# Holland Heights Single Family Subdivision

1789 Dodge Road Amherst, New York

#### **AGENCIES**

ENGINEERING DEPARTMENT

NAME/TITLE: JEFFERY BURROUGHS, P.E. — TOWN ENGINEER COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT ADDRESS: 1100 NORTH FOREST ROAD

1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221

TELEPHONE 716-631-7154

PLANNING & ZONING DEPARTMENT

NAME/TITLE: DANIEL HOWARD — PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT

ADDRESS: 5583 MAIN STREET

WILLIAMSVILLE, NEW YORK 14221

TELEPHONE 716-631-7051

BUILDING DEPT.

NAME/TITLE: BERKE, MARK S. — COMMISSIONER OF BUILDING

COMPANY/DEPT .: TOWN OF AMHERST BUILDING DEPT.

5583 MAIN ST.
ADDRESS: AMHERST, NEW YORK 14221

TELEPHONE 716-631-7080

ECDOH NAME/TITLE:

COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH ADDRESS: 503 KENSINGTON AVE

BUFFALO, NEW YORK 14214

TELEPHONE 716-961-6854

NYSDEC

NAME/TITLE: COMPANY/DEPT:

PANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL

ADDRESS: CONSERVATION 700 DELAWARE AVE.

BUFFALO, NEW YORK 14209

TELEPHONE 716-851-7070

UTILITIES

NATURAL GAS

COMPANY/DEPT:. NATIONAL FUEL GAS CORP. ADDRESS: 6363 MAIN STREET

WILLIAMSVILLE, NEW YORK 14221

TELEPHONE 716-857-7000

TELEPHONE COMPANY

COMPANY/DEPT: ADDRESS:

VERIZON 65 FRANKLIN STREET BUFFALO, NEW YORK 14203

TELEPHONE 716-840-8748

CABLE COMPANY

COMPANY/DEPT: ADDRESS:

TIME WARNER 789 CHURCH ROAD WEST SENECA, NEW YORK

TELEPHONE 716-558-8615

ELECTRIC COMPANY

COMPANY/DEPT: ADDRESS:

NATIONAL GRID 144 KENSINGTON AVENUE BUFFALO, NEW YORK 14214

TELEPHONE 716-236-2738

<u>WATER</u>

TELEPHONE

COMPANY/DEPT:.
ADDRESS:

ERIE COUNTY WATER AUTHORITY 3030 UNION ROAD CHEEKTOWAGA, NEW YORK 14227

716-684-1510

DIG SAFELY NEW YORK

TELEPHONE 1-800-962-7962

DESIGN CONSULTANTS

PROJECT SURVEYOR

COMPANY/DEPT: ADDRESS:

NUSSBAUMER & CLARKE, INC. 3556 LAKESHORE ROAD, SUITE 500 BUFFALO, NEW YORK 14219

TELEPHONE

716-827-8000

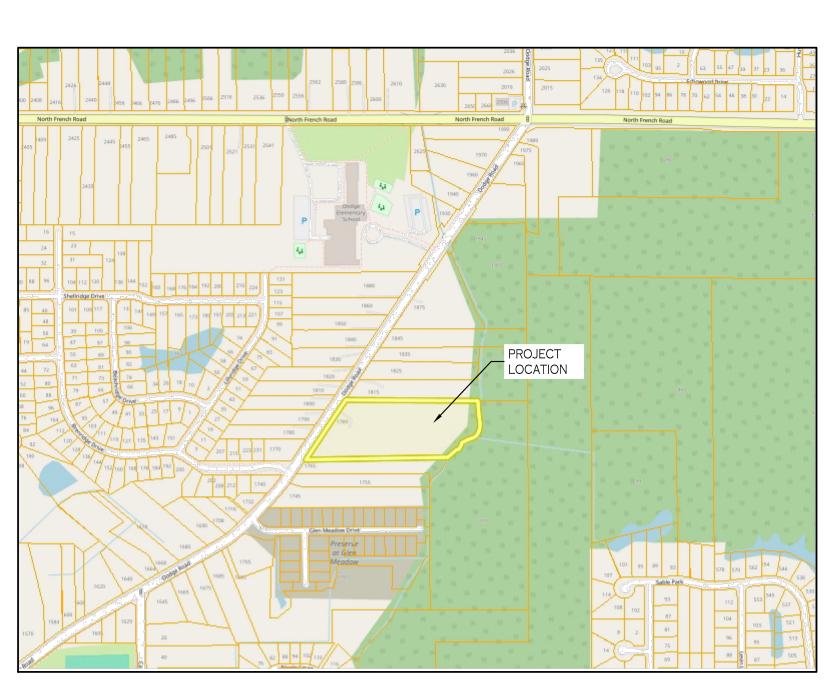
OWNER/DEVELOPER

NAME: JOE RUBINO

ADDRESS 5500 MAIN STREET, SUITE 343

WILLIAMSVILLE, NY 14221

CONTACT: JOE RUBINO TELEPHONE 716-510-4338





CARMINAWOOD DESIGN

FEBRUARY 2025
REV. JULY 2025

DRAWING TITLE

DRAWING NO.

C - 001

P-100

C - 101

C-200

AP-100

COVER SHEET
LAND SURVEY (PREPARED BY NUSSBAUMER & CLARKE)
DEMOLITION & EROSION CONTROL PLAN

DEMOLITION & EROSION CONTROL PLAN
DEMOLITION & EROSION CONTROL DETAILS
PRELIMINARY PLAT/LAYOUT PLAN

SITE DETAILS

GRADING PLAN

C-201 ROAD PROFILE
C-300 STORM WATER MANAGEMENT PLAN
C-301 BASIN DETAILS

C-301 BASIN DETAILS
C-302 STORM DRAINAGE DETAILS
C-303 STORM DRAINAGE DETAILS
C-400 UTILITY PLAN

C-400 UTILITY PLAN
C-401 UTILITY PROFILES
C-402 SANITARY SEWER DETAILS
C-403 SANITARY SEWER DETAILS
C-404 SANITARY SEWER NOTES
C-405 WATER DETAILS

C-406 WATER DETAILS
C-407 LIGHTING DETAILS
C-408 LIGHTING DETAILS
C-409 LIGHTING DETAILS
L-100 LANDSCAPE PLAN
L-101 LANDSCAPE DETAILS

ADDRESS PLAN

 REV #
 DESCRIPTION
 DATE

 1
 Rev. Per Town Comments
 9/19/2024

 2
 Rev. Per Town Comments
 10/24/2024

 3
 Rev. Per Town Comments
 11/11/2024

 4
 Rev. Per Town Comments
 3/20/2025

 5
 Rev. Per Town Comments
 4/16/2025

 6
 Rev. Per Town Comments
 5/23/2025

 7
 Rev. Per Town Comments
 5/23/2025

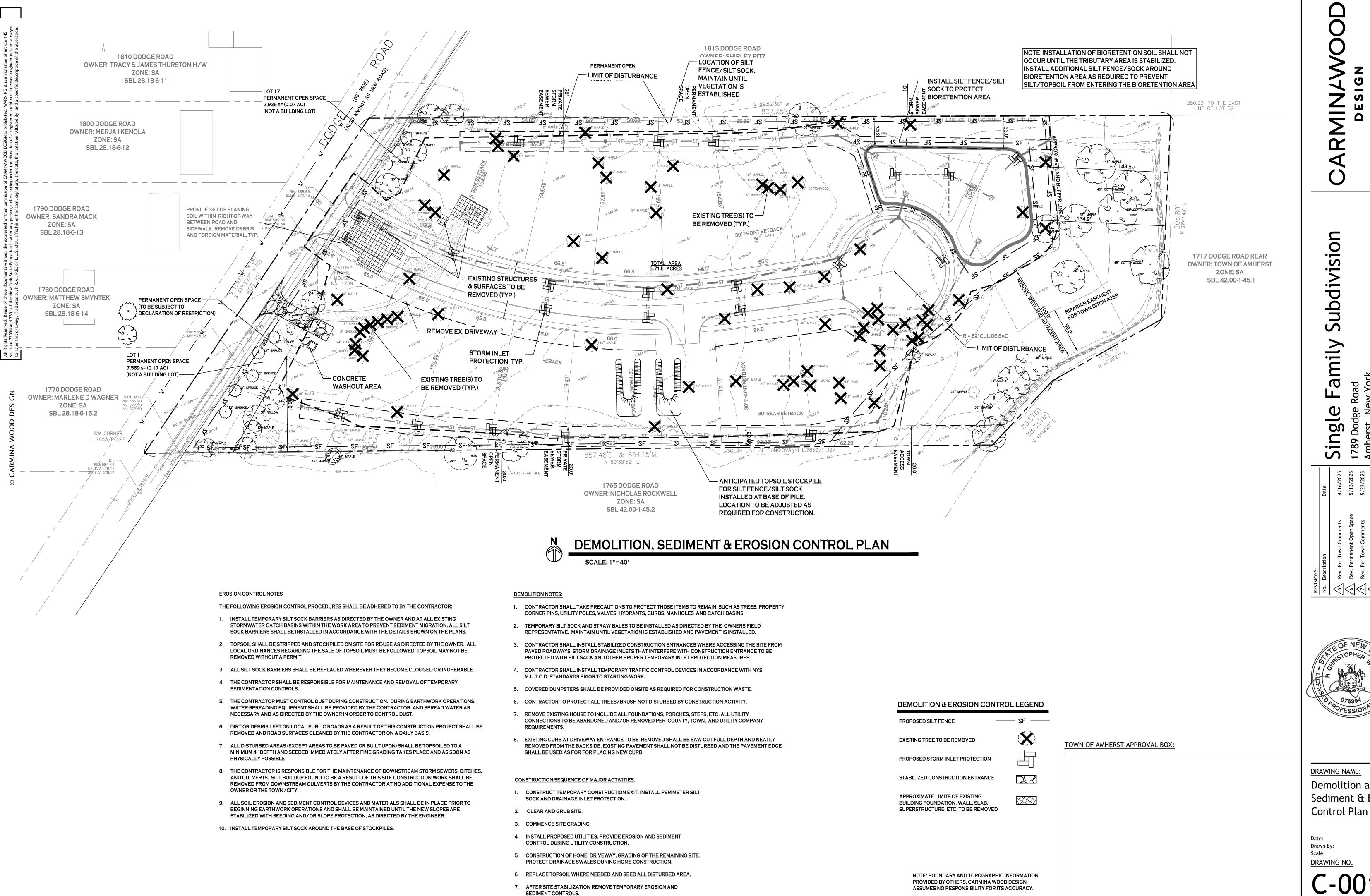
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 Rev. Per Town Comments
 6/10/2025

7/1/2025

7/25/2025

Holland Heights

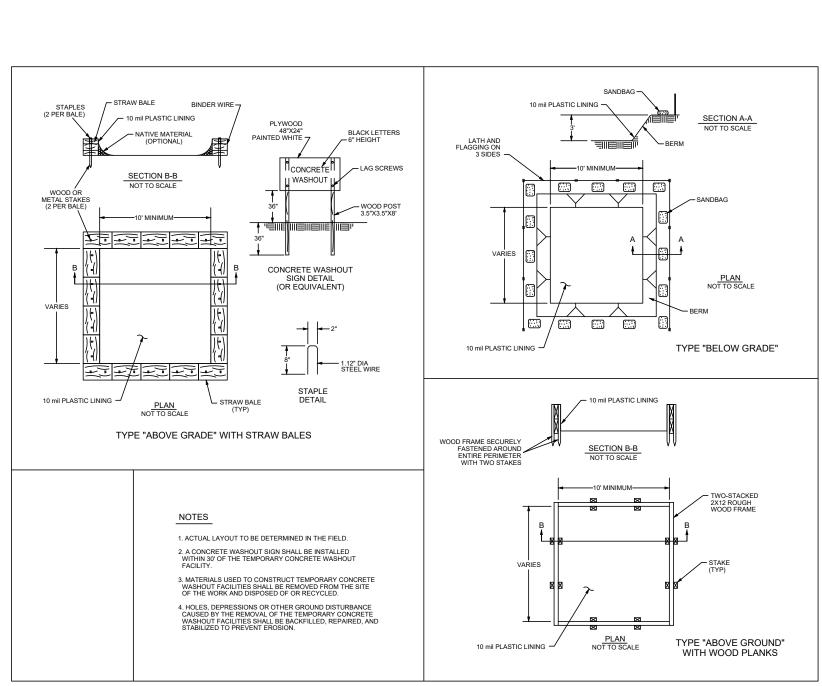
Single Family Subdivision 1789 Dodge Road Amherst, New York



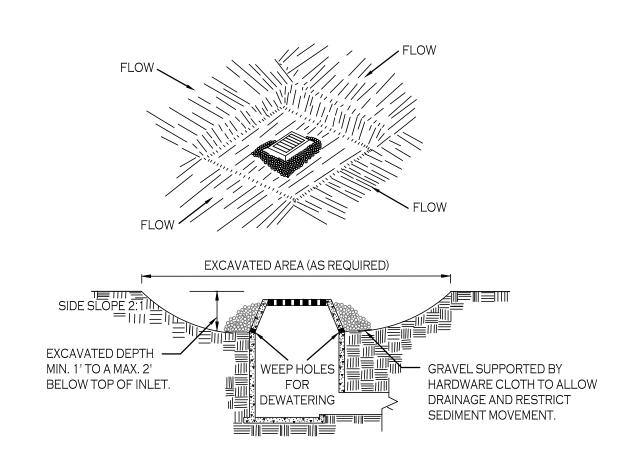
NOTE: SWALE PROTECTION AND EROSION AND SEDIMENT CONTROLS FOR THIS PROJECT ARE ALSO REQURED DURING HOME CONSTRUCTION.

**DRAWING NAME:** Demolition and Sediment & Erosion

> 01/29/25 C. Wood As Noted



**CONCRETE WASHOUT NOT TO SCALE** 



#### CONSTRUCTION SPECIFICATIONS

- 1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
- 2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
- 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
- 4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

**EXISTING** 

PAVEMENT-

10'MIN.

10'MIN.

12'MIN EXISTING PAVEMENT

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

MUST BE REMOVED IMMEDIATELY.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30

4. WIDTH-TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS

SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY

8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH

STABILIZED CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE

AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD

IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL

WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL NOT TO SCALE

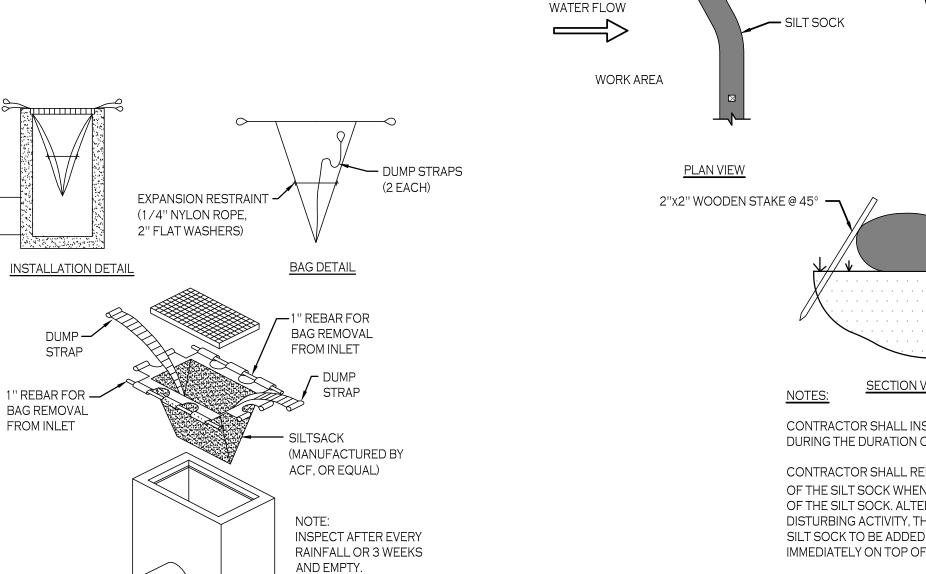
## - GATHER EXCESS CONSTRUCTION SPECIFICATIONS

- 1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- 6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

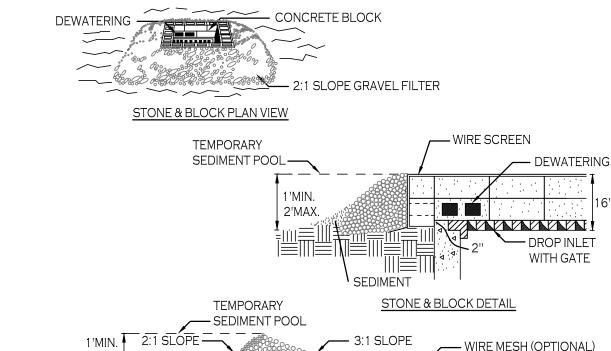
MAXIMUN DRAINAGE AREA 1 ACRE

#### **INLET PROTECTION DETAIL 2**

#### NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



SILT SACK DETAIL NOT TO SCALE



WIRE MESH (OPTIONAL) 2'MAX. FINE GRAVEL FACE — (1'MIN. THICKNESS)

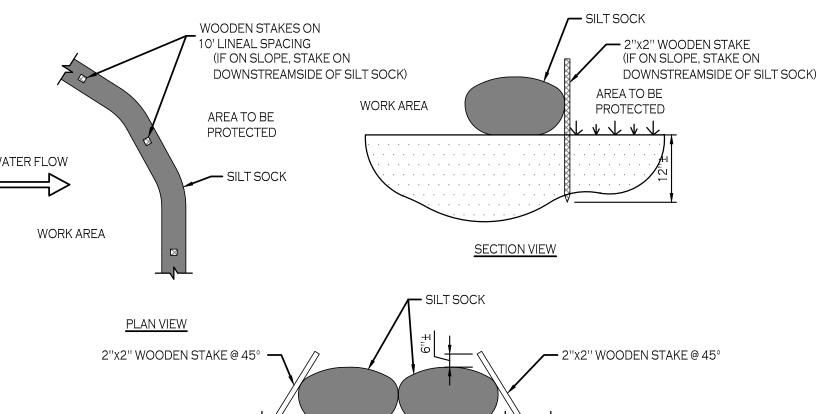
#### CONSTRUCTION SPECIFICATIONS

- 1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR
- 2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- 3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- 4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

#### INLET PROTECTION DETAIL 3

#### NOT TO SCALE



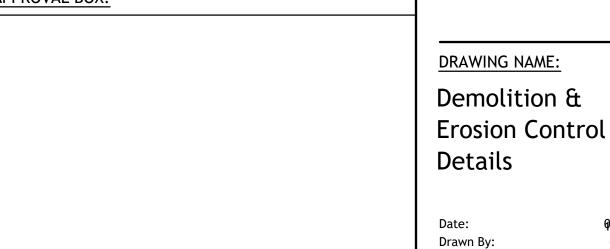
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED \$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

#### SILT SOCK DETAIL



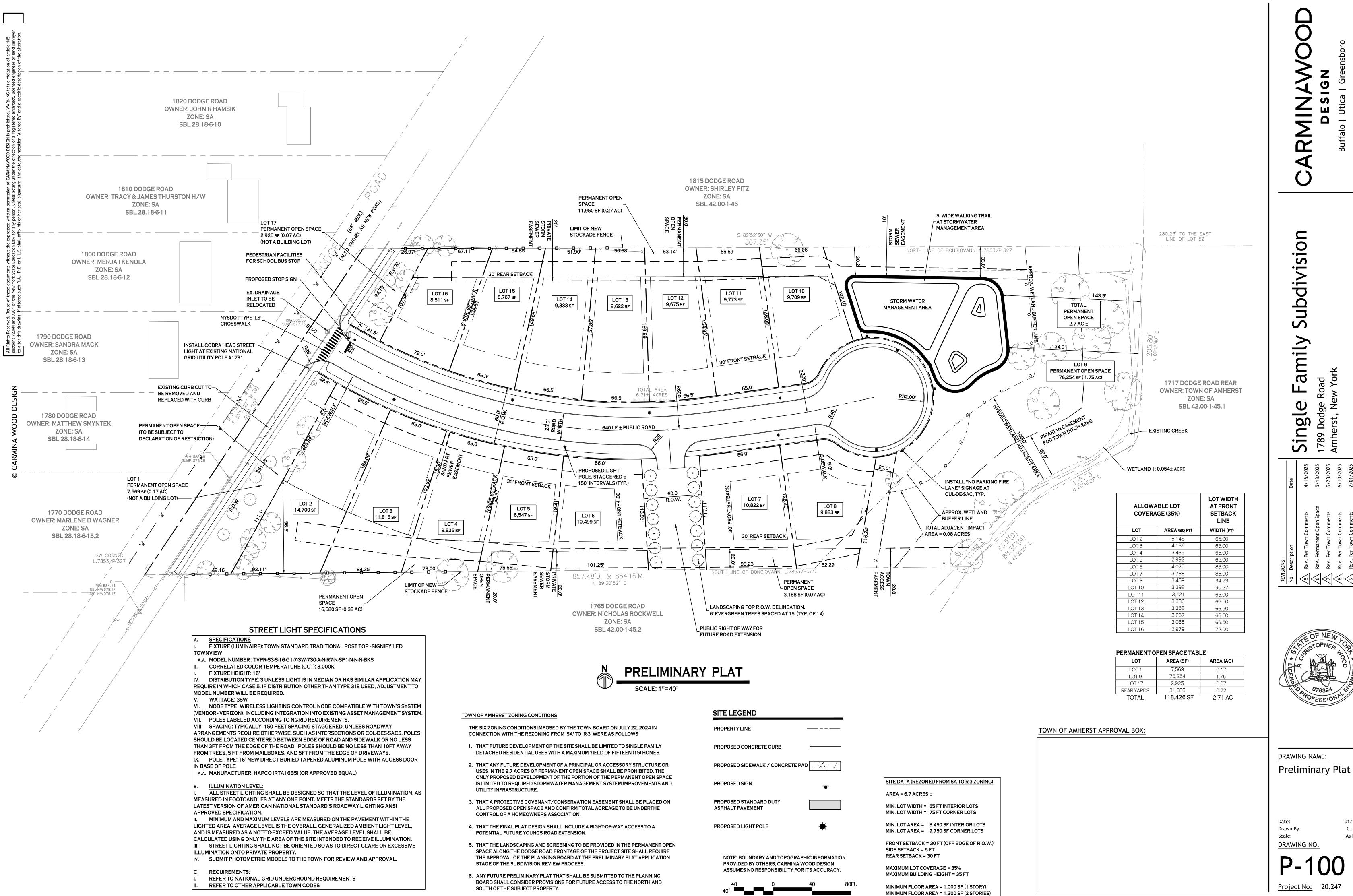


Scale: DRAWING NO.

As Noted

9<u>0/28//2</u>45

C. Wood



**DRAWING NAME:** 

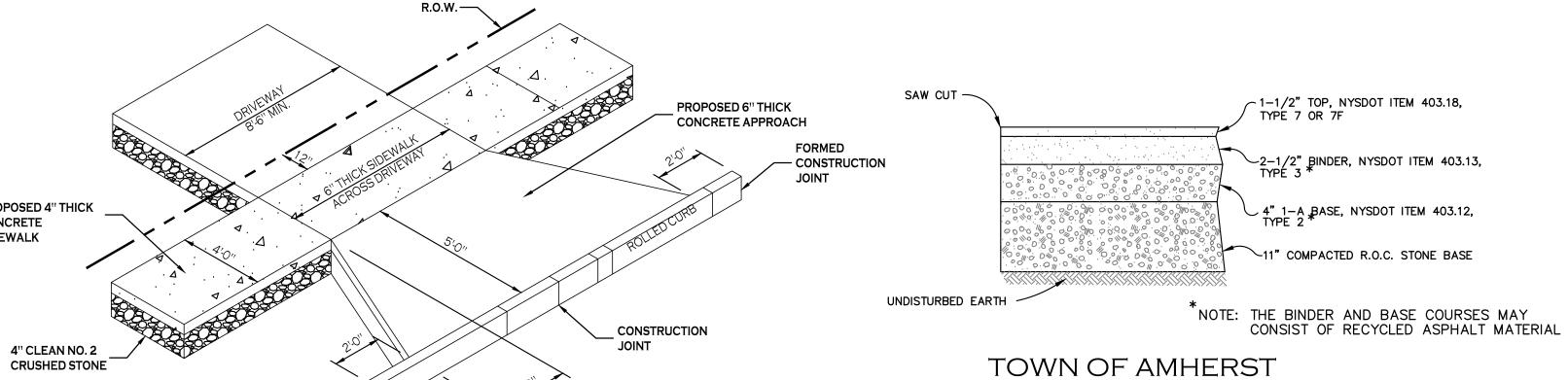
01/29/25

C. Wood

As Noted

01/29/25

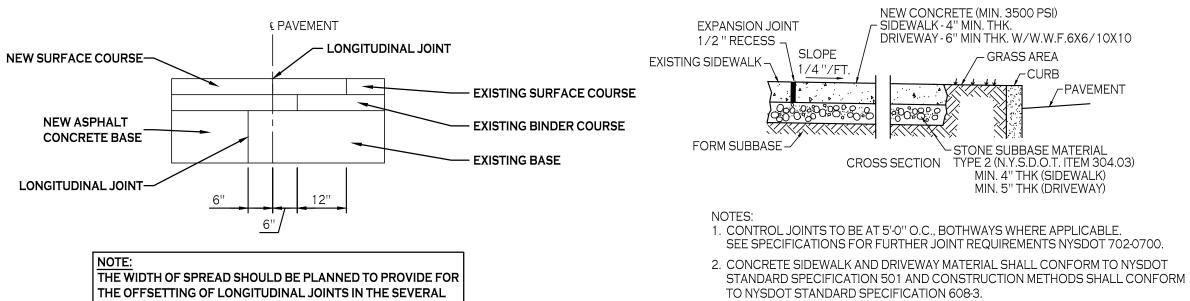
C. Wood Scale: As Noted DRAWING NO. Project No: 20.247



TYPICAL DRIVEWAY APRON & SIDEWALK NOT TO SCALE

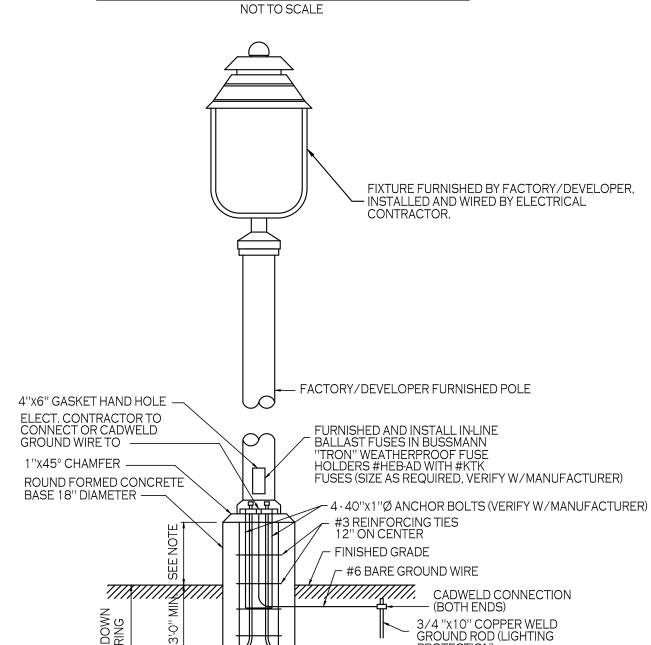
## PROPOSED 4" THICK CONCRETE SIDEWALK CRUSHED STONE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.

