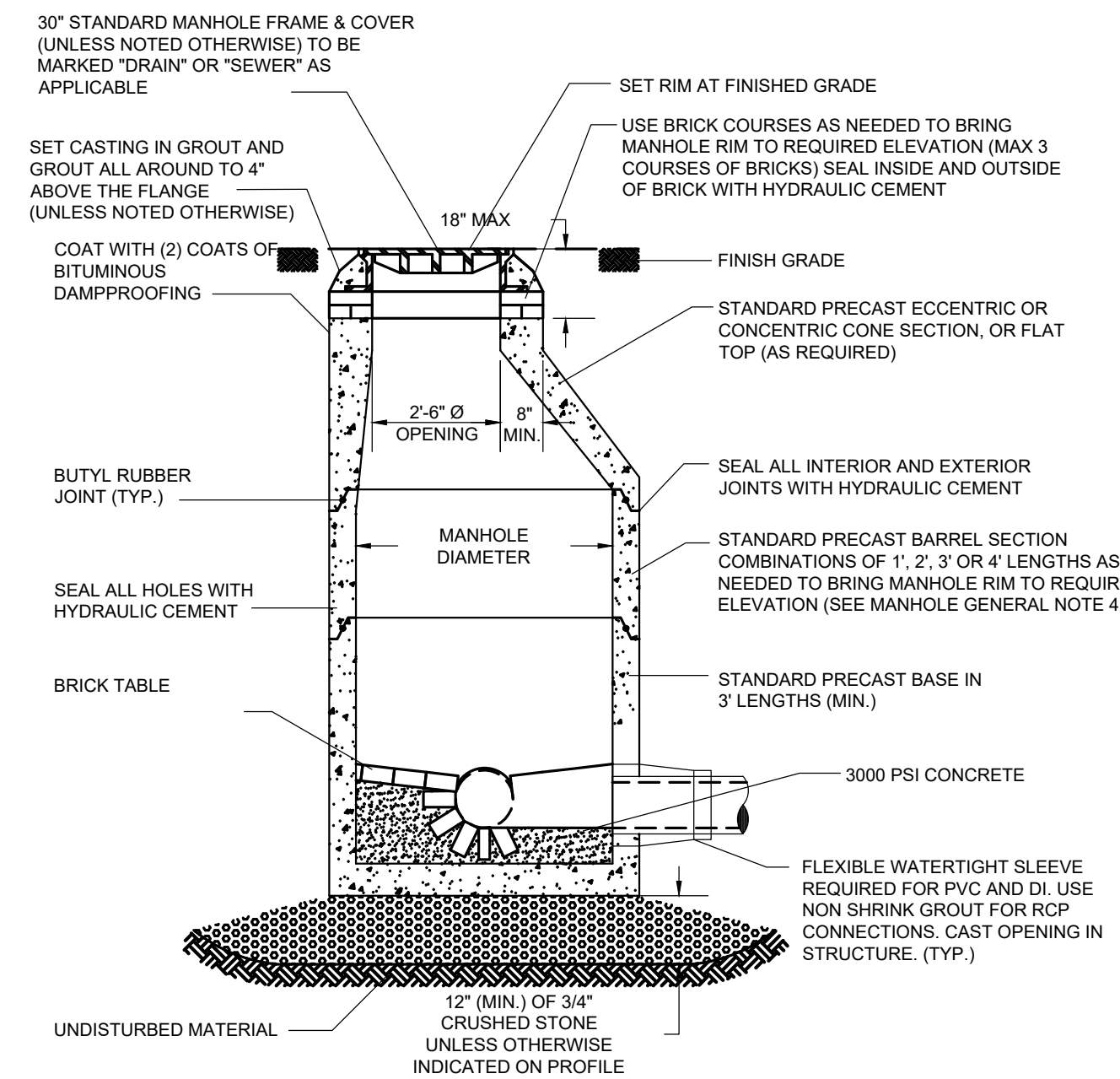
SCALE: 1"=20'



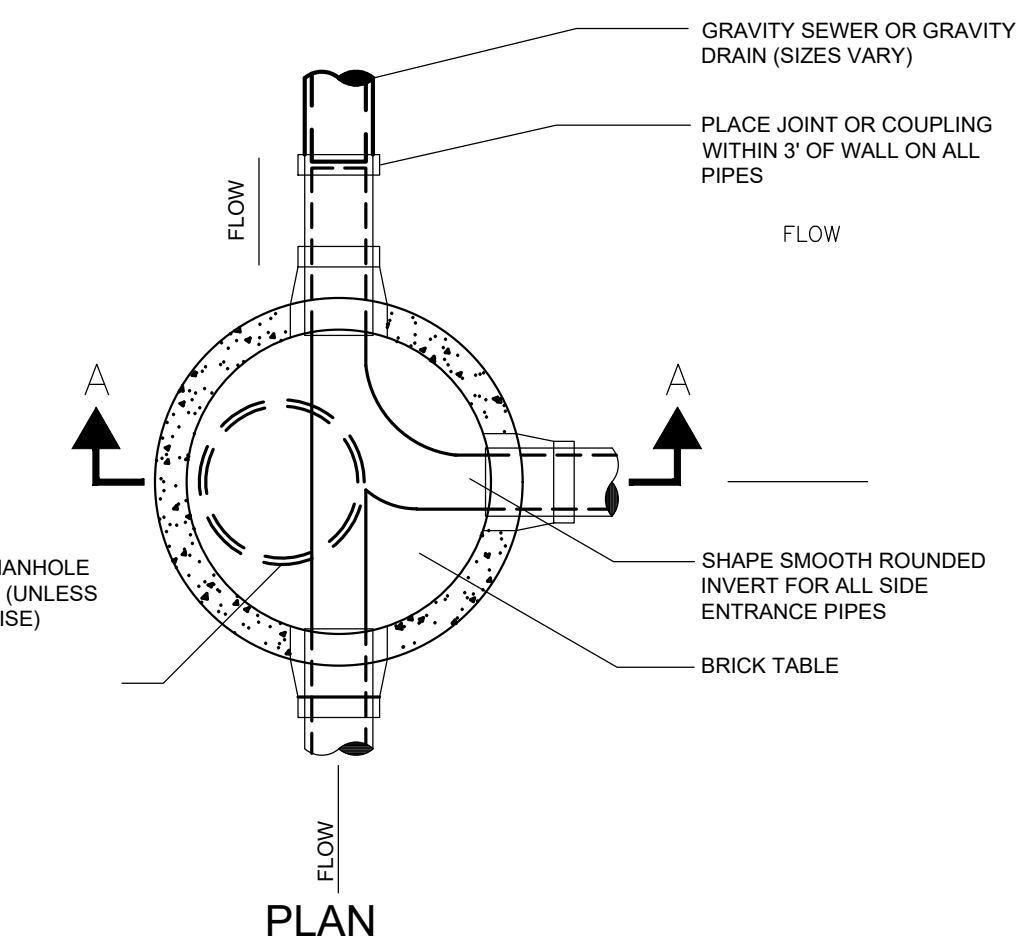
CATCH BASIN
NOT TO SCALE



PLAN

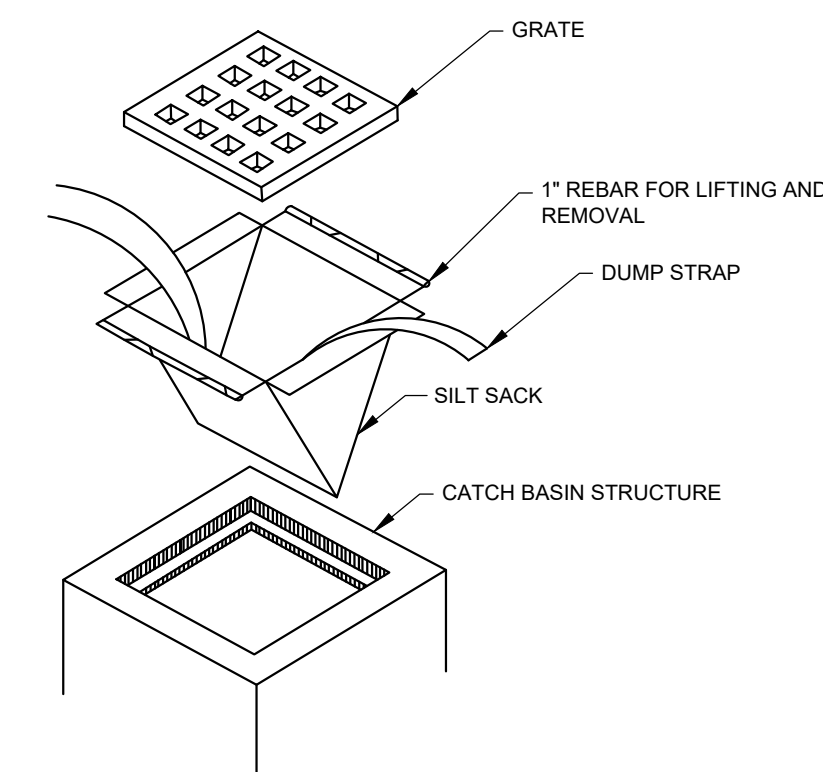


SECTION A-A



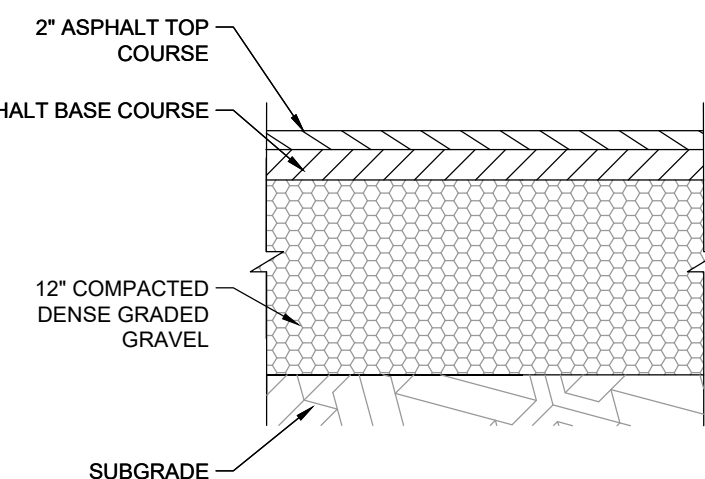
PLAN

DRAIN MANHOLE
NOT TO SCALE

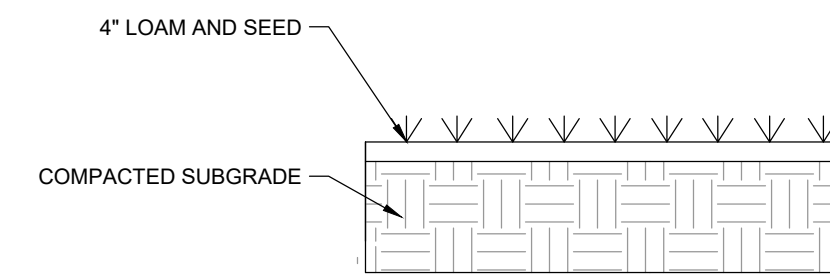


- NOTE:
- 1. INSTALL SILT SACKS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILT SACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.
 - 2. SILT SACKS TO BE INSTALLED AND MAINTAINED DURING CONSTRUCTION OPERATIONS.
 - 3. CONTRACTOR SHALL PROVIDE SILT SACKS WITH OVERFLOW ORIFICE.

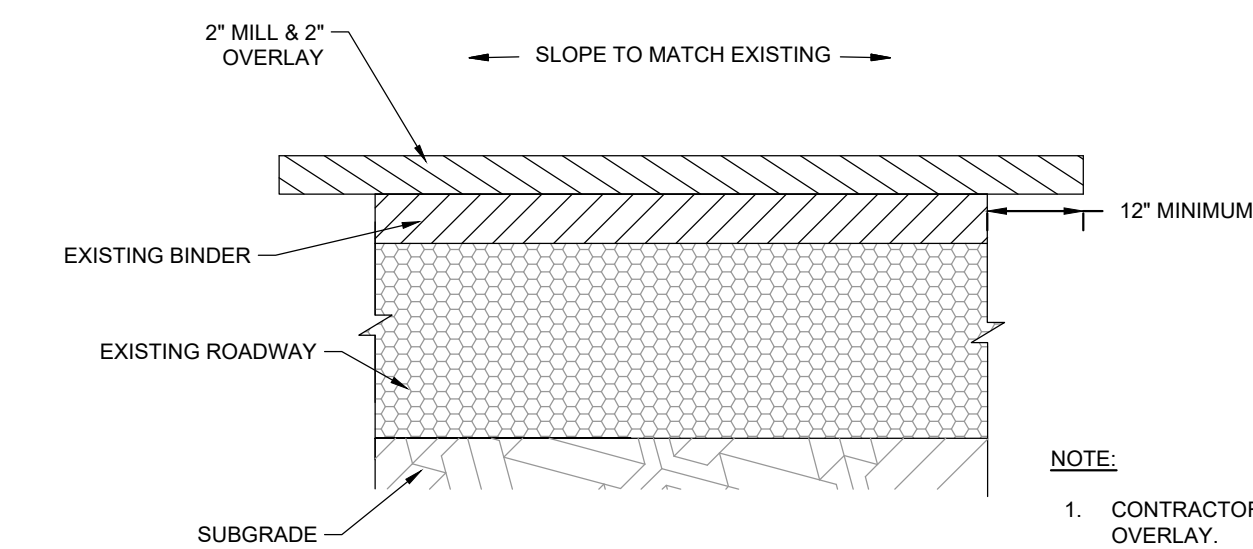
TYPICAL EROSION CONTROL - SILT SACK
NOT TO SCALE



