

N.T.S.

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	CONSTRUCTION PLAN "A"
3	CONSTRUCTION PLAN "B"
4	CONSTRUCTION DETAILS
5	CONSTRUCTION DETAILS
6	TRAFFIC CONTROL PLAN

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION SHALL FORM THE BASIS OF THE CONTRACT. THIS SHALL BE AMENDED AND SUPPLEMENTED AS CONTAINED HEREIN AND ELSEWHERE IN THE AMENDED SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND PROPER GRADING OF ALL PROPOSED WORK.

3. THE CONTRACTOR SHALL PROVIDE ALL TOOLS, TRANSPORTATION, MATERIALS, LABOR, INSURANCE AND ALL ELSE NECESSARY FOR OR INCIDENTALS THERETO.

4. ADEQUATE WARNING SIGNS AND BARRICADES SHALL BE PLACED AROUND ALL EXCAVATIONS, FLASHING LIGHTS OR OTHER ILLUMINATION DEVICES SHALL BE EMPLOYED TO WARN MOTORIST AND PEDESTRIANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS THAT MEET THE REQUIREMENTS OF THE NJDOT REGULATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION WITH ANY UPDATES.

5. ALL EXISTING SIGNS SHALL BE REMOVED AND RESET DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED UNDER THE BID ITEM "CLEARING SITE".

6. ALL EXISTING VALVE BOXES SHALL BE REMOVED, AND OR RESET TO PROPOSED GRADE DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED UNDER THE BID ITEM "CLEARING SITE". THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR RESETTING OF ALL SAID BOXES AND FOLLOW THEIR INSTRUCTIONS IN THIS REGARD.

7. WORK HOURS FOR MONDAY THROUGH FRIDAY SHALL BE FROM 8:00AM - 5:00 PM. WORK ON SATURDAYS, SUNDAYS OR OTHER LEGAL HOLIDAYS IS PROHIBITED UNLESS PERMISSION IS GRANTED BY THE TOWN ENGINEER.

8. THE EXISTENCE OF UNDERGROUND UTILITIES IS KNOWN IN THE PROJECT AREA. THE CONTRACTOR SHALL NOT PROCEED WITH ANY EXCAVATION UNTIL HE HAS CONTACTED EACH OF THE UTILITY COMPANIES AND MUNICIPAL AUTHORITIES TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES. THIS SHALL INCLUDE THE MARKING OUT OF PHYSICAL LOCATION OF EACH UTILITY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL WASTE MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.

10. THE OWNER RESERVES THE RIGHT TO INCREASE OR DECREASE QUANTITIES AND TO ADD OR DELETE ITEMS AS REQUIRED.

11. EXISTING INLET CASINETS REMOVED SHALL REMAIN THE PROPERTY OF THE TOWN OF DOVER. THE CONTRACTOR SHALL DELIVER ALL INLET CASINETS TO THE DEPARTMENT OF PUBLIC WORKS GARAGE AT 211 NORTH SUSSEX STREET.

12. THE CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO ALL EXISTING DWELLINGS AND SHALL BE MAINTAINED DURING THE ENTIRE TIME OF CONSTRUCTION.

13. WHENEVER THE DRAWINGS INDICATE TO MEET EXISTING CONDITIONS, THE CONTRACTOR SHALL PROVIDE FOR A SMOOTH AND CONTINUOUS TRANSITION FROM PROPOSED TO EXISTING GRADES.

14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS. ADDITIONAL CONSTRUCTION ACTIVITIES FOR OBTAINING PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. THIS PLAN DOES NOT CARRY IN THE LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ANY UNDERGROUND FEATURE WHICH HAS NOT BEEN EXPPOSED FOR DIRECT MEASUREMENT.

16. THE PLANNIFIC FEAURES ON THIS MAP ARE A COMBINATION OF EXISTING TOWN TOPOGRAPHY MAPS DATED 1978 AND A FIELD INVESTIGATION. LOCATION OF ALL PHYSICAL FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL LOCATIONS AND ELEVATIONS SHALL BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL INFORMATION AND REPORT ALL DISCREPANCIES AT THE TIME OF BID.

17. NO MATERIAL OR EQUIPMENT IS TO BE STORED ON ANY STREET OR RIGHT OF WAY OVERNIGHT WITHOUT THE PERMISSION OF THE TOWN ENGINEER. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKDAY. ALL EQUIPMENT AND MATERIALS SHALL BE STORED IN ACCORDANCE WITH THE TOWN ENGINEER AND THE SUPERINTENDENT OF THE STREET DEPARTMENT.

18. THE CONTRACTOR SHALL PROVIDE ACCESS FOR AND COORDINATE WITH THE TOWN OF DOVER'S SOLID WASTE & RECYCLING HAULERS TO INSURE ACCESS FOR PICKUPS ON NORMALLY SCHEDULED PICKUP DAYS. FAILURE TO PROVIDE ACCESS WILL RESULT IN A PERCENT ADJUSTMENT FOR THE TOWN OF DOVER.

19. THE LOCATION OF ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

20. THE LOCATION OF THE PROPOSED DRAINAGE IS APPROXIMATE AND IS SUBJECT TO SLIGHT VARIATIONS BASED ON EXISTING FIELD CONDITIONS OR CONFLICTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR RELOCATING PROPOSED DRAINAGE FACILITIES WITHOUT EXPRESS PERMISSION FROM THE ENGINEER.

21. THE ELEVATIONS SHOWN ARE BASED ON TOWN OF DOVER TOPOGRAPHIC MAPS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS PRIOR TO CONSTRUCTION FOR POSSIBLE UTILITY CONFLICTS.

22. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH ALL UTILITY COMPANIES FOR THE RELOCATION OF ANY UTILITY MANS OR SERVICES, WHICH MAY BE IN CONFLICT OF THE PROPOSED DESIGN. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE COST DUE TO UTILITY CONFLICTS.

23. ALL GRADE ELEVATIONS ARE APPROXIMATE. ALL GRAITS SHALL BE SET AT OR SLIGHTLY BELOW THE EXISTING PAVEMENT ELEVATION TO ASSURE PROPER CURB SLOPE.

24. DRAINAGING OPERATIONS SHALL BE INCLUDED IN THE BID PRICES FOR ALL ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

25. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL BUILDING AND NATIONAL STANDARD PLUMBING CODES.

26. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ANY TRENCH EXCAVATION CONFORM IN ALL RESPECTS TO U.S.A. REGULATIONS FOR EXCAVATING, TRENCHING AND SHIELDING.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL ACTIVE SANITARY SEWER LATER INTO THE NEW PAVING. THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DETAILS PROVIDED. LATERAL CONNECTION SHALL BE PAID UNDER THE APPROPRIATE BID ITEM.

28. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SAFEGUARDS NECESSARY TO PROTECT THE PUBLIC SAFETY AND ADJOINING PROPERTIES.

29. THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN SHEETING, BRACING, SHORING AND OTHER SUPPORTS REQUIRED BY THE WORK. NO SEPARATE PAYMENT WILL BE MADE FOR PROVIDING SAME.

30. NO SEPARATE PAYMENT WILL BE MADE FOR PAYMENT CUTTING WITH A SAW AND THE COST THERETO SHALL BE INCLUDED IN THE VARIOUS ITEMS INCLUDED IN THE PROPOSAL. ACCIDENTAL CUTS ARE NOT PERMITTED FOR A MINIMUM.

31. THE CONTRACTOR SHALL PROVIDE ACCESS TO EXISTING DRIVEWAYS AT THE END OF EACH DAY OR DISRUPTION TO PROCEED WITH THE WORK.

32. HORIZONTAL AND VERTICAL CONTROL WILL NOT BE PROVIDED PRIOR TO CONSTRUCTION. ALL CONTROL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST.

33. ALL TRENCHES SHALL BE STABILIZED AT THE END OF EACH DAY AS PER PROVIDED CONSTRUCTION DETAILS.

34. ALL PROPERTY CORNERS OR MONUMENTS REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY A NEW JERSEY LICENSED LAND SURVEYOR, AT NO SEPARATE COST TO THE OWNER OR MUNICIPALITY.

35. ALL PAVEMENT RESTORATION ASSOCIATED WITH THE INSTALLATION OF NEW CURBING SHALL BE INCLUDED IN THE PRICE PER LINEAL FOOT OR COST PER LINEAL FOOT OF PIPE.

36. ALL BACKFILL AND PAVEMENT RESTORATION ASSOCIATED WITH THE INSTALLATION OF PROPOSED DRAINAGE SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF PIPE.

37. THE CONTRACTOR SHALL INSPECT ALL ROADWAYS AFTER MILLING AND PRIOR TO PAVING TO INSPECT THE ROADWAY FOR HOT SPOTS OR AREAS OF POOR SUBGRADE. PRIOR TO PAVING ALL AREAS OF POOR SUBGRADE SHALL BE IDENTIFIED AND PROPERLY RECONSTRUCTED WITH A NEW ASPHALT BASE. THE MAINTENANCE BOND PERIOD SHALL BE RESPONSIBLE TO REPAIR ALL PAVEMENT FAILURES AFTER THE SURFACE COURSE OF PAVEMENT HAS BEEN INSTALLED FOR THE LENGTH OF THE MAINTENANCE BOND PERIOD AT NO ADDITIONAL COST TO THE MUNICIPALITY.

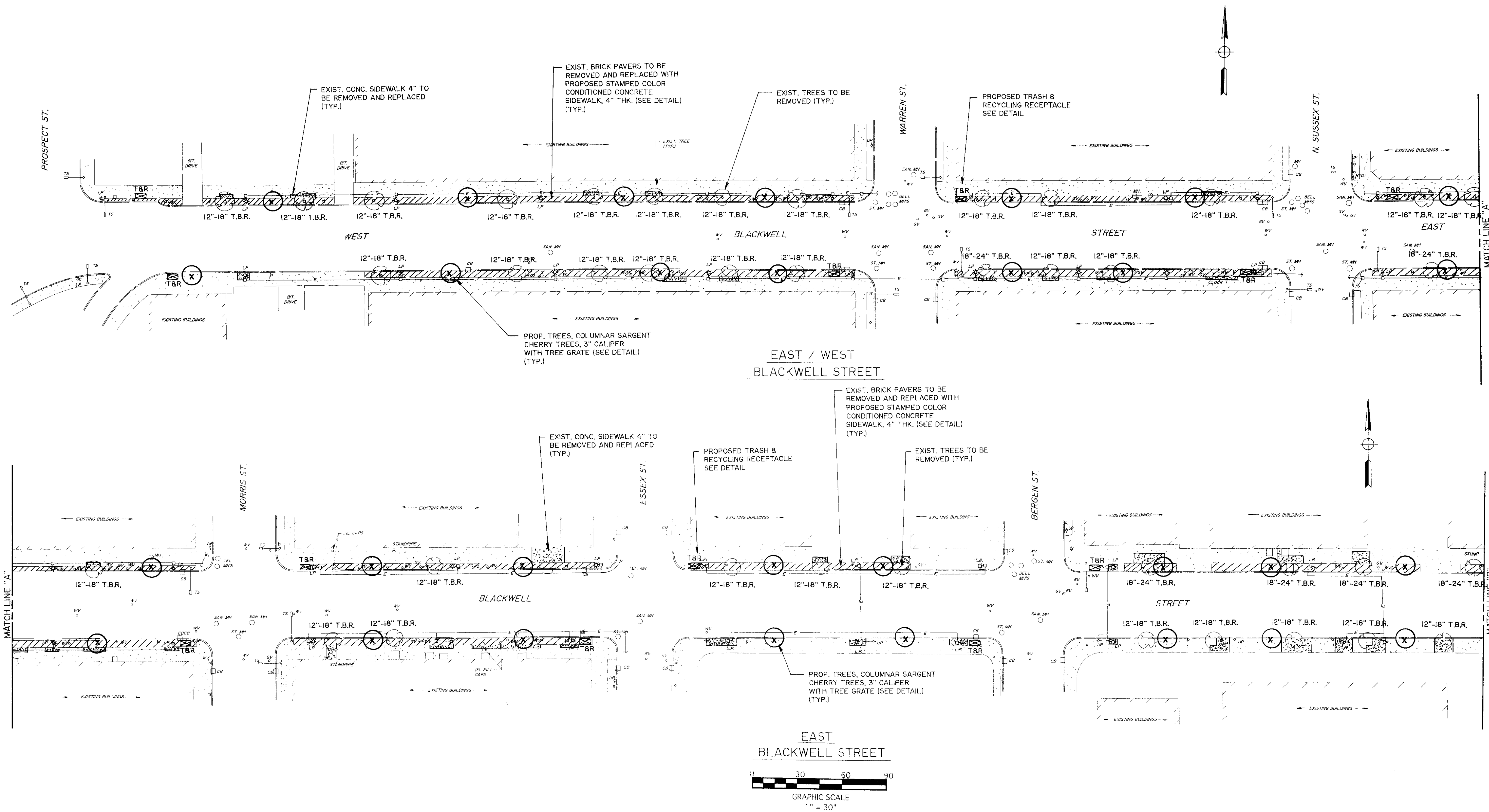
ITEM NBR.	REFER. SECT.	UNIT MEAS.	QTY.	DESCRIPTION
1	159	L.S.	1	Maintenance & Protection of Traffic
2	201	L.S.	1	Clearing Site
3	801	L.F.	75	4" Sch. 40 PVC leader Drain
4	606	S.F.	4,500	Concrete Sidewalk, 4" Thk.
5	606	S.F.	450	Concrete Sidewalk, 6" Thk.
6	606	S.F.	14,000	Stamped Color Conditioned Concrete Sidewalk, 4" Thick
7	607	L.F.	100	9" x 18" Concrete Vertical Curb
8	607	L.F.	250	Granite Block Curb
9	612	S.F.	30	Regulatory & Warning Signs W/Posts
10	613	Unit	40	Tree Grate
11	614	Unit	16	Garbage & Recycling Container
12	851	Unit	15	Reset Water Curb Box and Stop
13	804	Unit	36	Tree Removal Over 12" to 18" Dia.
14	804	Unit	8	Tree Removal Over 18" to 24" Dia.
15	804	Unit	6	Stump Removal, over 12" - 18" Dia.
16	811	Unit	40	Trees, Columnar Sargent Cherry Trees, 3" Calliper