**CONSTRUCTION JOINT** 



THE OFFSETTING OF LONGITUDINAL JOINTS IN THE SEVERAL

PAVEMENT OVERLAPPING DETAIL



1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN 2. FOR LIGHT FIXTURE, POLE & BASE ORDERING INFORMATION SEE LIGHTING PLAN VERIFY INFORMATION WITH OWNER PRIOR TO ORDERING. 3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION IN PAVEMENT: 3' ABOVE GRADE

4-#8 VERTICAL

PROTECTION)

CARLON PLASTIC CONDUIT

GALVANIZED STEEL TO CARLON CONDUIT CONNECTOR

GALVANIZED CONDUIT "ELL"

IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE LIGHT POLE FOUNDATION

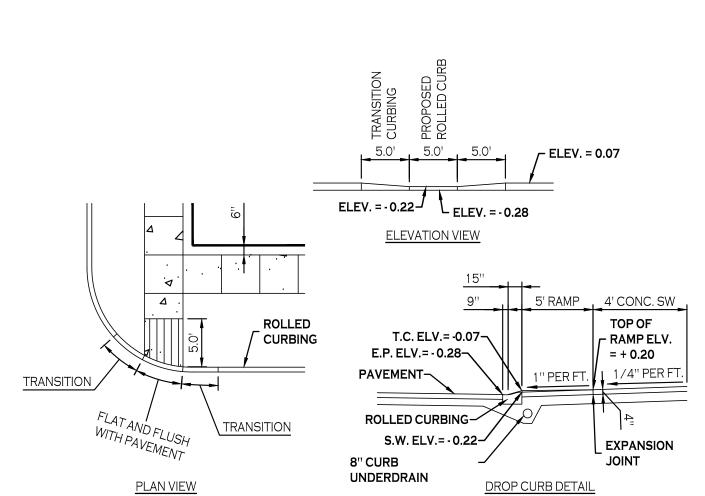
CONCRETE

3" COVER -

ALL CONCRETE WORK AND

BY GENERAL CONTRACTOR -

REINFORCING SHALL BE



3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH

4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE

6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN

CONCRETE SIDEWALK

NOT TO SCALE

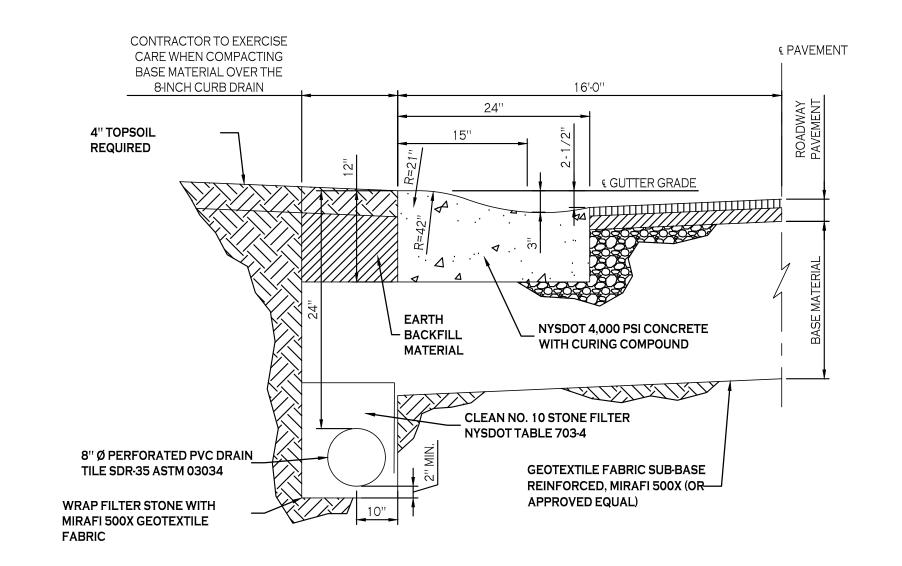
ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE. 

5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB

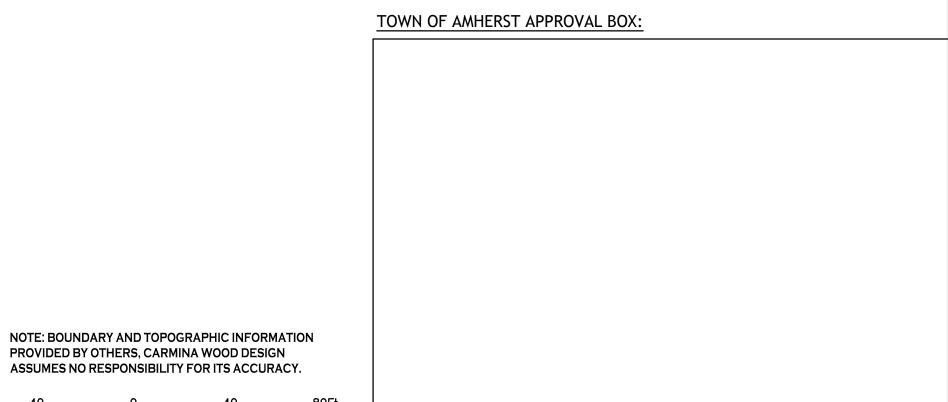
BUILDING OR OTHER STRUCTURE

SIDEWALK RAMP DETAILS NOT TO SCALE

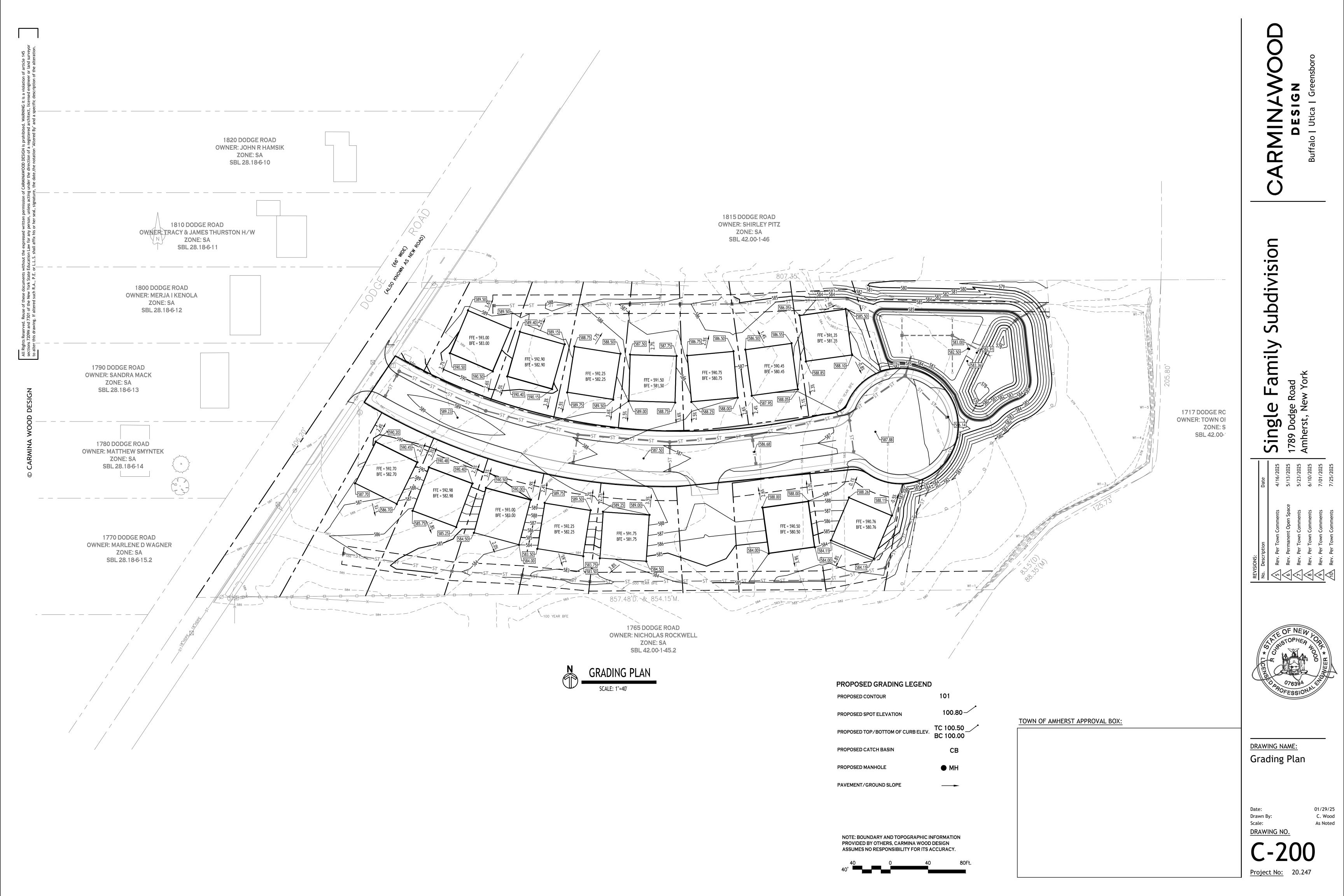
\_PAVEMENT



ROLLED CURB DETAIL NOT TO SCALE



TYPICAL PAVEMENT SECTION



DRAWING NAME: **Road Profile** 

TOWN OF AMHERST APPROVAL BOX:

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

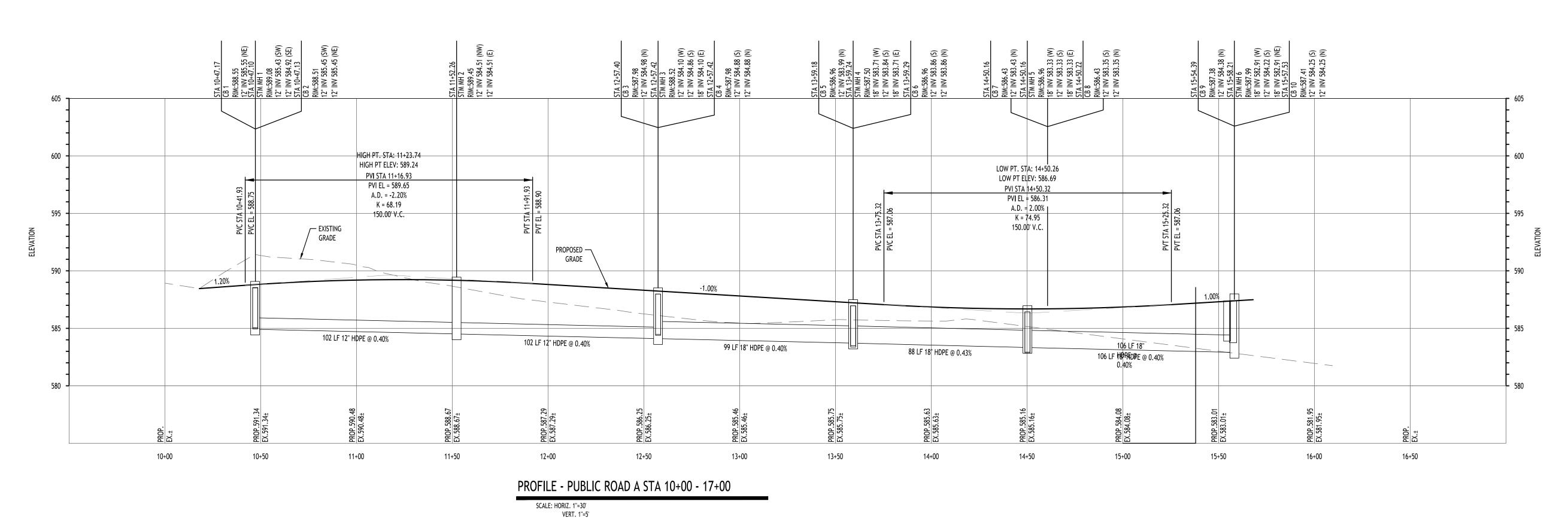
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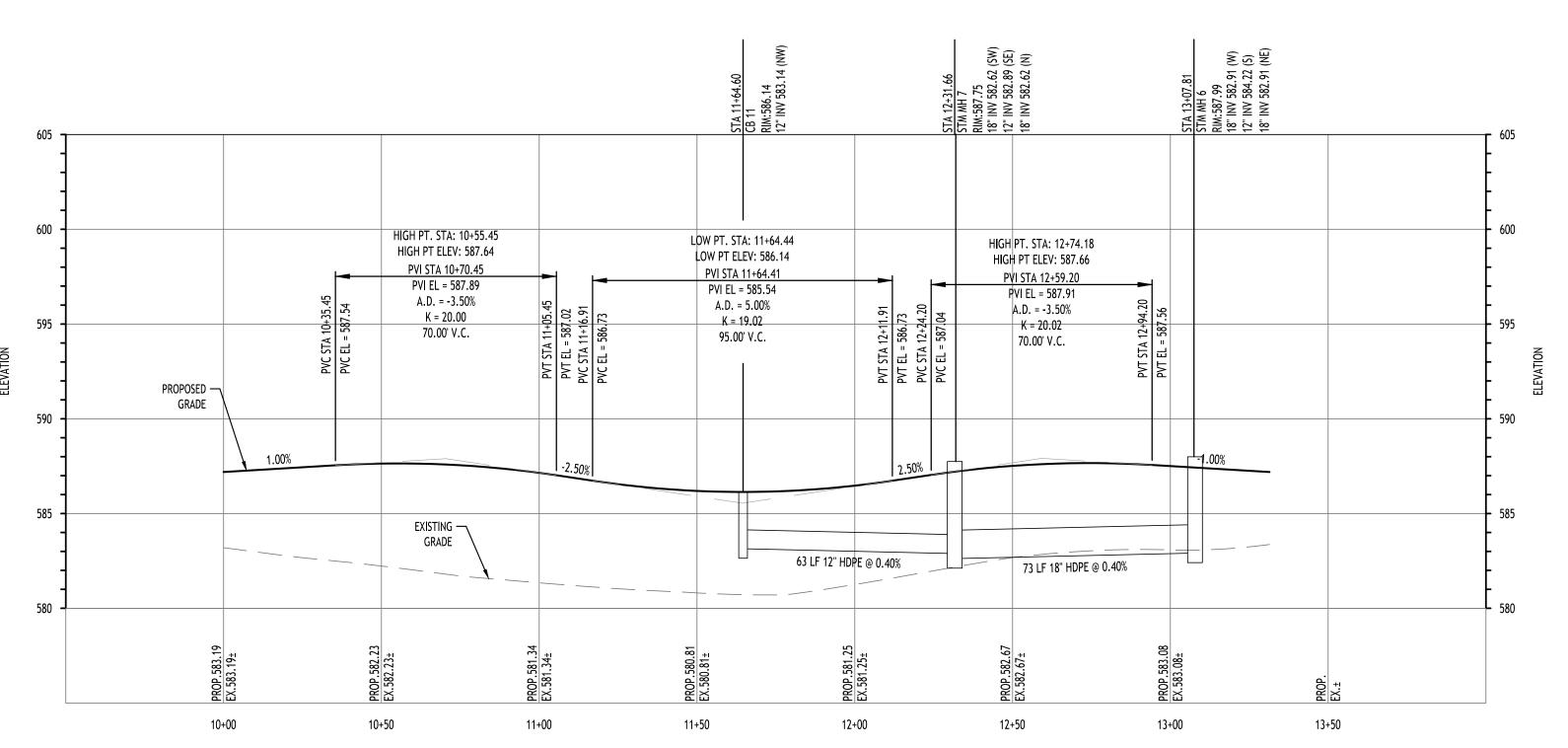
01/29/25

C. Wood

As Noted

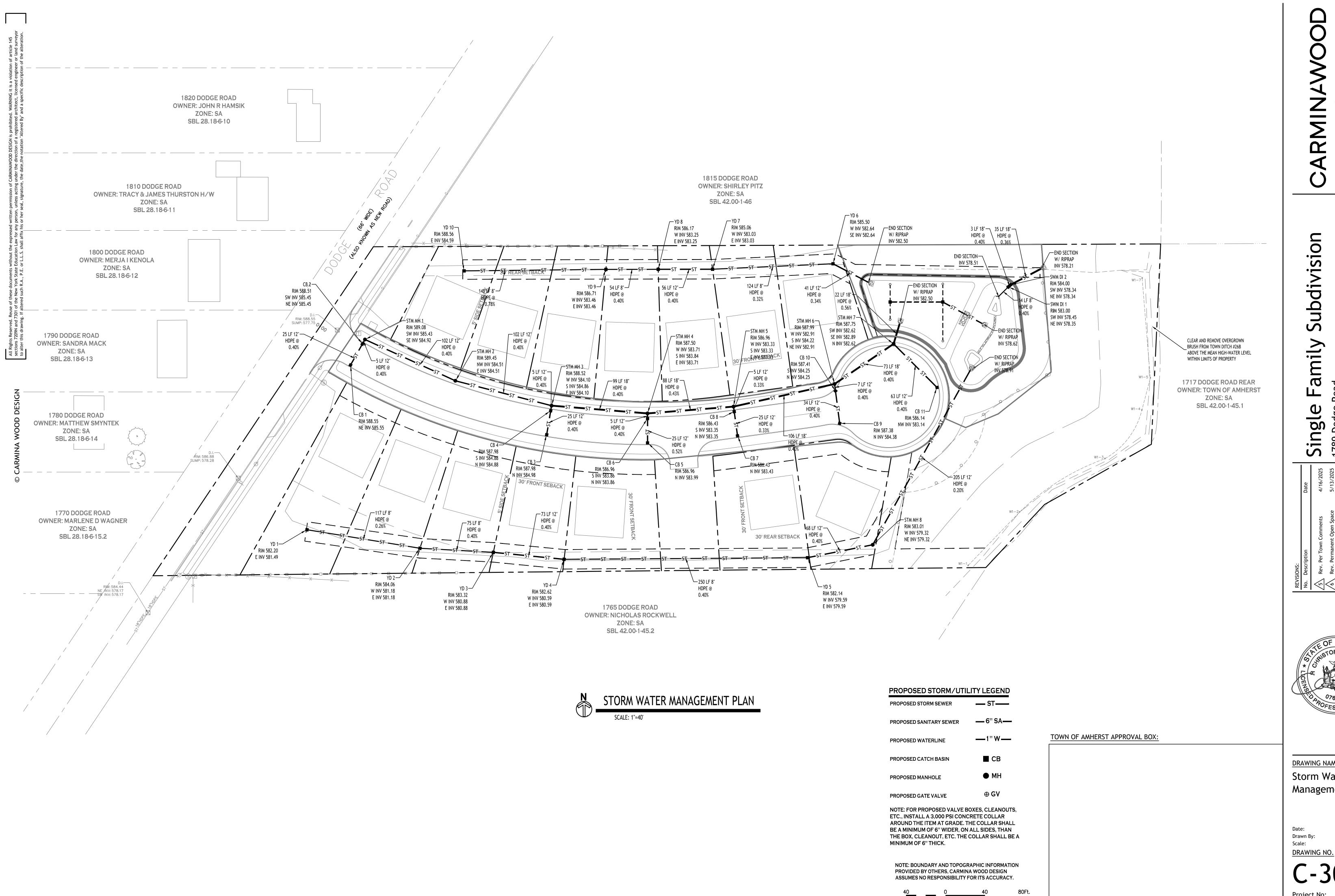
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PROFILE - PUBLIC ROAD A CUL-DE-SAC STA 10+00 - 14+00

SCALE: HORIZ. 1"=30" VERT. 1"=5'

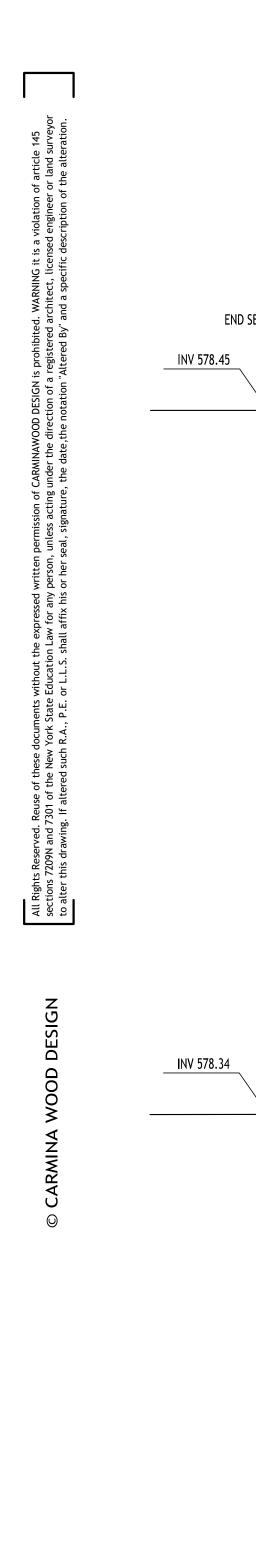


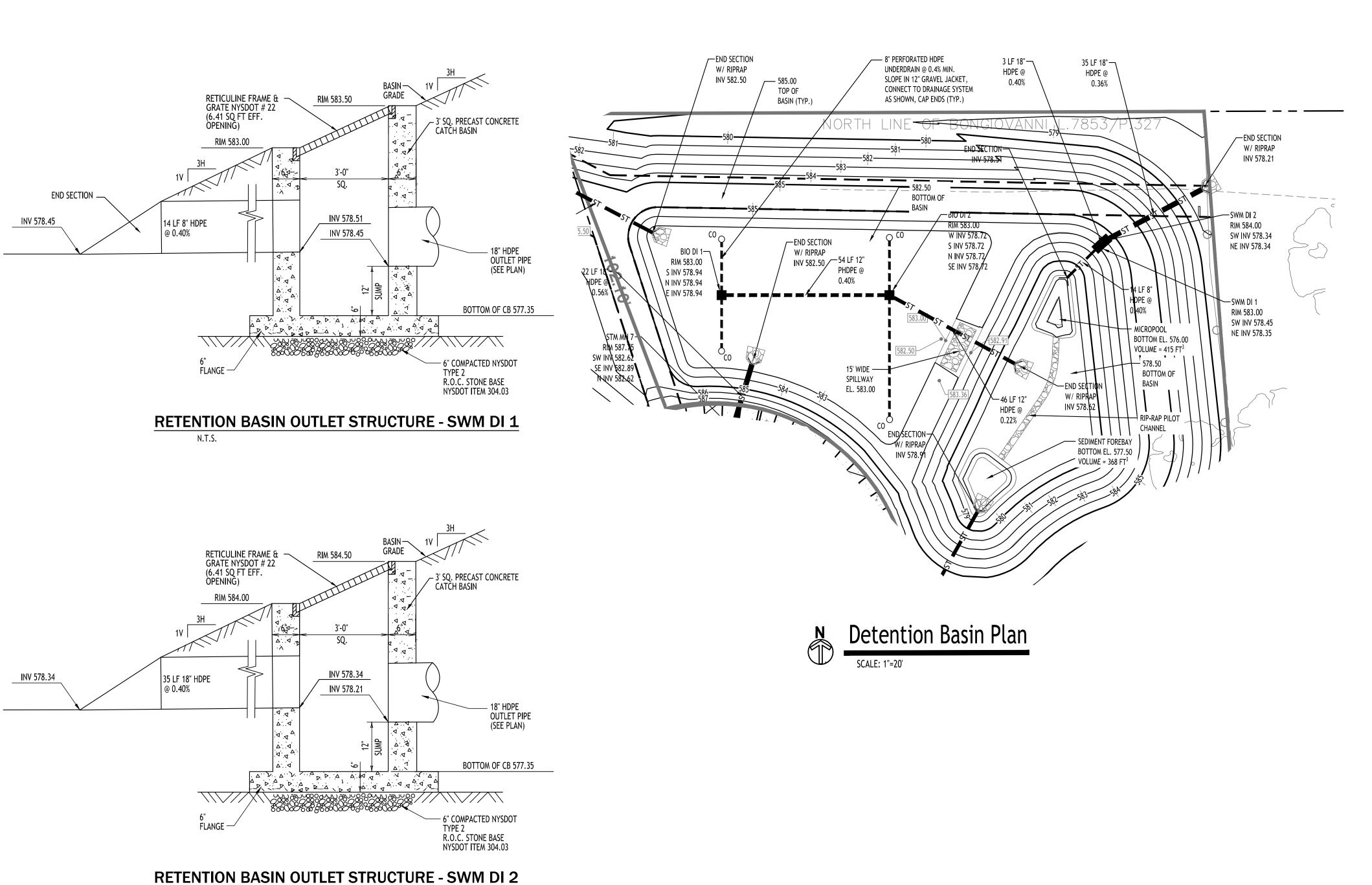
DRAWING NAME: Storm Water Management Plan

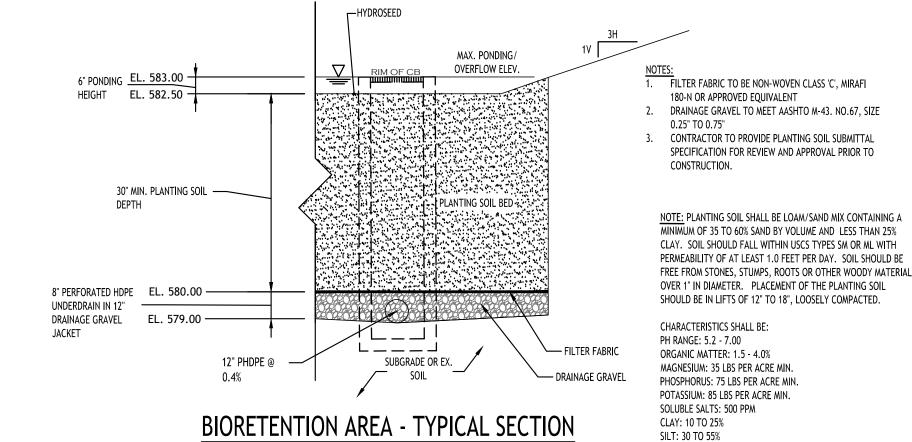
As Noted

01/29/25

C. Wood

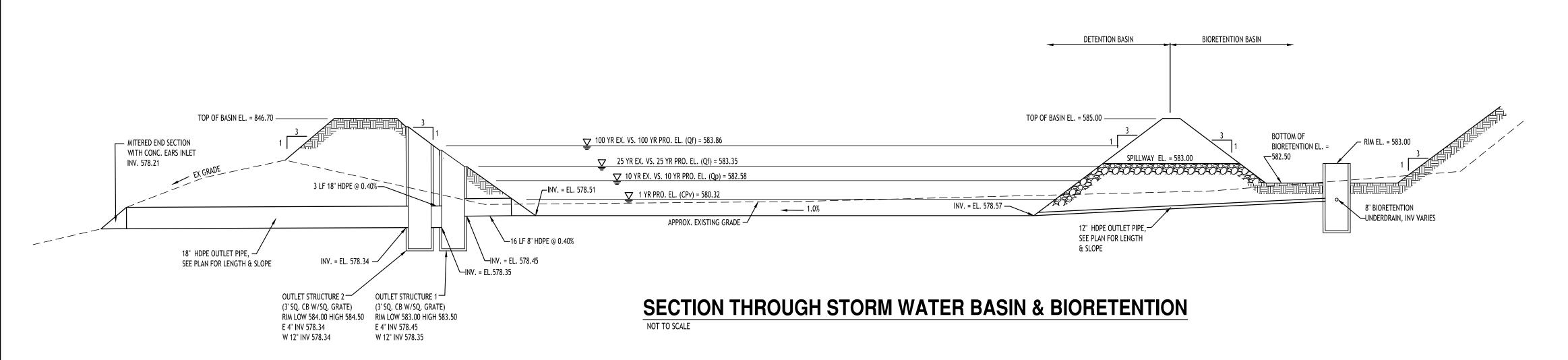






Seed Mixture	<u>Variety</u>	Percent by No. of Seeds	
Creeping Bentgrass	Agrostis stolonifera	63.0	
Rough Bluegrass	Poa trivialis	17.0	
Meadow Foxtail	Alopecurus arundinaceus	11.0	
Annual Ryegrass	Lolium multiflorum	4.5	
Deertongue	Panicum clandestinum	4.5	

SAND: 35 TO 60%



TOWN OF AMHERST APPROVAL BOX:

Drawn By: DRAWING NO.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

DRAWING NAME: **Detention Basin** 

division

01/29/25 C. Wood

NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

#### MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL

TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE

NO SLAG SHALL BE ALLOWED FOR MATERIAL

### STORM SEWER TRENCH SECTION IN PAVED AREAS NOT TO SCALE

TRENCH WIDTH
(I.D. + 24")

1/3 I.D. (6"MIN.)