FULL DEPTH ROAD RECONSTRUCTION
NOT TO SCALE

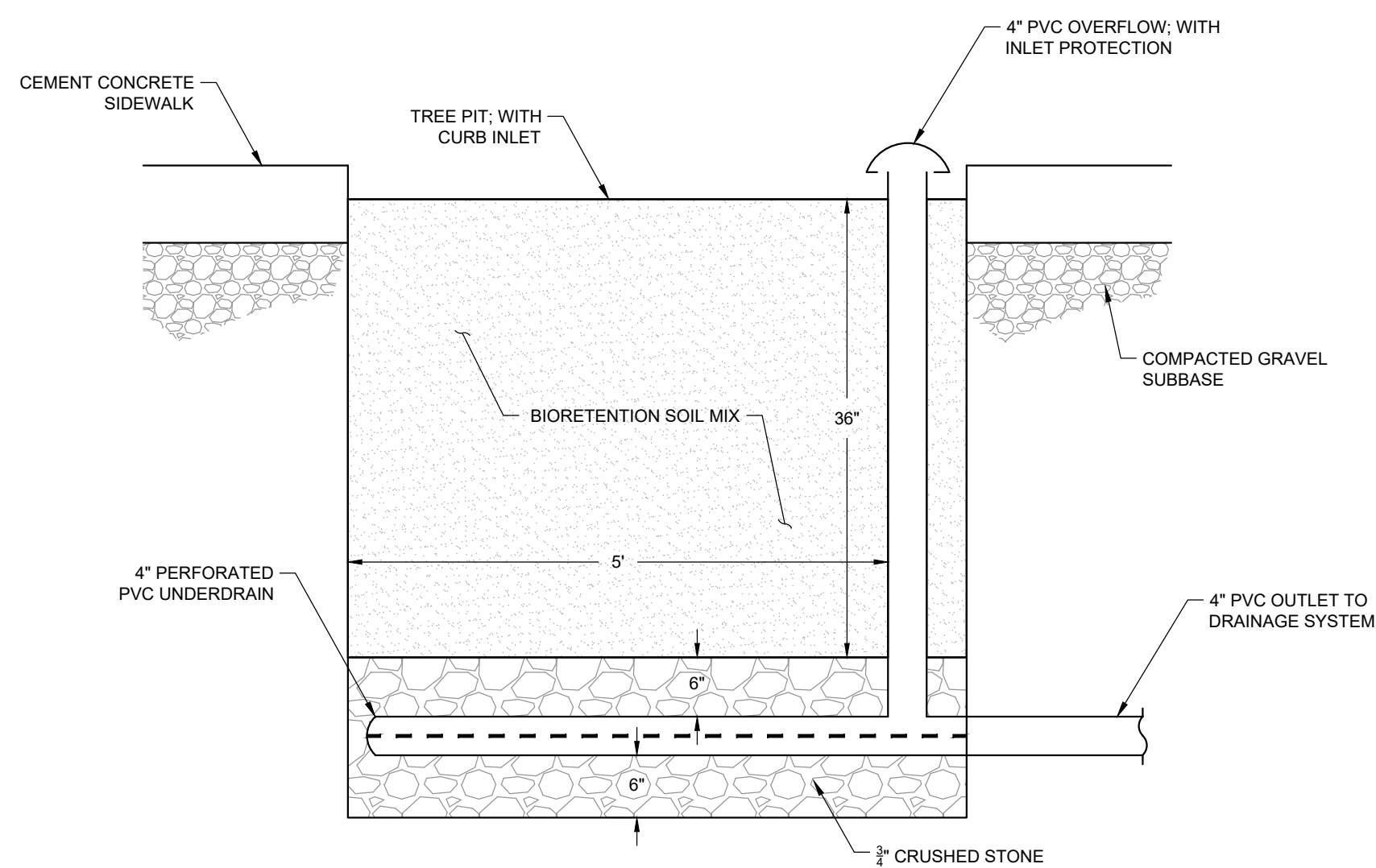


GRASS RESTORATION
NOT TO SCALE

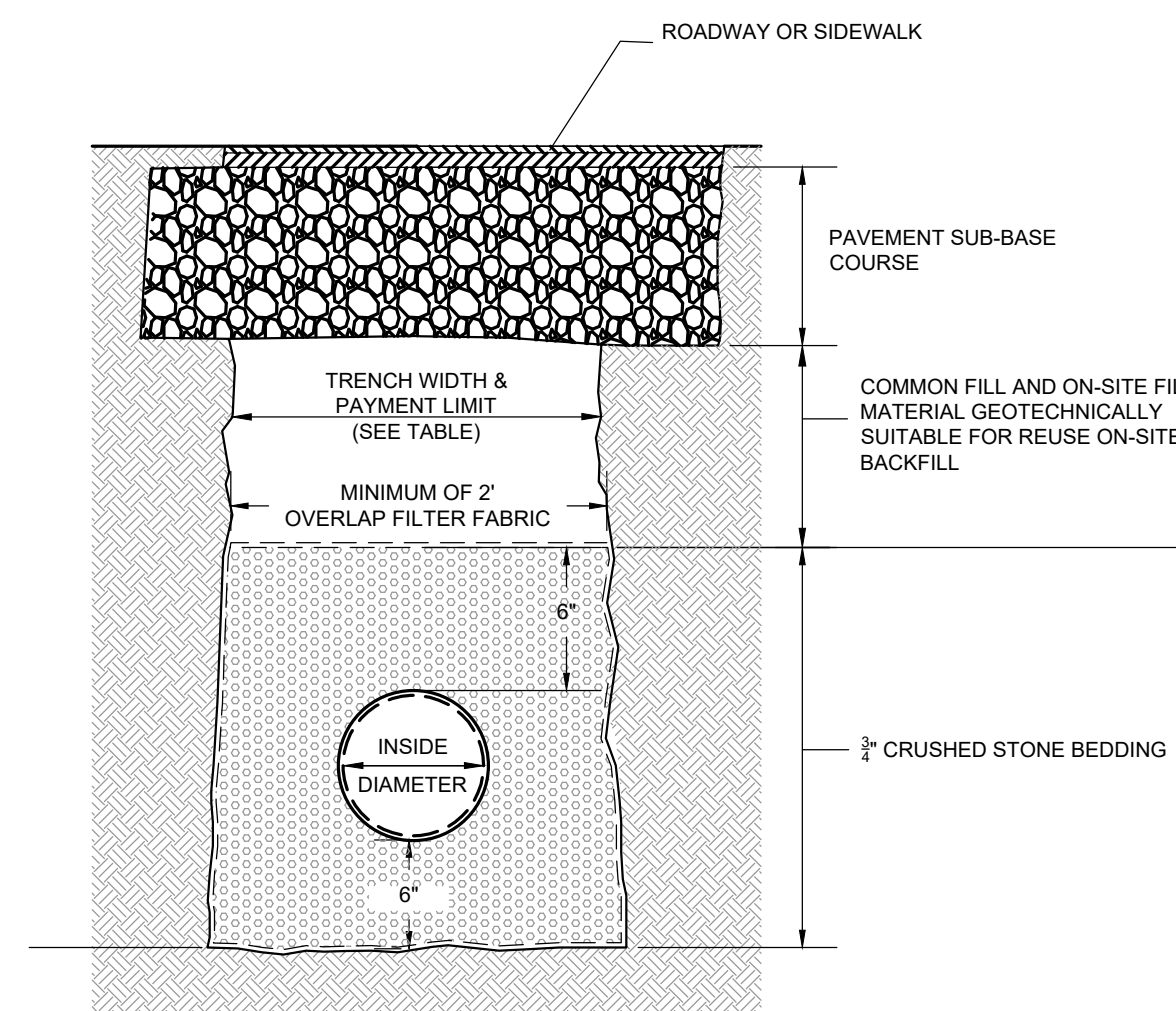


MILL & OVERLAY
NOT TO SCALE

- NOTE:
- 1. CONTRACTOR SHALL APPLY TACK COAT PRIOR TO PLACING 2" OVERLAY.
 - 2. CONTRACTOR SHALL ADJUST ALL STRUCTURES WITHIN RIGHT-OF WAY TO GRADE PRIOR TO INSTALLING OVERLAY.



TREE BOX FILTER
NOT TO SCALE



TYPICAL UTILITY TRENCH
NOT TO SCALE

TRENCH PAY LIMIT TABLE FOR PIPES

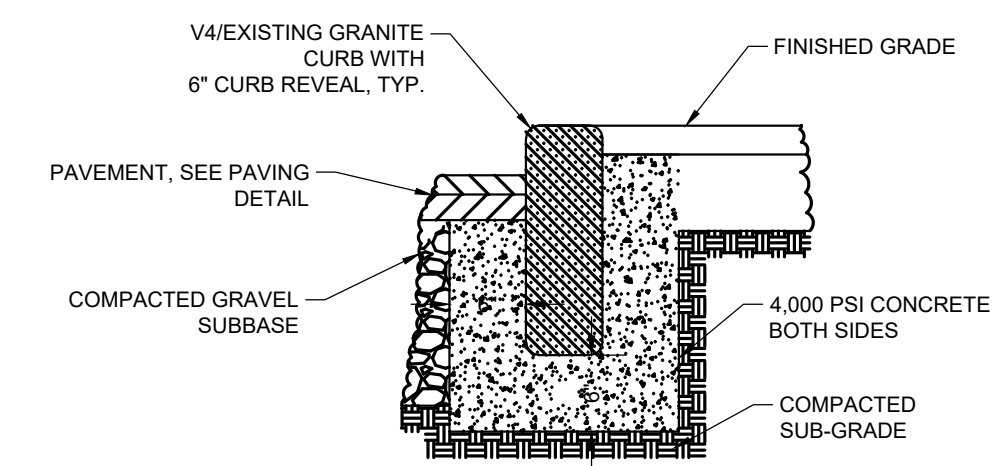
PIPE SIZE (DIA.)	MAX TRENCH WIDTH
LESS THAN 2"	2'-0"
2" TO 6"	3'-0"
6" TO 22"	4'-0"
24" & GREATER	I.D. + 2'-0"

I.D. = INSIDE DIMENSION
FOR TRENCHES GREATER THAN 5' DEEP ADD MAXIMUM 3' FOR TEMPORARY SUPPORT OF EXCAVATION

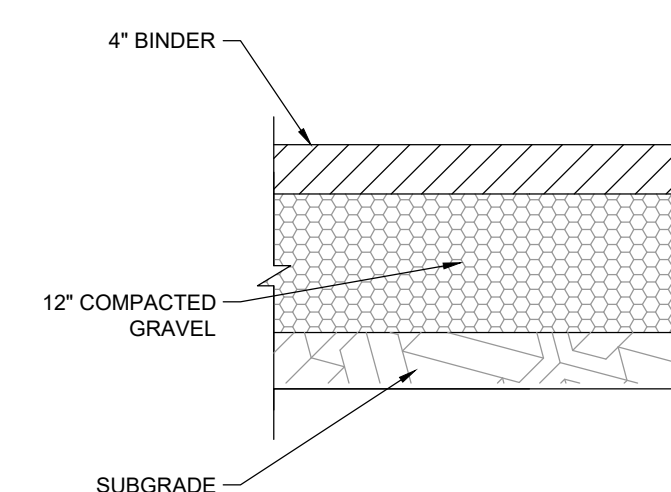
FILTER FABRIC USE

	SOIL TYPE	
	SILT OR CLAY	GRANULAR SOIL
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED

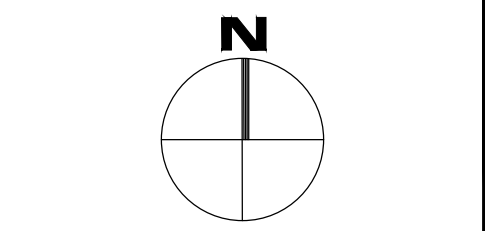
- NOTE:
- ANY LENGTHS OF PIPE BETWEEN STRUCTURES OVER 150' IN LENGTH SHALL HAVE A BENTONITE CHIP DAM INSTALLED 1' WIDE BY PIPE BEDDING CROSS SECTION



VERTICAL GRANITE CURB
NOT TO SCALE



TEMPORARY TRENCH PAVEMENT
NOT TO SCALE



NORTH



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CLIENT INFO

CONGRESS STREET AREA SURFACE IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

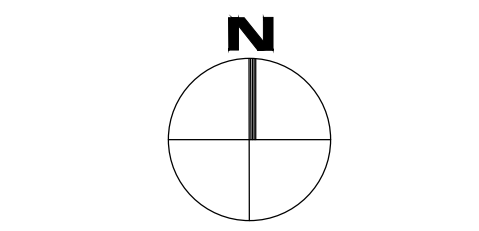


CIVIL
DETAILS I

SHEET NAME:

C-300

SHT NO:
DR BY: BTP
CHK BY: JPB
PROJ NO: PLAN NO. 1
DATE: MARCH 2023
SCALE: AS NOTED



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CLIENT INFO

CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE



CIVIL
DETAILS II

SHEET NAME:

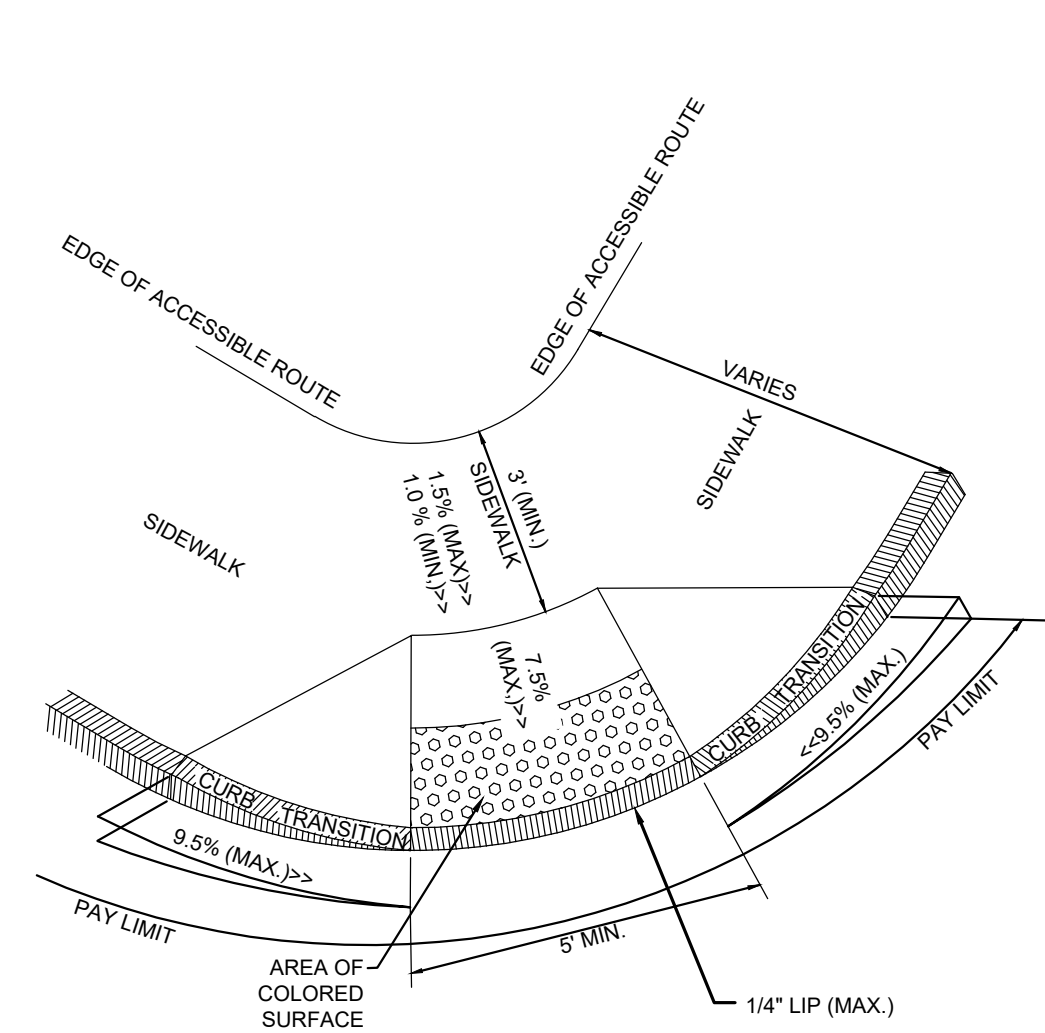
C-301

SHT NO:

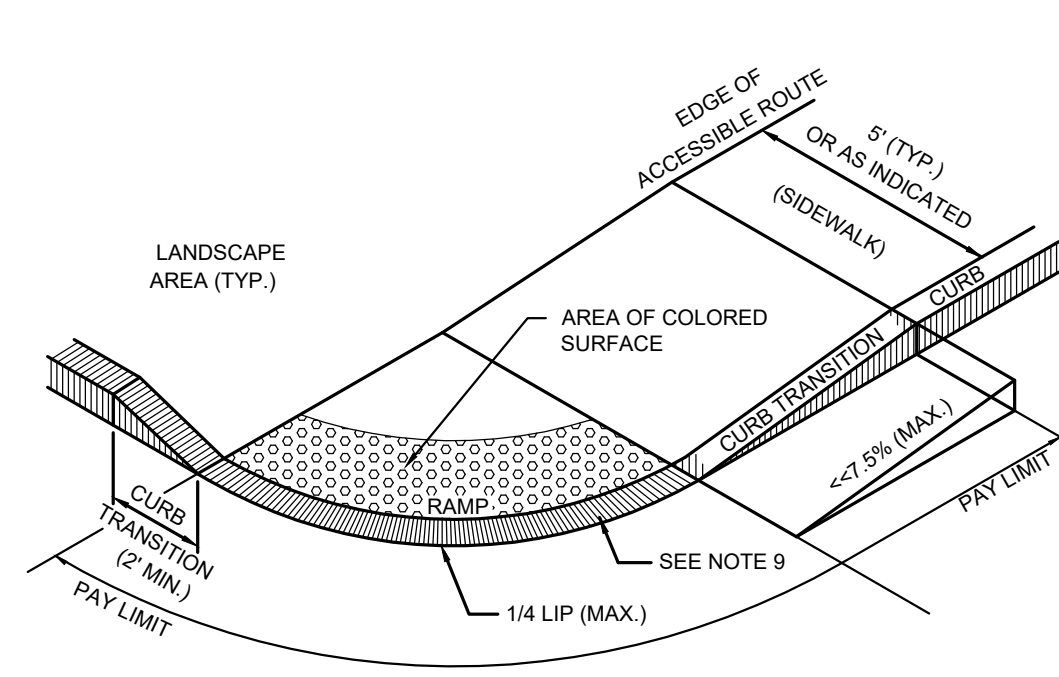
DR BY: BTP
CHK BY: JPB

PROJ NO: PLAN NO. 1
DATE: MARCH 2023

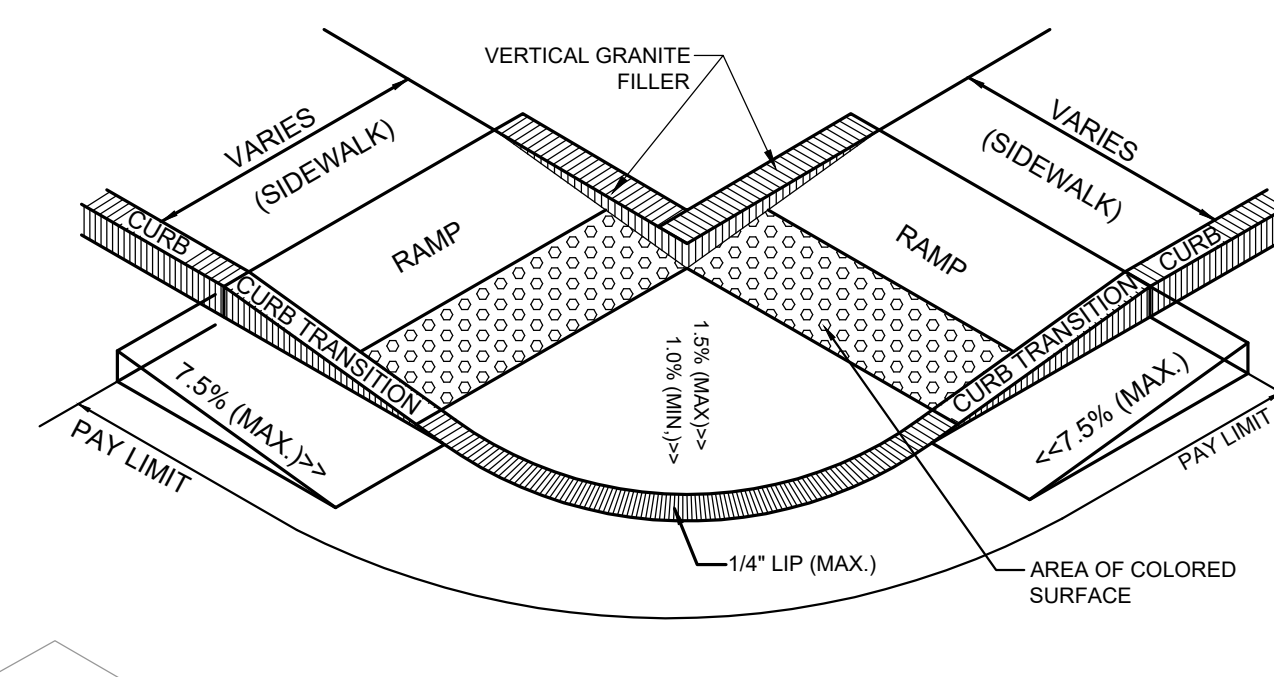
SCALE: AS NOTED



TYPE 'A'



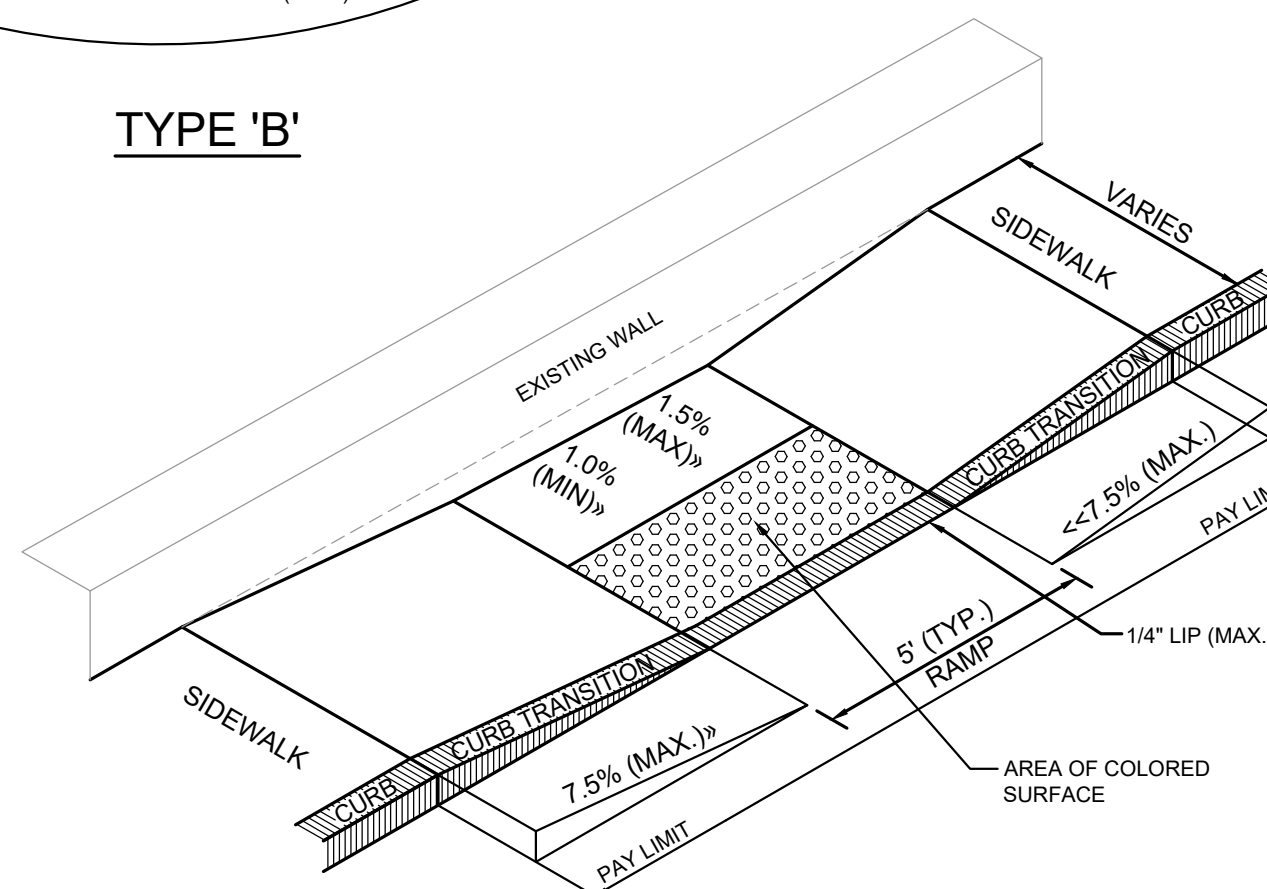
TYPE 'B'



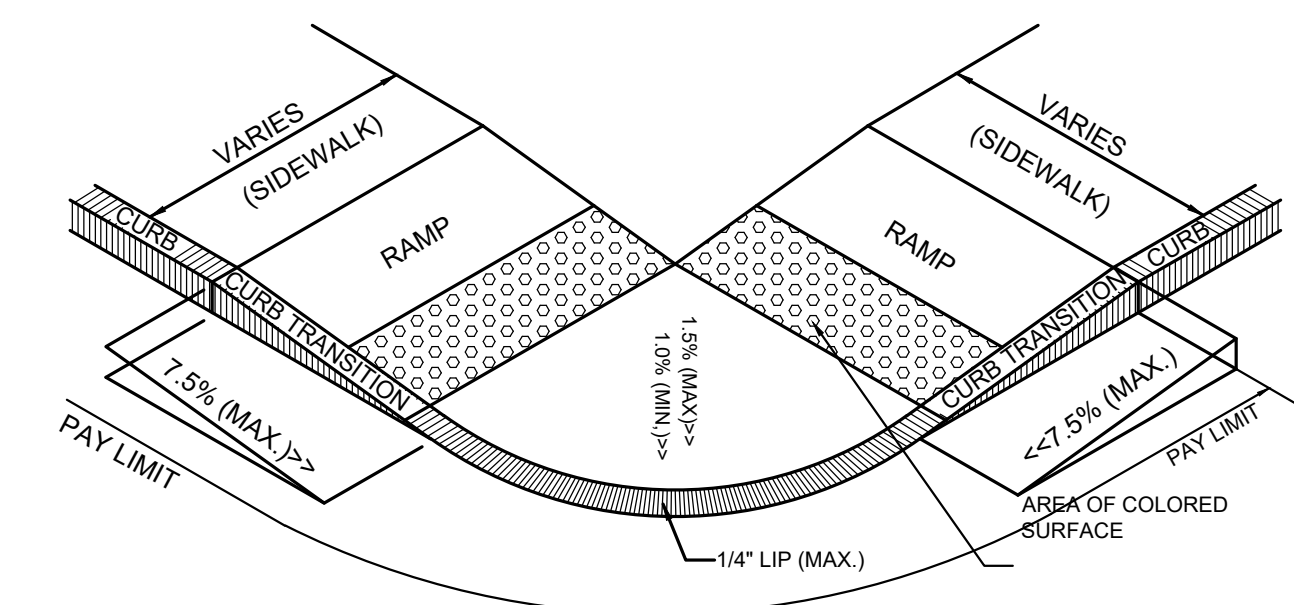
TYPE 'C'

NOTES:

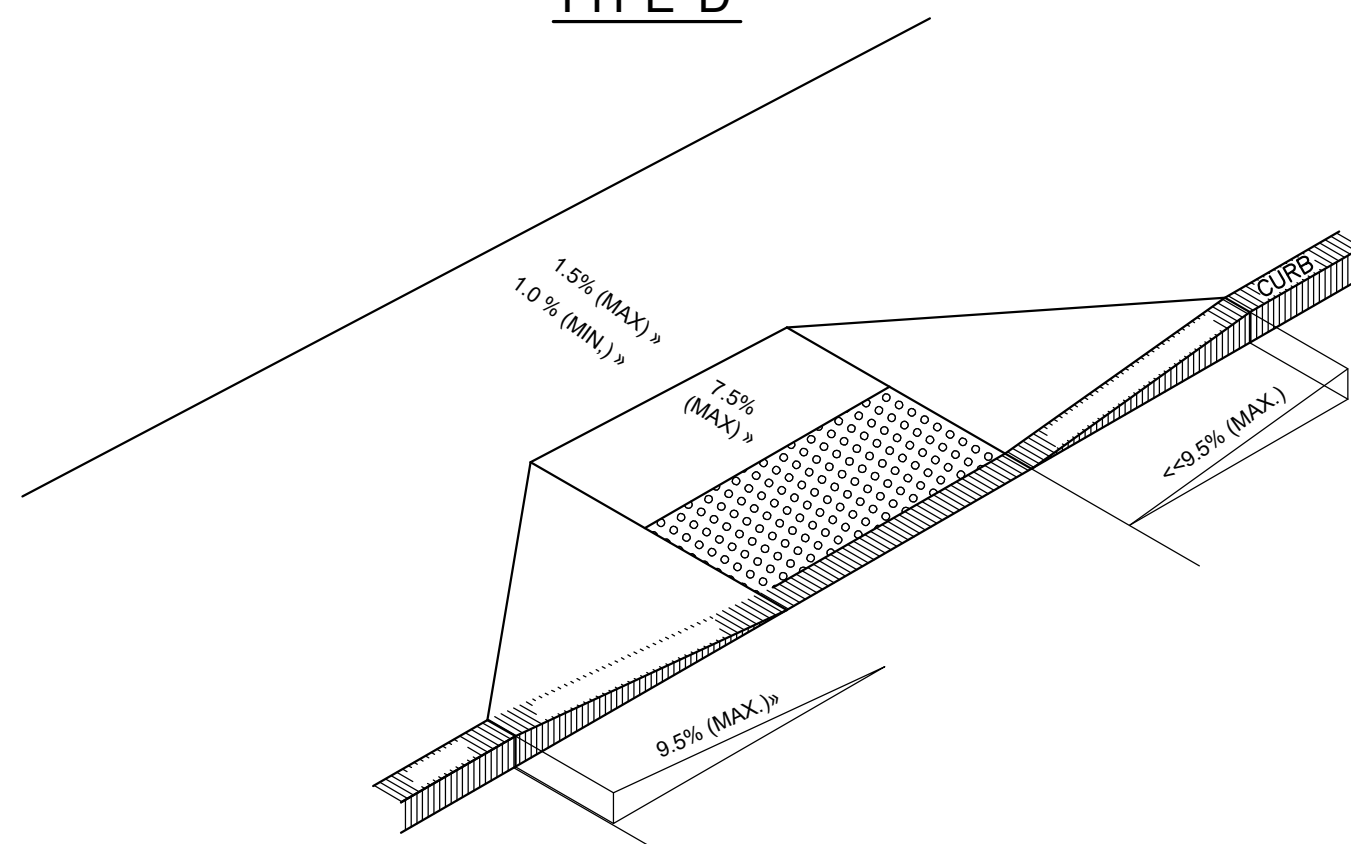
- THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN.)
- THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
- THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%.
- A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE, SIGNS, ETC.)
- BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
- DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.



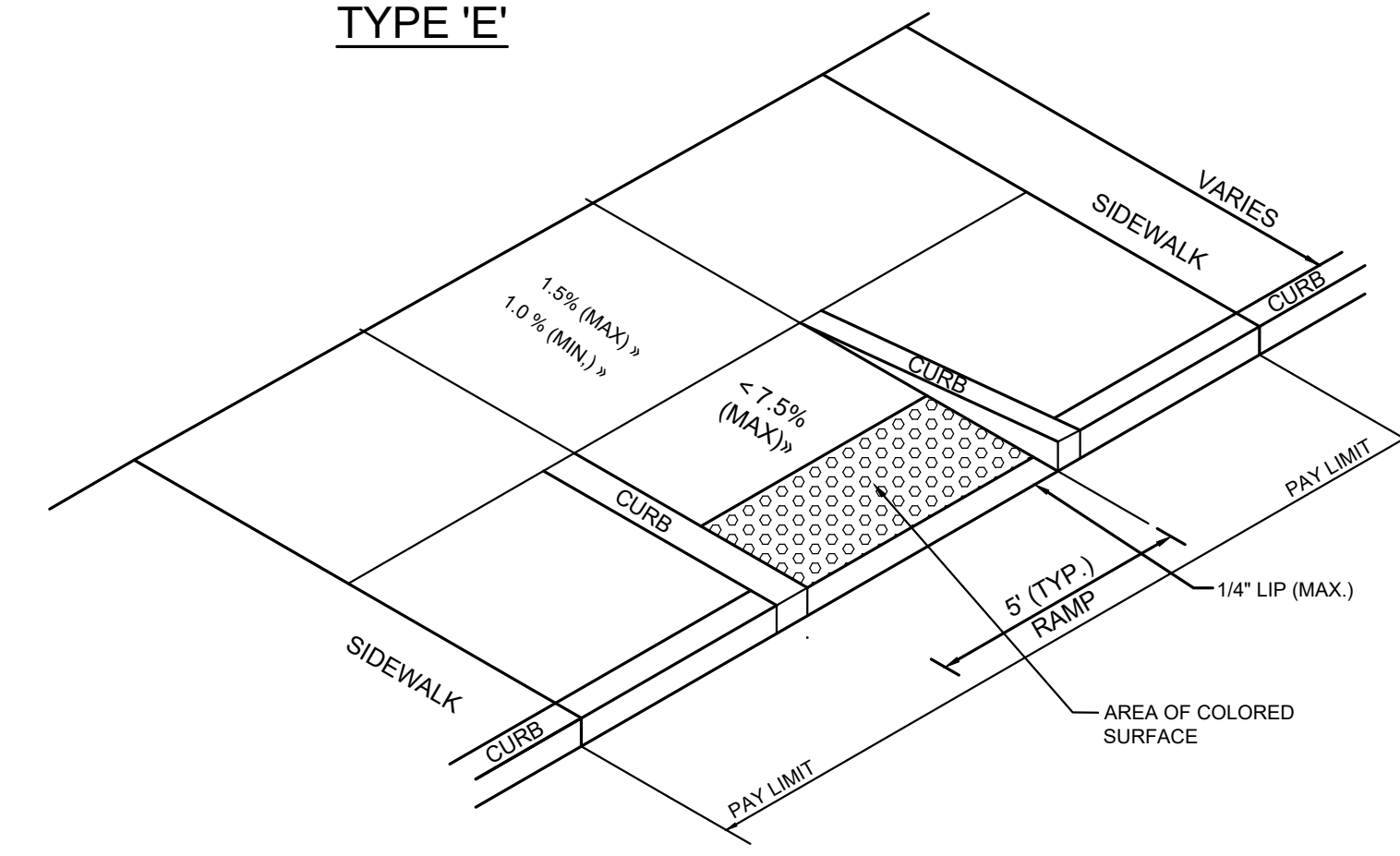
TYPE 'E'



TYPE 'D'



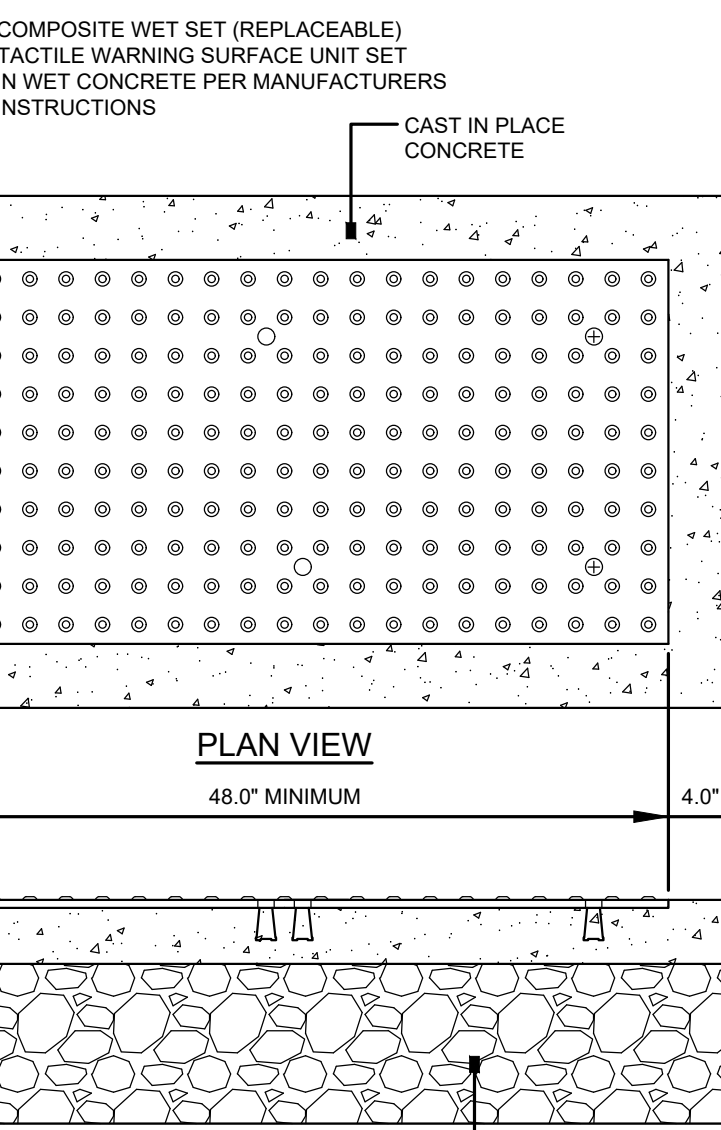
TYPE 'F'



TYPE 'G'

ACCESSIBLE CURB RAMPS (ACR)

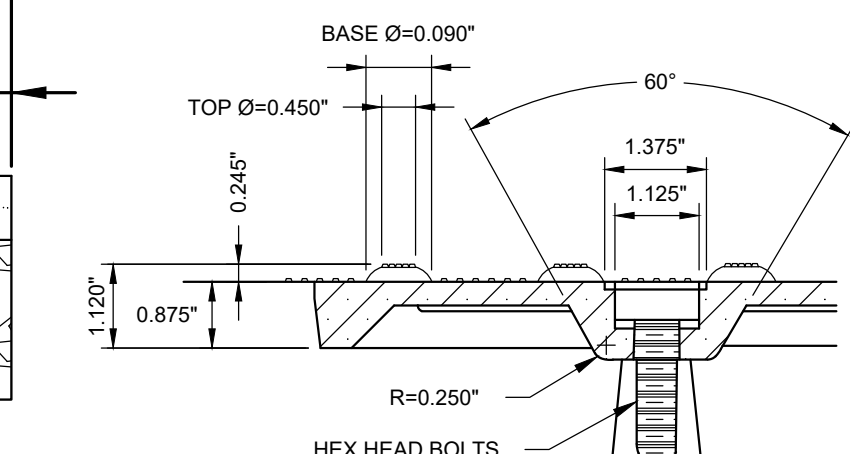
NOT TO SCALE



SECTION VIEW

NOTES:

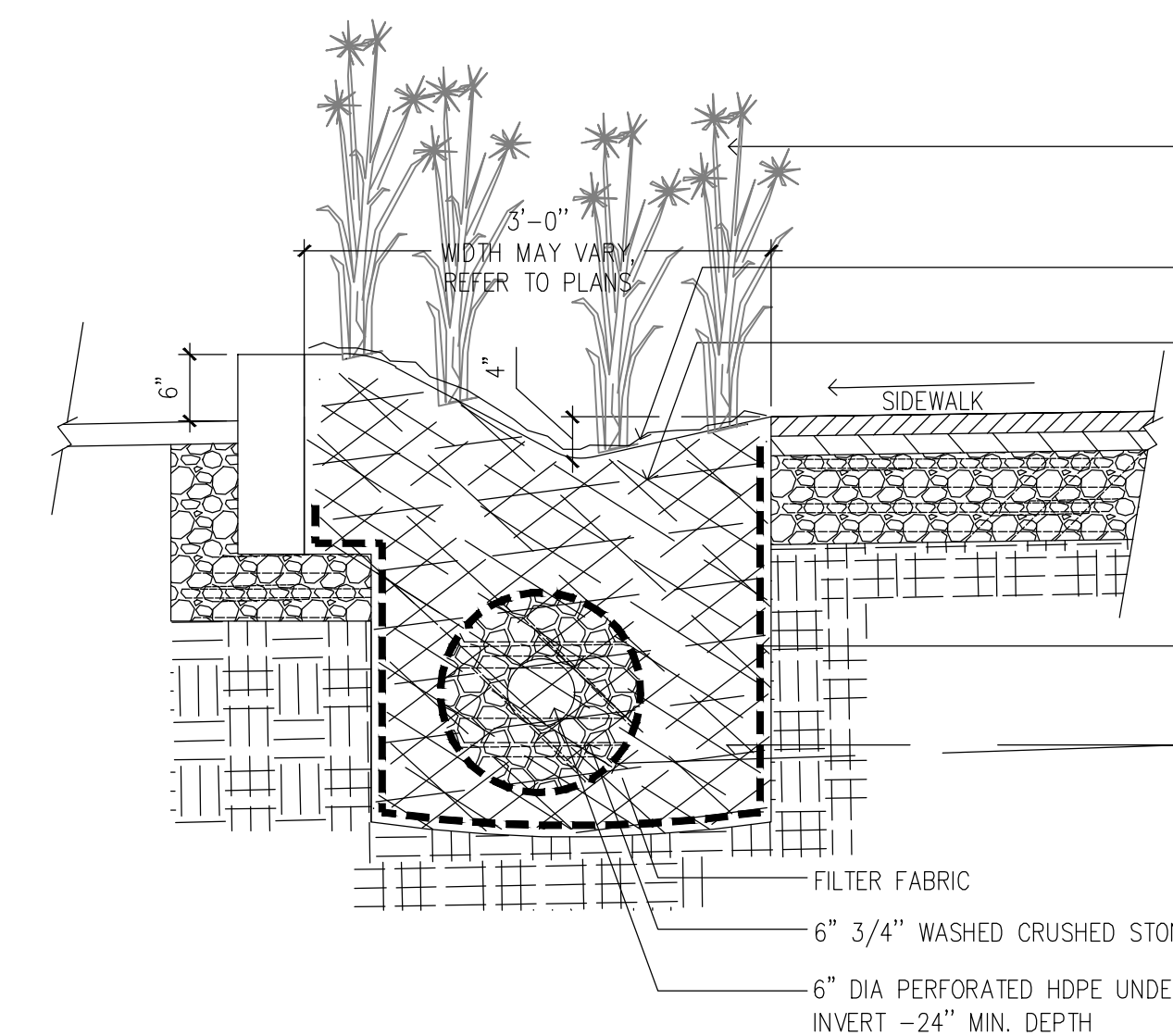
- COMPOSITE WET SET (REPLACEABLE) TACTILE WARNING SURFACE UNITS SHALL BE AS MANUFACTURED BY ADA SOLUTIONS, INC. (WWW.ADATILE.COM), OR APPROVED EQUAL.
- CAST IN PLACE CONCRETE SHALL MEET SPECIFICATIONS FOR M40 CLASS A STRUCTURAL CONCRETE, MINIMUM COMPRESSIVE STRENGTH 4,000 PSI. THE CONCRETE SHALL BE SEALED PRIOR TO SETTING PANELS. THE EXPOSED CONCRETE BORDER SHALL RECEIVE A GROOVED EDGE BETWEEN THE TILE AND CONCRETE, ALONG WITH A UNIFORM BROOM FINISH PERPENDICULAR TO THE FLOW OF PEDESTRIAN TRAFFIC.
- TRUNCATED DOMES SHALL BE ALIGNED IN ROWS, PARALLEL AND PERPENDICULAR TO THE PREDOMINANT DIRECTION OF TRAVEL. TRUNCATED DOME BRICKS AND GRANITE PAVERS ARE NOT ALLOWED.
- FOR ALL SIDEWALK RAMPS MADE OF CONCRETE OR ASPHALT, BRICK RED COLORED TILES SHALL BE USED. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.