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SHEET 1 OF 6 REVISION: \_\_\_\_\_

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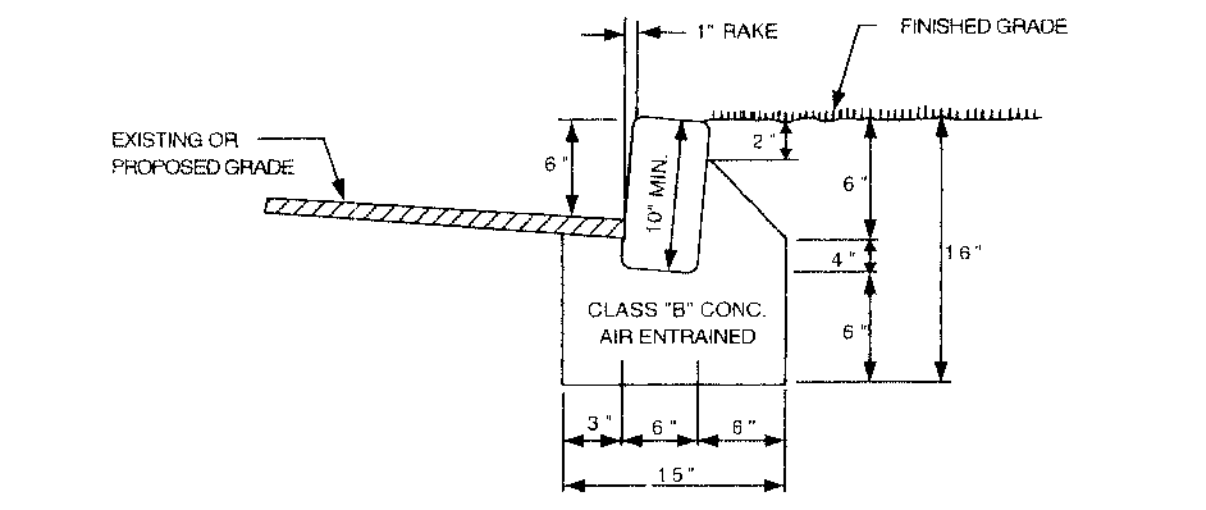


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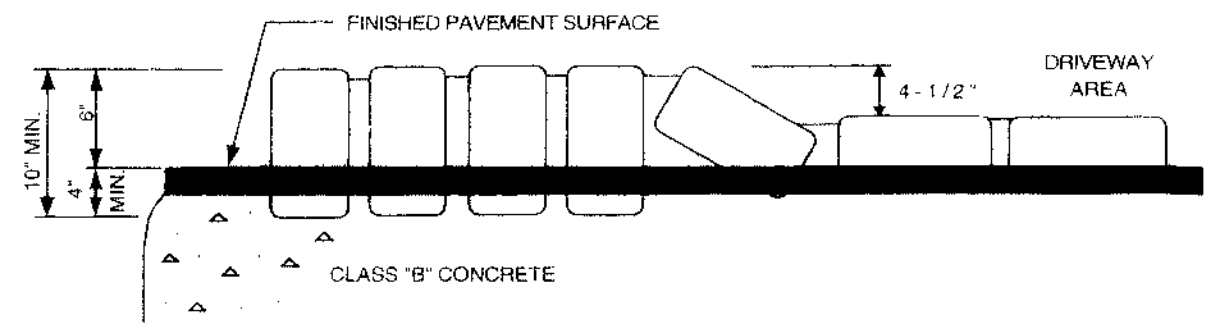
<b>TOWN OF DOVER</b> <b>ENGINEERING DEPARTMENT</b> MAIL: 37 N. SUSSEX STREET OFFICE: 100 PRINCETON AVENUE DOVER, NEW JERSEY 07801 TEL: (973) 366-2200 ext. 2154/2152 FAX: (973) 366-0039 Michael A. Hantson, PE, PP, CME - Town Engineer William J. Isselin - Assistant		<b>CONSTRUCTION</b> <b>PLAN "A"</b> CONSTRUCTION PLANS FOR EAST/WEST BLACKWELL ST. SIDEWALK & TREE IMPROVEMENTS TOWN OF DOVER MORRIS COUNTY, NJ	
PROJECT NO.	2017-02	SCALE:	1" = 30'
DATE:	6-30-17	SHEET	2 OF 6
REVISION:		REVISION:	



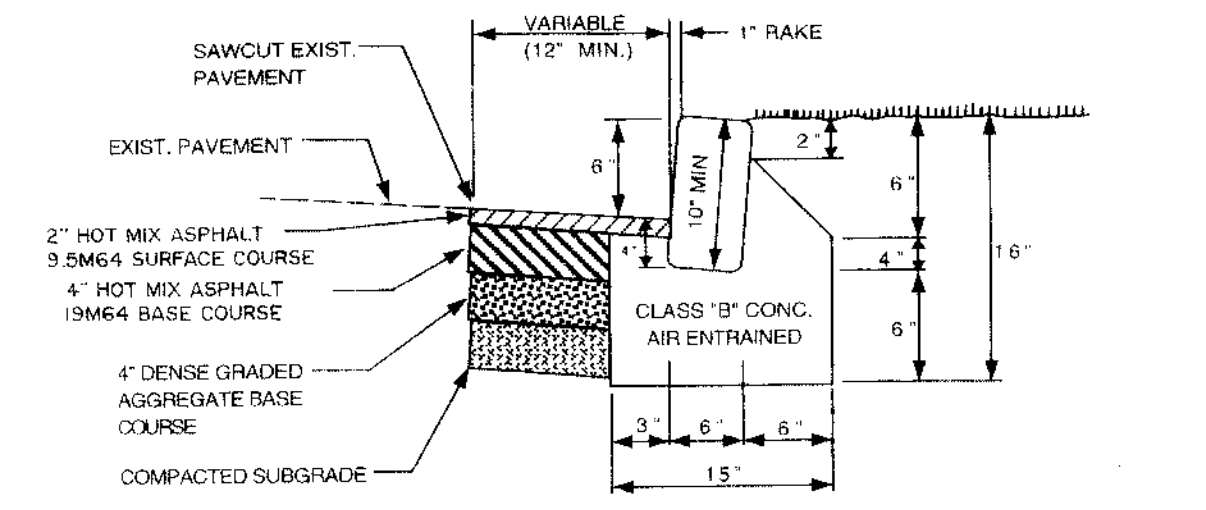




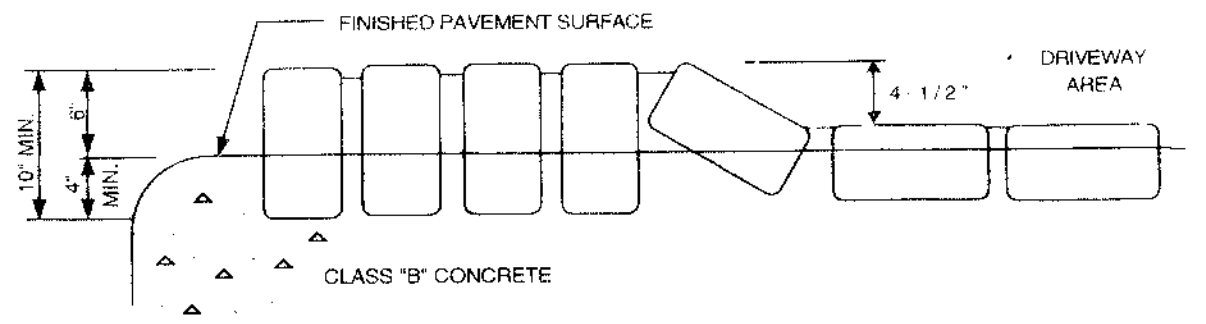
**NOTES:**  
 1. DENSE GRADED AGGREGATE BASE COURSE SHALL BE USED IF REQUIRED TO MAKE ANY GRADE ADJUSTMENTS.  
 2. JOINTS ARE TO BE 3/4" WIDE AND POINTED WITH 1:2 MIX CEMENT MORTAR. JOINTS TO BE CLEANED PRIOR TO POINTING.