1/3 I.D. (6"MIN.)

NOTES:

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#### <u>MATERIALS</u>

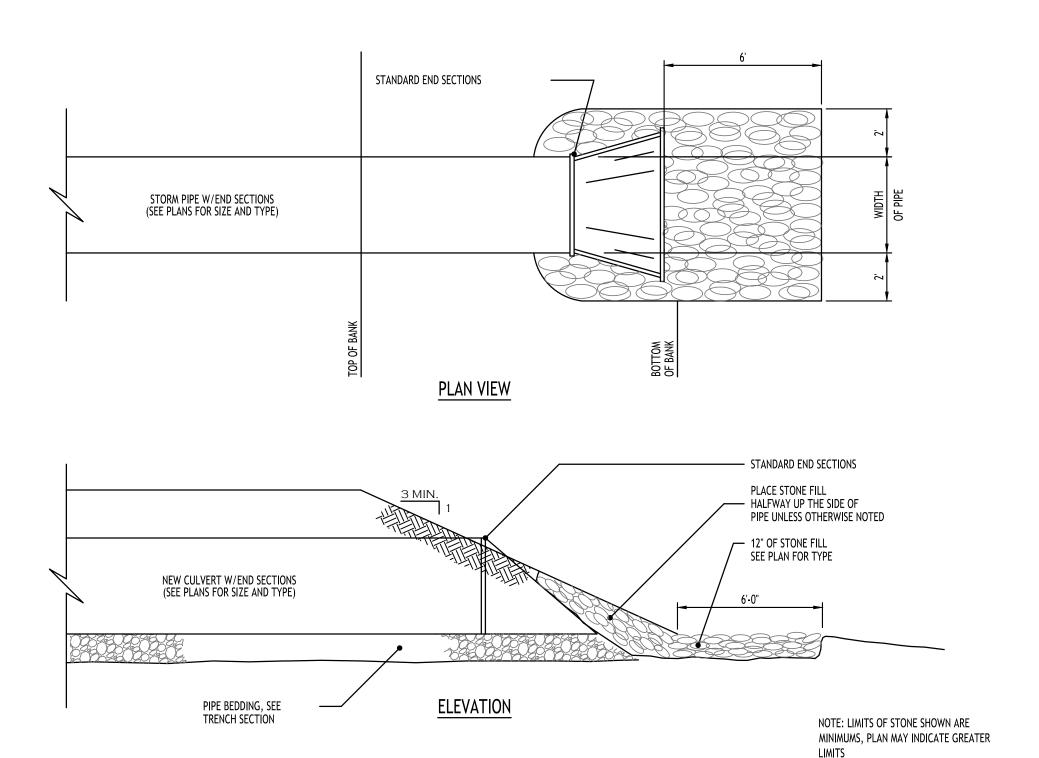
PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL

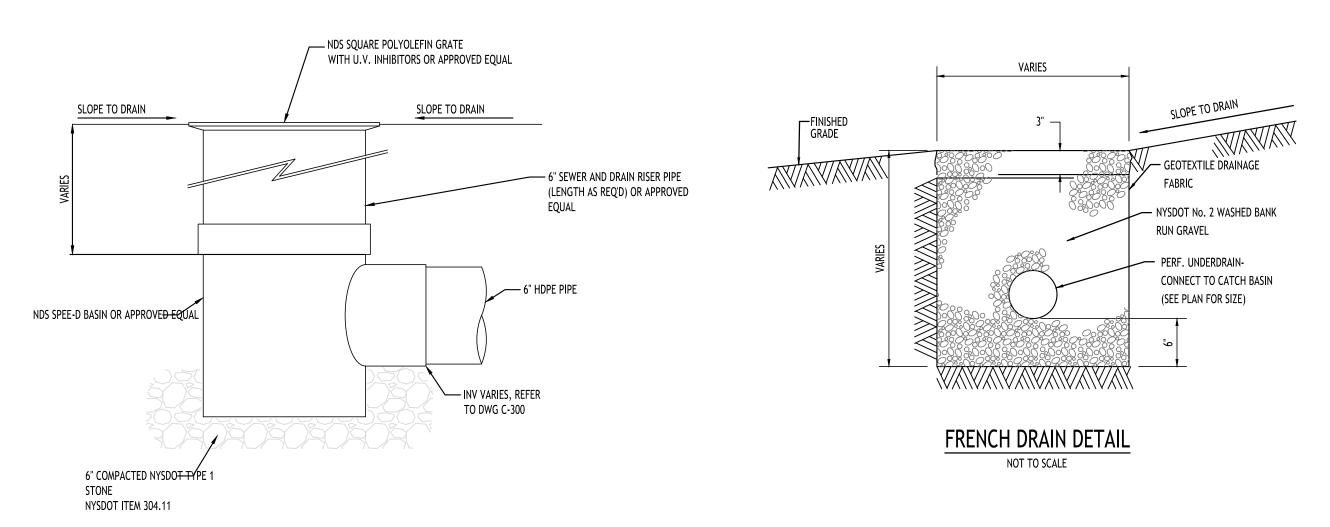
BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

### STORM SEWER TRENCH SECTION IN UNPAVED AREAS NOT TO SCALE



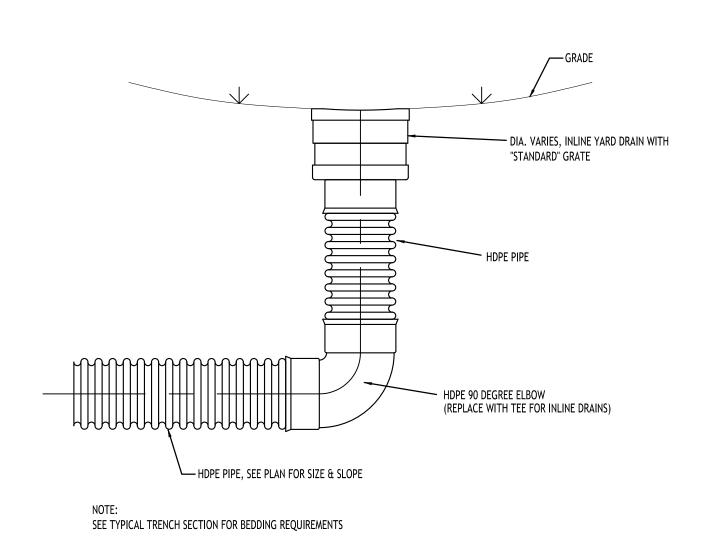
TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



TYPICAL AREA DRAIN DETAIL

NOT TO SCALE



TYPICAL YARD DRAIN DETAIL

NOT TO SCALE



Storm Drainage
Details

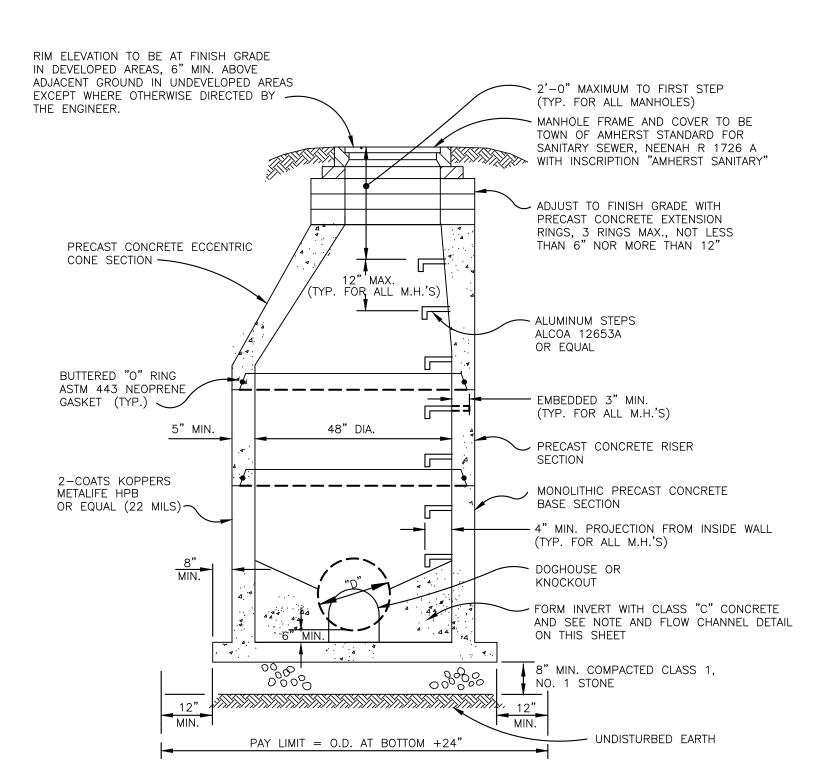
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Drawn By:
Scale:
DRAWING NO.

C-302

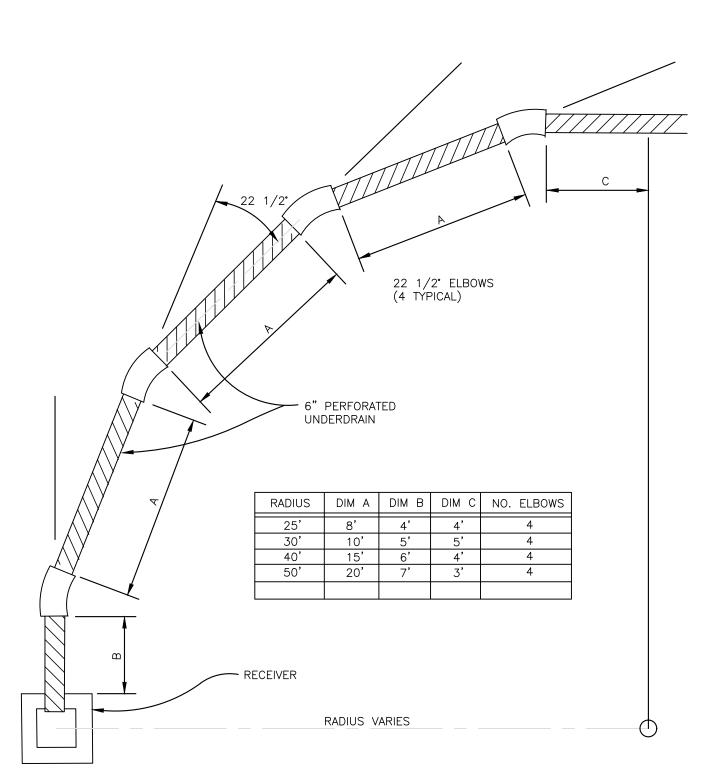
01/29/25

C. Wood

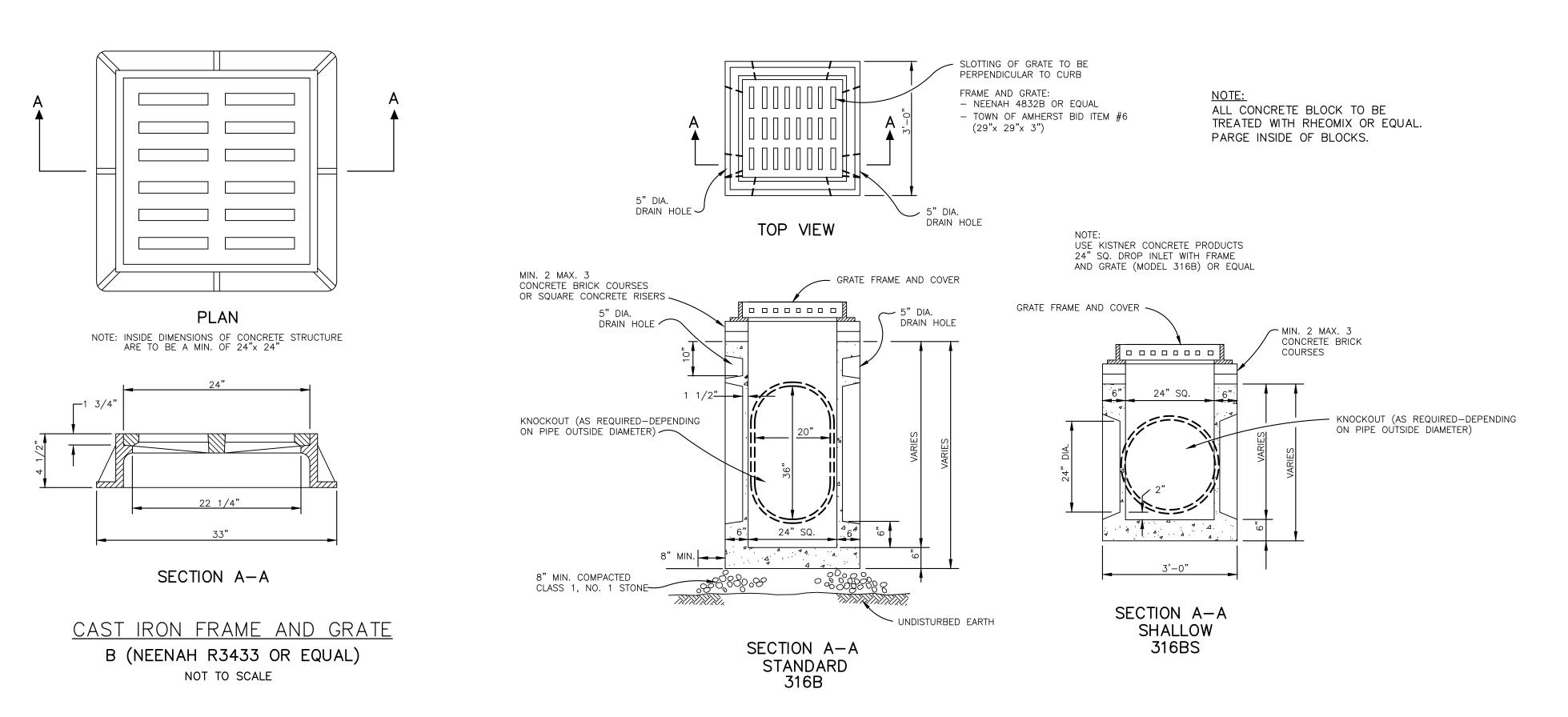
As Noted



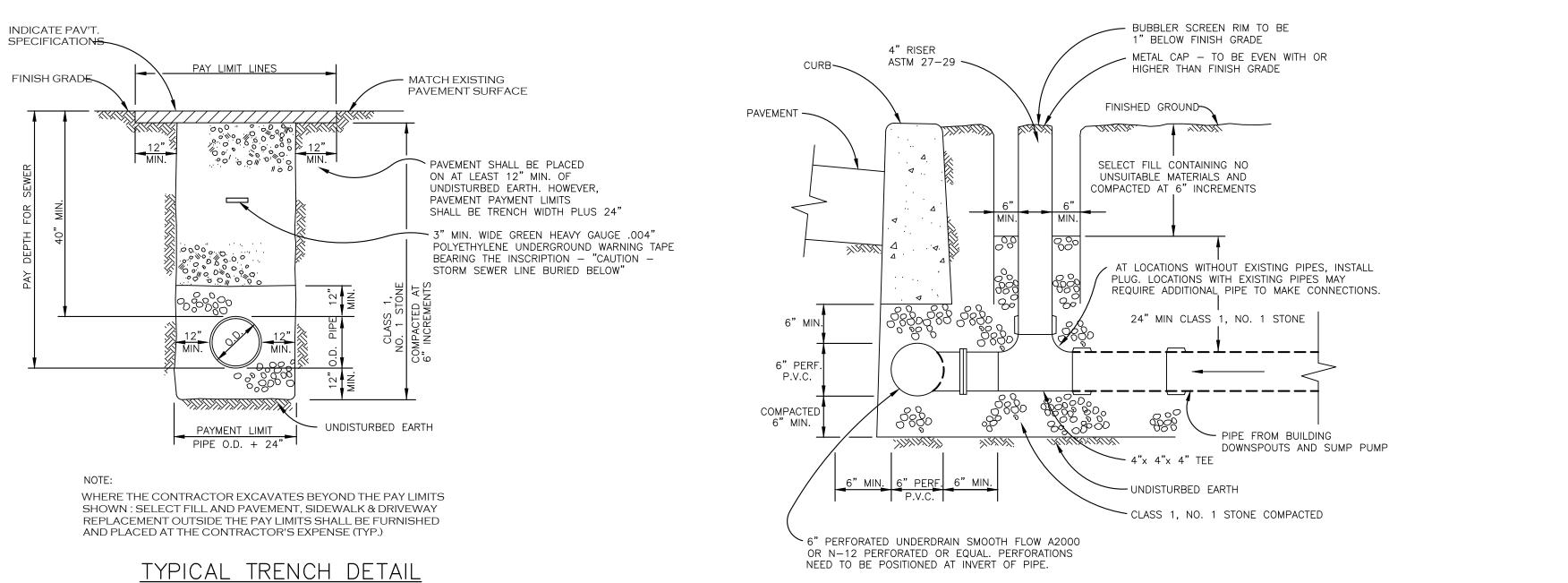
STANDARD STORM MANHOLE NOT TO SCALE



TYPICAL UNDERDRAIN INSTALLED AROUND CURVE NOT TO SCALE







TOWN ROAD CROSSING

NOT TO SCALE





Sio

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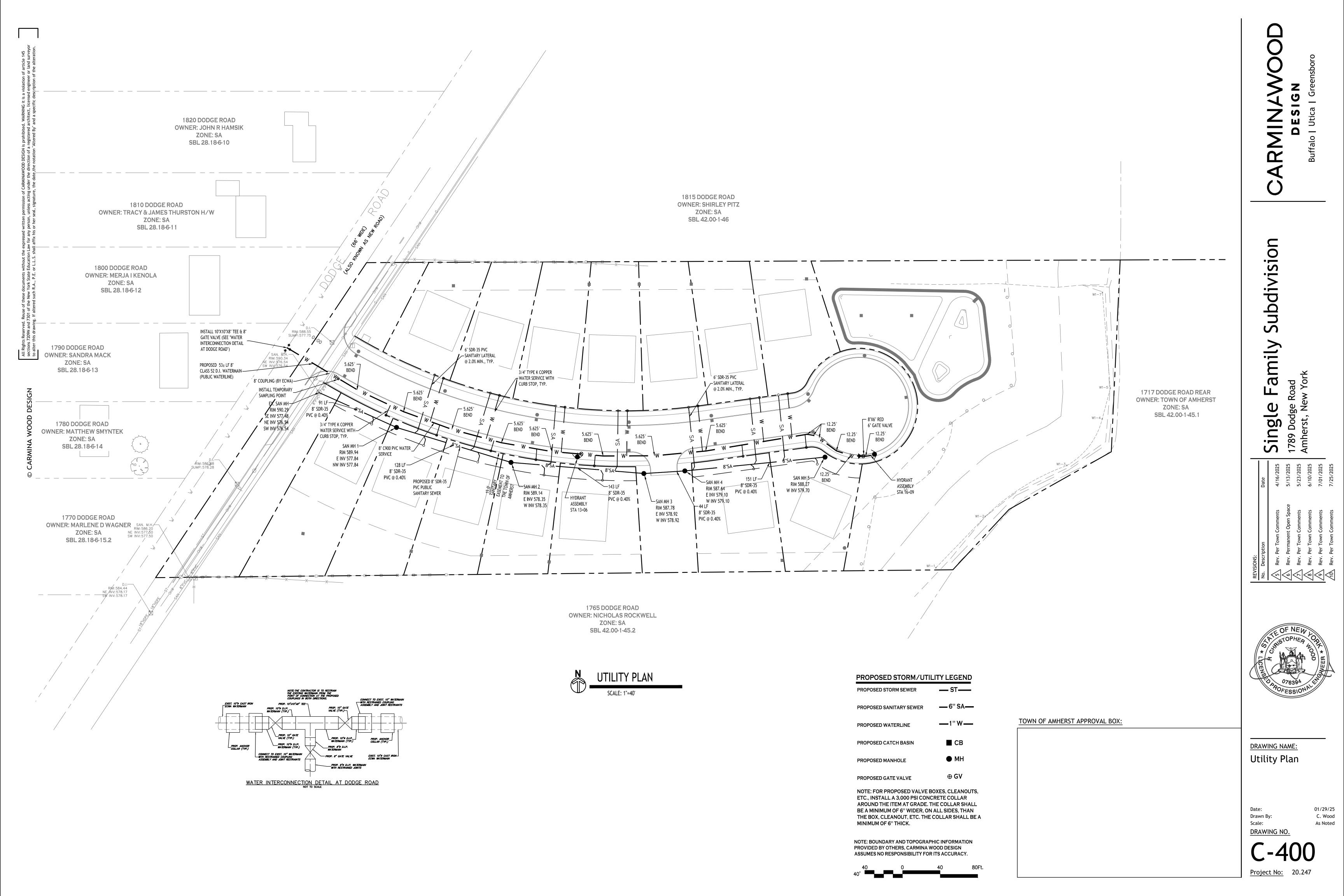
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Date: Drawn By: Scale: DRAWING NO.

01/29/25

C. Wood

As Noted



1789 Dodge Road
Manherst, New York

| 75 | Rev. Per Town Comments | 6 | Rev. Permanent Open Space | 7 | Rev. Per Town Comments | 8 | Rev. Per Town Comments | 9 | Rev. P

CET OF NEW LOAD & BUILD OF NEW LOAD OF SSIONAL IN THE OF NEW LOAD OF SSIONAL IN THE OF SSIONAL IN THE

DRAWING NAME:
Utility Road
Profile

Date:
Drawn By:
Scale:
DRAWING NO.

01/29/25 C. Wood As Noted

DRAWING NO.

C-40

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

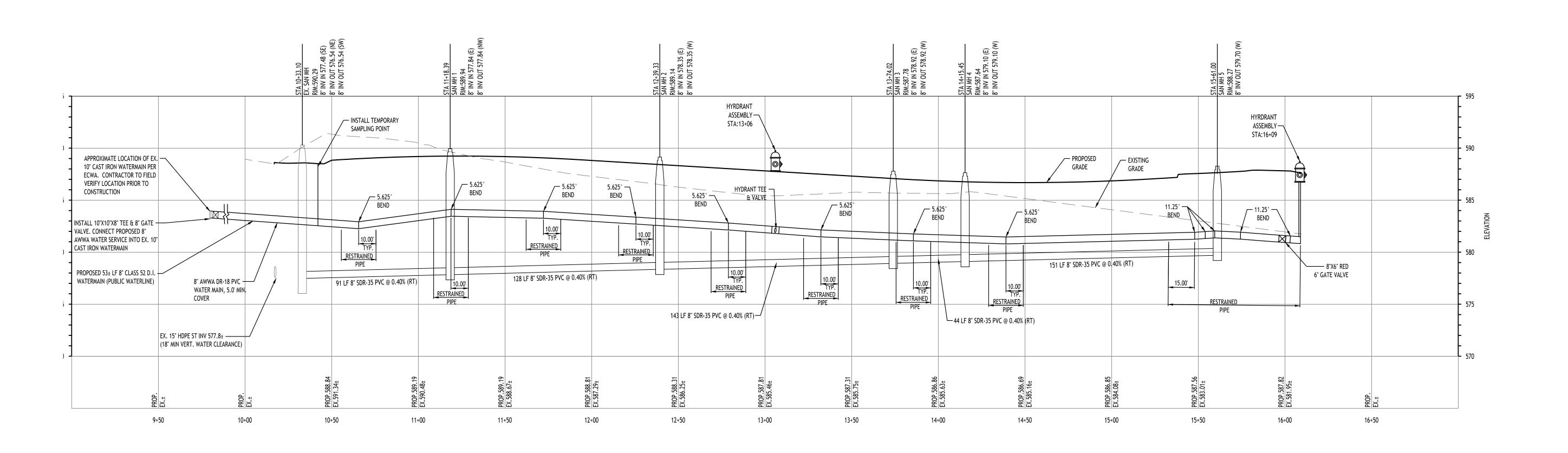
30 0 30 60Ft.

HORIZ. 30'

5 0 5 10Ft.

VERT. 5'

TOWN OF AMHERST APPROVAL BOX:



PROFILE - ROAD A

SCALE: HORIZ. 1"=30' VERT. 1"=5'

WHERE THE CONTRACTOR EXCAVATES BEYOND THE PAY LIMITS SHOWN;

SELECT FILL AND PAVEMENT, SIDEWALK & DRIVEWAY REPLACEMENT

CONTRACTOR'S EXPENSE. (TYP.)

(SEE PAVEMENT SECTION DWG. NO. 5, PAGE 3 OF 4)

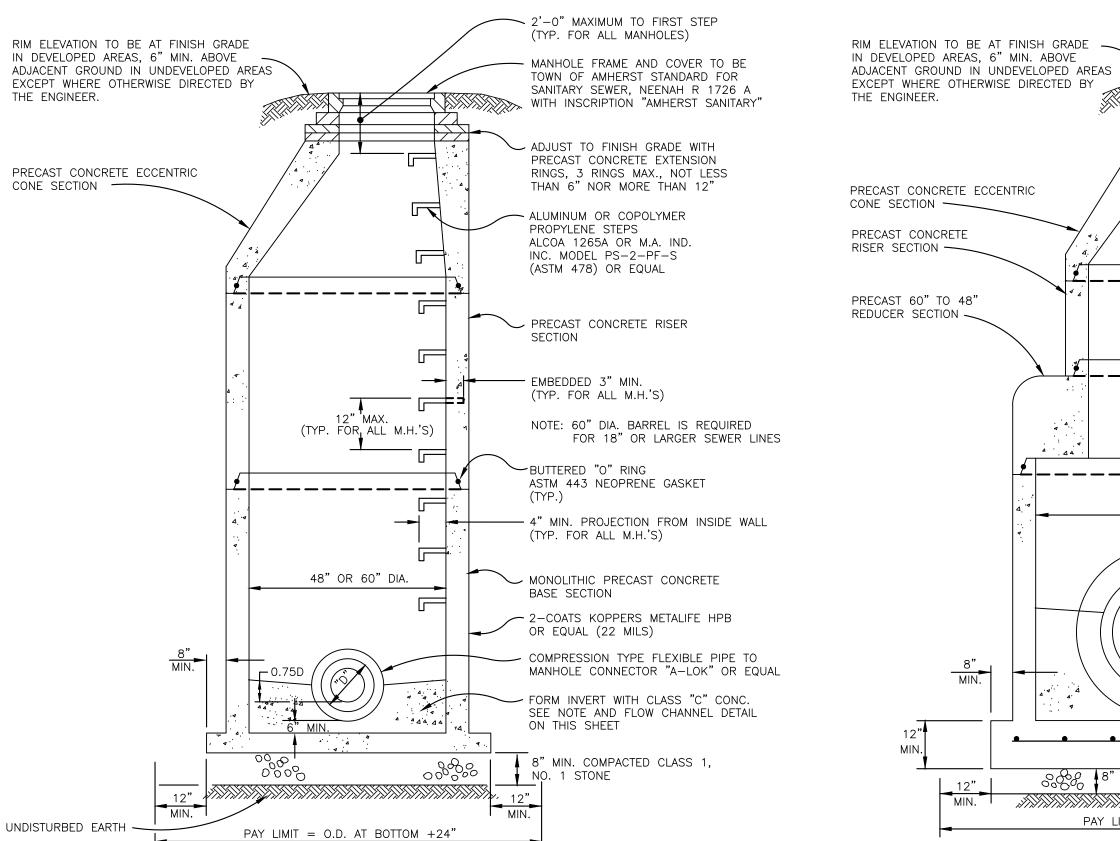
OUTSIDE THE PAY LIMITS SHALL BE FURNISHED AND PLACED AT THE

Date: Drawn By: Scale:

As Noted DRAWING NO.