BOLT DETAIL

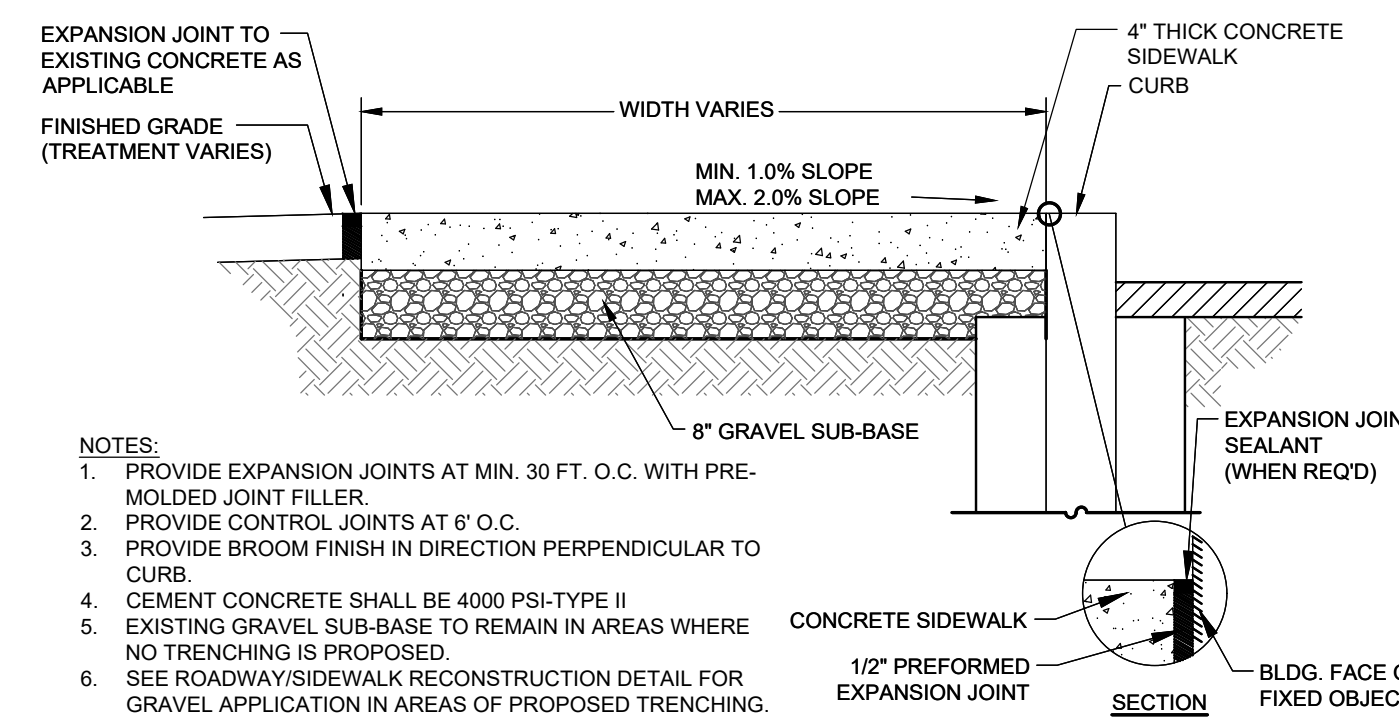
DETECTABLE WARNING PANEL

NOT TO SCALE



GRASSED BIO-SWALE

NOT TO SCALE

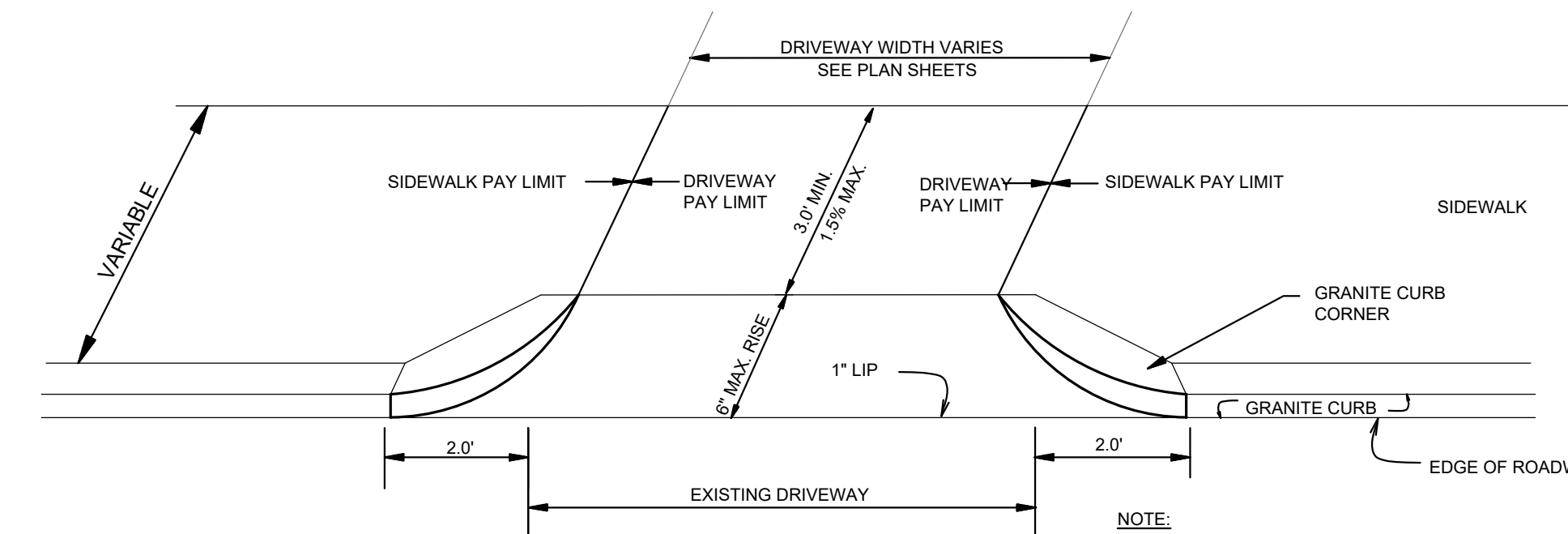


CEMENT CONCRETE SIDEWALK

NOT TO SCALE

NOTES:

- PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
- PROVIDE CONTROL JOINTS AT 8' O.C.
- PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
- CEMENT CONCRETE SHALL BE 4000 PSI-TYPE II
- EXISTING GRAVEL SUB-BASE TO REMAIN IN AREAS WHERE NO TRENCHING IS PROPOSED.
- SEE ROADWAY/SIDEWALK RECONSTRUCTION DETAIL FOR GRAVEL APPLICATION IN AREAS OF PROPOSED TRENCHING.



CEMENT CONCRETE DRIVEWAY

NOT TO SCALE

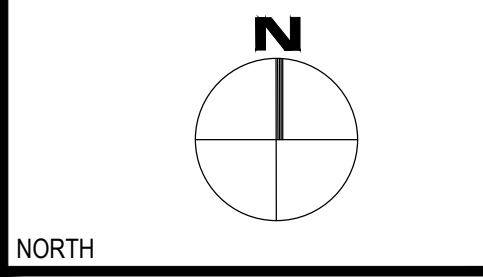
- NOTE:**
SEE TYPICAL CEMENT CONCRETE SIDEWALK DETAIL FOR SUB-BASE MATERIAL REQUIREMENTS

GRASSED BIO-SWALE

NOT TO SCALE

NOTES

1. BASE MAPPING OF THE PROJECT SITE IS A RESULT OF MASSGIS ORTHOIMAGERY AND AN ON THE GROUND SURVEY DONE BY WSP OF MERRIMACK, NH. LOCATIONS OF EXISTING SITE FEATURES SHALL BE CONSIDERED APPROXIMATE.
2. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK.
3. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ADJUTING LOTS.
4. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. CONTACT THE CITY OF SALEM FOR THE MARKING OF SALEM MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
6. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
7. CONTRACTOR SHALL REFER TO MASSDOT 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES FOR PRODUCT AND MATERIAL GUIDELINES.



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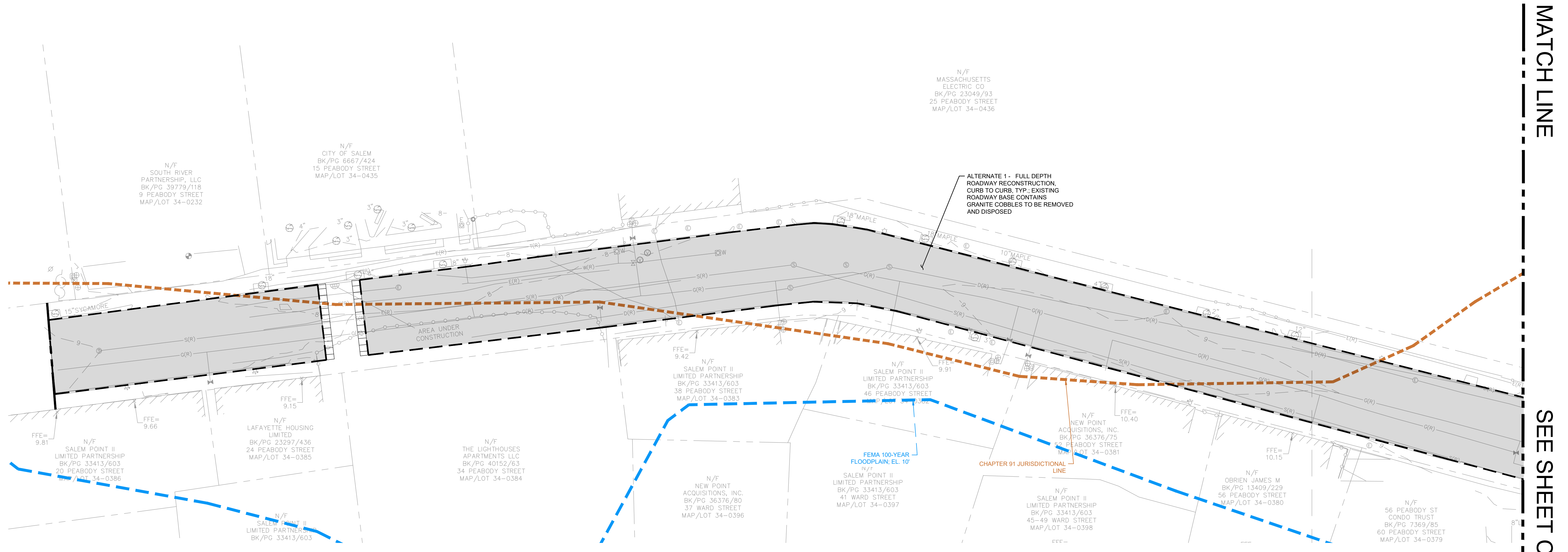
CITY OF SALEM
ENGINEERING
DEPARTMENT
98 WASHINGTON ST
SALEM, MA 01970

CLIENT INFO

**CONGRESS STREET
AREA SURFACE
IMPROVEMENTS**

PROJECT INFO

REV	DESCRIPTION	DATE



MATCH LINE

SEE SHEET C-401

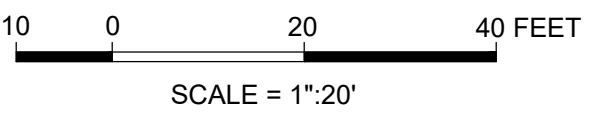
REV	DESCRIPTION	DATE

ALTERNATE 1-
PEABODY STREET
SURFACE
IMPROVEMENTS

SHEET NAME:

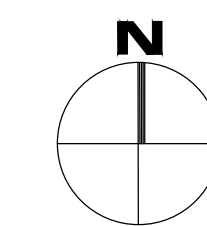
C-400

SHT NO:
DR BY: BTP
CHK BY: JPB
PROJ NO: 20-004.02
DATE: MARCH 2023
SCALE: 1"=20'



NOTES

1. BASE MAPPING OF THE PROJECT SITE IS A RESULT OF MASSGIS ORTHOIMAGERY AND SURVEY DONE BY WATERMAN DESIGN ASSOCIATES INC OF WESTBOROUGH, MA FROM OCTOBER 2015. LOCATIONS OF EXISTING SITE FEATURES SHALL BE CONSIDERED APPROXIMATE.
2. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK.
3. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS.
4. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. CONTACT THE CITY OF SALEM FOR THE MARKING OF SALEM MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
6. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
7. CONTRACTOR SHALL REFER TO MASSDOT 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES FOR PRODUCT AND MATERIAL GUIDELINES.