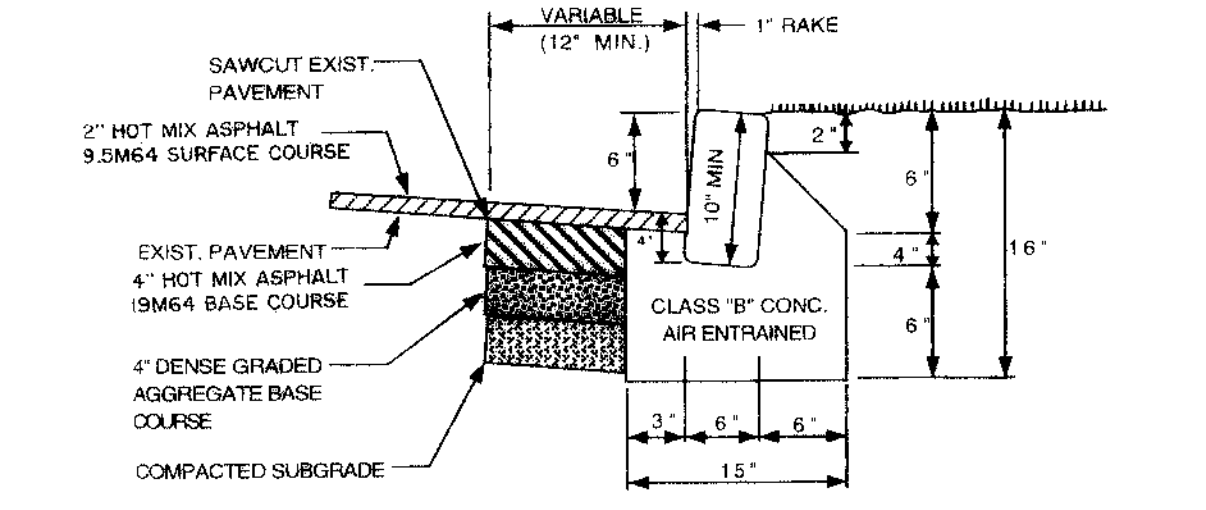
### GRANITE BLOCK CURB



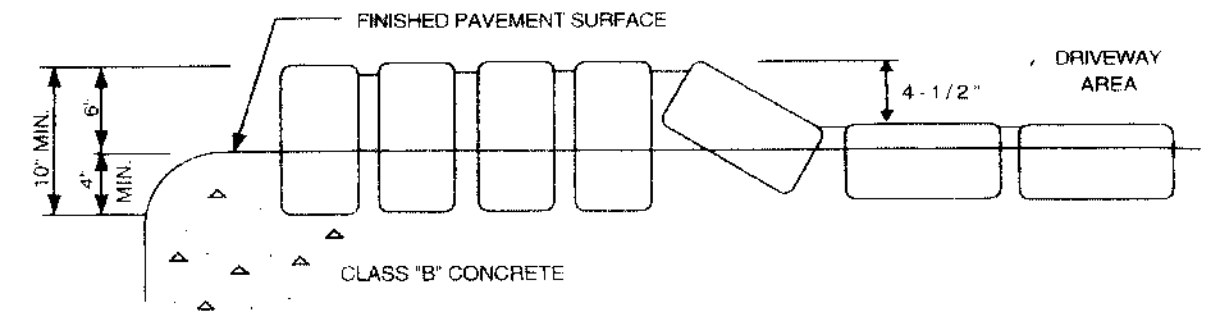
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### GRANITE BLOCK CURB / PAVEMENT RESTORATION

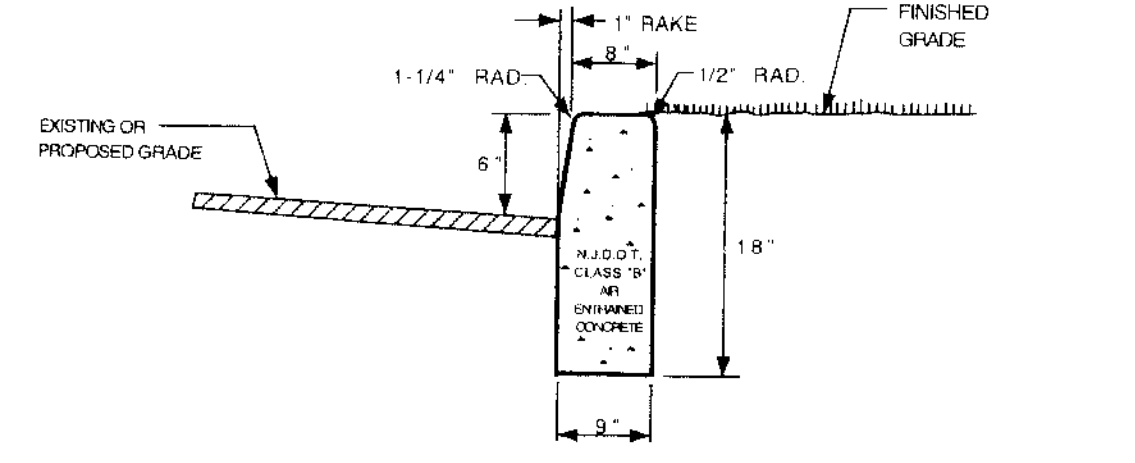


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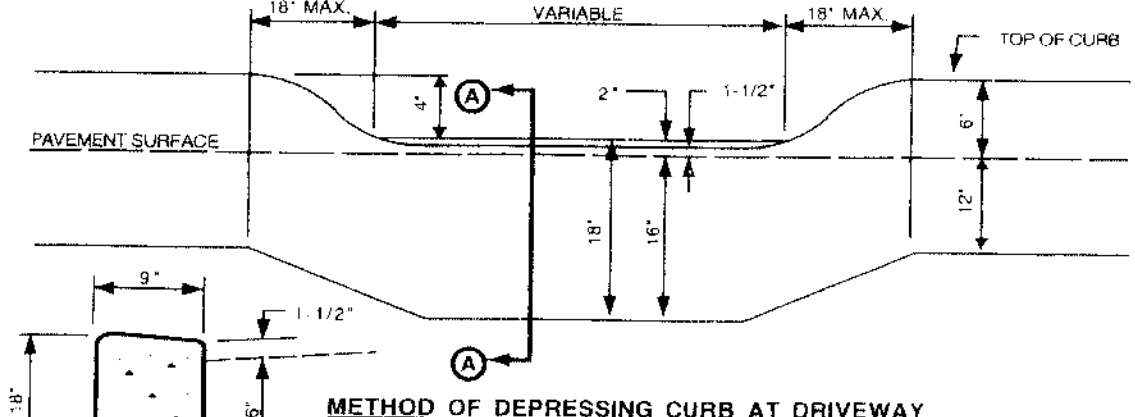


### GRANITE BLOCK CURB / PAVEMENT RESTORATION

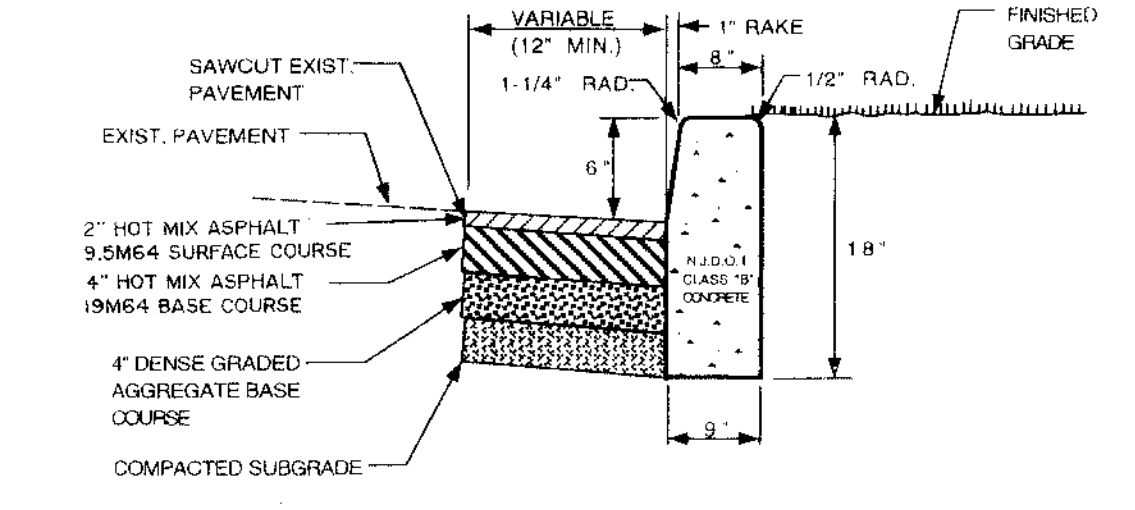
**CURB NOTE:**  
 THE COST FOR PAVEMENT RESTORATION FOR INSTALLATION OF CURBS SHALL BE INCLUDED IN THE LINEAR FOOT PRICE FOR CURB.



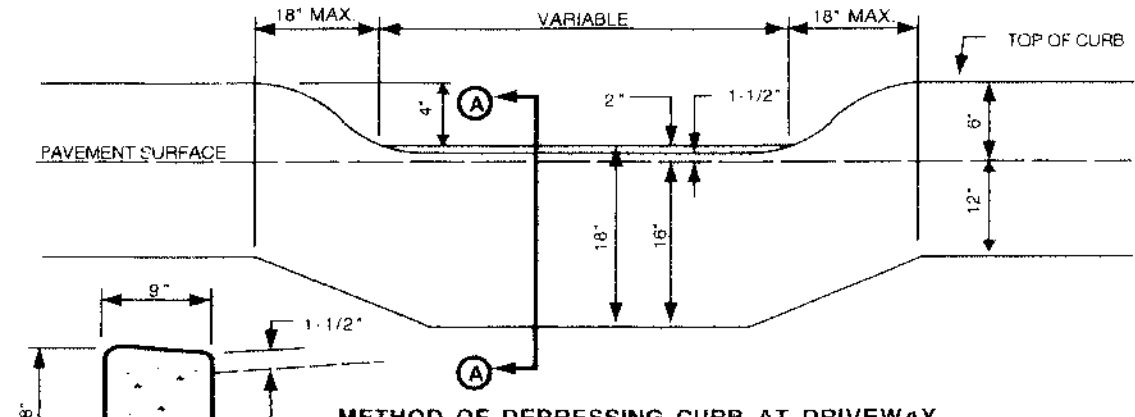
**NOTES:**  
 1. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF A.A.S.H.O. SPEC. M-213, RECESSED 1/4" IN FROM THE FRONT FACE AND TOP OF CURB.



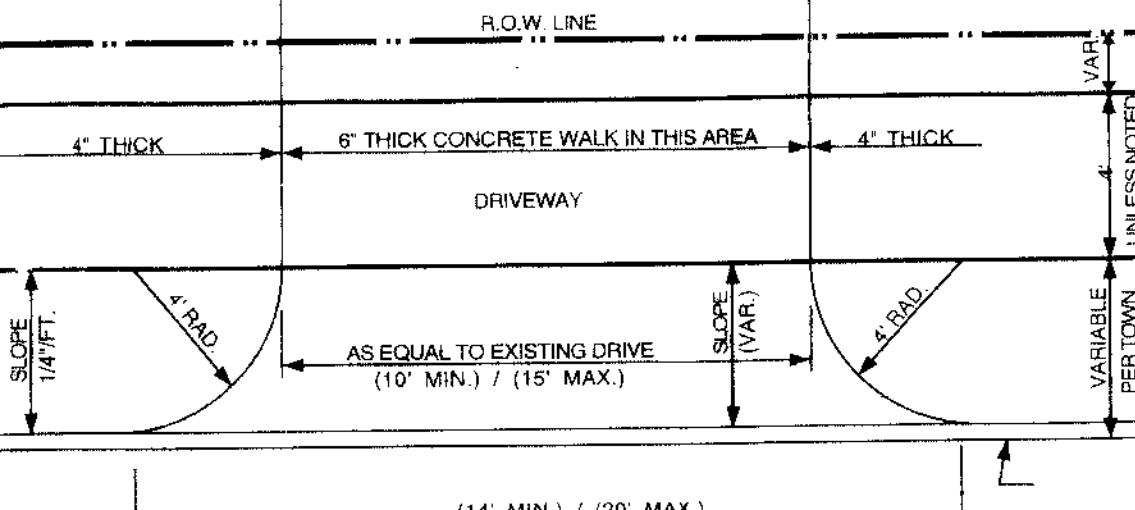
### CONCRETE CURB



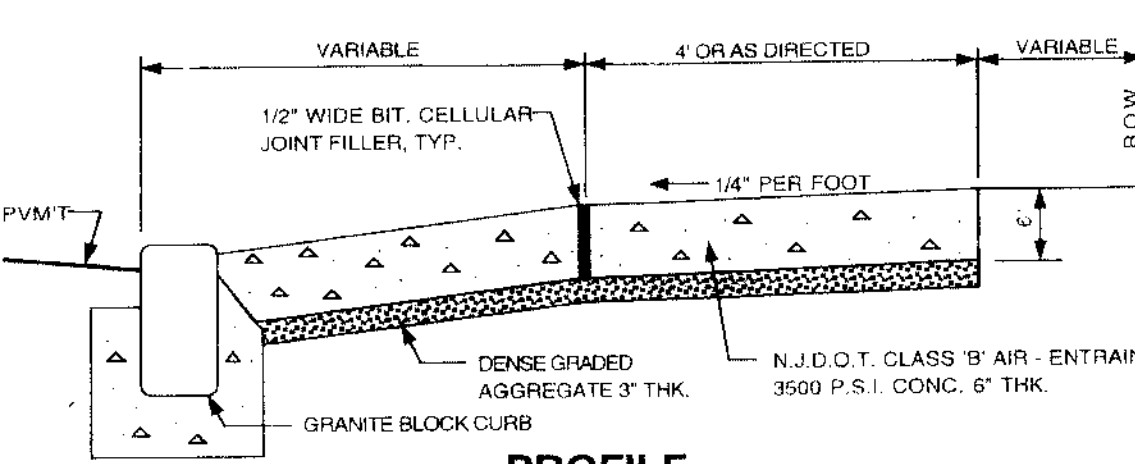
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### CONCRETE CURB / PAVEMENT RESTORATION WITH NO OVERLAY