01/29/25

C. Wood



JUNCTIONS

FLOW CHANNELS MUST ALLOW PLACEMENT, REMOVAL AND PASSAGE OF T.V. CAMERAS. THE CAMERA DIMENSIONS ARE APPROXIMATELY 26" LONG x 6 1/2" SQUARE. A BLOCK OF WOOD OF THESE

DIMENSIONS MAY BE USED TO SIMULATE THE SIZE OF THE CAMERA.

THIS WILL SIMPLIFY THE FORMATION OF FLOW CHANNELS AND

SMOOTH & UN-OBSTRUCTED FLOW ALL INVERTS TO BE FLUSH

FLOW CHANNEL DETAIL

SANITARY SEWERS

NOT TO SCALE

DEPTH OF ALL CHANNELS TO BE 75% OF PIPE DIAMETER.

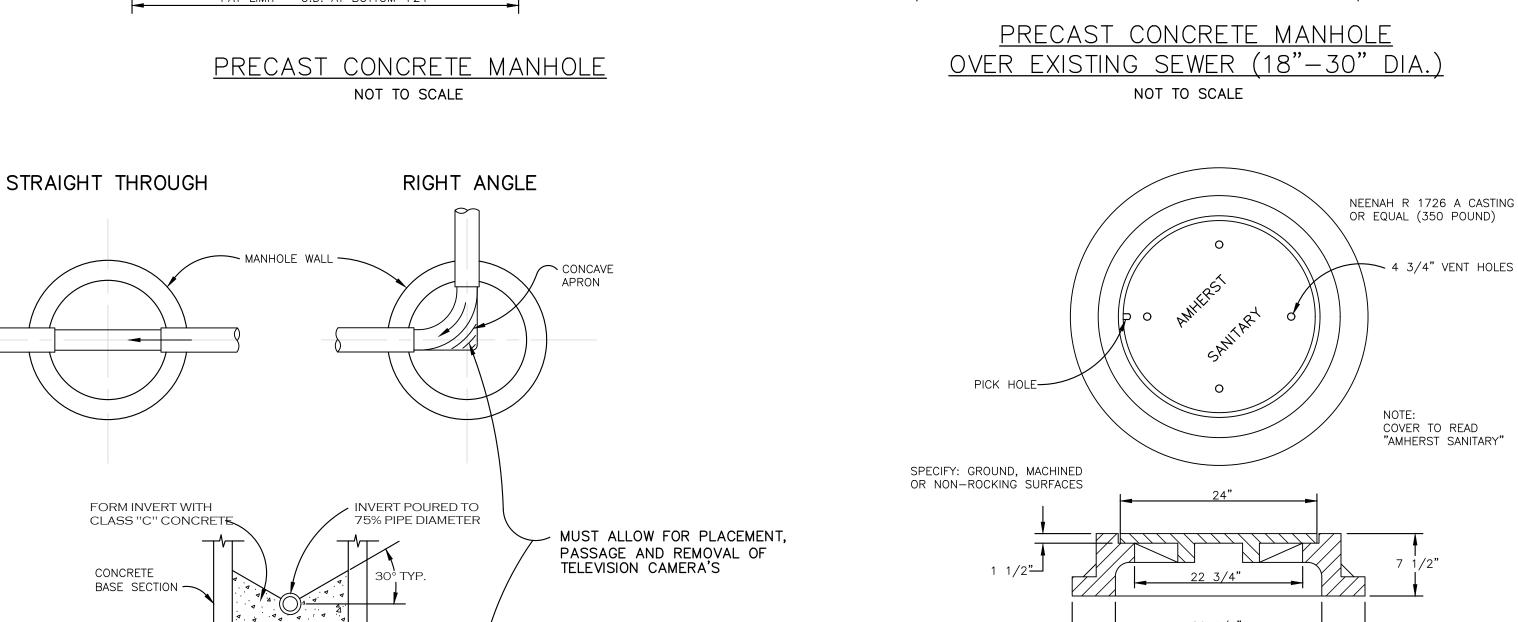
FINISH ALL CHANNELS AT PROPER GRADE AS TO ALLOW

3-WAY JUNCTION

4-WAY JUNCTION

INVERTS.

WITH THE INSIDES.



#### STANDARD MANHOLE FRAME AND COVER VENTED COVER NOT TO SCALE

MANHOLE FRAME AND COVER TO BE

TOWN OF AMHERST STANDARD FOR

- ADJUST TO FINISH GRADE WITH

PRECAST CONCRETE EXTENSION

THAN 6" NOR MORE THAN 12"

BUTTERED "O" RING

PROPYLENE STEPS

ON THIS SHEET

2 COATS KOPPERS

ON THIS SHEET

(22 MILS)

METALIFE HBP OR EQUAL

FORM INVERT WITH CLASS "C" CONC.

SEE NOTE AND FLOW CHANNEL DETAIL

NO. 4 GAGE AT 9" O.C. HORIZONTAL

AND LONGITUDINAL OR WELDED WIRE MESH 6"x 6" NO. 10 GAGE

- UNDISTURBED EARTH

60" DIA.

8" MIN. COMPACTED CLASS 1, 600 NO. 1 STONE

PAY LIMIT = O.D. AT BOTTOM +24"

ASTM 443 NEOPRENE GASKET

ALUMINUM OR COPOLYMER

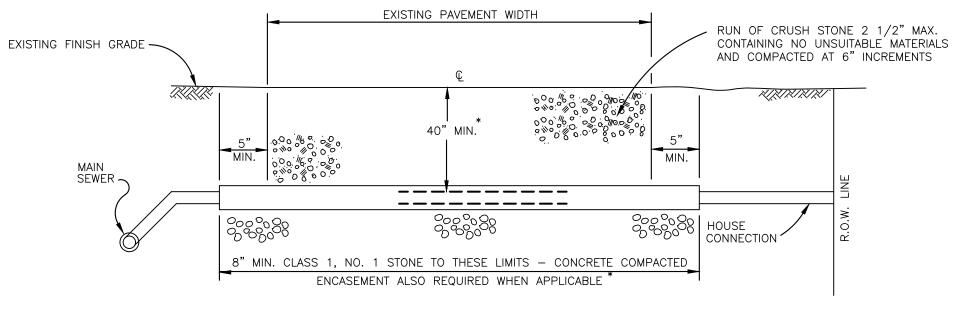
ALCOA 1265A OR M.A. IND.

INC. MODEL PS-2-PF-S (ASTM 478) OR EQUAL AND SEE PRECAST CONC. M.H. DETAIL

RINGS, 3 RINGS MAX., NOT LESS

SANITARY SEWER, NEENAH R 1726 A

WITH INSCRIPTION "AMHERST SANITARY"



\*WHEN DEPTH FROM TOP OF HOUSE CONNECTION PIPE TO SURFACE IS LESS THAN 6.0 FEET, A CONCRETE ENCASEMENT WILL BE REQUIRED TO THE LIMITS SHOWN (SEE WATER CROSSING DETAIL SAN. SEWERS DWG. #4 - PG. #2 OF 4)

> SANITARY TYPICAL PAVEMENT CROSSING

3" MIN. WIDE GREEN HEAVY GAUGE .004" POLYETHYLENE UNDERGROUND WARNING TAPE BEARING THE INSCRIPTION - "CAUTION -SANITARY SEWER LINE BURIED BELOW" - UNDISTURBED EARTH PAYMENT LIMIT PIPE O.D. + 24" IF CONCRETE ENCASEMENT IS REQUIRED, IT SHALL BE INSTALLED IN PLACE OF (AND TO THE DIMENSIONS OF) THE PIPE BEDDING AND COVER TO 12" MIN. ABOVE AND BELOW THE PIPE (SEE WATER CROSSING DETAIL ON THIS SHEET) TYPICAL TRENCH DETAIL — TOWN ROAD CROSSING FOR MAIN SEWERS

SAW CUT

PAVEMENT SHALL BE PLACED

ON AT LEAST 12" MIN. OF UNDISTURBED EARTH. HOWEVER,

PAVEMENT PAYMENT LIMITS

SHALL BE TRENCH WIDTH PLUS 24"

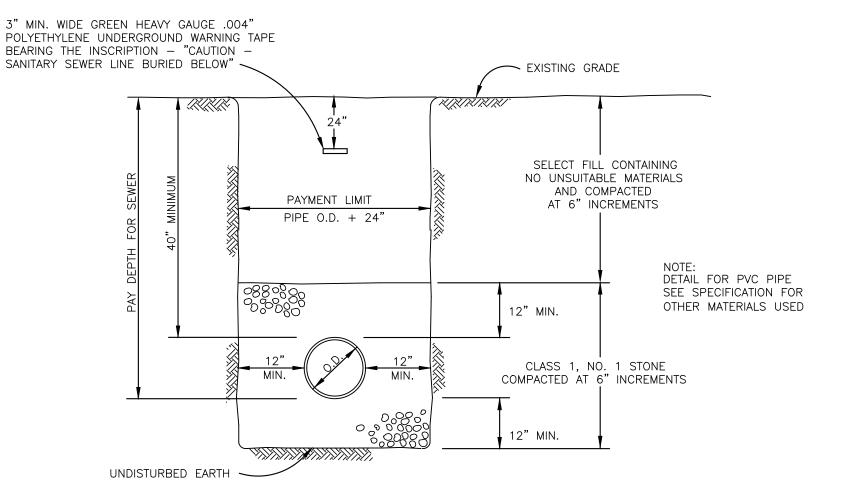
& HOUSE AND BUILDING CONNECTIONS NOT TO SCALE

PAY LIMIT LINES

1100

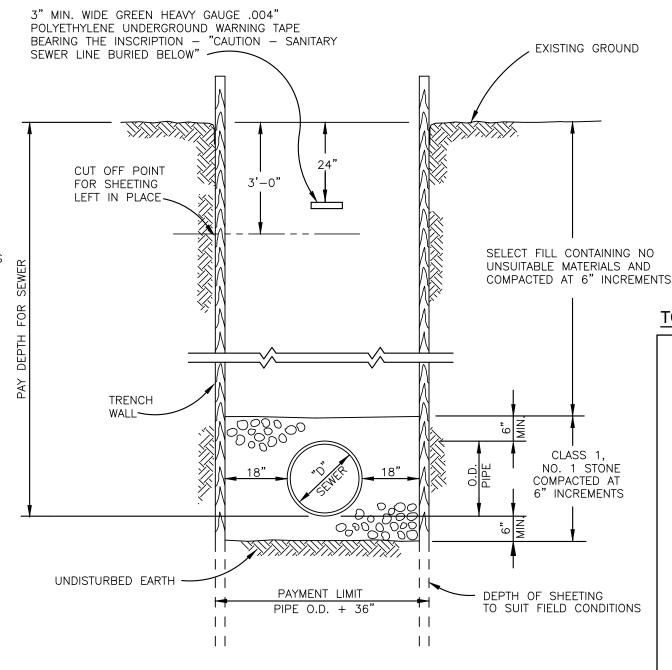
EXISTING PAVEMENT SURFACE

SAW CUT <



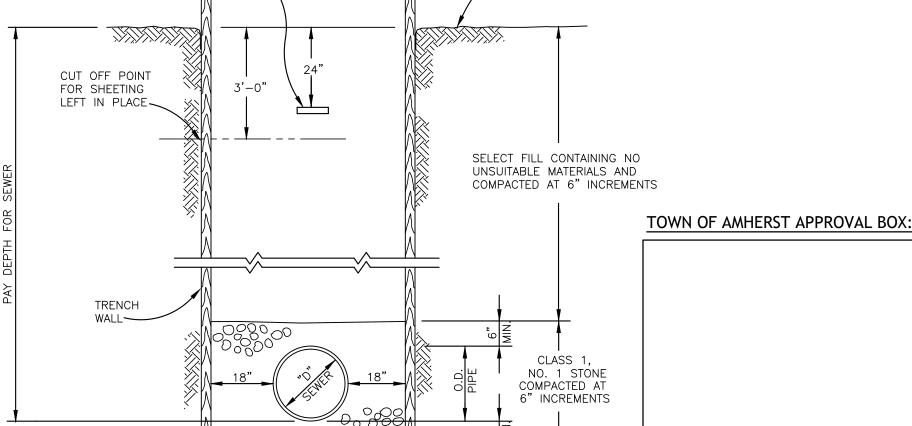
#### TYPICAL EARTH TRENCH DETAIL UNPAVED AND UNTRAVELED AREAS

NOT TO SCALE

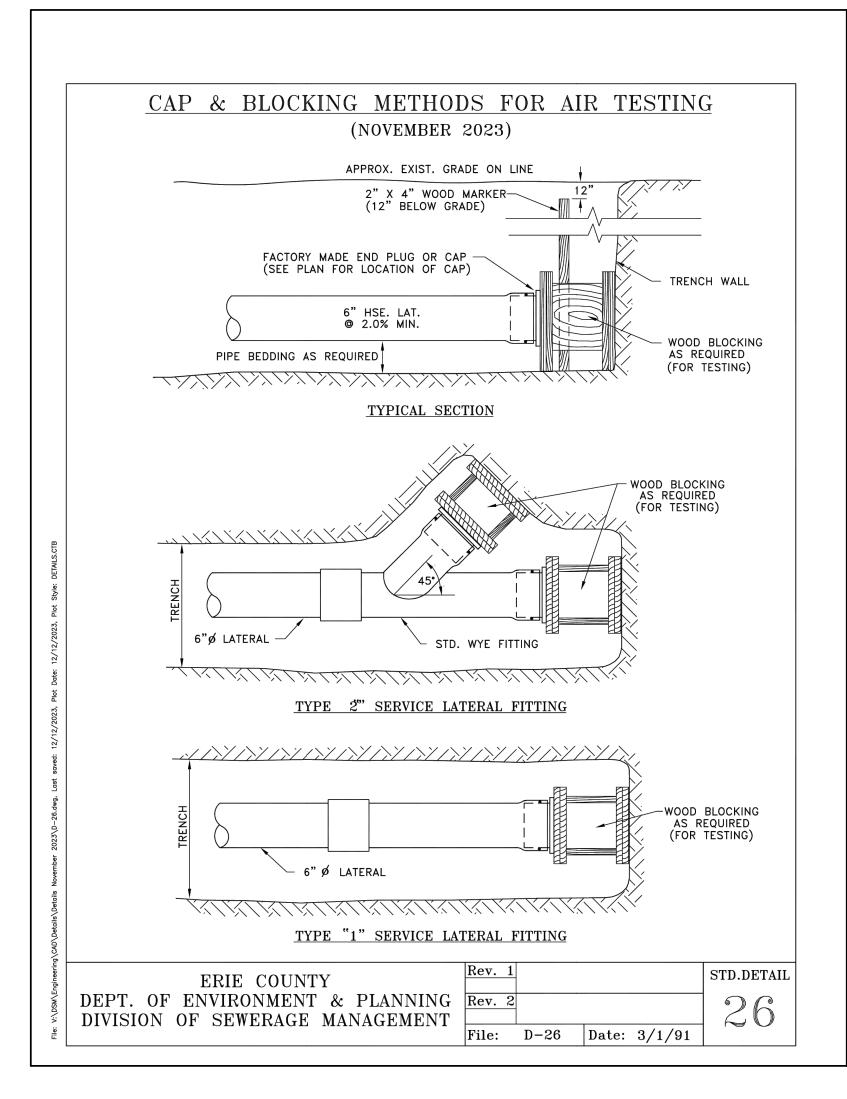


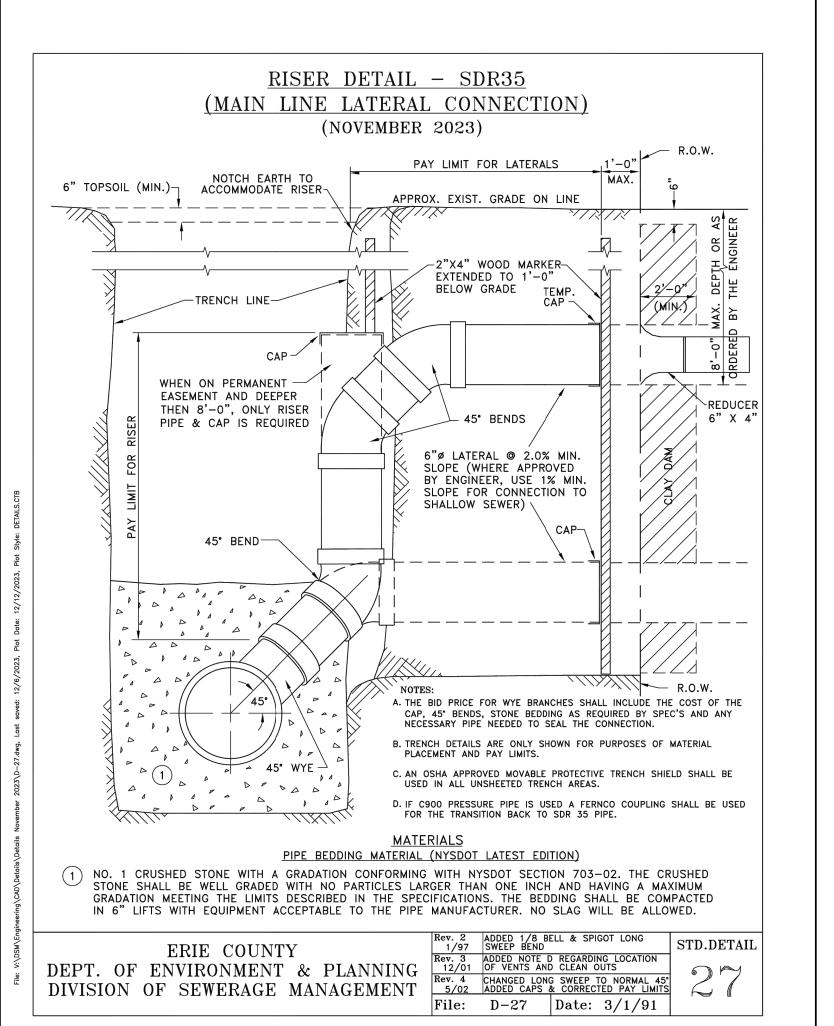
SHEETED TRENCH DETAIL

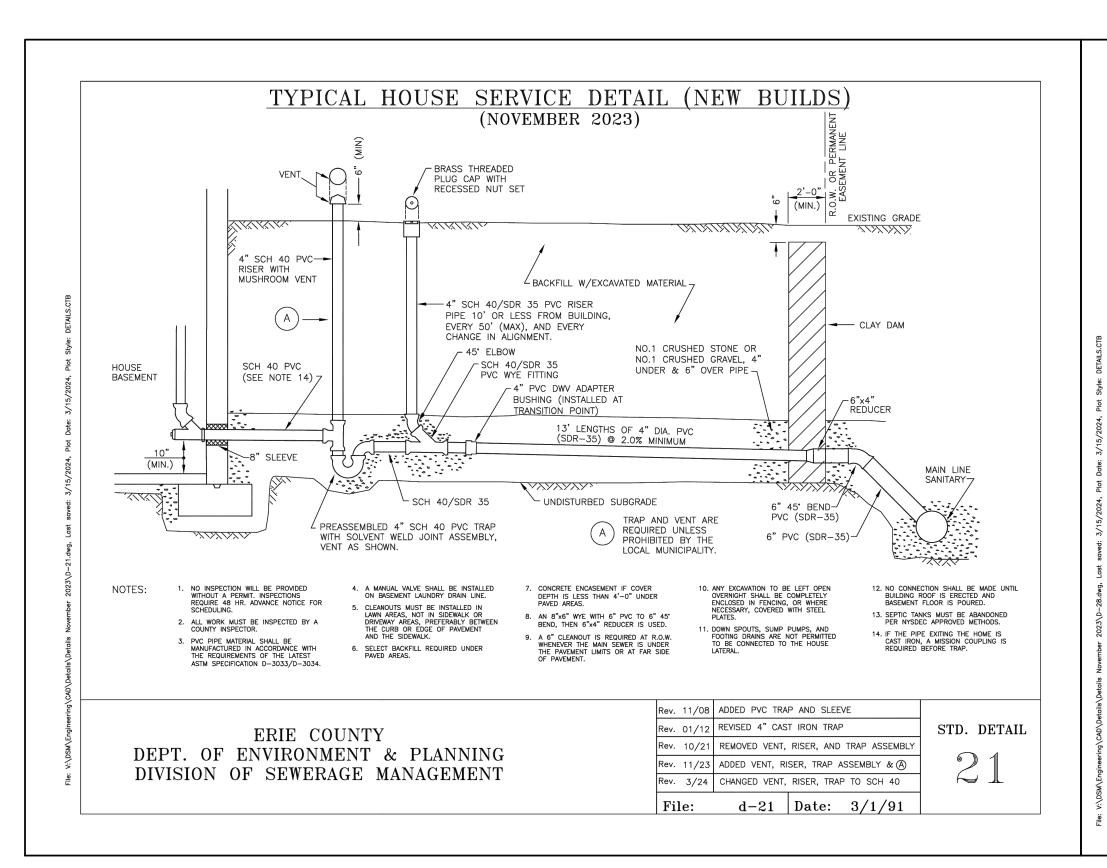
NOT TO SCALE

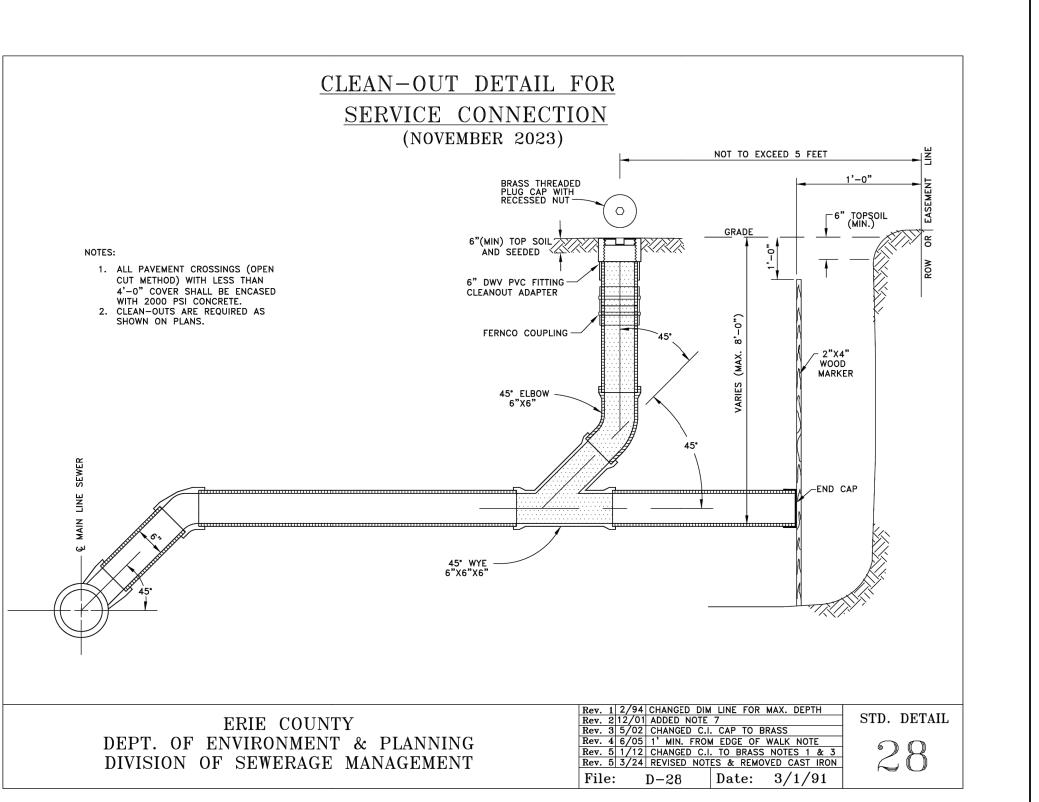


FOR HOUSE CONNECTION NOT TO SCALE









G



TOWN OF AMHERST APPROVAL BOX:

DRAWING NAME: Sanitary Sewer **Details** 

> Date: Drawn By: Scale: DRAWING NO.

01/29/25

C. Wood

As Noted

#### SANITARY SEWER TESTING METHOD NOTES

#### (A) <u>LEAKAGE TESTS</u>

- 01. THE TEST PERIOD WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN 24 HOURS, REGARDLESS OF THE TEST METHOD USED.
- 02. THE TOTAL LEAKAGE OF ANY SECTION TESTED BY ANY TEST METHOD SHALL NOT EXCEED THE RATE OF 200 GALLONS PER MILE OF PIPE PER 24 HOURS PER INCH OF NOMINAL PIPE DIAMETER.
- O3. MANHOLES SHALL BE CONSIDERED AS SECTIONS OF 48" DIAMETER PIPE AND THE EQUIVALENT LEAKAGE ALLOWANCE SHALL BE COMPUTED PER NOTE 02 USING THE SUBMERGED HEIGHT OF MANHOLE AS THE LENGTH.
- O4. WHEN MANHOLES ARE TESTED SEPARATELY, ALL PIPE OPENINGS SHALL BE PLUGGED AND THE TEST PROCEDURES AND CRITERIA SHALL BE APPLIED IN THE SAME MANNER AS FOR TESTS INVOLVING ONLY THE PIPE OR A COMBINATION OF PIPE AND MANHOLES.

#### (B) <u>INFILTRATION TEST</u> CRITERIA FOR USE

- O1. THIS TEST METHOD MAY ONLY BE USED WHEN GROUND WATER LEVELS ARE AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE LENGTH OF THE SECTION TO BE TESTED DURING THE ENTIRE PERIOD OF THE TESTS.
- O2. GROUND WATER LEVELS MAY BE MEASURED IN AN OPEN TRENCH OR IN STANDPIPES PREVIOUSLY PLACED IN BACKFILLED TRENCHES DURING BACKFILLING.
- 03. THE NUMBER OF STANDPIPES REQUIRED AND LOCATION OF THE SAME ARE TO BE AS ORDERED BY THE ENGINEER. STANDPIPES MAY BE OF ANY PIPE MATERIAL BUT MUST BE OF SUCH DIAMETER (2-1/2" MINIMUM) AS TO PERMIT THE INSERTION OF A RULE OR LEVEL ROD. CRUSHED STONE SHALL BE PLACED AROUND THE LOWER OPEN ENDS OF THE STANDPIPES.
- 04. STANDPIPES ARE TO BE REMOVED AT THE SATISFACTORY COMPLETION OF THE TESTS.
- 05. IF IN LIEU OF STANDPIPES, THE TRENCH IS TO BE LEFT OPEN FOR GROUND WATER OBSERVATION, THE LENGTH OF UNBACKFILLED TRENCH AT ANY ONE TIME MAY HAVE TO BE LIMITED FOR REASONS OF SAFETY.