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SALEM, MA 01970

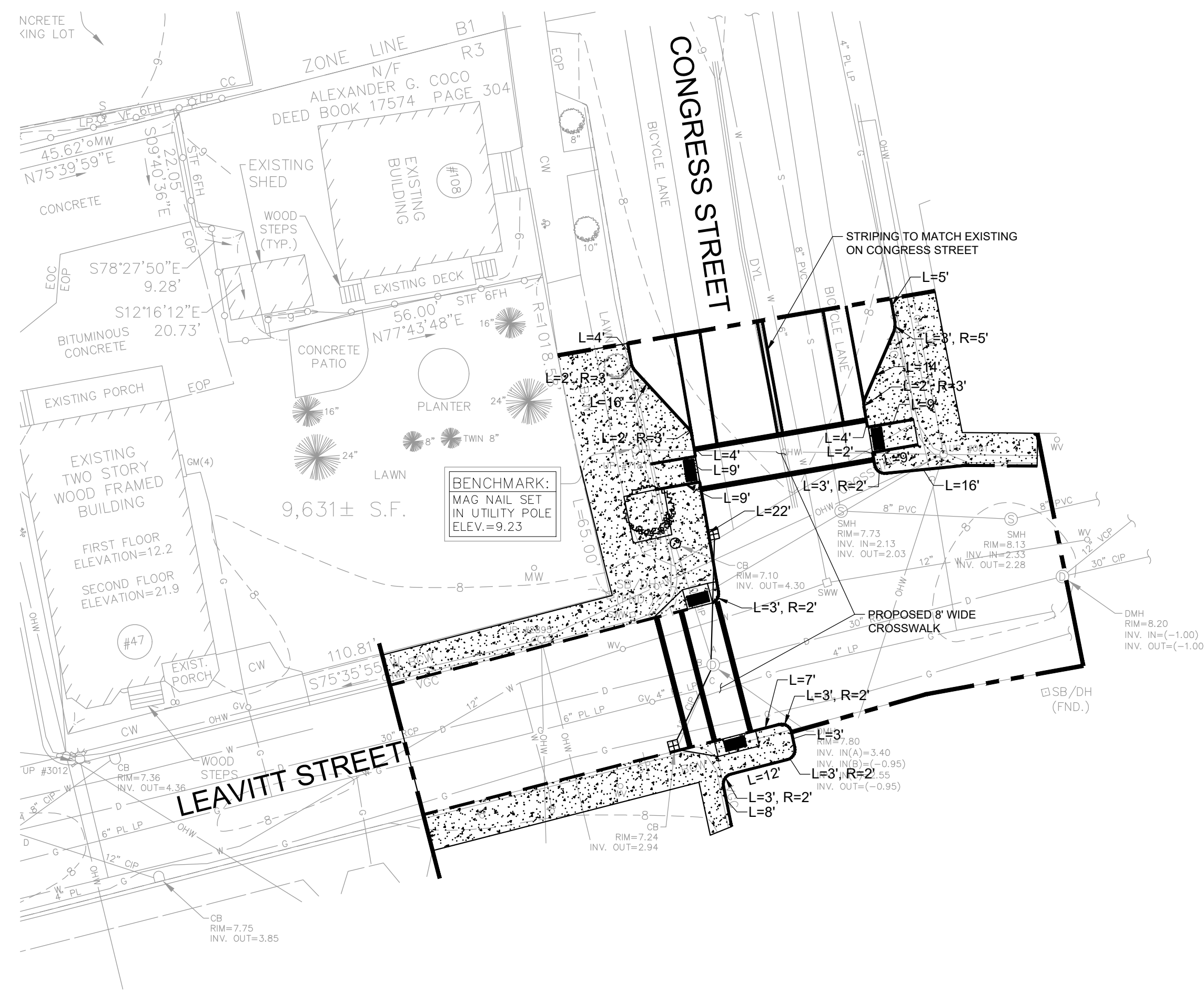
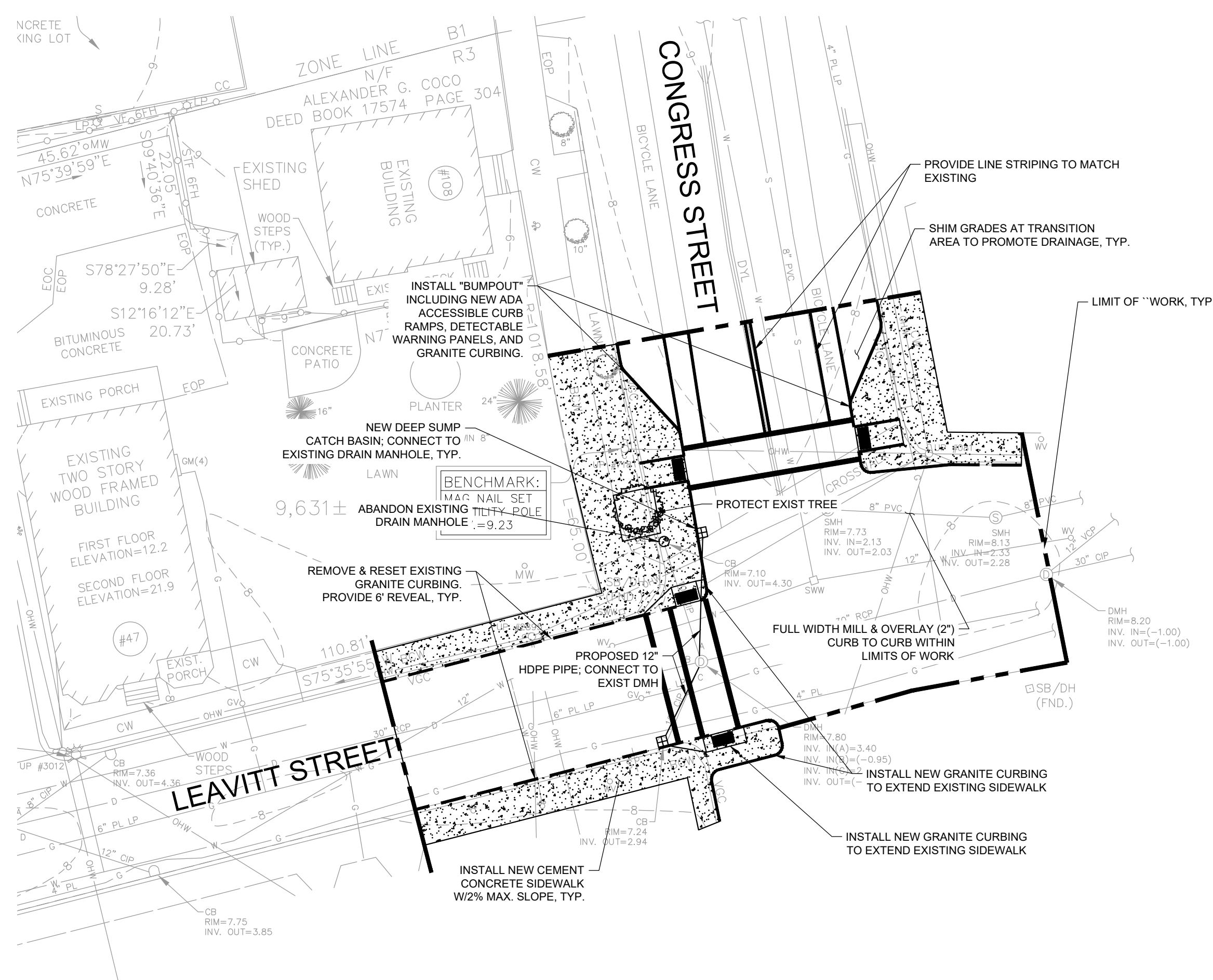
CLIENT INFO

CONGRESS STREET
AREA SURFACE
IMPROVEMENTS

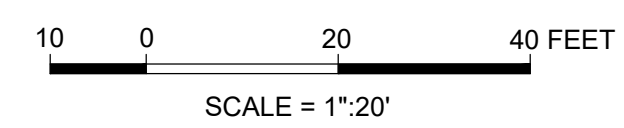
PROJECT INFO

REV	DESCRIPTION	DATE

REV DESCRIPTION DATE



CURB TIE & PAVEMENT MARKINGS
SCALE 1"=10'



ALTERNATE 2 -
LEAVITT AT
CONGRESS
STREET

SHEET NAME:
C-500

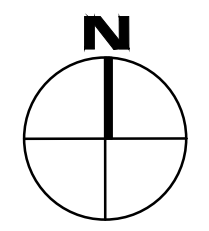
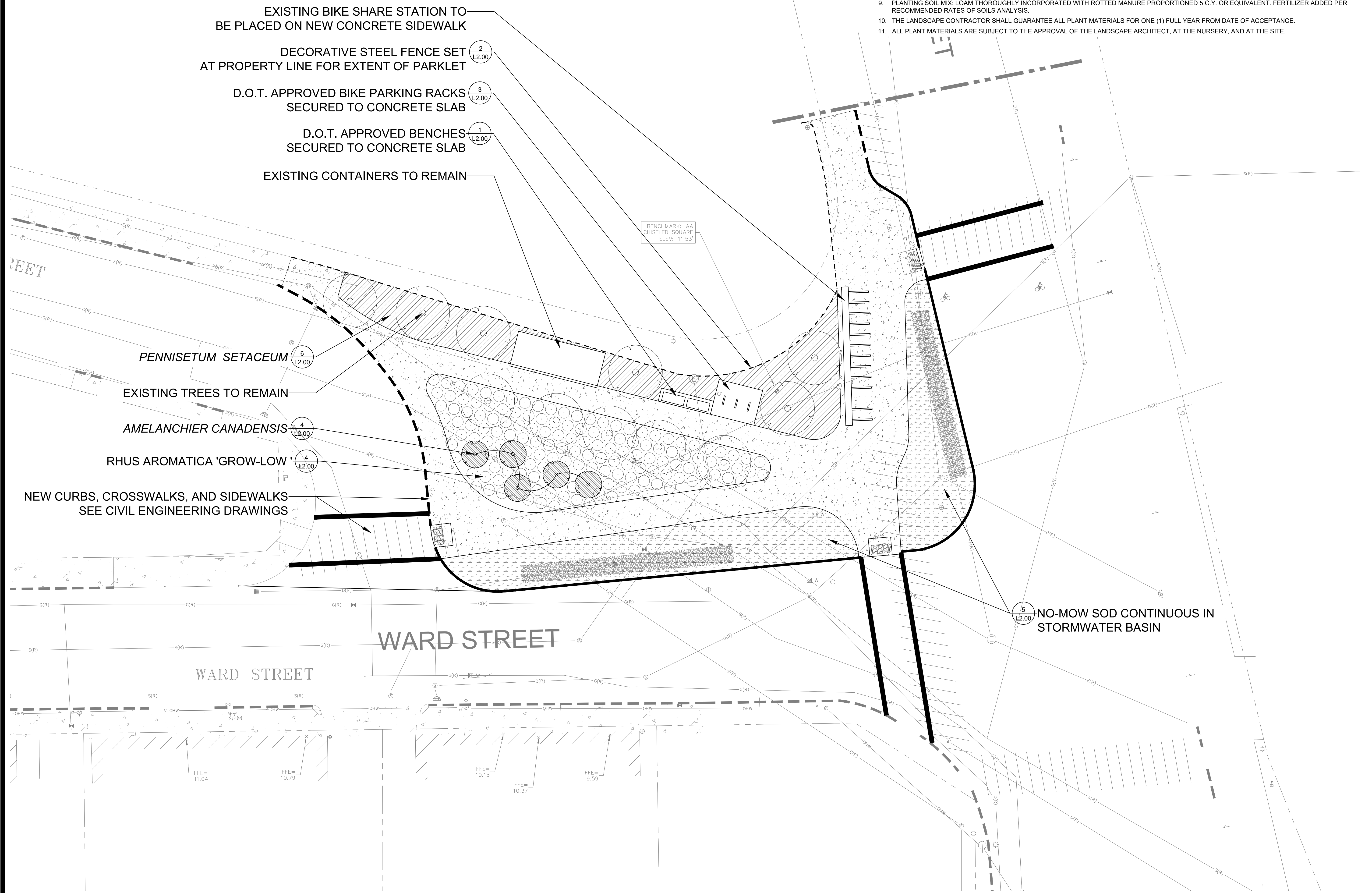
SHT NO:
DR BY: BTP
CHK BY: JPB
PROJ NO: 20-004.02
DATE: MARCH 2023
SCALE: 1"=20'

PLANT SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
LARGE SHRUBS					
5	<i>Amelanchier canadensis</i>	Shadblow Serviceberry	5' to 8' ht	BB	Multi-Stemmed
GROUND COVERS					
489	<i>Pennisetum setaceum</i>	Fountain Grass	1 gal	CONTAINER	18" O.C.
139	<i>Rhus aromatica</i> 'Grow-Low'	'Grow-Low' Fragrant Sumac	2 gal	CONTAINER	36" O.C.
1612 sq.ft.	<i>Festuca sp.</i>	No-Mow Fescue			SOD

NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL CONTACT DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
2. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF PLANT MATERIAL.
3. CONTRACTOR SHALL VERIFY ALL THE REMOVALS AND/OR TRANSPLANTS WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION START.
4. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THIS DRAWING.
5. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
6. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
7. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED
8. MULCH FOR PLANTED AREAS TO BE AGED PINE BARK, PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE FROM WOOD CHIPS THICKER THAN 1/2 INCH.
9. PLANTING SOIL MIX: LOAM THOROUGHLY INCORPORATED WITH ROTTED MANURE PROPORTIONED 5 C.Y. OR EQUIVALENT. FERTILIZER ADDED PER RECOMMENDED RATES OF SOILS ANALYSIS.
10. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
11. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.