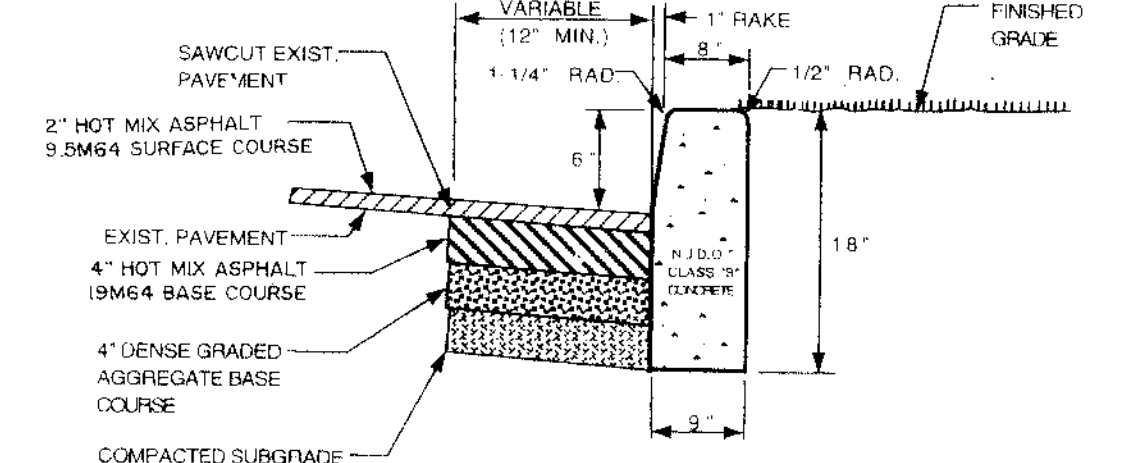
### PLAN



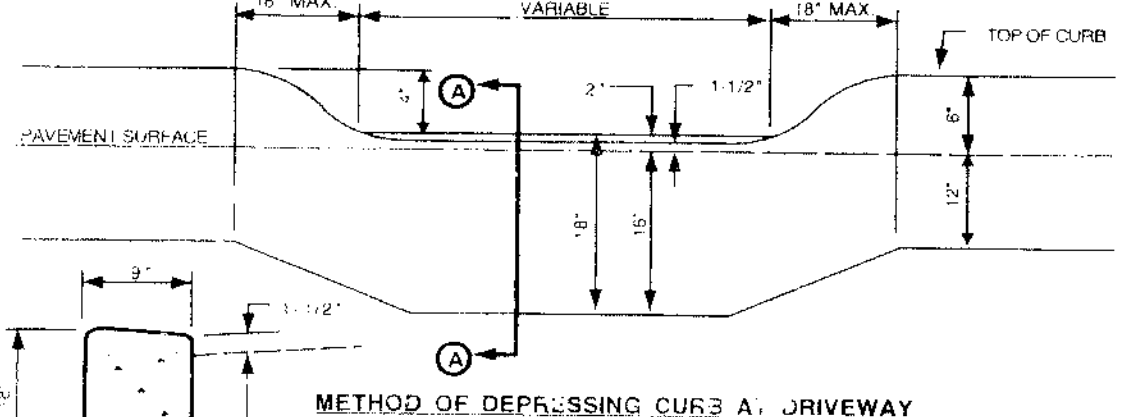
### PROFILE



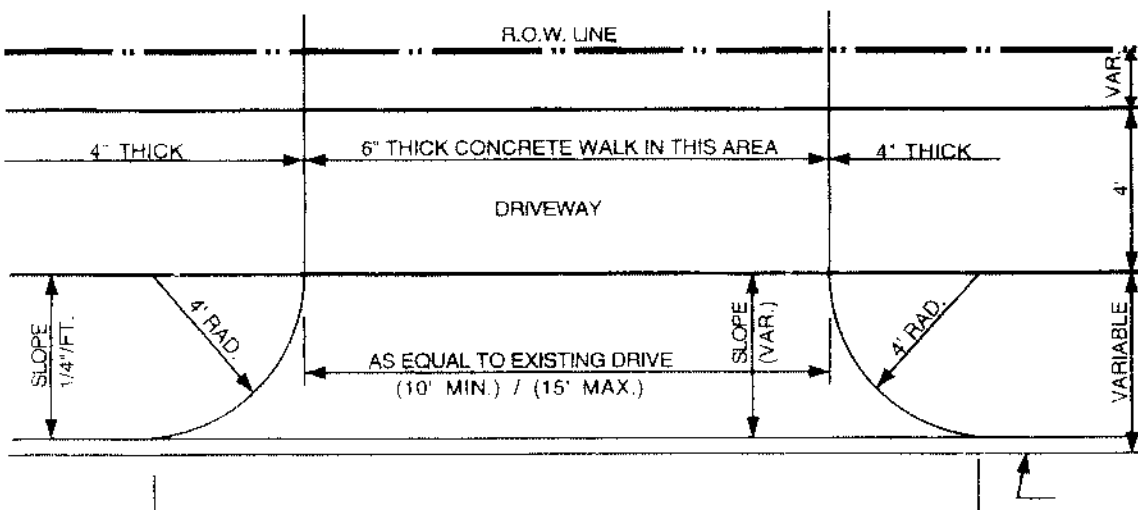
### CONCRETE DRIVEWAY WITH GRANITE BLOCK CURB



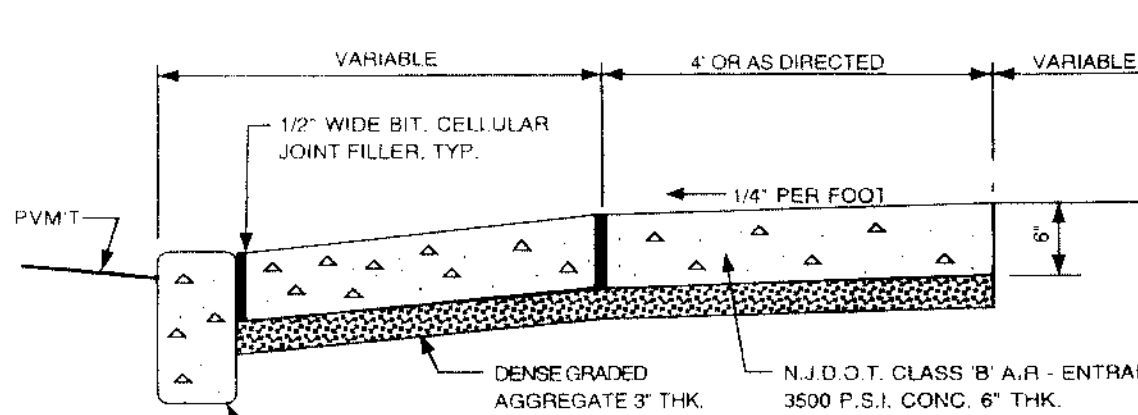
**NOTES:**  
 1. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF A.A.S.H.O. SPEC. M-213, RECESSED 1/4" IN FROM THE FRONT FACE AND TOP OF CURB.



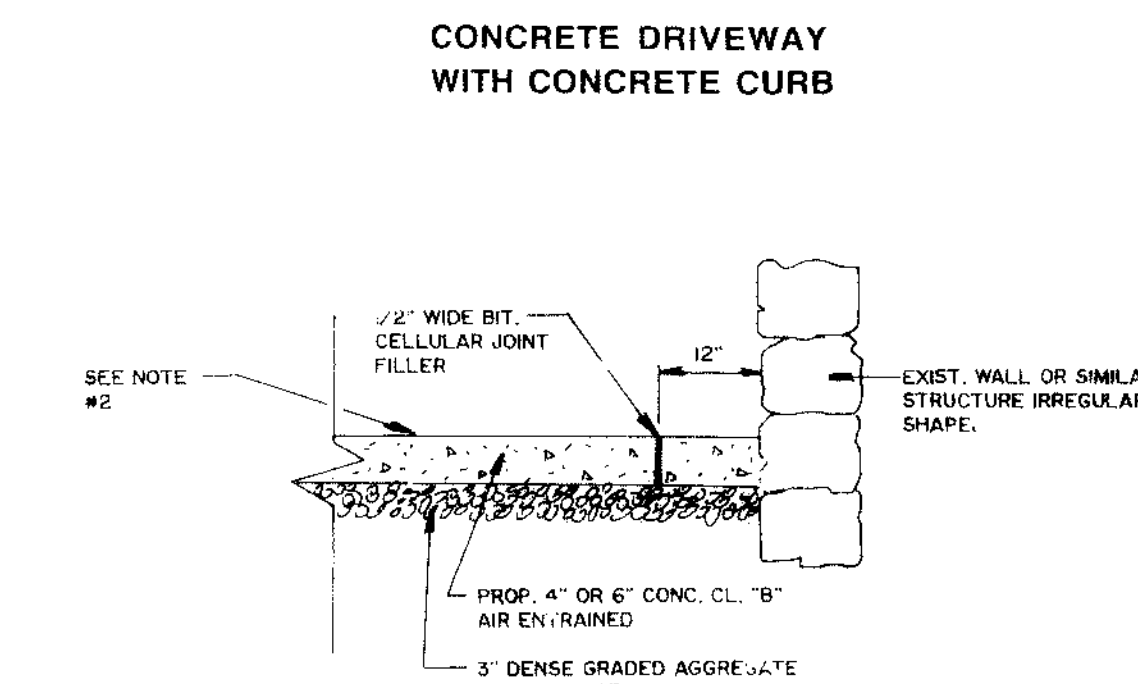
### CONCRETE CURB / PAVEMENT RESTORATION