#### (C) <u>EXFILTRATION TEST</u> CRITERIA FOR USE

- O1. THIS TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE OR ABOVE GROUND WATER WHICHEVER IS HIGHER AT THE HIGHEST POINT OF THE PIPE LINE UNDER TEST, AND THEN MEASURING THE LOSS OF WATER TO MAINTAIN THE ORIGINAL LEVEL.
- 02. IN THIS TEST THE PIPE LINE MUST BE FILLED WITH WATER AND ALLOWED TO REMAIN SO FILLED FOR AT LEAST 24 HOURS PRIOR TO TAKING MEASUREMENTS.
- 03. REGARDING GROUND WATER MEASUREMENTS: SEE NOTES 02 THROUGH 05 ABOVE.
- 04. REGARDING THE TEST STANDPIPE: THERE MUST BE SOME POSITIVE METHOD OF RELEASING ENTRAPPED AIR IN THE SEWER PRIOR TO TAKING MEASUREMENTS.

#### (D) DEFLECTION TEST FOR PVC SEWER PIPE

- O1. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE GRAVITY SEWER PIPE. TESTS SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.
- 02. NO PIPE SHALL EXCEED DEFLECTION OF 5%. DEFLECTION GAGE MAY BE BORROWED FROM THE TOWN ENGINEER FOR 8" AND 10" PIPE. THE DEFLECTION TEST MUST BE EXECUTED AFTER 30 DAYS OF PLACEMENT OF FINAL BACKFILL. THE TEST WILL ALSO BE DONE WITHOUT MECHANICAL PULLING DEVICES.

#### MANHOLE PLACEMENT AND MAINTENANCE DURING CONSTRUCTION AND DEVELOPMENT

CONTRACTOR AND/OR DEVELOPERS SHALL CONSTRUCT ALL MANHOLE STRUCTURES IN ACCORDANCE WITH THE TOWN OF AMHERST STANDARD SPECIFICATIONS OR THE SPECIFICATIONS OF THE DESIGN ENGINEER WHEN REQUIRED BY THE

ALL MANHOLES ARE TO BE DESIGNED AND FURNISHED WITH RIM ELEVATIONS AT FINAL FINISHED GRADES. THE CONTRACTOR, DEVELOPER, OR HOME BUILDER SHALL BE RESPONSIBLE FOR ALL CORRECTIONS, ADJUSTMENTS, AND MODIFICATIONS NEEDED FOR RAISING, LOWERING, OR REPLACING ANY AND ALL MANHOLES AS PROPOSED FOR THE FACILITY.

ALL AS-BUILT STATIONING, LINE AND GRADE IMPROVEMENTS, INVERT AND RIM ELEVATIONS, "Y" LOCATIONS, INSPECTION REPORTS, ROADWAY OR STREET NAMES, RIGHT-OF-WAY WIDTHS, AND EASEMENT LINES SHALL BE FURNISHED TO THE TOWN ON A SET OF MYLAR DRAWINGS PRIOR TO TAP-IN APPROVAL, PIP ACCEPTANCE, AND/OR RELEASE OF FINAL PAYMENT.

ALL MANHOLE STRUCTURES SHALL BE MADE ACCESSIBLE TO THE TOWN OF AMHERST TELEVISION/MAINTENANCE CREWS. THE CONTRACTOR AND/OR DEVELOPER SHALL PROVIDE A DRY, WELL COMPACTED, STABLE SURFACE FREE FROM SHOW AND OBSTRUCTIONS FOR SAFE AND OPEN ACCESS WITH TOWN VEHICLES. SHOULD THE CONTRACTOR AND/OR DEVELOPER WISH TV INSPECTIONS DURING WET WEATHER/WET SOFT SOIL CONDITIONS, HE SHALL PROVIDE ALL NECESSARY GRANULAR BACKFILL, DISTRIBUTED AND COMPACTED TO SUPPLY ACCESS TO EACH MANHOLE. THE CONTRACTOR AND/OR DEVELOPER SHALL BEAR ALL COSTS OF TOWING, DOWN TIME, CREW TIME, AND DAMAGE ALONG WITH RESTORATION, SHOULD SUCH ACCESSWAYS FAIL.

#### SANITARY SEWER NOTES:

- 01. THE CONTRACTOR SHALL COMPLY WITH THE TOWN OF AMHERST STANDARD DRAWINGS AND SPECIFICATIONS.
- O2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND THE TOWN OF AMHERST ENG. DEPT. OF ANY HAZARDOUS SUBSTANCE ENCOUNTERED DURING THE CONSTRUCTION OF THE WORK. HE SHALL AT HIS EXPENSE, CONFORM TO ALL LAWS, RULES, REGULATIONS AND DIRECTIONS AS PROMULGATED BY THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, THE NEW YORK STATE DEPARTMENT OF HEALTH AND ANY SUCH LOCAL RULES, ORDINANCES AND LAWS WHEN ENCOUNTERING OR WORKING WITH ANY SUCH HAZARDOUS SUBSTANCE.
- O3. THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE NO.) 53 RELATING TO CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARD AND APPEALS.
- 04. SINCE THE ERIE COUNTY WATER AUTHORITY OPERATES AND MAINTAINS THE EXISTING WATER LINES, THEY ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. ALL EXISTING VALVES ARE TO BE OPERATED BY THE ERIE COUNTY WATER AUTHORITY PERSONNEL.
- 05. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF THE PIPE LAYING OPERATION, SO THAT, IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT DUE TO INTERFERENCE FROM THESE UTILITIES, SAID CHANGES CAN BE MADE IN ADVANCE OF THE WORK.
- 06. WHERE SUCH FACILITIES ARE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, HE SHALL CERTIFY TO THE ENGINEERING DEPARTMENT OF THE TOWN OF AMHERST THAT SAID FACILITIES AS CONSTRUCTED WERE SUPERVISED BY HIMSELF (HERSELF) AND THAT THE WORKS HAVE BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORTS, PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS AND ANY AND ALL ADDENDA TO SAME.
- 07. THE CONSTRUCTION OF THE FACILITIES SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN NEW YORK STATE UNDER THE EDUCATION LAW OF THE STATE, WHENEVER ENGINEERING SERVICES ARE REQUIRED BY SUCH LAW FOR SUCH PURPOSES.
- 08. A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLIANCE, INCLUDING THE RESULTS OF HYDROSTATIC LEAKAGE TESTS, MADE BY THE PROFESSIONAL ENGINEER SUPERVISING THE CONSTRUCTION, SHALL BE SUBMITTED TO THE ERIE COUNTY DEPART. OF ENVIRONMENT PLANNING AND NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN THIRTY (30) DAYS AFTER CONSTRUCTION COMPLETION.
- 09. UNSUITABLE MATERIALS SUCH AS FROZEN ORGANIC AND/OR VEGETABLE MATERIAL, DEBRIS, TREES, LUMBER, LARGE STONES OR CLODS (6.0" OR LARGER), MUCK, PEAT, ORGANIC SILT WILL NOT BE ACCEPTABLE FILL AND CERTAIN MAN-MADE DEPOSITS OF INDUSTRIAL WASTE, SLUDGE OR LANDFILL MAY ALSO BE DETERMINED AS UNSUITABLE HAZARDOUS MATERIAL.
- 10. THE COMPACTION OF ALL MATERIALS WILL OCCUR AT 6" INCREMENTS.
- 11. VERIFICATION OF ALL EXISTING EASEMENTS IS THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THEY MUST BE SHOWN ALONG WITH ALL PROPOSED EASEMENTS ON PLAN DRAWINGS.
- 12. SHOULD A FLUID CONDITION BE ENCOUNTERED AT THE TRENCH BOTTOM, THE CONTRACTOR IS TO INSTALL ADDITIONAL STONE CRADLE AS ORDERED BY THE ENGINEER.
- 13. ALL PIPE CROSSING UNDER PAVED AREAS ARE TO BE BACKFILLED TO SUBGRADE WITH COMPACTED SELECT MATERIAL TO FIVE (5) FEET OUTSIDE THE PAVEMENT EDGES.
- 14. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH THE CONSTRUCTION OPERATION, OR REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. THE COST INVOLVED IN THE ABOVE IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- 15. SEWERS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATERMAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE—BY—CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATERMAIN, PROVIDED THAT THE WATERMAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATERMAIN IS AT LEAST 18" (46CM) ABOVE THE TOP OF THE SEWER.
- 16. SEWERS CROSSING WATERMAINS SHALL BE LAID TO PROVIDE MINIMUM VERTICAL DISTANCE OF 18" (46CM) BETWEEN THE OUTSIDE OF A WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATERMAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERMAIN JOINTS. WHERE A WATERMAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER, TO PREVENT DAMAGE TO THE WATERMAIN.
- 17. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE AND SHALL BE PRESSURE TESTED AS TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.
- 18. THE PIPE SHALL BE P.V.C. SEWER PIPE CONFORMING TO THE LATEST REVISIONS OF ASTM DESIGNATION D-3034, SDR-35, INSTALLED IN ACCORDANCE WITH ASTM.
- 19. THE MANHOLE COVERS ARE TO BEAR THE INSCRIPTION "AMHERST SANITARY".

## MINAWOO PESIGN

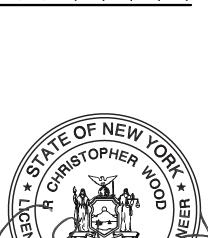
DESIGN

le Family Subdivisior

1789 Dodge 1789 Dodge Amherst, Ne

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ev. Permanent Open Space
ev. Per Town Comments
ev. Per Town Comments



TOWN OF AMHERST APPROVAL BOX

Sanitary Sewer
Notes

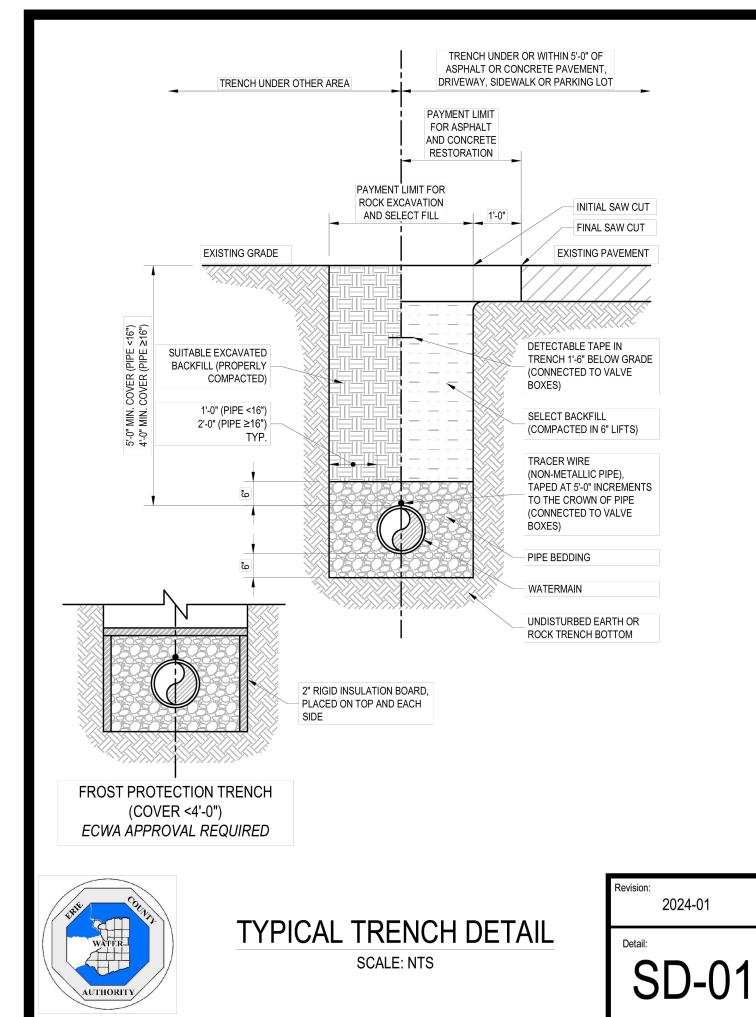
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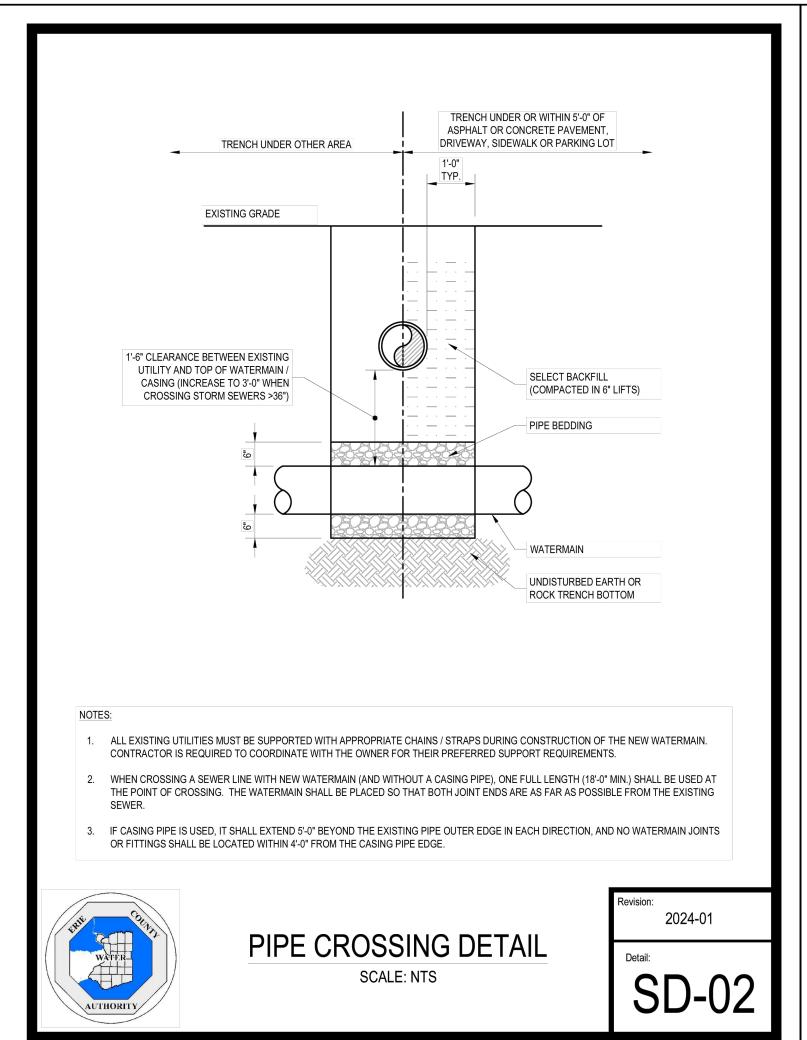
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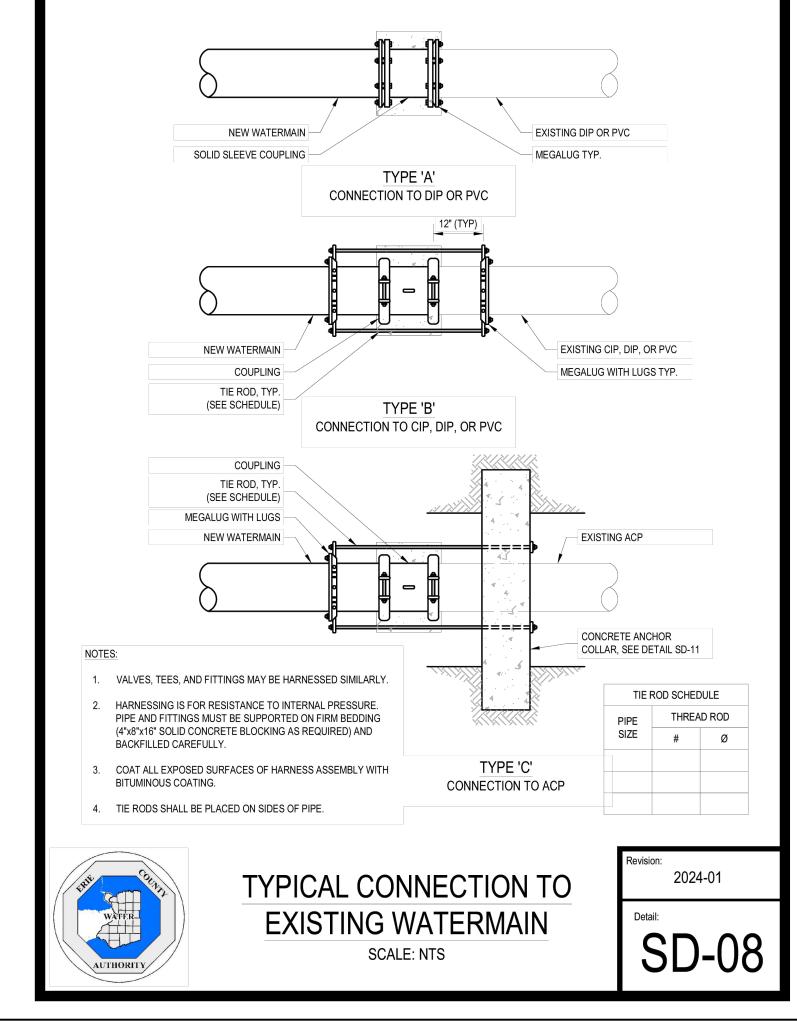
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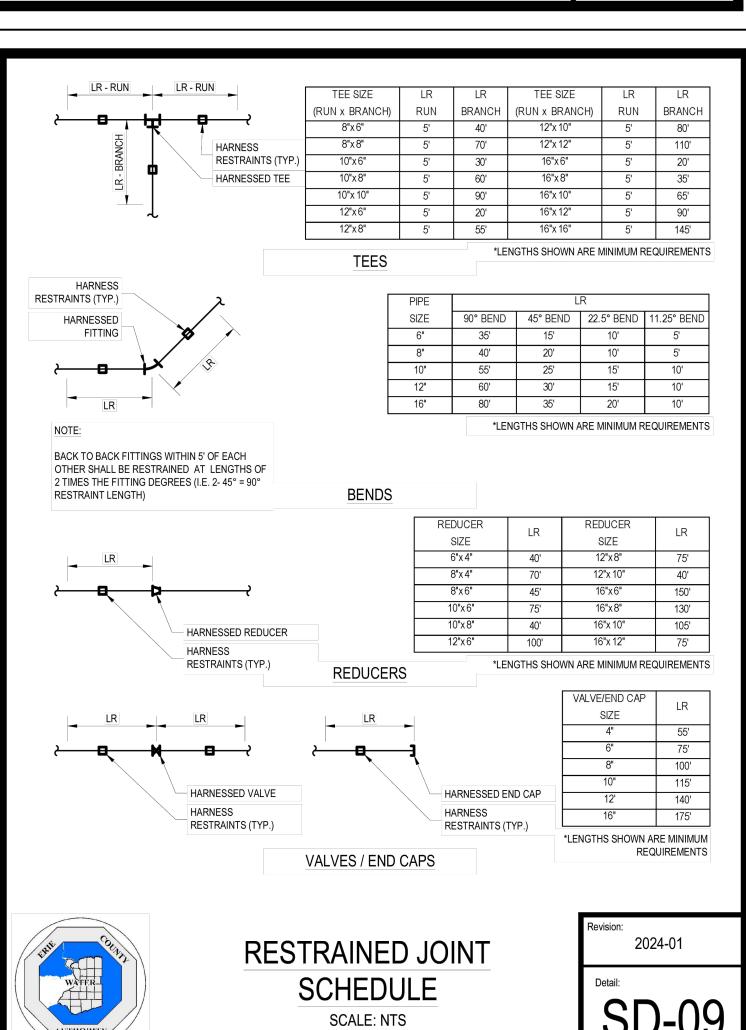
C. Wood

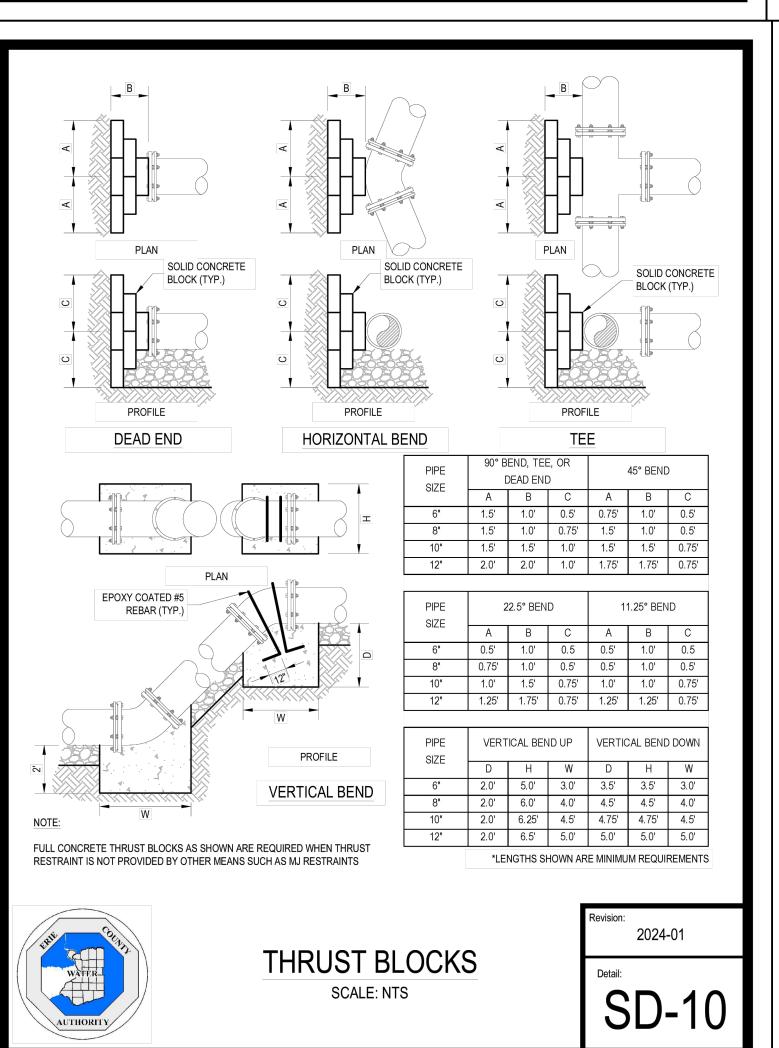
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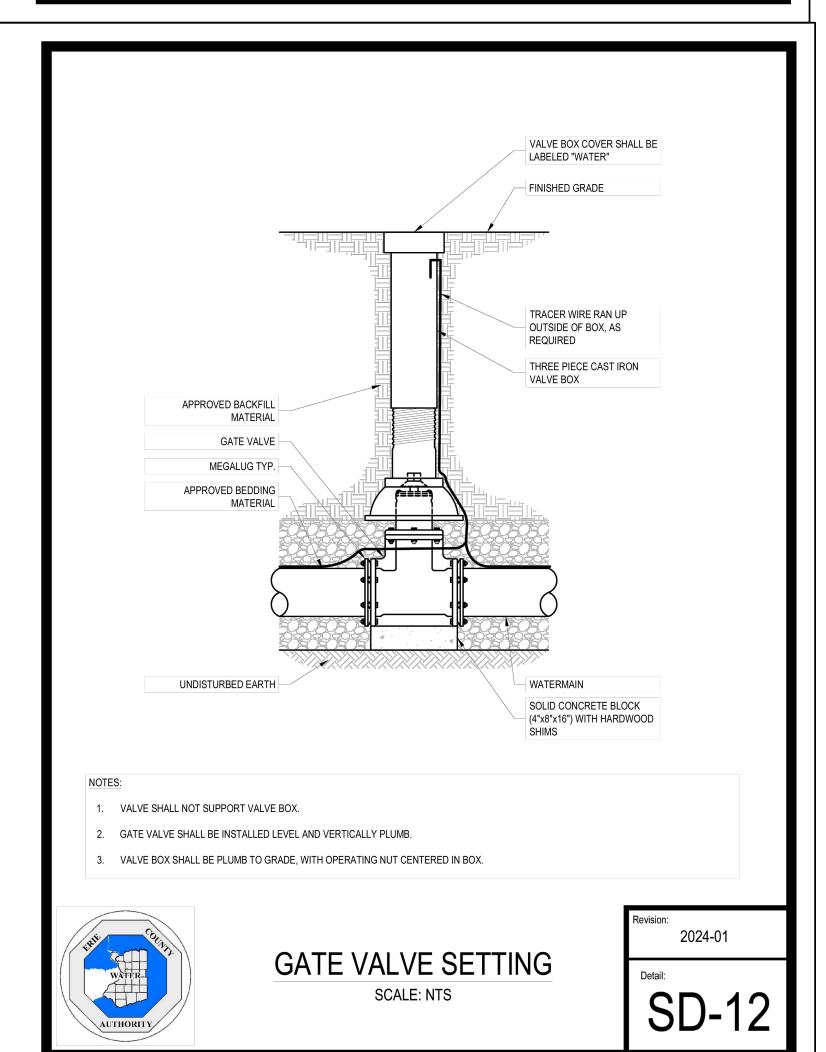














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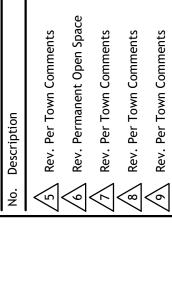
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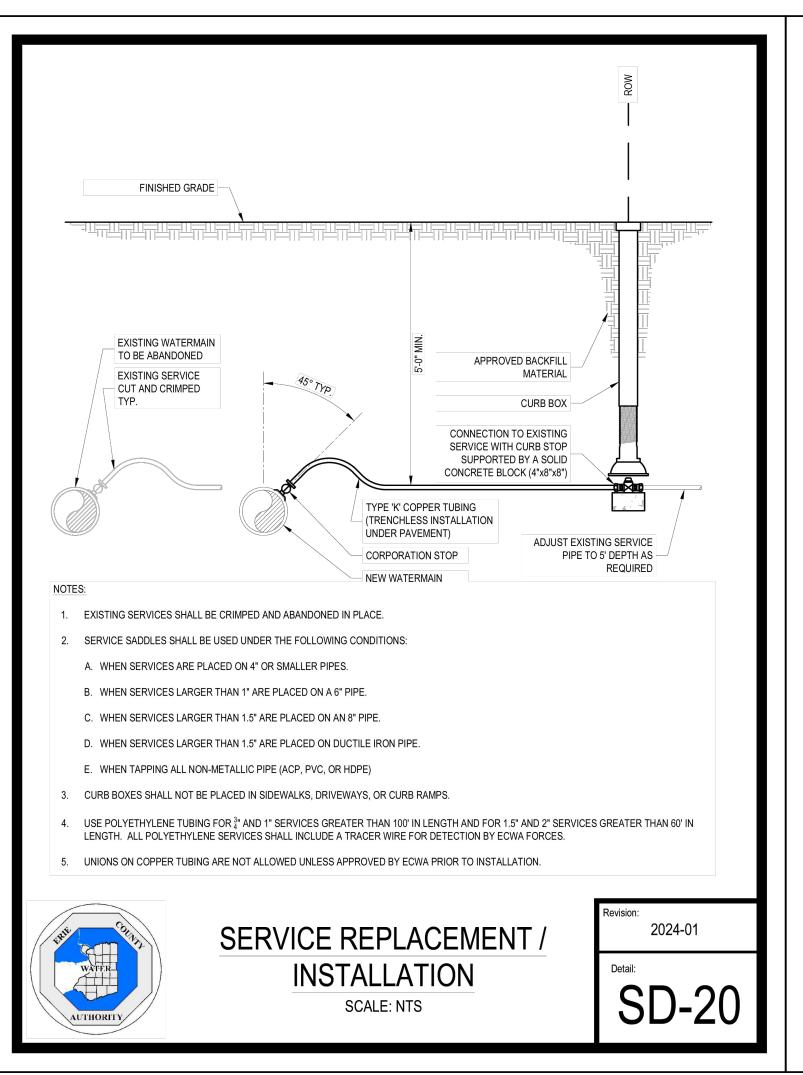
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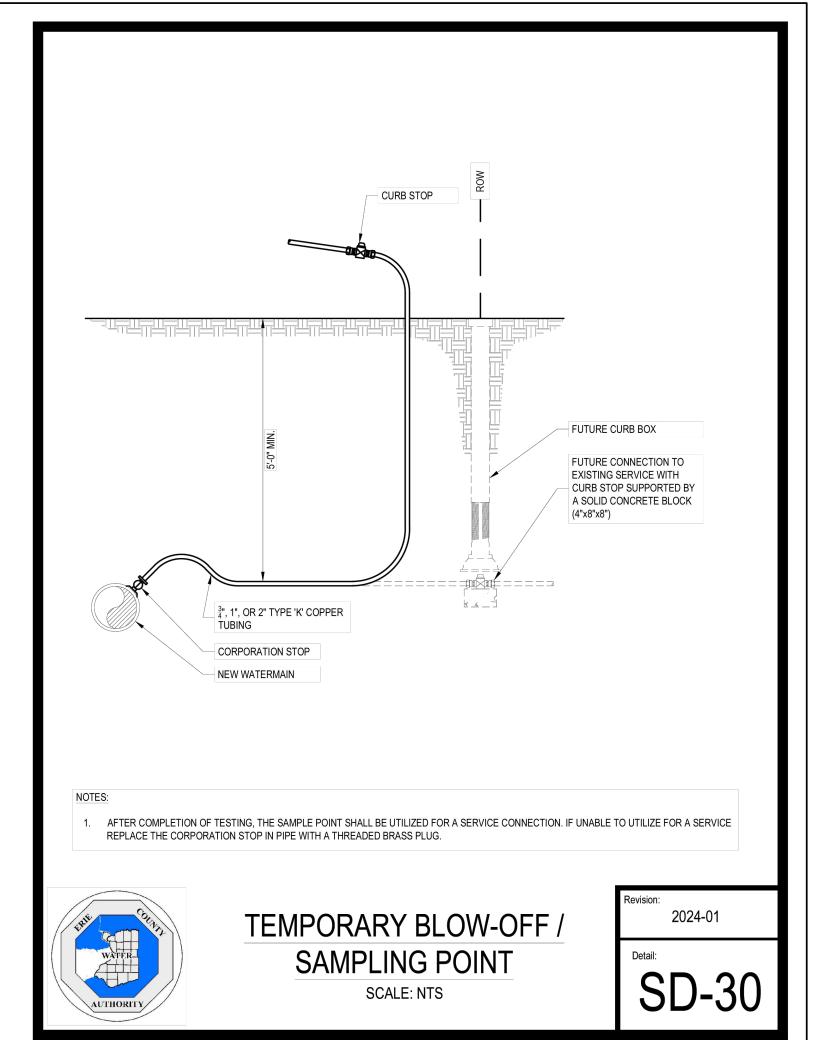
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As Noted