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CLIENT INFO

CONGRESS STREET
SURFACE
IMPROVEMENTS

PROJECT INFO

REV	DESCRIPTION	DATE

PLANTING & FURNISHINGS PLAN

SHEET NAME:

L-1.00

SHT NO.:

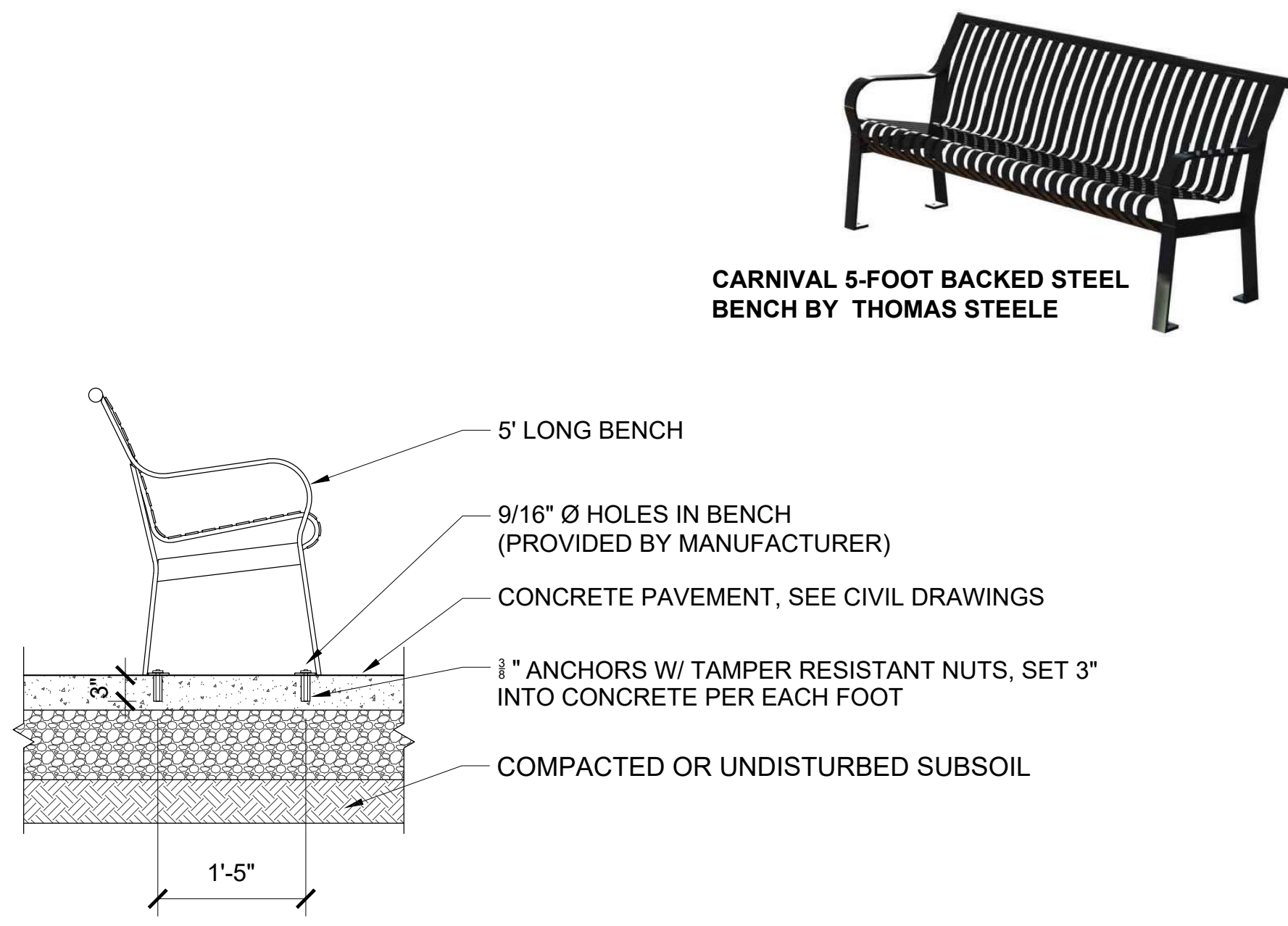
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CHK BY: CM

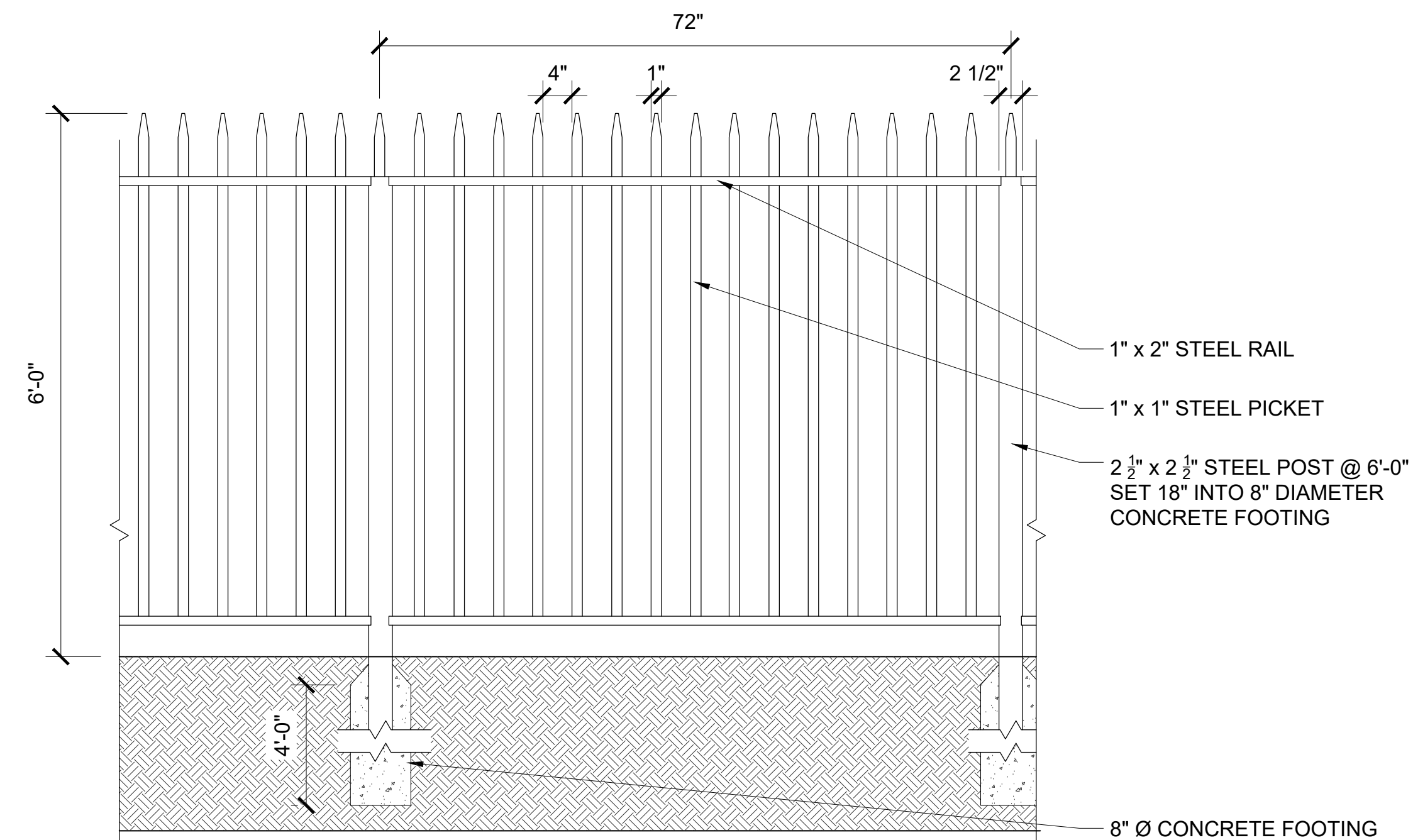
PROJ NO: 20-004.02

DATE: APRIL, 2023

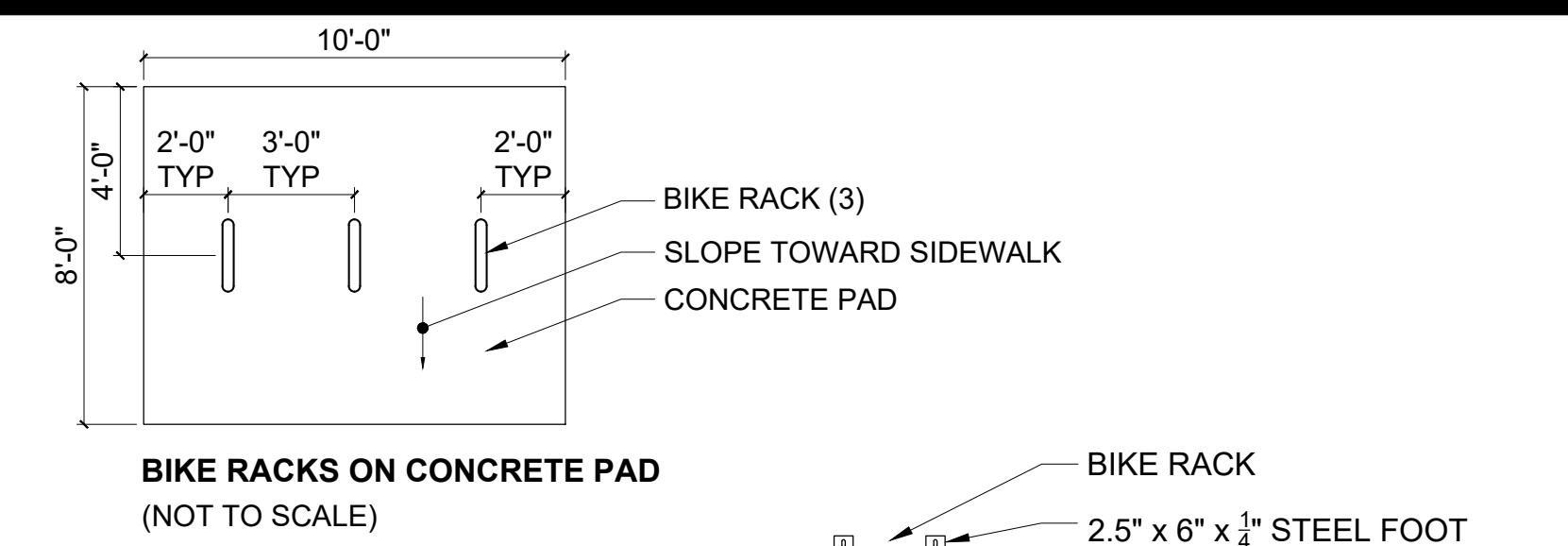
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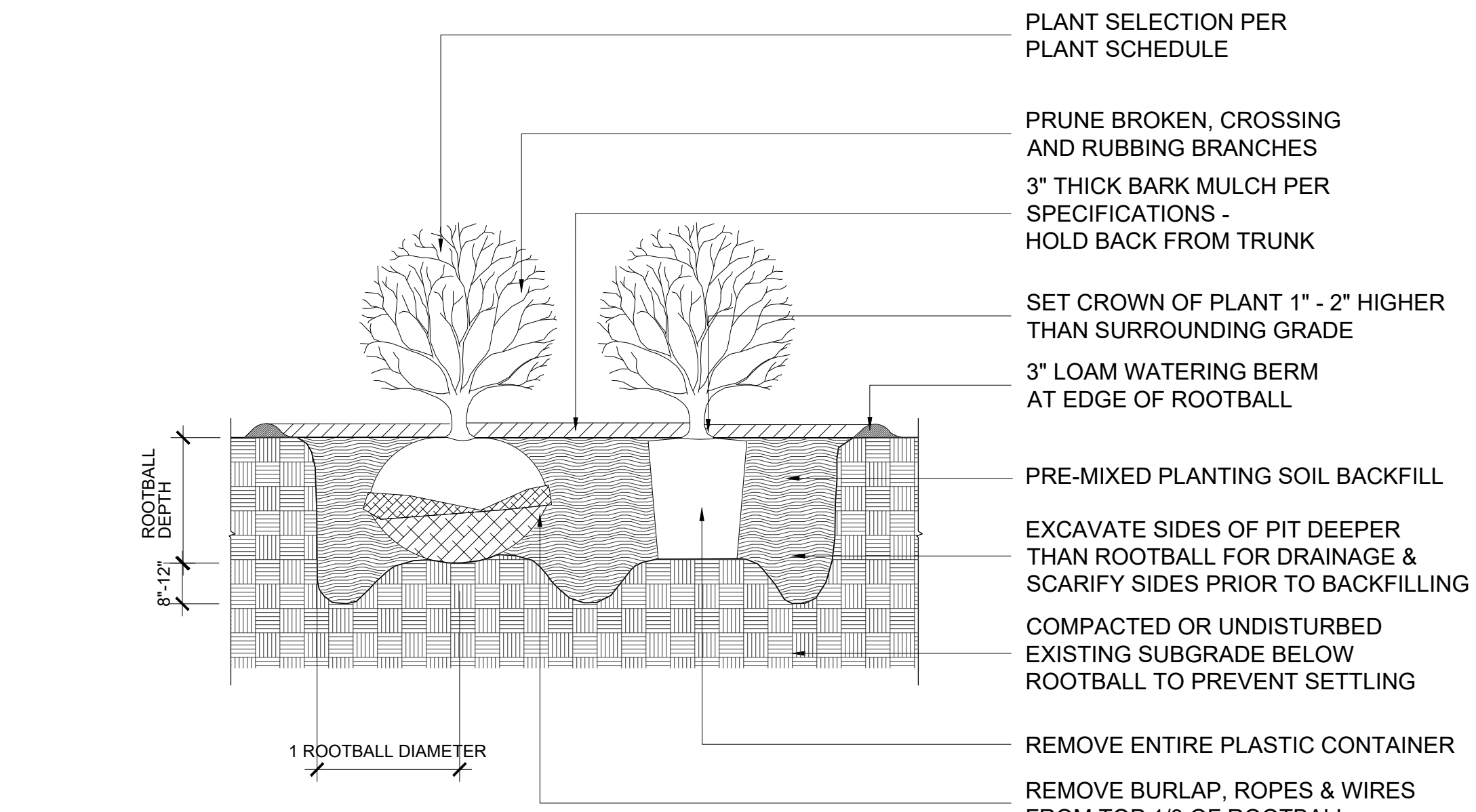
1 BENCH Scale: 3/4" = 1'-0"