### PLAN

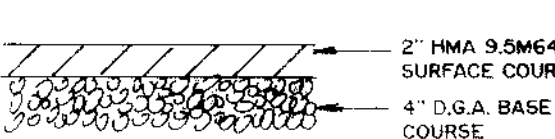


### PROFILE



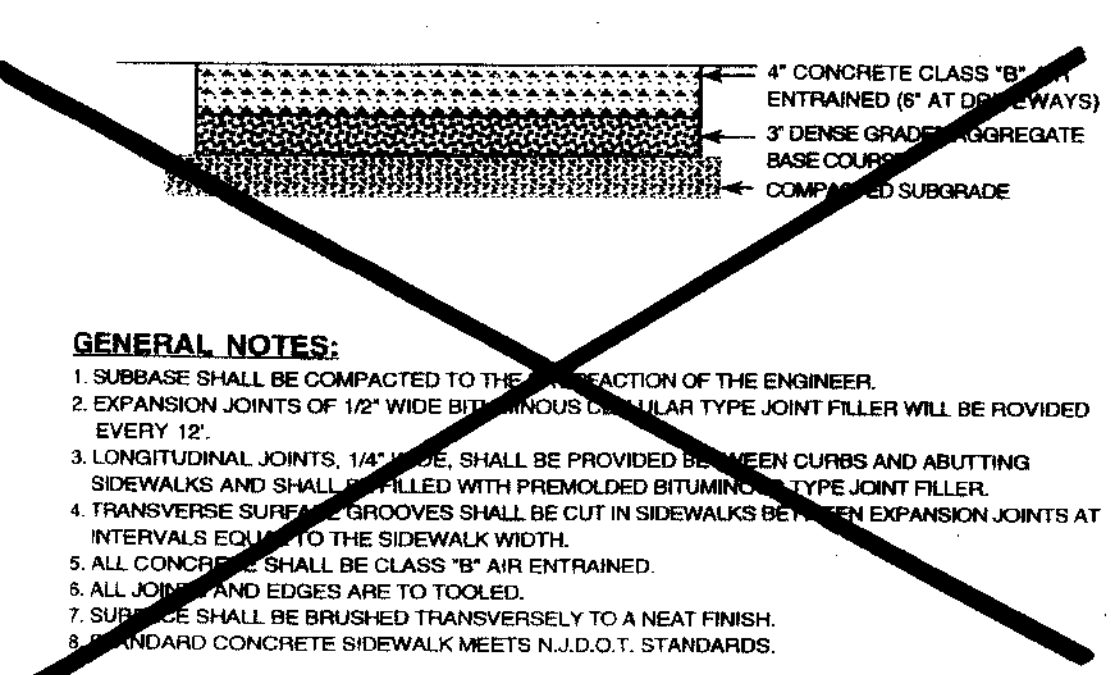
### CONCRETE SIDEWALK POUR ADJACENT TO IRREGULAR SHAPED WALL OR SIMILAR OBSTRUCTION

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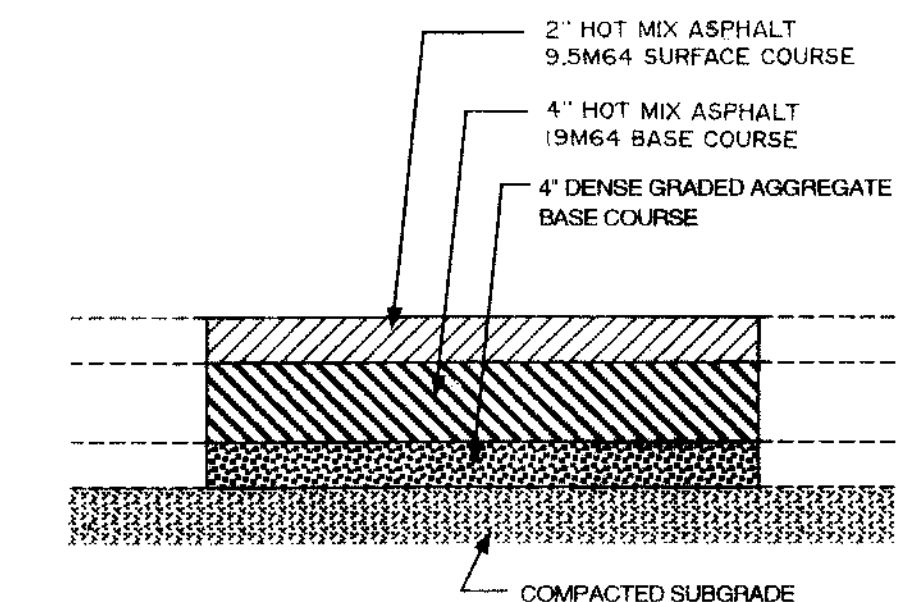
### HMA DRIVEWAY, 6" THK.

N.T.S.



**GENERAL NOTES:**  
 1. SURFACE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.  
 2. EXPANSION JOINTS OF 1/2" WIDE BUT NOT LESS THAN 1/4" TYPE JOINT FILLER WILL BE PROVIDED EVERY 12'.  
 3. LONGITUDINAL JOINTS, 1/4" WIDE, SHALL BE PROVIDED BETWEEN CURBS AND ABUTTING SIDEWALKS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS IMPREGNATED FIBER JOINT FILLER.  
 4. TRANSVERSE SURFACE GROOVES SHALL BE CUT IN SIDEWALKS BETWEEN EXPANSION JOINTS AT INTERVALS EQUAL TO THE SIDEWALK WIDTH.  
 5. ALL CONCRETE SHALL BE CLASS 'B' AIR ENTRAINMENT.  
 6. ALL CORNERS AND EDGES ARE TO BE TOOLED.  
 7. SURFACE SHALL BE BRUSHED TRANSVERSELY TO A NEAT FINISH.  
 8. STANDARD CONCRETE SIDEWALK MEETS N.J.D.O.T. STANDARDS.

### STANDARD CONCRETE SIDEWALK (SEE DETAILS SHEET 5)

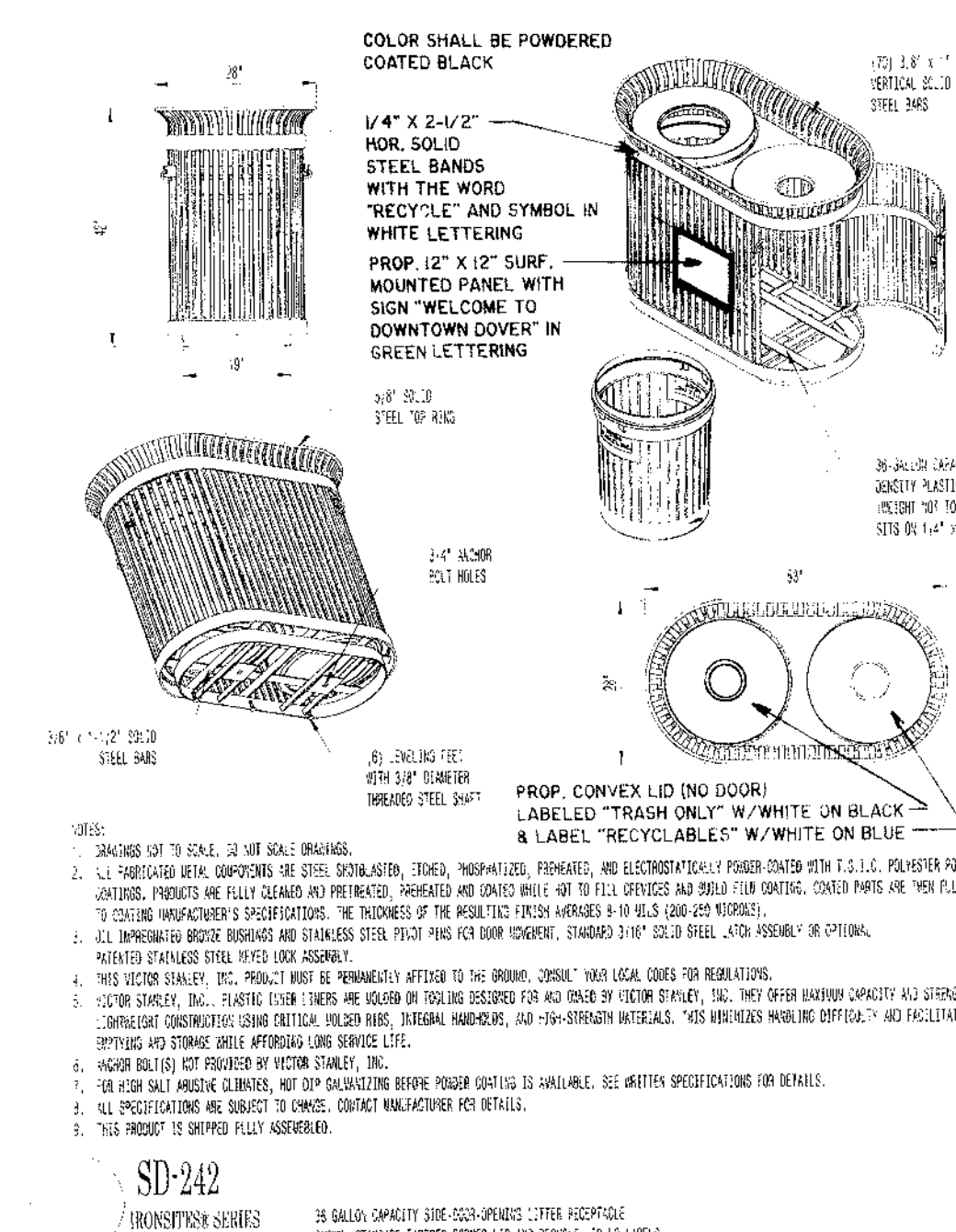


### PAVEMENT DETAIL

**NOTE:**  
 1. ALL MATERIALS SHALL CONFORM TO THE NEW JERSEY D.O.T. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 2007 EDITION.