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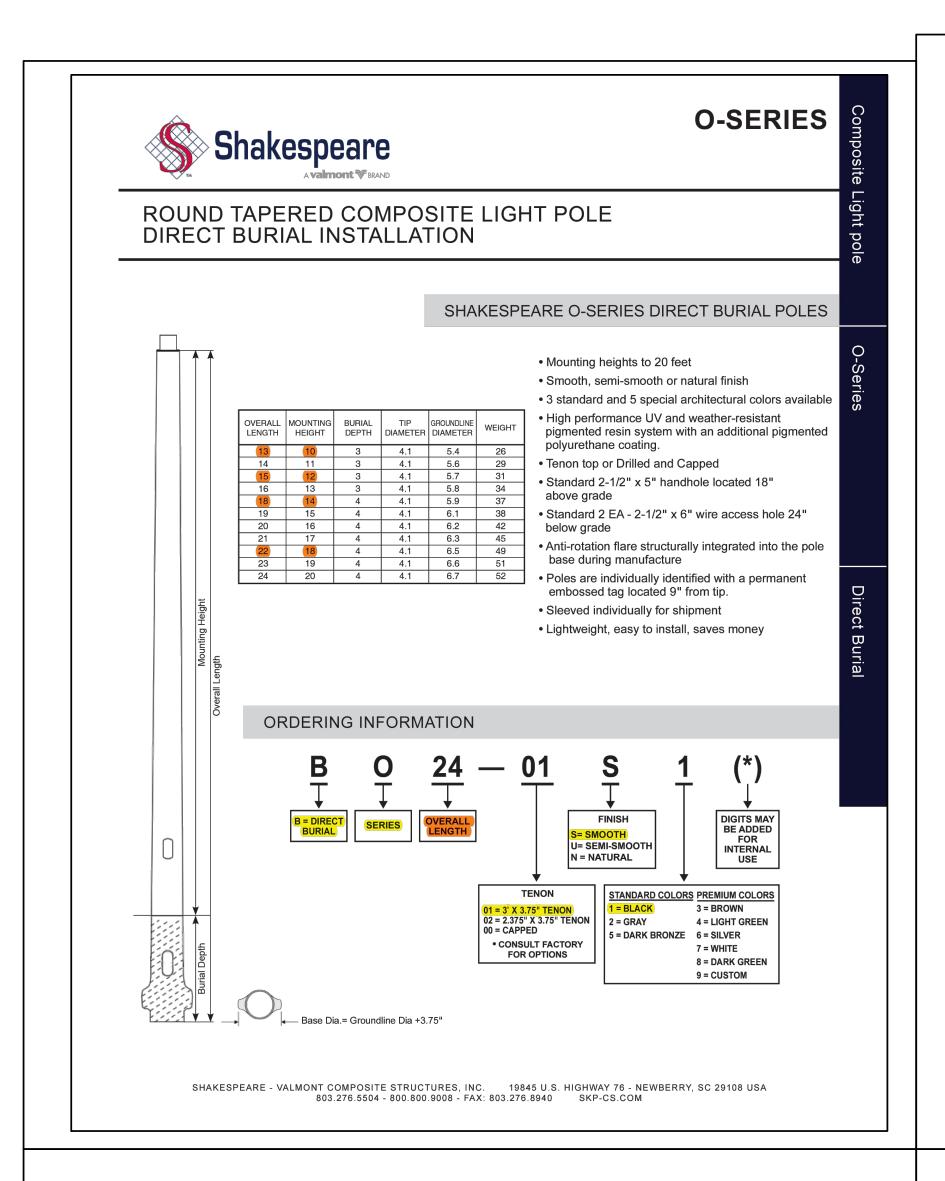
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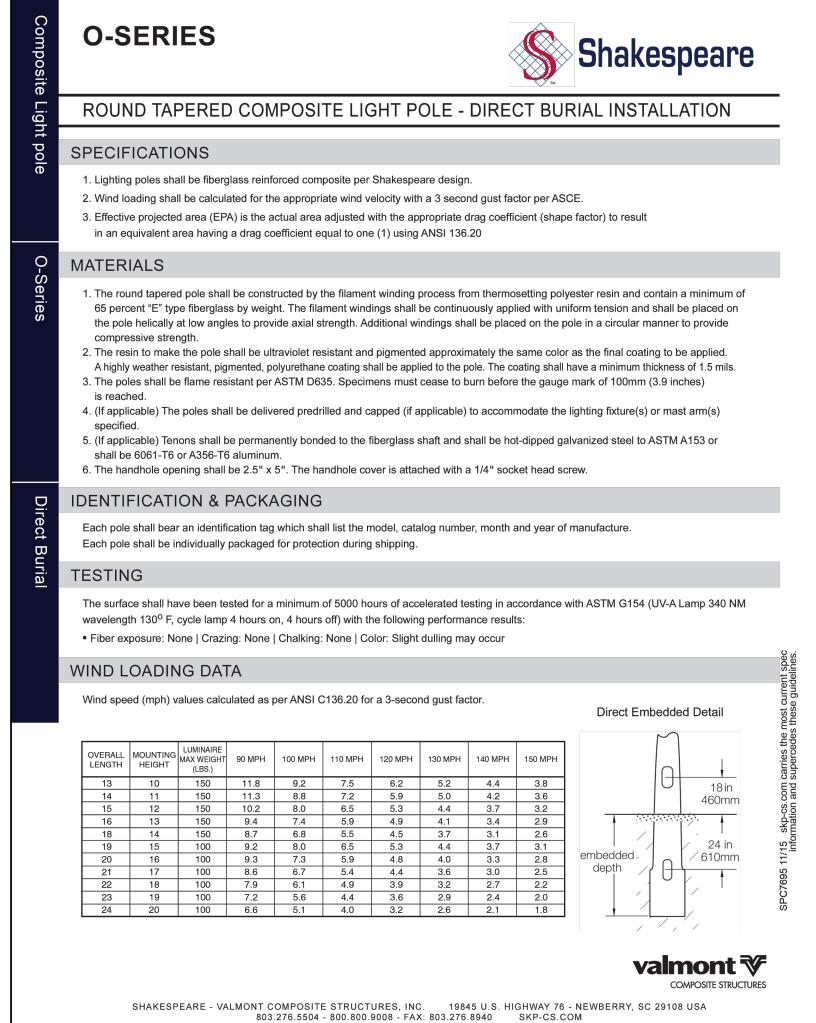
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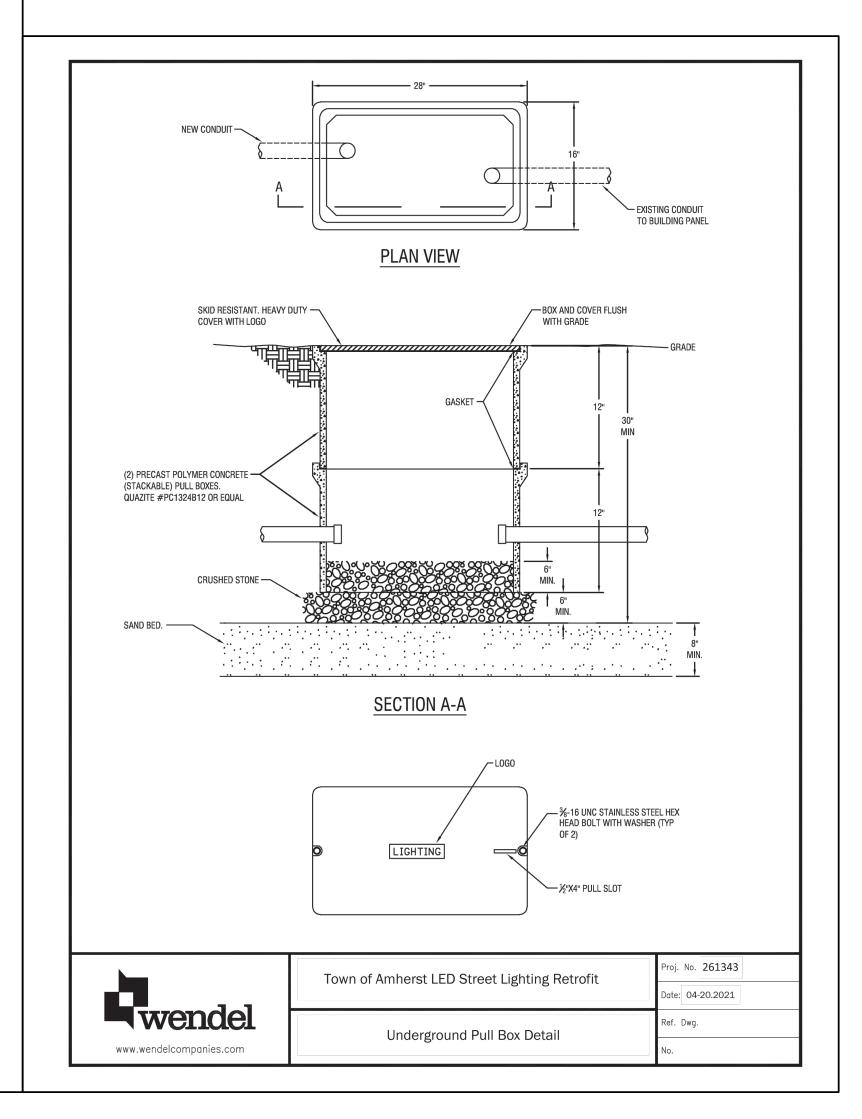
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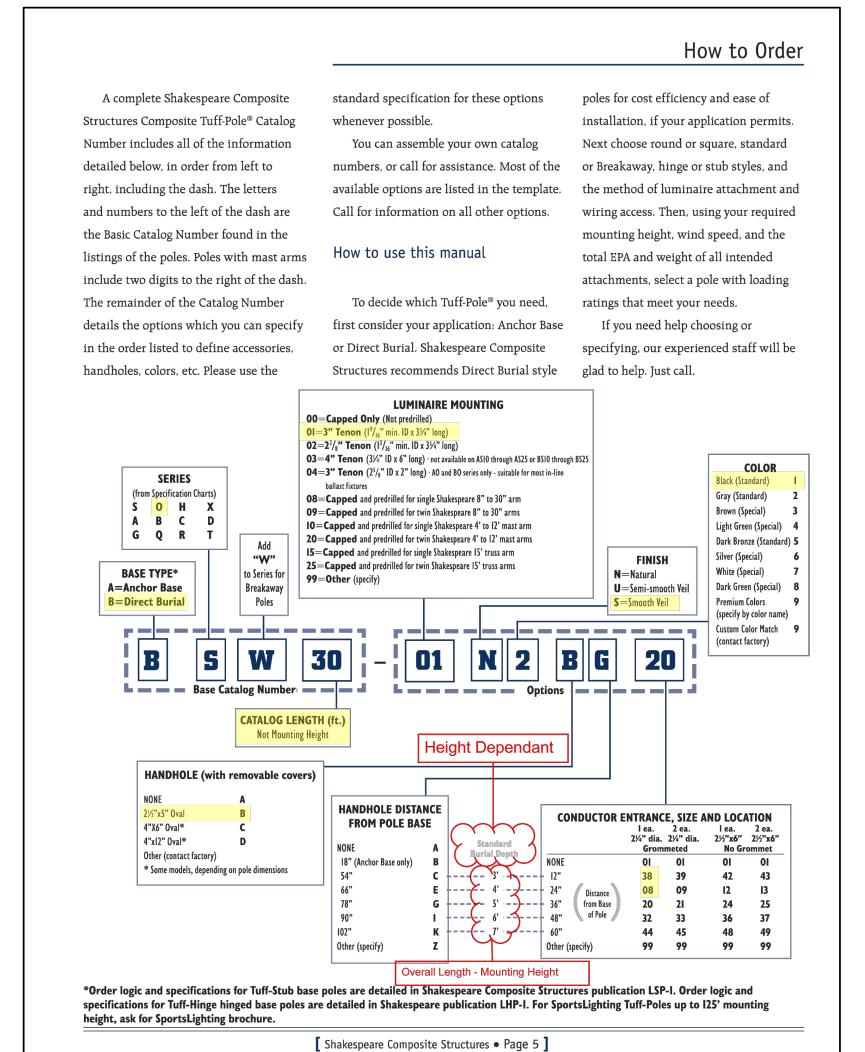
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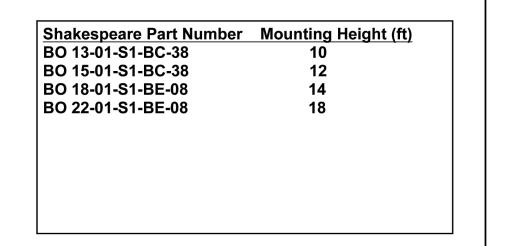
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DRAWING NAME: **Lighting Details** 

Date: Drawn By: Scale:

01/29/25

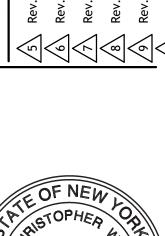
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As Noted

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#### Urban TownView

TVPC/TVPF



The Hadco **TownView LED post top luminaires** were designed to eliminate the compromises of performance, comfort, style options and value when choosing the right lighting solution for residential street and pedestrian area. The horizontal lens option reduces glare to enhance a sense of security with increased visual comfort. TownView offers design flexibility with a variety of style options, lumen packages, a range of control options and more at exceptional value.

Project:		
Location:		
Cat.No:		
Туре:		
Lamps:	Qty:	
Notes:		

example: TVPC-S3-S-32-G1-7-3S-730-A-N-R7-N-SP1-T-N-N-BKS

dering guide: Luminaire	dering	guide:	Luminaire	
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Series		Mounting	Roof option	LED module	Generation	Drive current	Distribution	Color temp.	Voltage	Integ	gral Controls <sup>3</sup>
TVPC TVPR	TownView with visual comfort panels TownView	A¹ Arm Mt L4 Large Post Top Fitter 4" (tool less	S Square Roof C¹ Curved Roof	<b>16</b> 16 LEDs	<b>G1</b> Gen 1	5 530 mA 7 700 mA 9 900 mA 1 1050 mA	<ul><li>2S Type 2 Short</li><li>3S Type 3 Short</li><li>3W Type 3 Wide</li><li>5 Type 5</li></ul>	730 3000K (70 CRI) 740 4000K (70 CRI)	<ul><li>A 120-277 Volt</li><li>J 480V</li><li>K 347V</li></ul>	DA 5 DB 5 DC 5 DD 5	4 Hrs 25% Reduction 4 Hrs 50% Reduction 4 Hrs 75% Reduction 6 Hrs 25% Reduction
	with vertical ribbed panels	entry) L3 Large Post Top Fitter 3" (tool less entry) S2 Small Post Fitter 2-3/8" S3 Small Post Fitter 3" S4 Small Post Fitter 4"		32 32 LEDs 48 48 LEDs	<b>G1</b> Gen1	5 530 mA 7 700 mA 8 800 mA 1 1050 mA 5 530 mA 7 700 mA	<ul> <li>Type 2         House-side shield     </li> <li>Type 3 Short House-side shield</li> <li>Type 3 Wide House-side shield</li> </ul>	827 <sup>2</sup> 2700K (80 CRI)		CLO <sup>5</sup> AST <sup>5</sup> OTL <sup>5</sup> S <sup>10</sup> SRD SRD1	6 Hrs 50% Reduction 6 Hrs 75% Reduction 8 Hrs 25% Reduction 8 Hrs 50% Reduction 8 Hrs 75% Reduction DALI (default: logarithmic) SR Driver Constant light output Adjustable startup time Over the life (default: L70 hrs) FAWS Field adjustable wattage selector Sensor ready driver (standard configuration) Sensor ready driver (alternative configuration)
										N	None

#### Ordering guide (continued)

Receptacle	Sensor Receptacle <sup>8</sup>	Surge Protection	Term Block	Decorative Option	Bird Guard	Finish 9
<ul> <li>R7 7 Pin tooless rotatable standard - no photocell</li> <li>PH8 7 7 Pin tooless rotatable standard - with photocell</li> <li>PH9 7 Pin tooless rotatable standard - with shorting cap</li> <li>PHX 5 7 Pin tooless rotatable standard - with long life photocell</li> </ul>	<b>N</b> None	SP1 Parallel 10kV standard SP2 Parallel 20kV	T Terminal Block N None	L <sup>6</sup> Ladder Rest <b>N</b> None	N None	BKS Black Smooth WHS White Smooth BZS Bronze Smooth GNS Green Smooth BK Black Texture WH White Texture BZ Bronze Texture GN Green Texture

#### Footnotes see page 2

TVP\_TownView-spec-sheet 12/20 page 1 of 8

Predicted Lumen Depreciation Data

Note: Typical value accuracy +/- 15%

LED Lumen values - TVPC (Visual Comfort Panels)

Note: Some data may be scaled based on tests of similar but not identical luminaries.

TVP\_TownView-spec-sheet 12/20 page 4 of 8

TVPC/TVPR TownView

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology.  $Actual \ experience \ may \ vary \ due \ to \ field \ application \ conditions. L_{70} \ is \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ to \ 70\% \ of \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ the \ predicted \ time \ when \ LED \ performance \ depreciates \ the \ predicted \ time \ the \ the \ the \ predicted \ time \ the \$ 

up to 1050 mA >100,000 hours >54,000 hours

qty. (mA). Temp. Wattage (W) Output (LPW) Rating Output (LPW) Rating Output (LPW) Rating Output (LPW) Rating

TVPC-16-G1-5-x-730 | 16 | 530 | 3000 | 29 | 2,621 | 91 | B1-U2-G1 | 2,788 | 96 | B1-U2-G1 | 2,779 | 96 | B1-U2-G1 | 2,930 | 101 | B1-U2-G1

TVPC-16-G1-7-x-730 16 700 3000 38 3,316 87 B1-U2-G1 3,527 93 B1-U3-G1 3,516 92 B1-U3-G1 3,707 97 B1-U3-G1

TVPC-16-G1-1-x-730 16 1050 3000 57 4,586 81 B1-U2-G1 4,878 86 B1-U3-G1 4,862 85 B1-U3-G1 5,126 90 B1-U3-G1

TVPC-32-G1-5-x-730 32 530 3000 53 5,103 96 B1-U3-G1 5,342 100 B1-U3-G1 5,390 101 B2-U3-G2 5,617 105 B1-U3-G2

TVPC-32-G1-7-x-730 32 700 3000 70 6,443 92 B2-U3-G2 6,744 96 B2-U3-G2 6,805 97 B2-U3-G2 7,091 101 B1-U3-G2

TVPC-32-G1-8-x-730 32 800 3000 80 7,170 89 B1-U3-G1 7,505 93 B1-U3-G1 7,572 94 B1-U3-G2 7,892 98 B1-U3-G2

TVPC-48-G1-5-x-730 48 530 3000 81 7,780 96 B2-U3-G2 8,144 101 B1-U3-G2 8,217 102 B2-U3-G2 8,564 106 B1-U3-G2

TVPC-48-G1-7-x-730 48 700 3000 105 9,766 93 B2-U3-G2 10,223 98 B2-U3-G2 10,315 98 B2-U3-G2 10,750 103 B2-U3-G2

 TVPC-16-G1-5-x-740
 16
 530
 4000
 29
 2,882
 99
 B1-U2-G1
 3,065
 105
 B1-U2-G1
 3,055
 105
 B1-U2-G1
 3,221
 110
 B1-U2-G1

 TVPC-16-G1-7-x-740
 16
 700
 4000
 39
 3,646
 95
 B1-U2-G1
 3,878
 101
 B1-U3-G1
 3,865
 100
 B1-U3-G1
 4,075
 106
 B1-U3-G1

TVPC-16-G1-9-x-740 16 900 4000 49 4,473 90 B1-U3-G1 4,758 96 B1-U3-G1 4,743 96 B1-U3-G2 5,001 101 B1-U3-G1

TVPC-16-G1-1-x-740 16 1050 4000 58 5,042 88 B1-U2-G1 5,363 93 B1-U3-G1 5,345 93 B1-U3-G1 5,636 98 B1-U3-G1

**TVPC-32-G1-5-x-740** 32 530 4000 54 5,611 104 B1-U3-G1 5,873 109 B1-U3-G1 5,926 110 B2-U3-G2 6,176 114 B1-U3-G2

TVPC-32-G1-7-x-740 32 700 4000 71 7,083 100 B2-U3-G2 7,414 104 B2-U3-G2 7,481 105 B2-U3-G2 7,797 110 B1-U3-G2

**TVPC-32-G1-1-x-740** 32 1050 4000 110 9,902 90 B2-U3-G2 10,365 95 B2-U3-G2 10,458 95 B2-U3-G2 10,899 99 B1-U3-G2

**TVPC-48-G1-5-x-740** 48 530 4000 82 8,554 105 B2-U3-G2 8,954 110 B1-U3-G2 9,034 111 B2-U3-G2 9,415 115 B1-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting applications@philips.com. Consult DLC QPL to confirm your specific fixture selection is DLC approved.

**TVPC-48-G1-7-x-740** 48 700 4000 106 10,738 101 B2-U3-G2 11,240 106 B2-U3-G2 11,341 107 B2-U3-G2 11,819 112 B2-U3-G2

TVPC-32-G1-8-x-740 32 800 4000 81 7,883 97 B1-U3-G1 8,251 102 B1-U3-G1 8,326 102 B1-U3-G2 8,677 107 B1-U3-G2

TVPC-32-G1-1-x-730 32 1050 3000 108 9,006 83 B2-U3-G2 9,427 87 B2-U3-G2 9,512 88 B2-U3-G2 9,913 91 B1-U3-G2

**TVPC-16-GI-9-x-730** 16 900 3000 49 4,069 83 B1-U3-GI 4,328 89 B1-U3-GI 4,314 88 B1-U3-G2 4,548 93 B1-U3-G1

initial lumen output. Calculated per IESNA TM21-11. Published  $L_{70}$  hours limited to 6 times actual LED test hours.

bient Temperature °C Driver mA Calculated L<sub>70</sub> Hours L<sub>70</sub> per TM-21

Post top and arm mount luminaire

Field Adjustable Wattage (FAWS) Multiplier Chart



Lumen Maintenance % at 60,000 hrs

#### TVPC/TVPR TownView

Post top and arm mount luminaire

#### Ordering Guide: Arm mount

Code TV	Mount	Width 55	Options	Finish
TV TownView	A Arm Mount	<b>55</b> 55.5" wide	S Decorative Scroll	BKS Black Smooth WHS White Smooth BZS Bronze Smoot GNS Green Smooth BK Black Texture WH White Texture BZ Bronze Texture GN Green Texture

#### Only available with Square roof

#### Footnotes

- 1. Only S Square roof available with A Arm Mount 2. Consult factory for information and lead time
- 3. Only pick one option from the Control list for multiple control options consult the factory
- 4. This option requires more information contact factory 5. Only available with 120-277 V
- 6. Ladder rest option not available with Arm Mount 7. Not available with **347V**
- 8. Order a TVLN (no panel version if you want the SR Receptacle option) Or consult factory to review sensor 9. When any finish other than **BKS** or **BK** is selected

Astro-Clock node is not required.

supplied with **BKS** or **BK** finish option may be used

City with other finishes, cupola must be removed and

10. Position 10 is open for receptacle control, must use one or the other not BOTH. 11. SR Receptacle only available with 32 LED (receptacle is mounted in the middle of the boards) and  $\boldsymbol{SRD}$  Driver is cupola will be metal and painted to match finish. Cupola required if you choose this receptacle

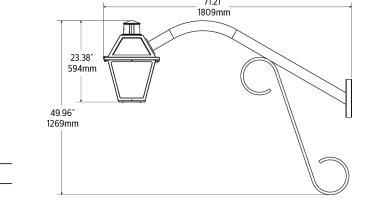
#### Dimensions: Arm mount

#### TVPx-A-S

Arm: Made of aluminum tubing Decorative Element: Bent aluminum decorative channel scroll mechanically assembled. Mounting Plate: Made of aluminum, mechanically fastened to the pole.

**EPA Values** 

	v
TVPx-A-S	



TVP\_TownView-spec-sheet 12/20 page 2 of 8

#### TVPC/TVPR TownView

EPA 1.98 ft<sup>2</sup>.