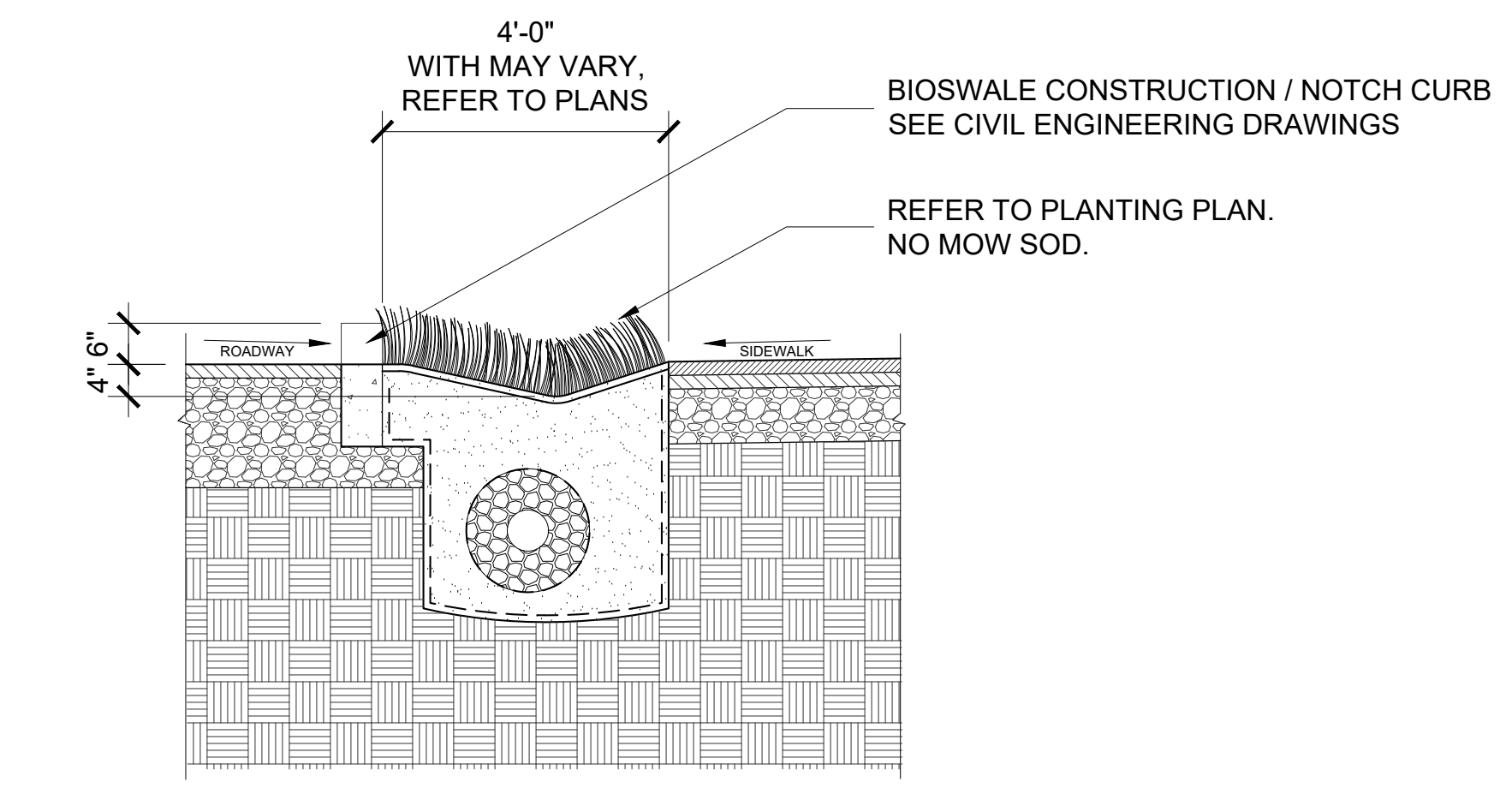
2 FENCE Scale: 3/4" = 1'-0"



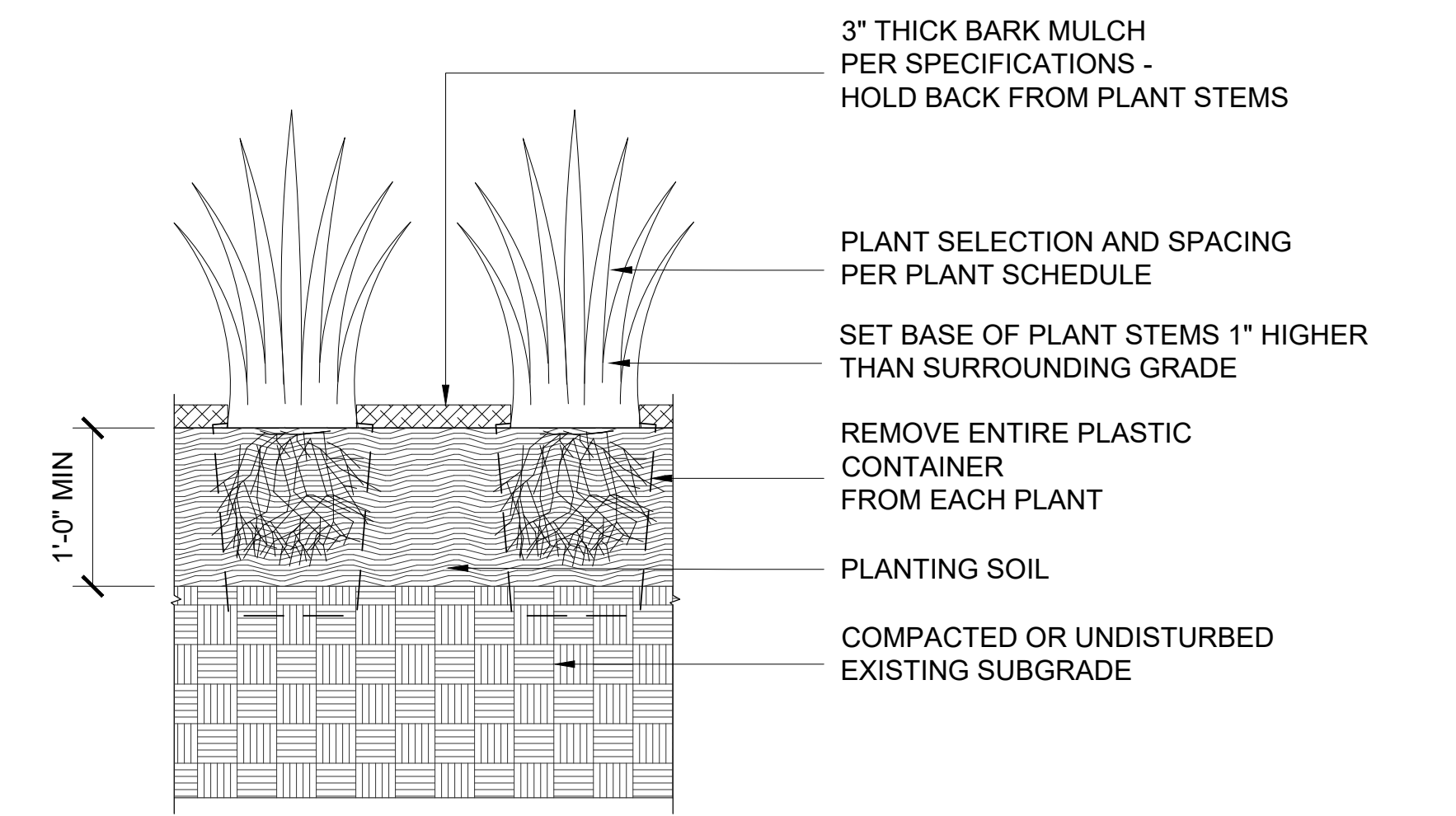
3 BIKE RACK Scale: 1/2" = 1'-0"



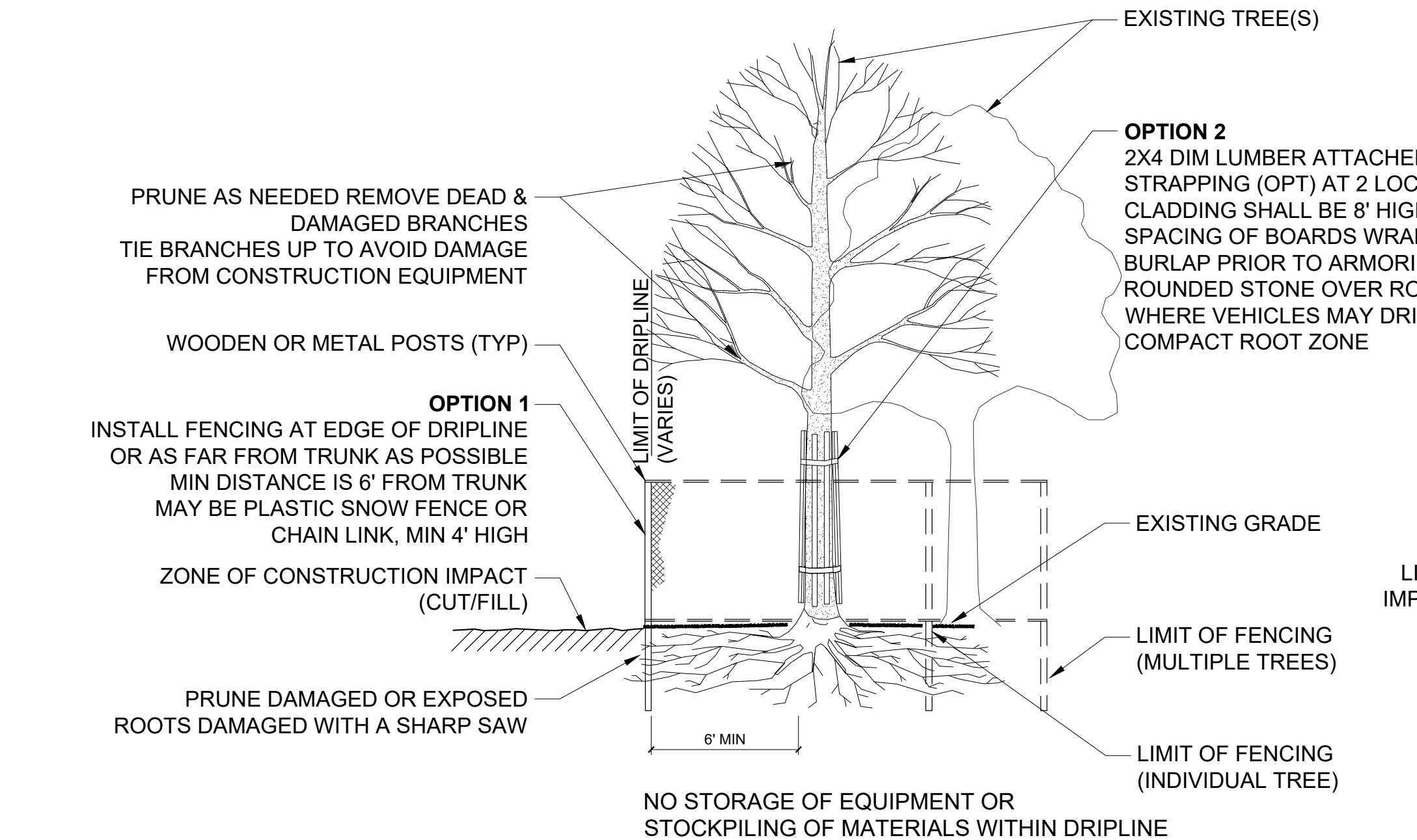
4 SHRUB PLANTING Scale: 3/8" = 1'-0"



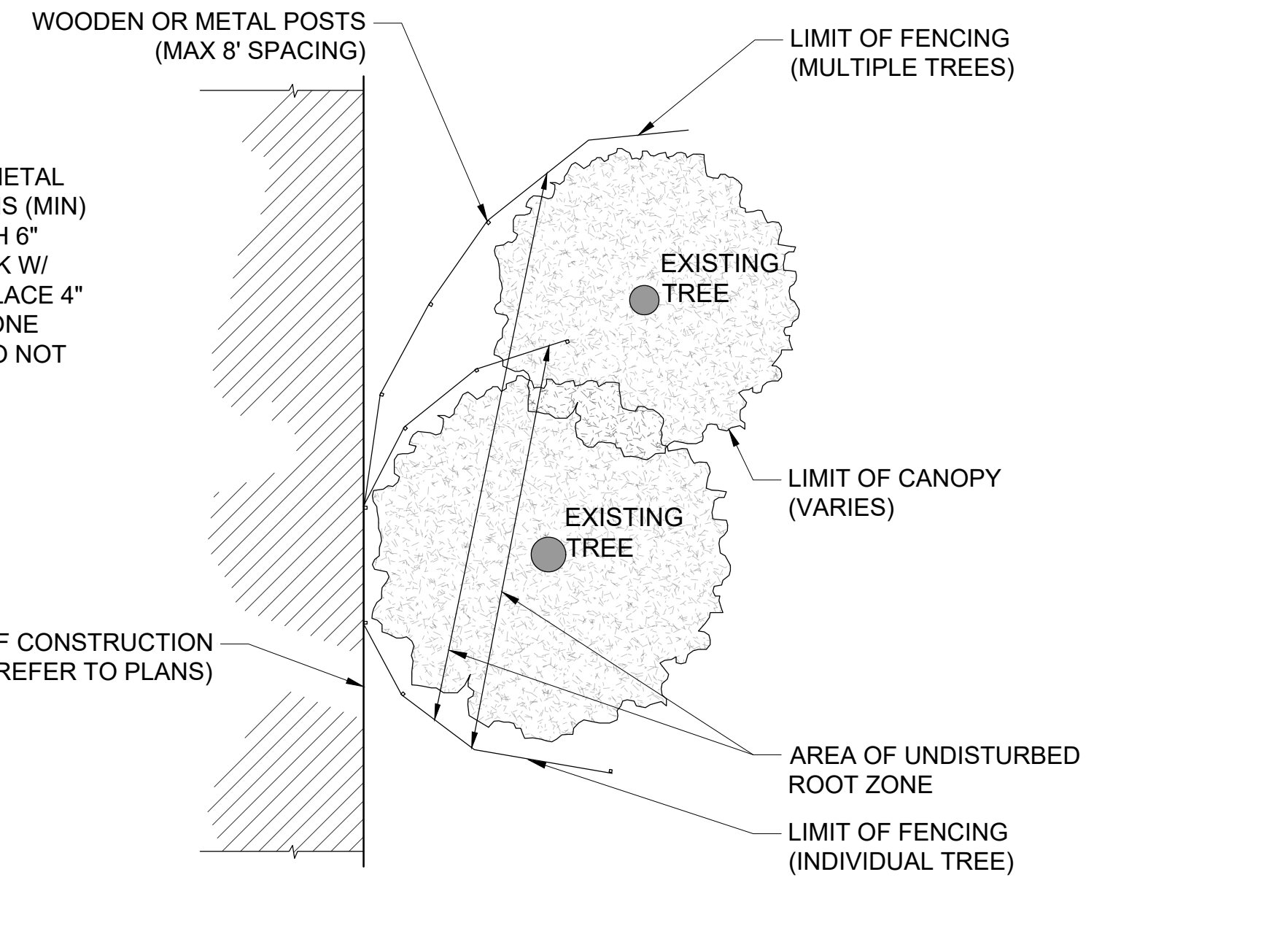
5 NO-MOW SOD PLANTING Scale: 1/2" = 1'-0"



6 ORNAMENTAL GRASSES PLANTING Scale: 1/2" = 1'-0"



8 TREE PROTECTION - EXISTING TREE(S) Scale: NTS



8 TREE PROTECTION - EXISTING TREE(S) Scale: NTS

REV	DESCRIPTION	DATE

DETAILS