**THE VICTOR STANLEY, INC.**  
 Manufacturers of Quality Site Furnishings Since 1940

ALL DIMENSIONS ARE IN INCHES



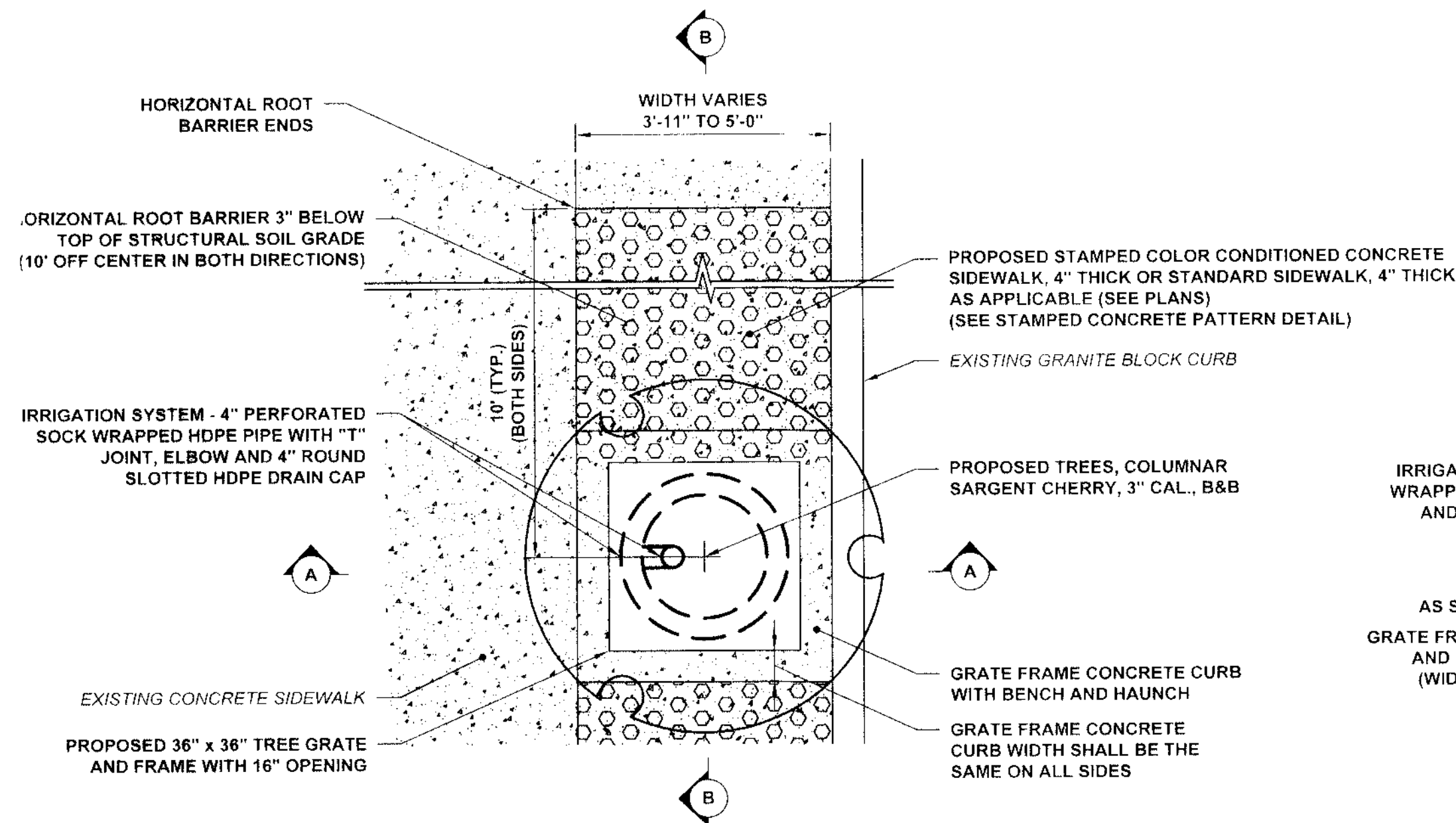
### GARBAGE & RECYCLING CONTAINER

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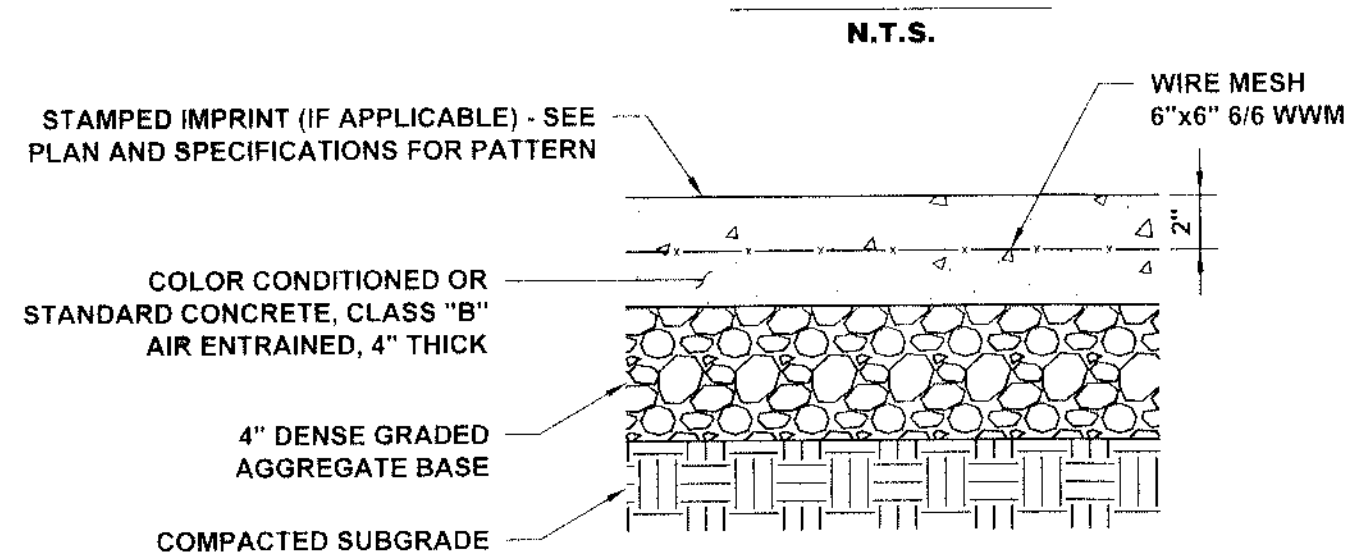
DATE:	REVISION:

<b>TOWN OF DOVER</b> <b>ENGINEERING DEPARTMENT</b> MAIL: 37 N. SUSSEX STREET OFFICE: 100 PRINCETON AVENUE DOVER, NEW JERSEY 07801 TEL: (973) 366-2200 ext. 2154/2152 FAX (973) 366-0039 Michael A. Hantson, P.E., P.E. - Town Engineer William J. Hantson - Assistant <b>6-30-17</b> MICHAEL A. HANTSON - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 27078		<b>CONSTRUCTION DETAILS</b> CONSTRUCTION PLANS FOR EAST/WEST BLACKWELL ST. SIDEWALK & TREE IMPROVEMENTS TOWN OF DOVER MORRIS COUNTY, N.J.	
PROJECT NO. 2017-02	SCALE: AS SHOWN	SHEET 4 OF 6	
DATE:	REVISION:		



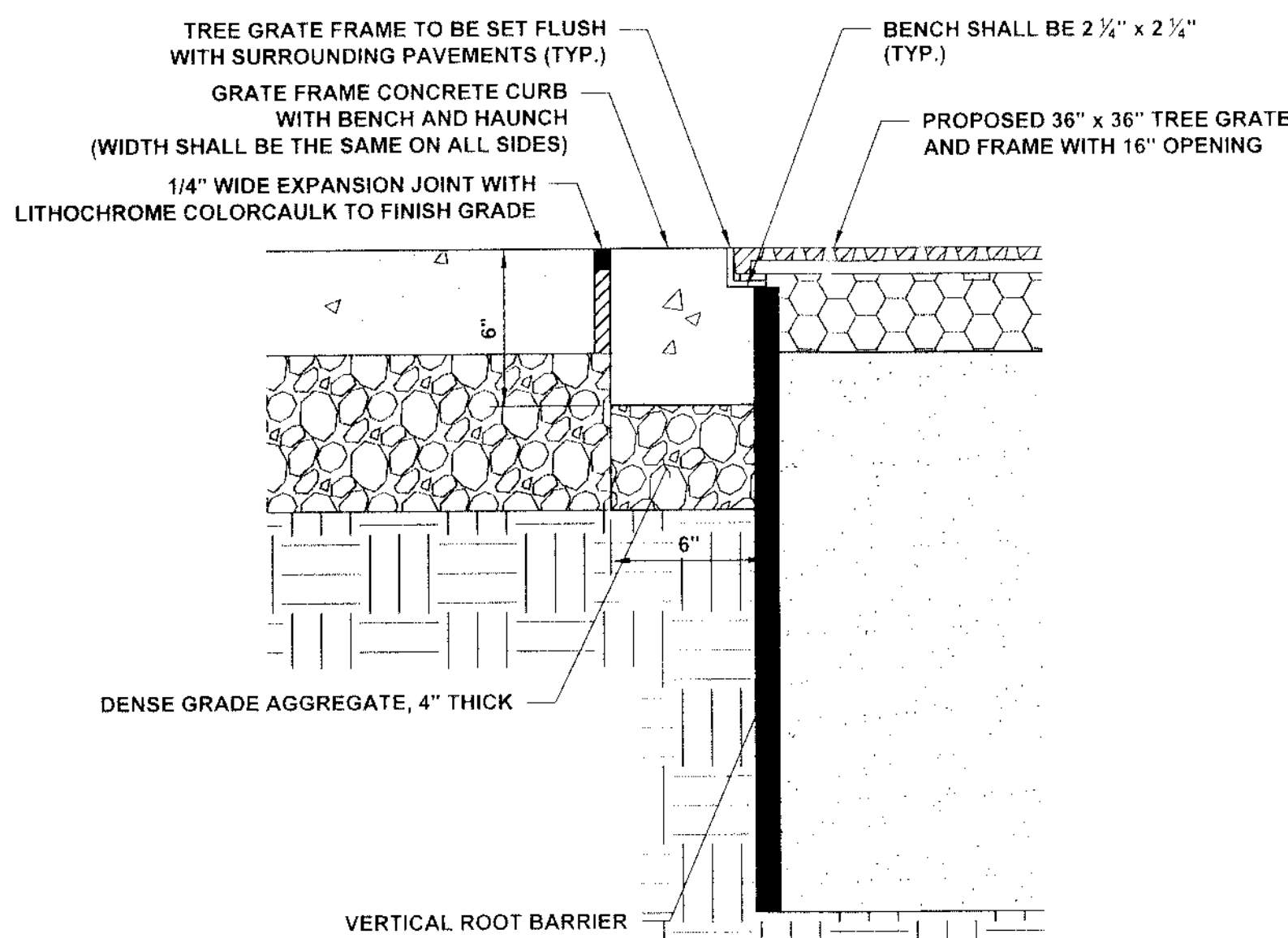


### TYPICAL PLANTING DETAIL PLAN VIEW



### STAMPED COLOR CONDITIONED AND STANDARD CONCRETE SIDEWALK, 4" THICK

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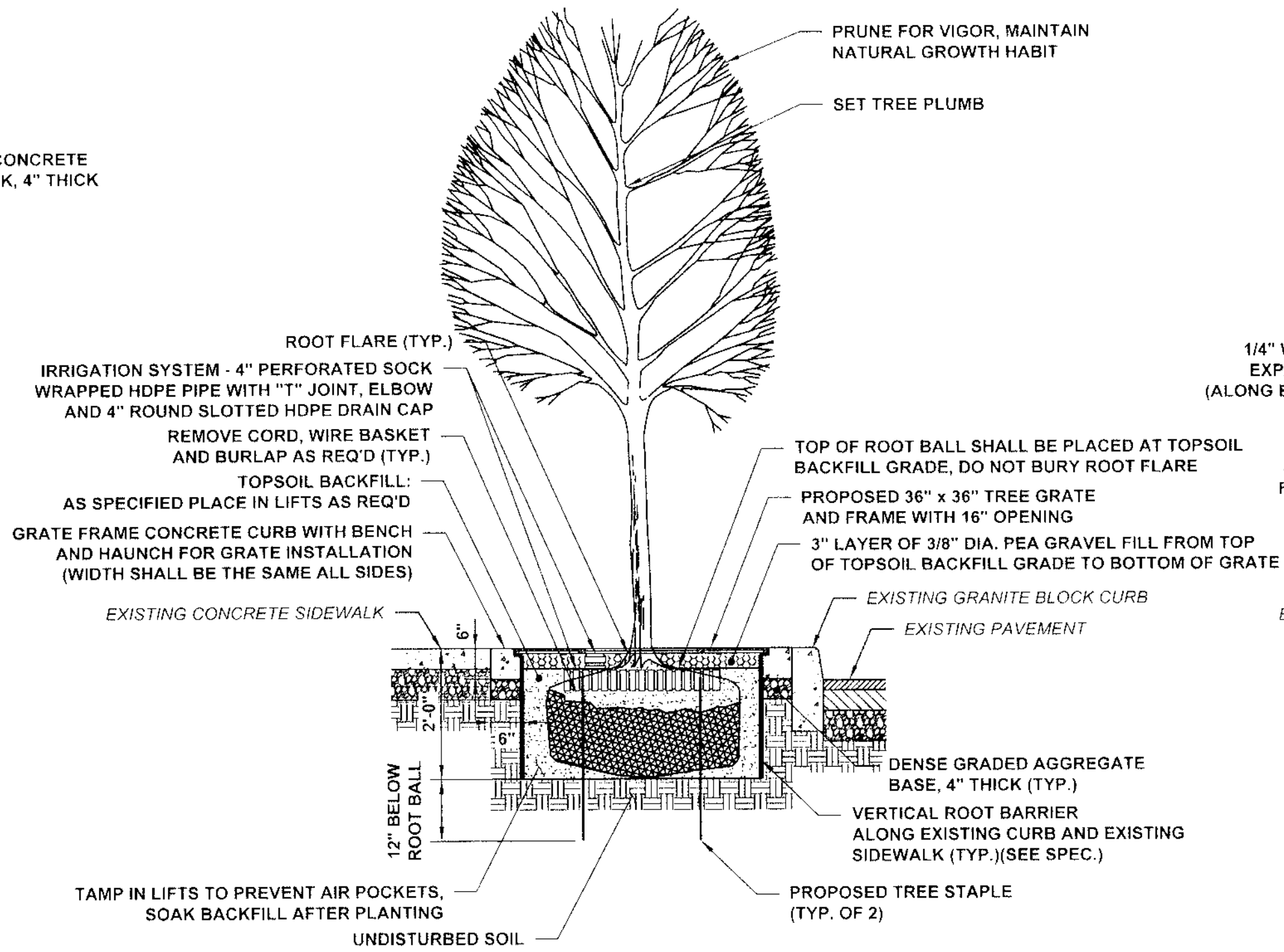


NOTE:

TREE GRATES AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.