Post top and arm mount luminaire

#### LED Lumen values - TVPC (Visual Comfort Panels and House-side shield)

LED qty.	(mA).	Temp.	Wattage (W)	Output	(LPW)	Rating	Output	(LPW)	Rating	Output	(LPW)	Rating
16	530	3000	29	2,094	72	B0-U2-G1	2,322	80	B0-U2-G1	2,155	75	B1-U2-G1
16	700	3000	38	2,649	70	B1-U2-G1	2,938	77	B1-U2-G1	2,726	72	B1-U3-G1
16	900	3000	49	3,251	66	B1-U2-G1	3,605	74	B1-U3-G1	3,345	68	B1-U3-G1
16	1050	3000	57	3,664	64	B1-U2-G1	4,062	71	B1-U2-G1	3,770	66	B1-U3-G1
32	530	3000	53	4,018	75	B1-U3-G1	4,362	82	B1-U3-G1	4,291	80	B1-U3-G1
32	700	3000	70	5,073	72	B1-U3-G1	5,507	78	B1-U3-G1	5,417	77	B1-U3-G2
32	800	3000	80	5,645	70	B1-U3-G1	6,128	76	B1-U3-G1	6,028	75	B1-U3-G1
32	1050	3000	108	7,091	65	B1-U3-G1	7,698	71	B1-U3-G2	7,572	70	B1-U3-G2
48	530	3000	81	6,126	76	B1-U3-G1	6,650	82	B1-U3-G1	6,541	81	B1-U3-G2
48	700	3000	105	7,690	73	B1-U3-G2	8,348	80	B1-U3-G2	8,211	78	B1-U3-G2
16	530	4000	29	2,302	79	B0-U2-G1	2,553	87	BO-U2-G1	2,369	81	B1-U2-G1
16	700	4000	39	2,913	76	B1-U2-G1	3,230	84	B1-U2-G1	2,997	78	B1-U3-G1
16	900	4000	49	3,574	72	B1-U2-G1	3,963	80	B1-U3-G1	3,678	74	B1-U3-G1
16	1050	4000	58	4,028	70	B1-U2-G1	4,466	78	B1-U2-G1	4,145	72	B1-U3-G1
32	530	4000	54	4,418	82	B1-U3-G1	4,796	89	B1-U3-G1	4,718	87	B1-U3-G1
32	700	4000	71	5,577	79	B1-U3-G1	6,055	85	B1-U3-G1	5,955	84	B1-U3-G2
32	800	4000	81	6,207	76	B1-U3-G1	6,738	83	B1-U3-G1	6,628	82	B1-U3-G1
32	1050	4000	110	7,796	71	B1-U3-G1	8,464	77	B1-U3-G2	8,325	76	B1-U3-G2
48	530	4000	82	6,735	82	B1-U3-G1	7,312	89	B1-U3-G1	7,192	88	B1-U3-G2
	16 16 16 16 16 32 32 32 32 48 48 16 16 16 16 32 32 32 32 32	LED qty.         (mA).           16         530           16         700           16         900           16         1050           32         530           32         1050           48         530           48         700           16         530           16         700           16         900           16         1050           32         530           32         700           32         800           32         1050	LED qty.         (mA).         Temp.           16         530         3000           16         700         3000           16         900         3000           16         1050         3000           32         530         3000           32         800         3000           32         1050         3000           48         530         3000           48         700         3000           16         530         4000           16         700         4000           16         1050         4000           32         530         4000           32         530         4000           32         700         4000           32         800         4000           32         800         4000           32         1050         4000	LED qty.         (mA).         Temp.         Wattage (W)           16         530         3000         29           16         700         3000         38           16         900         3000         49           16         1050         3000         57           32         530         3000         53           32         700         3000         80           32         1050         3000         108           48         530         3000         81           48         700         3000         105           16         530         4000         29           16         700         4000         39           16         900         4000         49           16         1050         4000         58           32         530         4000         54           32         700         4000         71           32         800         4000         81           32         1050         4000         110	LED qty.         (mA).         Temp.         Wattage (W)         Output           16         530         3000         29         2,094           16         700         3000         38         2,649           16         900         3000         49         3,251           16         1050         3000         57         3,664           32         530         3000         53         4,018           32         700         3000         70         5,073           32         800         3000         80         5,645           32         1050         3000         108         7,091           48         530         3000         81         6,126           48         700         3000         105         7,690           16         530         4000         29         2,302           16         700         4000         39         2,913           16         900         4000         49         3,574           16         1050         4000         58         4,028           32         530         4000         54         4,418 <td< td=""><td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)           16         530         3000         29         2,094         72           16         700         3000         38         2,649         70           16         900         3000         49         3,251         66           16         1050         3000         57         3,664         64           32         530         3000         53         4,018         75           32         700         3000         70         5,073         72           32         800         3000         80         5,645         70           32         1050         3000         108         7,091         65           48         530         3000         81         6,126         76           48         700         3000         105         7,690         73           16         530         4000         29         2,302         79           16         700         4000         39         2,913         76           16         900         4000         49         3,574         72</td></td<> <td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating           16         530         3000         29         2,094         72         BO-U2-G1           16         700         3000         38         2,649         70         B1-U2-G1           16         900         3000         49         3,251         66         B1-U2-G1           16         1050         3000         57         3,664         64         B1-U2-G1           32         530         3000         53         4,018         75         B1-U3-G1           32         700         3000         70         5,073         72         B1-U3-G1           32         800         3000         80         5,645         70         B1-U3-G1           48         530         3000         81         6,126         76         B1-U3-G1           48         700         3000         105         7,690         73         B1-U3-G1           48         700         3000         105         7,690         73         B1-U3-G1           48         700         3000         105         7,690         73</td> <td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output           16         530         3000         29         2,094         72         BO-U2-G1         2,322           16         700         3000         38         2,649         70         B1-U2-G1         2,938           16         900         3000         49         3,251         66         B1-U2-G1         4,062           32         530         3000         57         3,664         64         B1-U3-G1         4,362           32         700         3000         70         5,073         72         B1-U3-G1         5,507           32         800         3000         80         5,645         70         B1-U3-G1         6,128           32         1050         3000         108         7,091         65         B1-U3-G1         6,650           48         530         3000         81         6,126         76         B1-U3-G1         6,650           48         700         3000         105         7,690         73         B1-U3-G2         8,348           16         530         4000</td> <td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71           32         530         3000         53         4,018         75         B1-U3-G1         4,362         82           32         700         3000         70         5,073         72         B1-U3-G1         5,507         78           32         800         3000         80         5,645         70         B1-U3-G1         5,698         71           48         530         3000         81         6,126         76         B1-U3-G1         7,698         71           48         700         3000         105</td> <td>LED qtv.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1           16         900         3000         49         3,251         66         B1-U2-G1         4,062         71         B1-U3-G1           32         530         3000         57         3,664         64         B1-U3-G1         4,362         82         B1-U3-G1           32         700         3000         70         5,073         72         B1-U3-G1         5,507         78         B1-U3-G1           32         800         3000         80         5,645         70         B1-U3-G1         6,128         76         B1-U3-G1           32         1050         3000         108         7,091         65         B1-U3-G1         7,698         71         B1-U3-G2           48         530         3000         81</td> <td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating         Output           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1         2,155           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1         2,726           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74         B1-U3-G1         3,345           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71         B1-U3-G1         4,291           32         530         3000         53         4,018         75         B1-U3-G1         5,507         78         B1-U3-G1         5,417           32         800         3000         80         5,645         70         B1-U3-G1         6,128         76         B1-U3-G1         6,028           32         1050         3000         108         7,091         65         B1-U3-G1         6,50</td> <td>LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating         Output         (LPW)           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1         2,155         75           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1         2,726         72           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74         B1-U3-G1         3,345         68           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71         B1-U3-G1         3,770         66           32         530         3000         70         5,073         72         B1-U3-G1         5,507         78         B1-U3-G1         5,417         77           32         800         3000         80         5,645         70         B1-U3-G1         5,507         78         B1-U3-G1         6,028         75           32</td>	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)           16         530         3000         29         2,094         72           16         700         3000         38         2,649         70           16         900         3000         49         3,251         66           16         1050         3000         57         3,664         64           32         530         3000         53         4,018         75           32         700         3000         70         5,073         72           32         800         3000         80         5,645         70           32         1050         3000         108         7,091         65           48         530         3000         81         6,126         76           48         700         3000         105         7,690         73           16         530         4000         29         2,302         79           16         700         4000         39         2,913         76           16         900         4000         49         3,574         72	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating           16         530         3000         29         2,094         72         BO-U2-G1           16         700         3000         38         2,649         70         B1-U2-G1           16         900         3000         49         3,251         66         B1-U2-G1           16         1050         3000         57         3,664         64         B1-U2-G1           32         530         3000         53         4,018         75         B1-U3-G1           32         700         3000         70         5,073         72         B1-U3-G1           32         800         3000         80         5,645         70         B1-U3-G1           48         530         3000         81         6,126         76         B1-U3-G1           48         700         3000         105         7,690         73         B1-U3-G1           48         700         3000         105         7,690         73         B1-U3-G1           48         700         3000         105         7,690         73	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output           16         530         3000         29         2,094         72         BO-U2-G1         2,322           16         700         3000         38         2,649         70         B1-U2-G1         2,938           16         900         3000         49         3,251         66         B1-U2-G1         4,062           32         530         3000         57         3,664         64         B1-U3-G1         4,362           32         700         3000         70         5,073         72         B1-U3-G1         5,507           32         800         3000         80         5,645         70         B1-U3-G1         6,128           32         1050         3000         108         7,091         65         B1-U3-G1         6,650           48         530         3000         81         6,126         76         B1-U3-G1         6,650           48         700         3000         105         7,690         73         B1-U3-G2         8,348           16         530         4000	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71           32         530         3000         53         4,018         75         B1-U3-G1         4,362         82           32         700         3000         70         5,073         72         B1-U3-G1         5,507         78           32         800         3000         80         5,645         70         B1-U3-G1         5,698         71           48         530         3000         81         6,126         76         B1-U3-G1         7,698         71           48         700         3000         105	LED qtv.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1           16         900         3000         49         3,251         66         B1-U2-G1         4,062         71         B1-U3-G1           32         530         3000         57         3,664         64         B1-U3-G1         4,362         82         B1-U3-G1           32         700         3000         70         5,073         72         B1-U3-G1         5,507         78         B1-U3-G1           32         800         3000         80         5,645         70         B1-U3-G1         6,128         76         B1-U3-G1           32         1050         3000         108         7,091         65         B1-U3-G1         7,698         71         B1-U3-G2           48         530         3000         81	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating         Output           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1         2,155           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1         2,726           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74         B1-U3-G1         3,345           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71         B1-U3-G1         4,291           32         530         3000         53         4,018         75         B1-U3-G1         5,507         78         B1-U3-G1         5,417           32         800         3000         80         5,645         70         B1-U3-G1         6,128         76         B1-U3-G1         6,028           32         1050         3000         108         7,091         65         B1-U3-G1         6,50	LED qty.         (mA).         Temp.         Wattage (W)         Output         (LPW)         Rating         Output         (LPW)         Rating         Output         (LPW)           16         530         3000         29         2,094         72         B0-U2-G1         2,322         80         B0-U2-G1         2,155         75           16         700         3000         38         2,649         70         B1-U2-G1         2,938         77         B1-U2-G1         2,726         72           16         900         3000         49         3,251         66         B1-U2-G1         3,605         74         B1-U3-G1         3,345         68           16         1050         3000         57         3,664         64         B1-U3-G1         4,062         71         B1-U3-G1         3,770         66           32         530         3000         70         5,073         72         B1-U3-G1         5,507         78         B1-U3-G1         5,417         77           32         800         3000         80         5,645         70         B1-U3-G1         5,507         78         B1-U3-G1         6,028         75           32

**TVPC-48-G1-7-x-740** 48 700 4000 106 8,454 80 B1-U3-G2 9,178 87 B1-U3-G2 9,028 85 B1-U3-G2

#### LED Lumen values - TVPR (Vertical Ribbed Panels)

		System				Type 25	5		Type 35	5		Type 3V	,	Type 5		
Ordering Code	LED qty.	Current (mA).	Color Temp.	Avg. System Wattage (W)	Lumen Output	Efficacy (LPW)	BUG Rating									
TVPR-16-G1-5-x-730	16	530	3000	29	2,750	95	B1-U2-G1	2,940	102	B1-U2-G1	2,920	101	B1-U3-G1	3,096	107	B2-U3-G1
TVPR-16-G1-7-x-730	16	700	3000	38	3,479	91	B1-U2-G1	3,719	98	B1-U2-G1	3,694	97	B1-U3-G1	3,917	103	B2-U3-G1
TVPR-16-G1-9-x-730	16	900	3000	49	4,269	87	B1-U3-G1	4,564	93	B1-U3-G1	4,533	93	B1-U3-G1	4,806	98	B3-U3-G
TVPR-16-G1-1-x-730	16	1050	3000	57	4,811	85	B1-U3-G1	5,144	90	B1-U3-G1	5,109	90	B1-U3-G1	5,417	95	B3-U3-G
TVPR-32-G1-5-x-730	32	530	3000	53	5,380	101	B1-U3-G1	5,602	105	B1-U3-G1	5,611	105	B1-U3-G1	5,884	110	B3-U3-G
TVPR-32-G1-7-x-730	32	700	3000	70	6,792	97	B2-U3-G2	7,071	101	B1-U3-G2	7,083	101	B1-U3-G2	7,428	106	B3-U3-G
TVPR-32-G1-8-x-730	32	800	3000	80	7,558	94	B2-U3-G2	7,869	98	B1-U3-G2	7,882	98	B2-U3-G2	8,266	103	B3-U3-G
TVPR-32-G1-1-x-730	32	1050	3000	108	9,494	88	B2-U3-G2	9,885	91	B2-U3-G2	9,901	91	B2-U3-G2	10,383	96	B4-U3-G
TVPR-48-G1-5-x-730	48	530	3000	81	8,202	102	B2-U3-G2	8,539	106	B2-U3-G2	8,553	106	B2-U3-G2	8,970	111	B4-U3-G
TVPR-48-G1-7-x-730	48	700	3000	105	10,296	98	B2-U3-G2	10,720	102	B2-U3-G2	10,737	102	B2-U3-G2	11,260	107	B4-U3-G
TVPR-16-G1-5-x-740	16	530	4000	29	3,023	103	B1-U2-G1	3,232	111	B1-U2-G1	3,210	110	B1-U3-G1	3,404	116	B2-U3-G
TVPR-16-G1-7-x-740	16	700	4000	39	3,825	99	B1-U2-G1	4,089	106	B1-U2-G1	4,062	105	B1-U3-G1	4,306	112	B2-U3-G
TVPR-16-G1-9-x-740	16	900	4000	49	4,693	95	B1-U3-G1	5,018	101	B1-U3-G1	4,984	101	B1-U3-G1	5,284	107	B3-U3-G
TVPR-16-G1-1-x-740	16	1050	4000	58	5,290	92	B1-U3-G1	5,655	98	B1-U3-G1	5,617	98	B1-U3-G1	5,955	104	B3-U3-G
TVPR-32-G1-5-x-740	32	530	4000	54	5,915	110	B1-U3-G1	6,159	114	B1-U3-G1	6,169	114	B1-U3-G1	6,469	120	B3-U3-G
TVPR-32-G1-7-x-740	32	700	4000	71	7,467	105	B2-U3-G2	7,775	110	B1-U3-G2	7,787	110	B1-U3-G2	8,166	115	B3-U3-G
TVPR-32-G1-8-x-740	32	800	4000	81	8,310	102	B2-U3-G2	8,652	106	B2-U3-G2	8,666	107	B2-U3-G2	9,088	112	B3-U3-G
TVPR-32-G1-1-x-740	32	1050	4000	110	10,438	95	B2-U3-G2	10,868	99	B2-U3-G2	10,886	99	B2-U3-G2	11,416	104	B4-U3-G
TVPR-48-G1-5-x-740	48	530	4000	82	9,017	110	B2-U3-G2	9,389	115	B2-U3-G2	9,404	115	B2-U3-G2	9,862	121	B4-U3-G
TVPR-48-G1-7-x-740	48	700	4000	106	11,319	107	B2-U3-G2	11,786	111	B2-U3-G2	11,805	111	B2-U3-G2	12,379	117	B4-U3-G

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting applications@philips.com. Consult DLC QPL to confirm your specific fixture selection is DLC approved. Note: Some data may be scaled based on tests of similar but not identical luminaries.

TVP\_TownView-spec-sheet 12/20 page 5 of 8

#### TVPC/TVPR TownView

TVPC/TVPR TownView

TVPx\_L3\_S

TVPx\_S4\_S \_\_ 15.93" \_\_ 405mm

TVPx\_S3\_C

**EPA Values** 

TVPx-L3-C

TVPx-L3-S

TVPx-S2/S3-C

TVPx-S2/S3-S

TVPx-S4-C

TVPx-S4-S

TVPx\_S3\_S

1.75 sq. ft.

1.49 sq. ft.

1.54 sq. ft.

1.39 sq. ft.

23.50 lbs

24.38 lbs

22.13 lbs

Post top and arm mount luminaire

Dimensions: Luminaire

TVPx\_L3\_C

TVPx\_S4\_C

Post top and arm mount luminaire

TVP\_TownView-spec-sheet 12/20 page 3 of 8

#### LED Lumen values - TVPR (Vertical Ribbed Panels and House-side shield)

		System				Type 2SI	4		Type 3SF	1	Type 3WSH			
Ordering Code	LED qty.	Current (mA).	Color Temp.	Avg. System Wattage (W)	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	
ΓVPR-16-G1-5-x-730	16	530	3000	29	2,210	76	B1-U2-G1	2,457	85	B1-U2-G1	2,265	78	B1-U3-G1	
ΓVPR-16-G1-7-x-730	16	700	3000	38	2,796	73	B1-U2-G1	3,108	82	B1-U2-G1	2,865	75	B1-U3-G1	
VPR-16-G1-9-x-730	16	900	3000	49	3,431	70	B1-U3-G1	3,814	78	B1-U3-G1	3,516	72	B1-U3-G1	
TVPR-16-G1-1-x-730	16	1050	3000	57	3,866	68	B1-U3-G1	4,299	76	B1-U3-G1	3,963	70	B1-U3-G1	
VPR-32-G1-5-x-730	32	530	3000	53	4,265	80	B1-U3-G1	4,610	86	B1-U3-G1	4,476	84	B1-U3-G1	
VPR-32-G1-7-x-730	32	700	3000	70	5,385	77	B1-U3-G1	5,820	83	B1-U3-G1	5,651	80	B1-U3-G2	
TVPR-32-G1-8-x-730	32	800	3000	80	5,992	75	B1-U3-G1	6,476	81	B1-U3-G1	6,288	78	B1-U3-G2	
VPR-32-G1-1-x-730	32	1050	3000	108	7,527	69	B2-U3-G2	8,135	75	B2-U3-G2	7,899	73	B2-U3-G2	
VPR-48-G1-5-x-730	48	530	3000	81	6,502	80	B1-U3-G2	7,028	87	B1-U3-G2	6,824	84	B1-U3-G2	
VPR-48-G1-7-x-730	48	700	3000	105	8,162	78	B2-U3-G2	8,822	84	B2-U3-G2	8,566	82	B2-U3-G2	
VPR-16-G1-5-x-740	16	530	4000	29	2,430	83	B1-U2-G1	2,701	92	B1-U2-G1	2,490	85	B1-U3-G1	
TVPR-16-G1-7-x-740	16	700	4000	39	3,074	80	B1-U2-G1	3,418	89	B1-U2-G1	3,150	82	B1-U3-G1	
TVPR-16-G1-9-x-740	16	900	4000	49	3,772	76	B1-U3-G1	4,193	85	B1-U3-G1	3,866	78	B1-U3-G1	
ΓVPR-16-G1-1-x-740	16	1050	4000	58	4,251	74	B1-U3-G1	4,726	82	B1-U3-G1	4,357	76	B1-U3-G1	
TVPR-32-G1-5-x-740	32	530	4000	54	4,690	87	B1-U3-G1	5,068	94	B1-U3-G1	4,921	91	B1-U3-G1	
ΓVPR-32-G1-7-x-740	32	700	4000	71	5,920	83	B1-U3-G1	6,398	90	B1-U3-G1	6,213	88	B1-U3-G2	
VPR-32-G1-8-x-740	32	800	4000	81	6,588	81	B1-U3-G1	7,120	88	B1-U3-G1	6,914	85	B1-U3-G2	
TVPR-32-G1-1-x-740	32	1050	4000	110	8,276	76	B2-U3-G2	8,944	82	B2-U3-G2	8,685	79	B2-U3-G2	
ΓVPR-48-G1-5-x-740	48	530	4000	82	7,149	88	B1-U3-G2	7,727	95	B1-U3-G2	7,502	92	B1-U3-G2	
TVPR-48-G1-7-x-740	48	700	4000	106	8,974	85	B2-U3-G2	9,699	92	B2-U3-G2	9,418	89	B2-U3-G2	

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout  $contact Applications \ at outdoorlighting. applications@philips.com. \ Consult \ DLC \ QPL \ to \ confirm \ your \ specific \ fixture \ selection \ is \ DLC \ approved.$ Note: Some data may be scaled based on tests of similar but not identical luminaries.

#### **Specifications**

Roof and Cage: Two Style options C: Curved Roof and S: Square Roof. Tool-less latch made of stainless steel allows for quick access inside of the hinged roof to locate the driver, surge protector and optional FAWs (field adjustable wattage solution). Roof and Cage made of 360 low-copper die-cast, aluminum alloy. Decorative Cupola on top of roof covers the 7 pin NEMA socket.

Panels: Two panel options made of U.V. Stabilized Acrylic.

C: Visual Comfort panels help to eliminate glare and pixelization and give a soft glow at night R: Vertical Ribbed panels, for a clear look during the day and performance at night All panels have tool-less removal for ease of cleaning or replacement. (exception for arm

Fitter: Two fitter options. L: Large Utility Fitter with tool-less door to access the terminal block and wiring. Available in 3" or 4" Or **S**: Small Fitter. Small fitter available in 2" 3/8, 3" or 4". Large 4" fitter uses a secondary adaptor to achieve 4" opening.

#### LM-80 guidelines, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Light Engine

**LED Module** Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K) CRI 80 min, 3000

Kelvin nominal (3045K +/- 175K) or 4000 Kelvin Other CCT/CRI also available, consult factory.

Composed of 4 main components: **LED Module** 

Electrical components are RoHS compliant, IP66

sealed light engine LEDs tested by ISO 17025-

2005 accredited lab in accordance with IESNA

/ Optical System / Heat Sink / Driver.

#### cooling device). Entire luminaire is rated for operation in ambient temperature of $-40^{\circ}$ C / -40°F up to +40°C / +104°F.

Optical System

**Heat Sink** 

Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. and TM-15 (IESNA) certifying its photometric performance. Type 2S, 3S, 3W and Type 5 Street side indicated. House side shield optional (can be field installed) **2SH**: Type 2 with House Side Shield, 3SH: Type 3 short with house side shield,

**3WH**: Type 3 Wide with House side shield

Made of die cast aluminum optimizing the LEDs

cooling device with moving parts (only passive

efficiency and life. Product does not use any

TVP\_TownView-spec-sheet 12/20 page 6 of 8

#### TOWN OF AMHERST APPROVAL BOX:

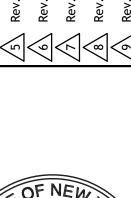
DRAWING NAME: **Lighting Details** 

Drawn By: Scale: DRAWING NO.

01/29/25

C. Wood

As Noted





D

#### TVPC/TVPR TownView

Post top and arm mount luminaire

#### **Specifications** (continued)

Driver comes standard with 0-10V dimming capability. High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277, 347 and 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Maximum ambient operating temperature from 40°F (4°C) to 130°F (55°C). Certified in compliance to UL1310 cULus requirement (dry and damp location). ] The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

#### Integrated Features

R7\*: Tool less rotatable receptacle with 7 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock Interact City node or photoelectric cell or a shorting cap. **SP1**: Surge protection device tested in

accordance with ANSI/IEEE C62.45 per ANSI/ IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level

SP2: Optional 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level. NEMA Labels: Installed NEMA label, ANSI C136.15-2015 compliant. Consult factory for other labeling needs.

Please note that these integrated features

required to ensure proper illumination.

\* Use of photoelectric cell or shorting cap is

always come with the luminaire.

Dimming Options:

DA: 4 Hrs 25% reduction DB: 4 Hrs 50% reduction DC: 4 Hrs 75% reduction DD: 6 Hrs 25% reduction DE: 6 Hrs 50% reduction DF: 6 Hrs 75% reduction DG: 8 Hrs 25% reduction

DH: 8 Hrs 50% reduction DJ: 8 Hrs 75% reduction **DL**: Pre-set driver compatible with the DALI control system. Logarithmic standard **SRD:** Sensor Ready Driver including SR communication (used for dimming and other functionalities). 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle and bottom TLRSR receptacle, if this option included/chosen. This

configuration is compatible with Interact City **AST**: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at CLO: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during

the entire lifespan of the LED module. **OTL:** Pre-set driver to signal end of life of the LED module(s) for better fixture management. FAWS: Field Adjustable Wattage Selector, pre-set to the highest position, can be easily switched in the field to the required position. This reduces total luminaire wattage consumption and reduces the light level – see the FAWS multiplier chart for more details. Note: It is not recommended to use FAWS with other dimming or controls; if you do, set the switch to position 10 (maximum output) to enable the other dimming or controls. Switching FAWS to any position other than 10 will disable the other dimming or controls.

DALI: Pre-set driver compatible with DALI **SRD**: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle. SRD1: Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

**Driver and Luminaire Options** PH8: 7 Pin Tooless rotatable standard - with photocell. Photocell has dimensional limits: 3" dia x 2" tall (for non



**PH9:** 7 Pin Tooless rotatable

standard - with shorting cap

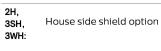
PHX: 7 Pin Tooless rotatable standard - with long life photocell. Photocell has dimensional limits: 3" dia 3 2" tall (for non black finishes



Sensor ready receptacle located on the heat sink between two LED boards. Cannot be combined With 16 or 48 LED's or horizontal lens. Contact factory for use with panel **TVP** options.









#### TVP\_TownView-spec-sheet 12/20 page 7 of 8

LUMEC

by (s) ignify

assistance throughout the life of the product.

RoadFocus

Lumec RoadFocus LED cobra head luminaires feature a sleek design that provides seamless replacement of existing HID luminaires. RoadFocus is available in three sizes, offers multiple lumen packages, and a complete array of optical distributions, making it an outstanding solution for all types of roadway applications. Includes Service Tag, innovative way to provide

Location:	
Cat.No:	
Туре:	
Lumens:	Qty:

	LED					Optio	ns				
Series RFS	module 35W16LED	CCT Generation G2		Distribution R2M	Voltage UNV	Cont		Options API-RCD		Finis GY3	
RFS RoadFocus small	15W12LED 20W12LED 25W16LED 35W16LED 35W16LED 45W16LED 60W16LED 54W16LED 60W16LED 35W20LED 55W32LED 60W32LED 72W32LED 108W32LED 108W32LED 55W40LED 56W40LED 56W40LED 156W40LED 158W40LED	4K 4000K 3K 3000K 2.7K" 2700K		Type 2 R2S Type II short (ASYM) R2M Type II Medium (ASYM) Type 3 R3S Type III Short (ASYM) R3M Type III Medium (ASYM) Type IV (ASYM) Type 4 Type IV (ASYM) Type 5 Type V (SYMM)	UNV 120-277V HVU 347-480V	D4I <sup>15</sup> DALI <sup>1</sup> DMG <sup>5</sup> SRD <sup>1</sup> SRD1 <sup>1</sup>	Zhaga-D4i certified Digitally addressable lighting interface 0-10V Sensor ready driver, standard configuration Sensor ready driver, alternate configuration	l	Factory installed NEMA label, ANSI C136.15-2015 compliant Field adjustable wattage selector Cul-de-Sac Shield Front Side Shield House Side Shield House Side Shield No receptacle 4-position terminal block Outdoor Multisensor Twist-lock photoelectric cell, UNV (120-277VAC) Twist-lock photoelectric cell (347VAC) Twist-lock photoelectric cell (480VAC) Twist-lock photoelectric cell, extended life, UNV (120-277VAC) Shorting cap Tool less receptacle for twist-lock photocell or shorting cap, 5-pin (optional) Tool less receptacle for twist-lock photocell or shorting cap, 7-pin (standard) 20kV / 10kA Surge protector SR receptacle Meets the requirements of the Buy American Act of 1933 (BAA)	BK BR GY3 WH	Black Bronze Gray White

- Not available with **HVU**.  $^{2}\,$  Refer to Accessories section to confirm compatibility of shields with optical distribution. to ensure proper illumination.
- Use of photoelectric cell or shorting cap is required <sup>4</sup> Select either DALI or DMG or SRD or SRD1 mandatory option.
- <sup>5</sup> Please note this integrated feature come standard with RoadFocus. <sup>6</sup> Only available with **SRD** or **SRD1** Only available with **DMG** Driver Options.
- Not available with PH8, PH8/347, PH8/480, PHXL, PH9, DALI, SRD or SRD1 Driver Options. Not available with SRD Driver Options. Either RCD or RCD7 must be selected
  - 11 Extended lead-time may apply. Consult factory. <sup>12</sup> Not available with **UNV**. <sup>13</sup> Only available with **R2M** or **R3M** distributions. 1 shield provided per LED light engine. <sup>15</sup> TLRSR must be selected with **D4I** <sup>16</sup> TLRSR and D4I must be selected with OMS
- result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. <sup>18</sup> Consult Signify to confirm whether specific

<sup>17</sup> Failure to properly select the "**BAC**" suffix could

DARK SIXY APPROVED

Accessories (must be ordered as separate line item - quickly and easily installed in the field) Interact City connector node (Contact the factory for additional support when connected lighting or additional services are desired.)