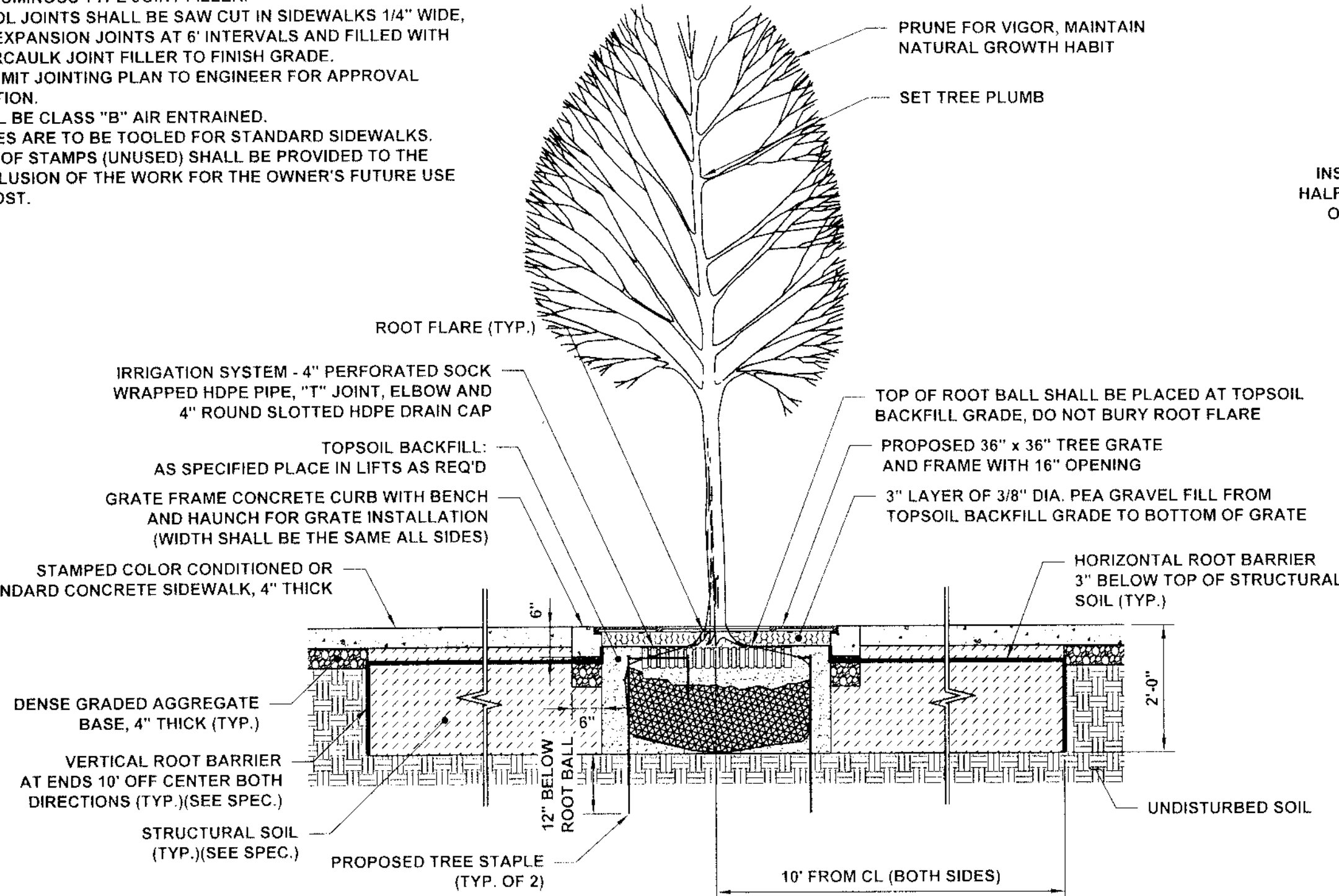
### TYPICAL GRATE FRAME CURB DETAIL

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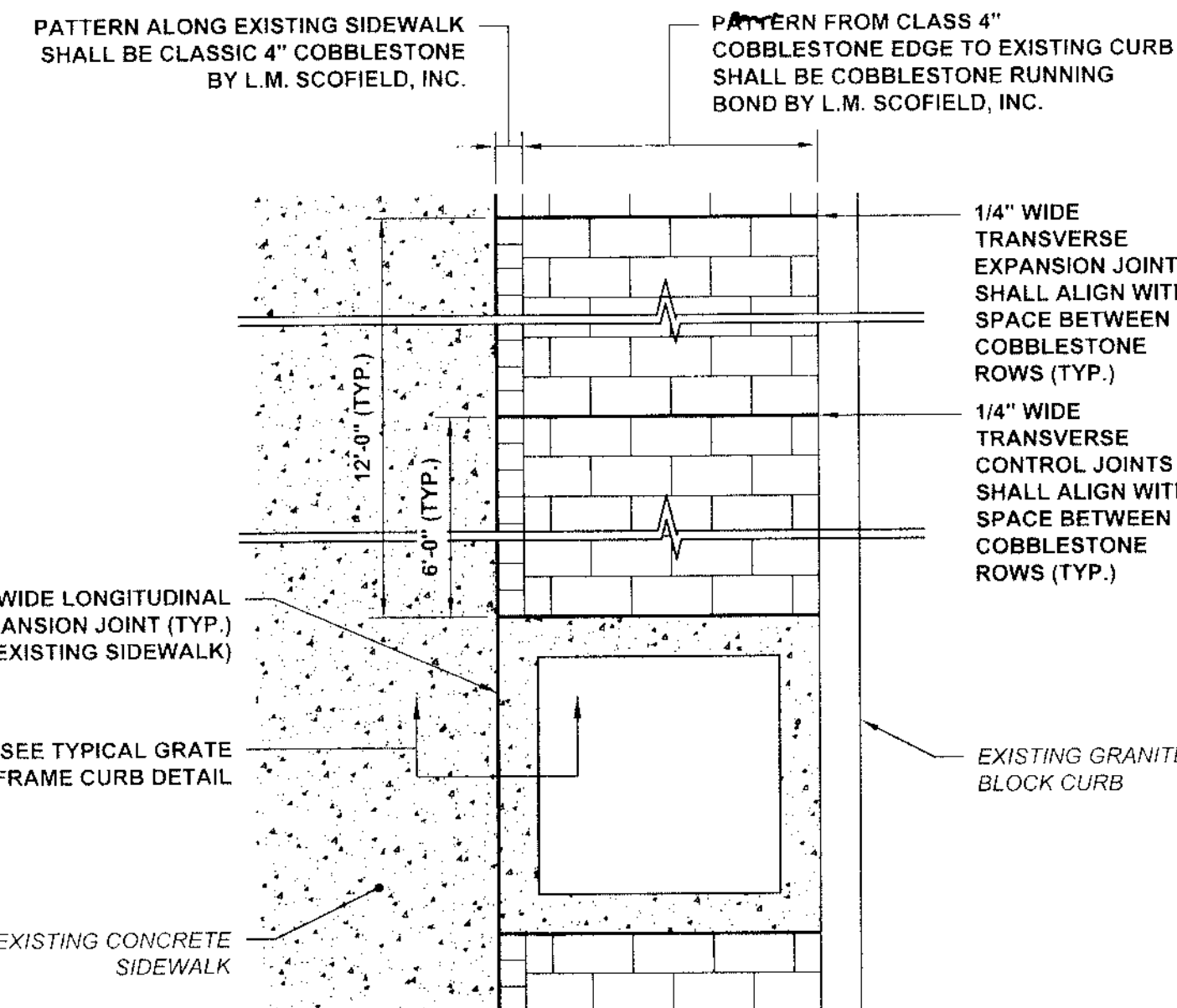
### TYPICAL PLANTING DETAIL SECTION A-A

N.T.S.



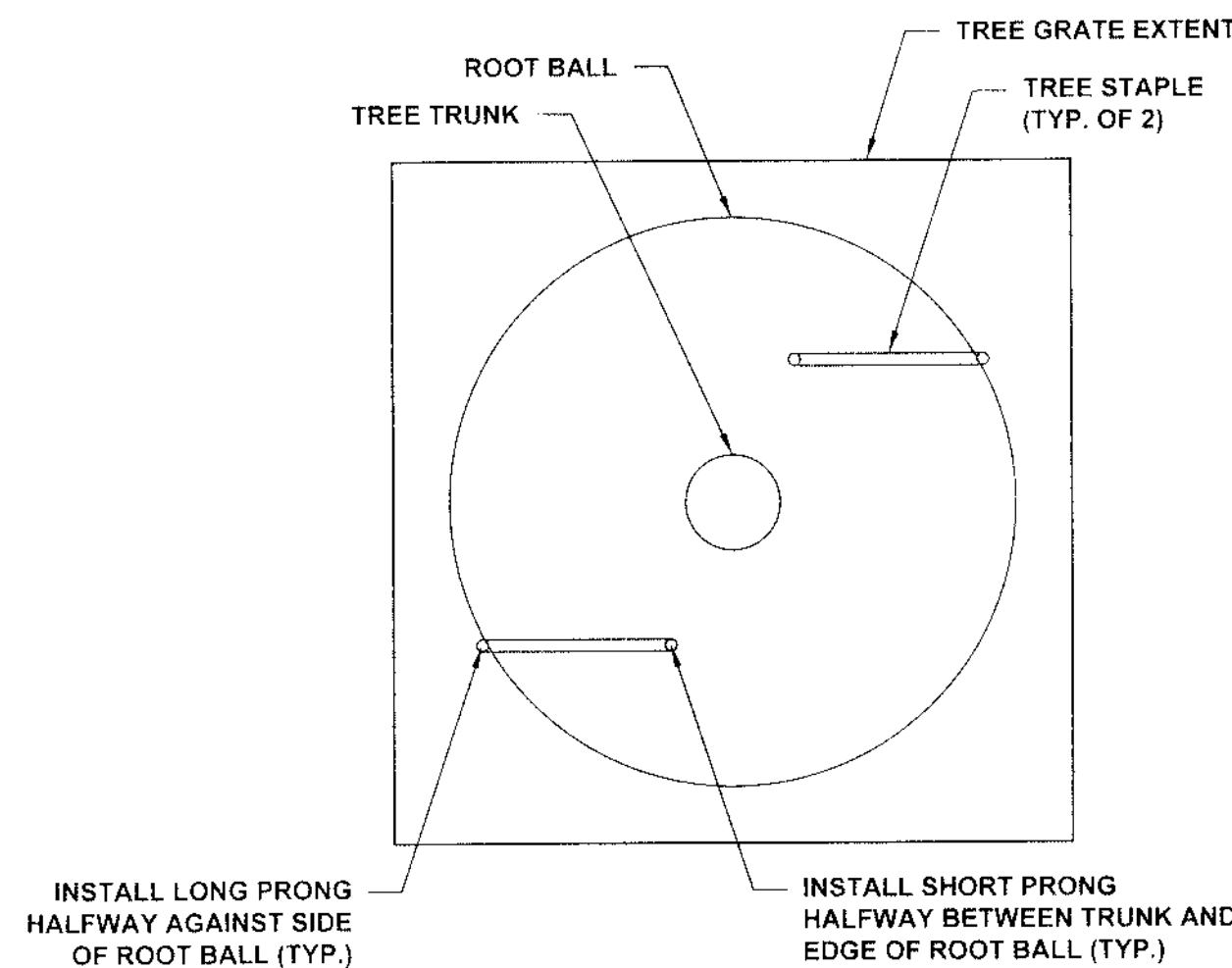
### TYPICAL PLANTING DETAIL SECTION B-B

N.T.S.



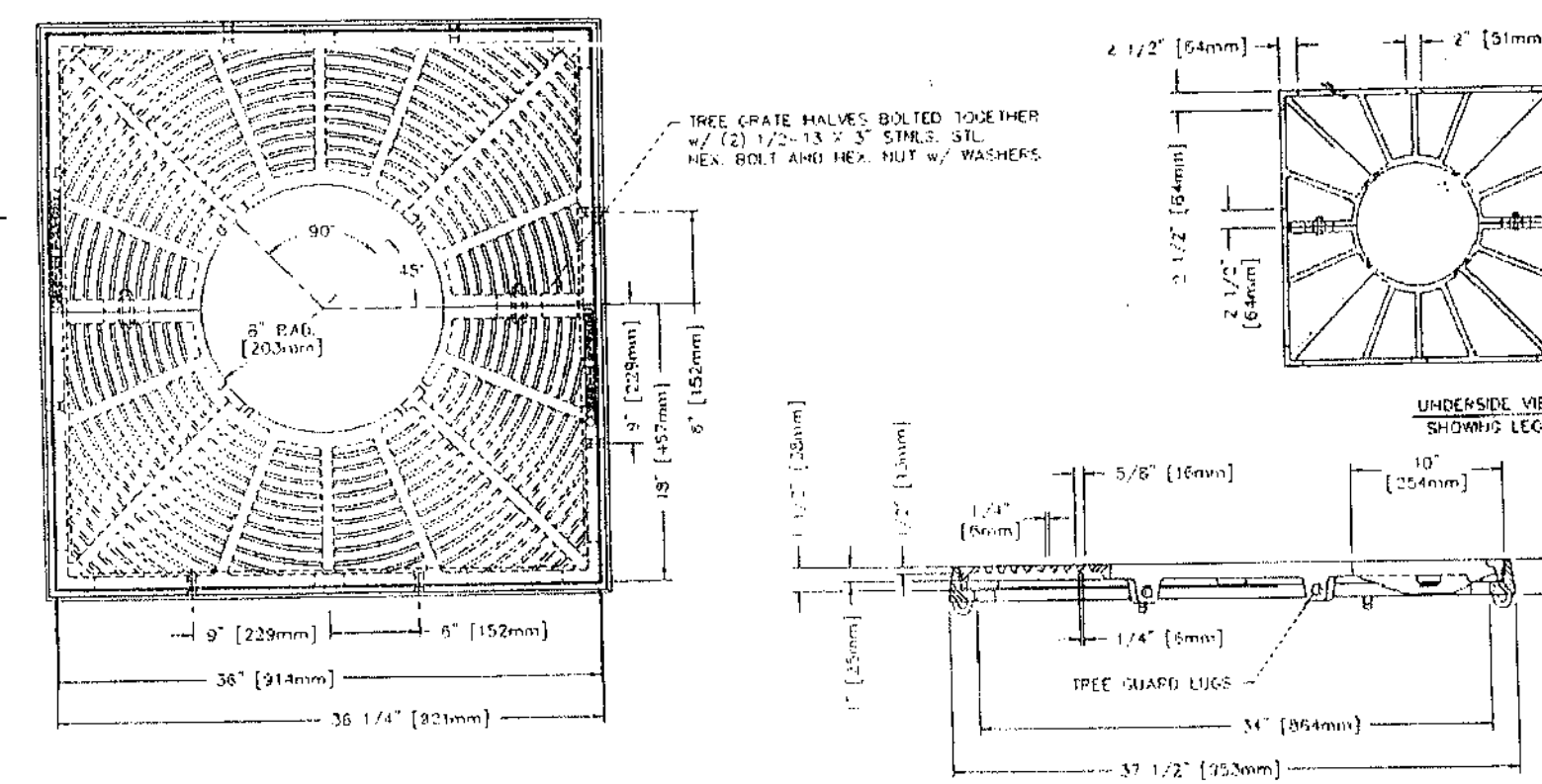
### TYPICAL STAMPED CONCRETE PATTERN DETAIL

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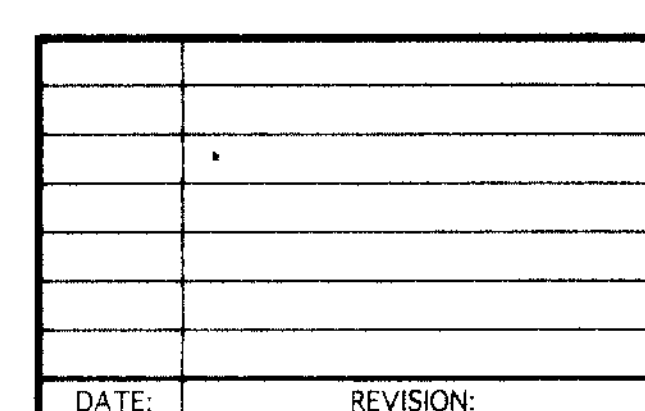
### TYPICAL TREE STAPLING DETAIL PLAN VIEW

N.T.S.



### TREE GRATE DETAIL

N.T.S.



### LANDSCAPE ARCHITECTURAL NOTES

#### GENERAL NOTES

- THIS PLAN TO BE USED FOR LANDSCAPE DEVELOPMENT PURPOSES ONLY
- EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES, STRUCTURES, ETC. NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING.
- ALL PLANT MATERIALS, PLANTING PRACTICES AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK PROMULGATED BY THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE LOCAL MUNICIPAL ORDINANCES AND ANSI Z-60.1 (CURRENT VERSION). IN THE EVENT OF CONFLICTS BETWEEN A.A.N. AND MUNICIPAL STANDARDS, THE MUNICIPAL REQUIREMENTS SHALL SUPERSEDE.
- ALL LANDSCAPING SHALL BE PLANTED AS TO NOT TO INTERFERE WITH UTILITY LINES, SIGHT TRIANGLES, UNDERGROUND UTILITIES, OR PUBLIC WALKWAYS OR OTHER EXISTING OR PROPOSED STRUCTURES. ALL PLANT MATERIAL REQUIRED IN SIGHT DISTANCES OR SIGHT TRIANGLE SHALL NOT EXCEED A MATURE HEIGHT GREATER THAN 30" ABOVE THE ELEVATION OF THE ADJACENT ROADWAY. STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESSSES, OR WITHIN REQUIRED SIGHT DISTANCES OR SIGHT TRIANGLE EASEMENTS SHALL NOT BE BRANCHED ANY LOWER THAN 6'-0" ABOVE GRADE, AND MUST BE APPROPRIATELY PRUNED.

#### PLANT MATERIAL

- NO PLANT SUBSTITUTION SHALL BE ALLOWED WITH REGARD TO SIZE, SPECIES, NAMED VARIETY OR CULTIVAR WITHOUT PRIOR PERMISSION OF THE PROJECT LANDSCAPE ARCHITECT AND OWNER.
- ALL TREES SHALL BE DUG, PACKED, TRANSPORTED AND HANDLED WITH THE UTMOST CARE TO ENSURE ADEQUATE PROTECTION FROM INJURY OR DESICCATION.
- ALL TREES SHALL BE FREE FROM DISEASE AND INFESTATION, AND HAVE ALL LEGALLY REQUIRED AGRICULTURAL CERTIFICATIONS.
- ALL TREES SHALL BE PRUNED TO ENHANCE VIGOR PRIOR TO OR UPON INSTALLATION WHILE RETAINING NATURAL GROWTH HABIT OF THE PLANTS. THE CENTRAL LEADER SHALL NOT BE CUT; TREES PROVIDED IN THIS CONDITION SHALL NOT BE ACCEPTED. DAMAGED, BROKEN, OR CONFLICTING BRANCHES SHALL BE PRUNED CLEANLY, FLUSH WITH THE MAIN TRUNK OR BRANCH.
- ALL PLANTS SHALL BE NURSERY-GROWN AND TAGGED WITH A DURABLE LABEL INDICATING THE GENUS, SPECIES AND SPECIFIED VARIETY OR CULTIVAR.
- ALL TREE MATERIAL SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR FOR A MINIMUM OF ONE YEAR. CONTRACTOR SHALL REPLACE ANY DEAD OR DYING PLANTS IN KIND.

#### PLANTING

- SOIL MUST BE FROST-FREE, FRIABLE AND NOT MUDDY AT THE TIME OF PLANTING.
- ALL PROPOSED TREE PLANTING PITS SHALL BE EXCAVATED TO THE WIDTH OF THE PAVER SECTION OF SIDEWALK AND BACKFILLED WITH PLANTING MIX PER PLANTING DETAILS AND SPECIFICATIONS.
- TREES SHALL BE SET SO THAT THEIR ROOT FLARES ARE APPROXIMATELY THREE INCHES ABOVE BACKFILL TOPSOIL GRADE (SEE DETAIL). 3/8" DIA. PEA GRAVEL SHALL BE GENTLY MOUND TO AVOID EXCESSIVE DRYING AT THE SURFACE PER DETAIL. UNDER NO CIRCUMSTANCES SHALL PLANTINGS AT RELATIVELY DRY LOCATIONS BE PERFORMED IN A MOUNDED MANNER.
- THE CORD BINDING THE BALL OF ALL BALLED AND BURLAPPED (B&B) PLANTS SHALL BE CUT AND REMOVED, AND BURLAP ON THE UPPER 1/3 OF THE ROOT BALL SHALL BE REMOVED. PLANTS WITH SYNTHETIC NON-DEGRADABLE ROOT BALL WRAPS SHALL NOT BE ACCEPTABLE. WIRE BASKETS SHALL HAVE TOP 1/2 OF BASKET REMOVED PRIOR TO BACKFILLING.
- ALL PROPOSED TREES IN PLANTING BEDS SHALL RECEIVE A 3" THICK APPLICATION OF 3/8" DIA. PEA GRAVEL TO MEET BOTTOM OF GRATE.

#### MAINTENANCE

- ALL PLANTINGS SHALL BE WATERED AS NECESSARY FOLLOWING SOUND HORTICULTURAL PRACTICE DURING THE FIRST GROWING SEASON TO ENSURE THEIR PROPER ESTABLISHMENT.
- ALL TREES SHALL HAVE IRRIGATION SYSTEM - 4" PERFORATED SOCK WRAPPED HDPE PIPE WITH "T" JOINT, ELBOW AND 4" ROUND SLOTTED HDPE DRAIN CAP INSTALLED FOR IRRIGATION PURPOSES. THE PERFORATED PIPE SHALL BE LAID IN A CIRCLE JUST BELOW THE SOIL SURFACE AROUND THE ROOTBALL, WITH THE "T" JOINT AND ELBOW LEADING UP TO THE DRAIN CAP.
- CONTRACTOR SHALL PERFORM PROCESS OF FILLING THE IRRIGATION SYSTEM, LETTING IT DRAIN AND FILLING IT AGAIN, ONCE A WEEK FOR A MINIMUM OF ONE YEAR.

#### TREE GRATE NOTES:

- TREE GRATE SHALL BE MODEL R-8704-A AVENUE COLLECTION TREE GRATE AS MANUFACTURED BY NEENAH ENTERPRISES, INC. TREE GRATES AND FRAME SHALL BE CONSTRUCTED OF CAST GRAY IRON, SUPPLIED WITH BLACK POWDERCOAT FINISH.
- BOTH TREE GRATE AND FRAME SHALL BE ORDERED IN TWO PARTS.

TOWN OF DOVER ENGINEERING DEPARTMENT		CONSTRUCTION DETAILS	
MAIL: 37 N. SUSSEX STREET OFFICE: 100 PRINCETON AVENUE DOVER, NEW JERSEY 07801		CONSTRUCTION PLANS FOR EAST/WEST BLACKWELL ST. SIDEWALK & TREE IMPROVEMENTS TOWN OF DOVER MORRIS COUNTY, N.J.	
TEL (973) 366-2200 ext. 2154/2152 FAX (973) 366-0039		PROJECT NO. 2017-02	
Michael A. Hantson, P.E., P.P., C.M.E. - Town Engineer William J. Isselin - Assistant		SCALE: AS SHOWN	
MICHAEL A. HANTSON - P.E. J.I.J. PROFESSIONAL ENGINEER LICENSE NO. 27078		SHEET 5 OF 6	
DATE: _____		REVISION: _____	

Not Official Bidding or Construction