Description	Luminaire Option Code	Accessory Ordering Code		Shield vs Distribution Compatibility					
		12/16 LED version*	20 LED version*	R2M	R2S	R3M	R3S	4	5
Cul-de-sac shield	CSS	ACC-LG66V16LED-CSS	ACC-LG66V20LED-CSS	Yes	Yes	Yes	Yes	Yes	Yes
Front side shield	FSS	ACC-LG66V16LED-FSS	ACC-LG66V20LED-FSS	Yes	Yes	Yes	Yes	No	Yes
House side shield	HS	ACC-LG66V16LED-HS	ACC-LG66V20LED-HS	Yes	Yes	Yes	Yes	Yes	No
Left side shield	LSS	ACC-LG66V16LED-LSS	ACC-LG66V20LED-LSS	Yes	Yes	Yes	Yes	Yes	Yes
Right side shield	RSS	ACC-LG66V16LED-RSS	ACC-LG66V20LED-RSS	Yes	Yes	Yes	Yes	Yes	Yes

\*Refer to Wattage table to confirm light engine configuration. Example, if configuration is 2x16LED, 2 of the desired shields must be ordered per luminaire.

RoadFocus-RFS-Spec 10/21 page 1 of 5

#### TVPC/TVPR TownView

Post top and arm mount luminaire

#### **Specifications** (continued)

#### Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750. System Reliability Tool. Philips Advance data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours (72W32LED and 108W48LED at 700mA) or 94,500 hours (108W32LED and 160W48LED at 1050mA) with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

18AWG wire, 6" (15mm) minimum extending from luminaire.

#### Optional Terminal block

Terminal block connector 600V, 85A for use with #14-2 AWG wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time-delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses. Fuses and holders by others or consult factory

Hardware All non-ferrous fasteners prevent corrosion and ensure longer life. All seals and sealing devices are made and/or lined with EPDM silicone rubber.

**RFS** RoadFocus

>60,000 hours >97.6%

Total LEDs | Configuration | Average System Watts<sup>15</sup> | Wattage label

**RFS-15W12LED** 12 1x12LED 14 10

**RFS-20W12LED** 12 1x12LED 19 20 **RFS-25W12LED** 12 1x12LED 25 20

**RFS-60W16LED** 16 1x16LED 61 60

**RFS-20W20LED** 20 1x20LED 20 20 **RFS-40W20LED** 20 1x20LED 40 40

LED Cobra head (small)

**Predicted Lumen Depreciation Data** 

**LED Wattage values** 

**RFS-25W16LED** 16 1x16LED

**RFS-50W16LED** 16 1x16LED

**RFS-54W16LED** 16 1x16LED

**RFS** RoadFocus

Color Lumen Efficacy BUG

LED Cobra head (small)

3000K LED Lumen values

#### **Certifications and Compliance**

accordance with testing performed and per

ASTM B117 standard.

BZS:

GNS:

BKS: Black Smooth

WHS: White Smooth

Vibration Resistance

over 100,000 cycles).

Bronze Smooth

Green Smooth

Black Texture

White Texture

Bronze Texture

Green Texture

The electronic components sensitive to

emitting diodes (LEDs) are assembled in

electrostatic discharge (ESD) such as light

compliance with IEC61340-5-1 and ANSI/ESD

could decrease the useful life of the product.

S2, S3, S4 Fitter and A Arm Mount Meets the

Roadway Luminaire Vibration specifications

ANSI C136.31, American National Standard for

for Bridge/overpass applications (Tested for 3G

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11 Addendum B. Published L<sub>70</sub> hours limited to 6 times actual LED test hours.

Light Engine

RFS-55W32LED 32 2x16LED

**RFS-72W32LED** 32 2x16LED **RFS-108W32LED** 32 2x16LED

Typical values, rounded.

Ordering Code Temp. | Output | (LPW) | Rating | Output | (LPW) | (LPW) | Rating | Output | (LPW) |

RFS-15W12LED 3000 1,748 124 B1-U0-G1 1,820 129 B1-U0-G0 1,743 124 B1-U0-G1 1,766 125 B0-U0-G0 1,735 123 B0-U0-G1 1,805 128 B1-U0-G0

RFS-20W12LED 3000 2,369 122 B1-U0-G1 2,466 127 B1-U0-G0 2,362 122 B1-U0-G1 2,394 123 B1-U0-G1 2,351 121 B1-U0-G1 2,445 126 B2-U0-G

RFS-25W12LED 3000 2,708 109 B1-U0-G1 2,819 113 B1-U0-G0 2,700 108 B1-U0-G1 2,736 110 B1-U0-G1 2,687 108 B1-U0-G1 2,795 112 B2-U0-G1

RFS-25W16LED 3000 3,117 129 B1-U0-G1 3,244 134 B1-U0-G0 3,107 128 B1-U0-G1 3,149 130 B1-U0-G1 3,092 128 B1-U0-G1 3,217 133 B2-U0-G1

RFS-30W16LED 3000 3,531 122 B1-U0-G1 3,676 127 B1-U0-G0 3,520 122 B1-U0-G1 3,567 124 B1-U0-G1 3,504 121 B1-U0-G1 3,644 126 B2-U0-G1

RFS-45W16LED 3000 5,157 114 B1-U0-G1 5,368 119 B1-U0-G1 5,141 114 B1-U0-G1 5,210 115 B1-U0-G1 5,117 113 B1-U0-G2 5,322 118 B3-U0-G1

RFS-54W16LED 3000 5,963 113 B2-U0-G1 6,207 117 B2-U0-G1 5,944 112 B1-U0-G1 6,024 114 B1-U0-G1 5,916 112 B1-U0-G2 6,154 116 B3-U0-G1

RFS-50W16LED 3000 | 5,465 | 109 | B1-U0-G1 | 5,689 | 113 | B1-U0-G1 | 5,448 | 109 | B1-U0-G1 | 5,521 | 110 | B1-U0-G1 | 5,422 | 108 | B1-U0-G2 | 5,640 | 112 | B3-U0-G1

RFS-60W16LED 3000 6,500 106 B2-U0-G1 6,767 111 B2-U0-G1 6,480 106 B2-U0-G1 6,567 107 B1-U0-G2 6,450 106 B1-U0-G2 6,709 110 B3-U0-G1

RFS-35W32LED 3000 4,875 132 B1-U0-G1 5,075 137 B1-U0-G1 4,860 131 B1-U0-G1 4,925 133 B1-U0-G1 4,837 131 B1-U0-G1 5,032 136 B3-U0-G1

RFS-55W32LED 3000 7,062 132 B2-U0-G1 7,351 137 B2-U0-G1 7,040 132 B2-U0-G1 7,134 133 B1-U0-G2 7,007 131 B1-U0-G2 7,289 136 B3-U0-G1

RFS-60W32LED 3000 7,158 122 B2-U0-G1 7,452 127 B2-U0-G1 7,136 122 B2-U0-G1 7,232 123 B1-U0-G2 7,103 121 B1-U0-G2 7,388 126 B3-U0-G1

RFS-72W32LED 3000 8,826 121 B2-U0-G2 9,188 126 B2-U0-G1 8,799 121 B2-U0-G2 8,917 122 B1-U0-G2 8,758 120 B2-U0-G2 9,110 125 B3-U0-G2

RFS-108W32LED 3000 12,219 113 B3-U0-G2 12,720 118 B3-U0-G2 12,181 113 B2-U0-G2 12,344 114 B2-U0-G2 12,124 112 B2-U0-G2 12,611 117 B4-U0-G2

RFS-35W16LED 3000 4,512 119 B1-UO-G1 4,697 124 B1-UO-G1 4,498 118 B1-UO-G1 4,558 120 B1-UO-G1 4,477 118 B1-UO-G1 4,657 123 B3-UO-G1

**RFS-35W32LED** 32 2x16LED 37 40

**RFS-50W40LED** 40 2x20LED 49 50 **RFS-55W40LED** 40 2x20LED 54 50

**RFS-65W40LED** 40 2x20LED 66 70

**RFS-100W40LED** 40 2x20LED 101 100

**RFS-80W40LED** 40 2x20LED 79 80

16. As per ANSI C136.15-2015. Consult factory for other labeling needs.

Lumen Efficacy BUG Lumen Efficacy BUG Lumen Efficacy BUG Lumen Efficacy BUG Lumen Efficacy BUG

Total LEDs | Configuration | Average System Watts 15 | Wattage label 16

S20.20 standards to eliminate ESD events that

LED products manufacturing standard

Color in accordance with the AAMA 2603 cETL listed to Canadian safety standards for standard. Application of polyester powder wet locations. Manufactured to ISO 9001:2008 coat paint (4 mils/100 microns) with 1 mils / Standards. UL8750 and UL1598 compliant. ETI 24 microns of tolerance. The Thermosetting listed to U.S. safety standards for wet locations. resins provides a discoloration resistant finish cETL listed to Canadian safety standards for we in accordance with the ASTM D2244 standard, locations. LM80 & LM79 tested. Listed on the as well as luster retention in keeping with the DesignLights TM Consortium (DLC) Qualified ASTM D523 standard and humidity proof in Products List (QPL).ANSI C136 standards: .2, .3, accordance with the ASTM D2247 standard. .10, .14, .15, .22, .25, .31, .37, .41. The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in

#### Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a OR code. placed on the inside of the mast door, you gain instant access to the luminaire configuration. making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: philips.com/servicetag

#### Limited Warranty

5 year standard warranty. Options available for extended warranties - contact factory. See **signify.com/warranties** for details and restrictions.

#### **Brackets and Poles**

Visit the website for pole and post top

#### /A LITHONIA LIGHTING®

#### FEATURES & SPECIFICATIONS **INTENDED USE** — For wood poles.

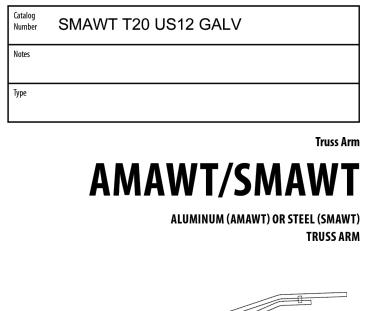
CONSTRUCTION — Aluminum: Body is schedule 40 aluminum pipe 6063-T6. Welding follows indus-try standards best practices. Arms are pressure-washed after fabrication. Steel: Body is constructed from A500 Grade B steel tubing. Welding follows industry standards best practices.

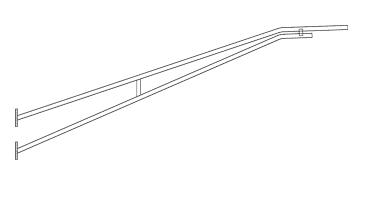
Bracket is galvanized (per ASTM A-123) or painted after fabrication. FINISH — Extra durable standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors, Extended Warranty Finishes, Hot-dipped Galvanized, Paint over Hotdipped Galvanized for steel, Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum

and Anodized Black for aluminum. Factory-applied primer paint finish is available for customer field-paint INSTALLATION — Mounting hardware to be provided by installer and is determined by the pole type and

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions **NOTE**: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.





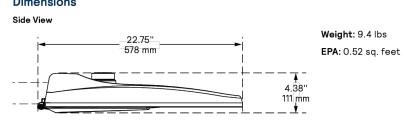
Series	Pipe Size	Arm length	Finish <sup>3</sup>
AMAWT SMAWT	T20 2-3/8" O.D. (2" NPS)	US6 6' arm length US8 8' arm length US10 10' arm length US12 12' arm length US14 14' arm length US15 15' arm length US16 16' arm length US18 18' arm length US20 20' arm length	Super durable paint colors DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white Other finishes³ BA Brushed aluminum SA Satin aluminum GALV Galvanized steel Class 1 architectural anodized ABL Black ADB Dark bronze ANA Natual
			Primer finish  DPRM Red primer  Architectural colors and special finishes  Paint over galvanized, RAL colors, custom colors and extended warranty finishes available for steel. Duranodic anodize, paint over Duranodic anodize RAL colors, custom colors and extended warranty finishes available for aluminum.

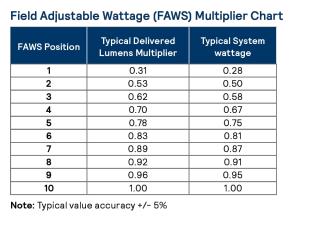
Not available for AMAWT series. Finish must be specified. Additional colors available; see Architectural Colors brochure linked here (Form No. 794.3).

BA and SA for AMAWT only. GALV for SMAWT only.

**RFS** RoadFocus

#### LED Cobra head (small





POLE-AMAWT-SMAWT

#### **Specifications**

Made of a low copper die cast Aluminum alloy (A360), 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 5 1/2" (140mm) minimum long tenon. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of per IESNA TM-15. +/- 5° tilt in 2.5° increments. Includes integral bubble level standard (always included). A quick release, tool less entry, single latch,

hinged, removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent efficiency and life. Product does not use any accidental dropping or disengagement. A clearance of 13" (330mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders and an ANSI label as per C136.15-2015 -40°C / -40°F up to +50°C / +122°F. to identify wattage and source (both included in **Driver:** High power factor of 90% min. Electronic box). Housing (including electrical compartment) driver, operating range 50/60 Hz. Auto adjusting \* Use of photoelectric cell or shorting cap rated IP54 per ANSI C136.37.

Composed of 4 main components: LED Module / Optical System / Heat Sink / Driver. Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan. LED Module: Composed of high-performance white LEDs. Color temperature as per ANSI/ NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory.

RoadFocus-RFS-Spec 10/21 page 4 of 5

#### Optical System: Composed of high performance DMG: Dimmable driver 0-10V. UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized

superior lighting uniformity. System is rated

photometric performance. 0% uplight and U0

Heat Sink: Built in the housing, designed to

natural vertical convection air flow pattern

ensure high efficacy and superior cooling by

for both application line to line or line to neutral.

The current supplying the LEDs will be reduced

overheating as a protection to the LEDs and the

electrical components. Output is protected from

by the driver if the driver experiences internal

short circuits, voltage overload and current

Standard built in driver surge protection of

overload. Automatic recovery after correction.

Class I or 2, THD of 20% max.

DMG: Dimming compatible 0-10 volts.

IP66. Performance shall be tested per LM-

63, LM-79 and TM-15 (IESNA) certifying its

RCD7\*: Tool less orientable receptacle with 7 pins enabling dimming and additional to get maximum spacing, target lumens and a functionality (to be determined), can be used with a twist lock Interact City node or photoelectric cell or a shorting cap. Please note: Additional hardware will be required to utilize the additional 2 pins on this receptacle. SP1: Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/ IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Linealways close to LEDs and driver optimising their Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model cooling device with moving parts (only passive Specification for LED Roadway Luminaires cooling). Wide openings enable natural cleaning Appendix D Electrical Immunity High test and removal of dirt and debris. Entire luminaire level 10kV/10kA. is rated for operation in ambient temperature of

Please note that these integrated features always come with RoadFocus luminaire. universal voltage input from 120 to 277 VAC rated is required to ensure proper illumination.

#### TOWN OF AMHERST APPROVAL BOX

#### DRAWING NAME: **Lighting Details**

Drawn By:

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D

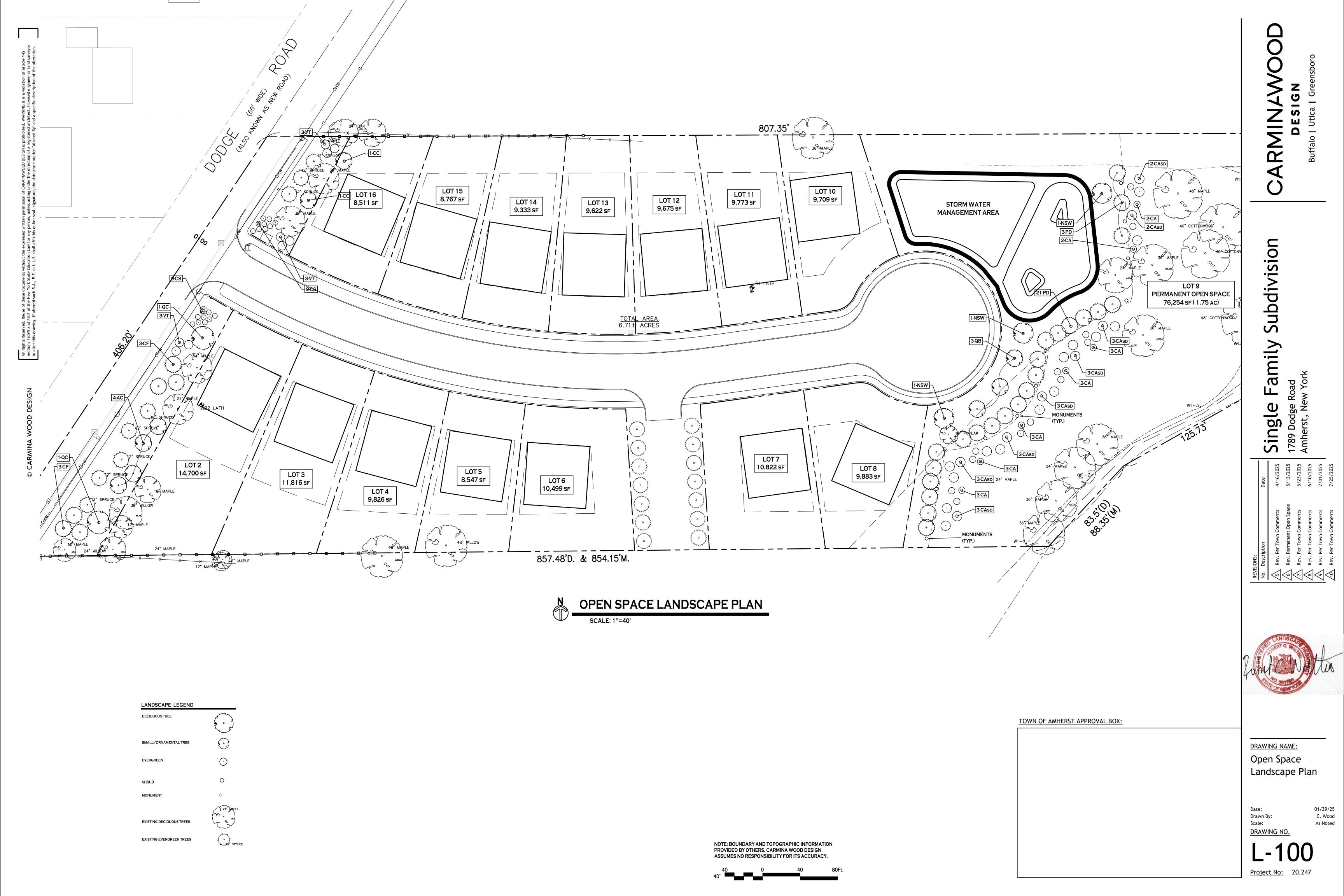
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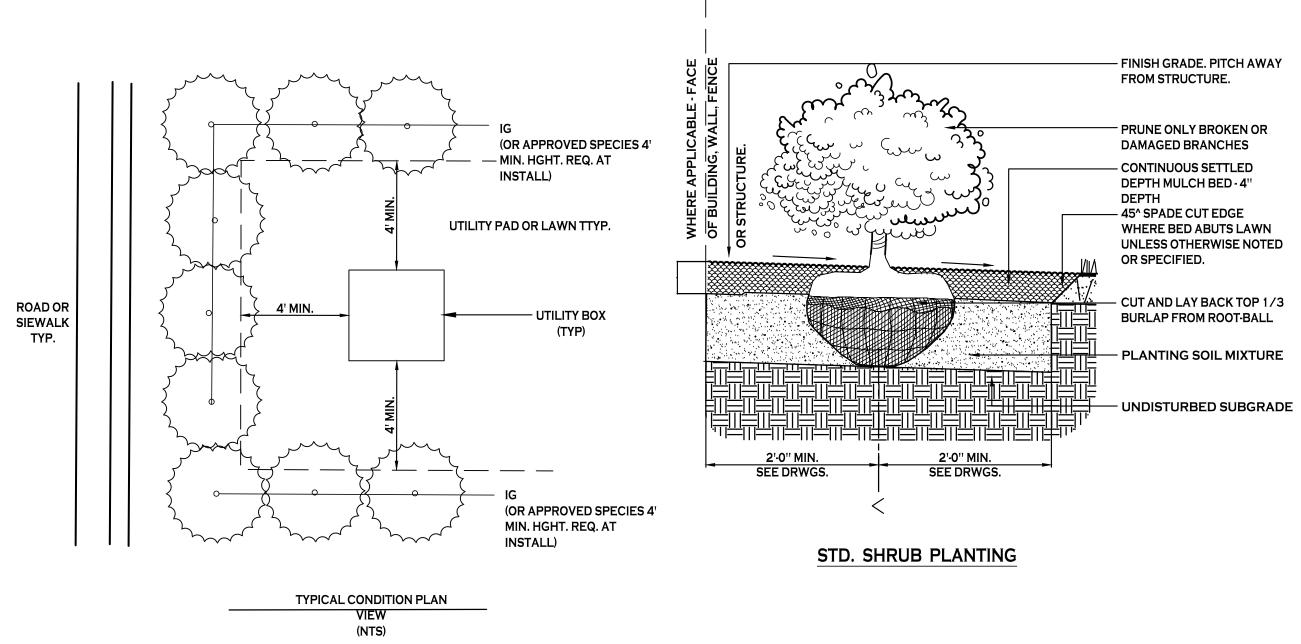
DRAWING NO.

01/29/25

C. Wood

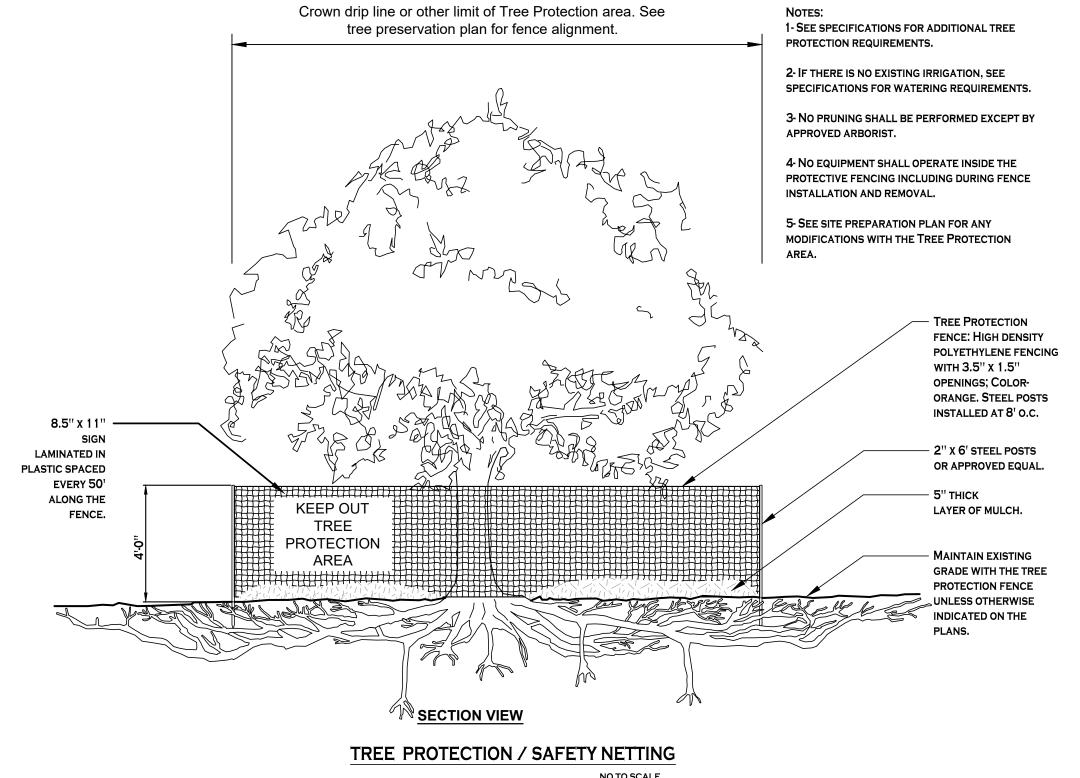
As Noted





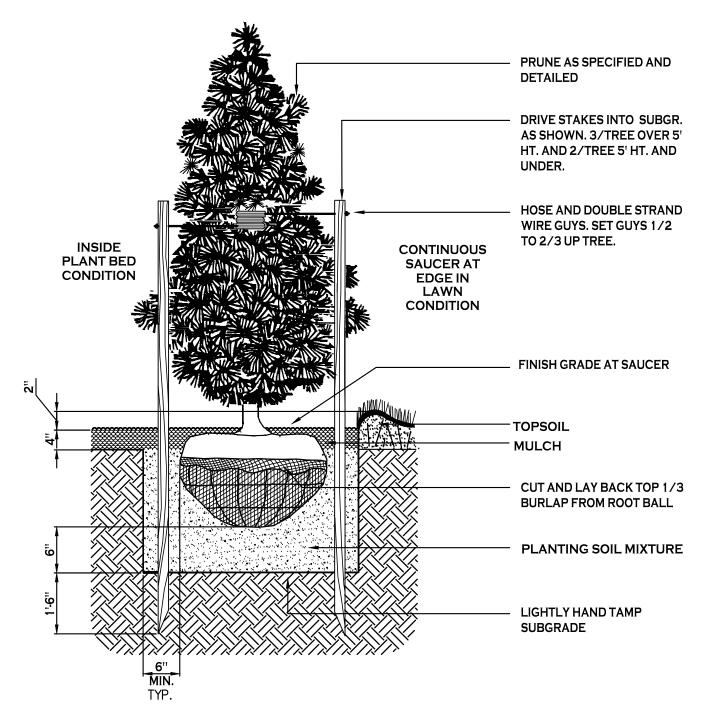
- 1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST
- 2. PROVIDE A MINIMUM 4' OFFSET FROM THE SHRUBS PLANTED EDGE TO THE EDGE OF THE UTILITY BOX TO ALLOW ENOUGH CLEARANCE FOR UTILITY MAINTENANCE TO BE PERFORMED

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFASTRUCTURE

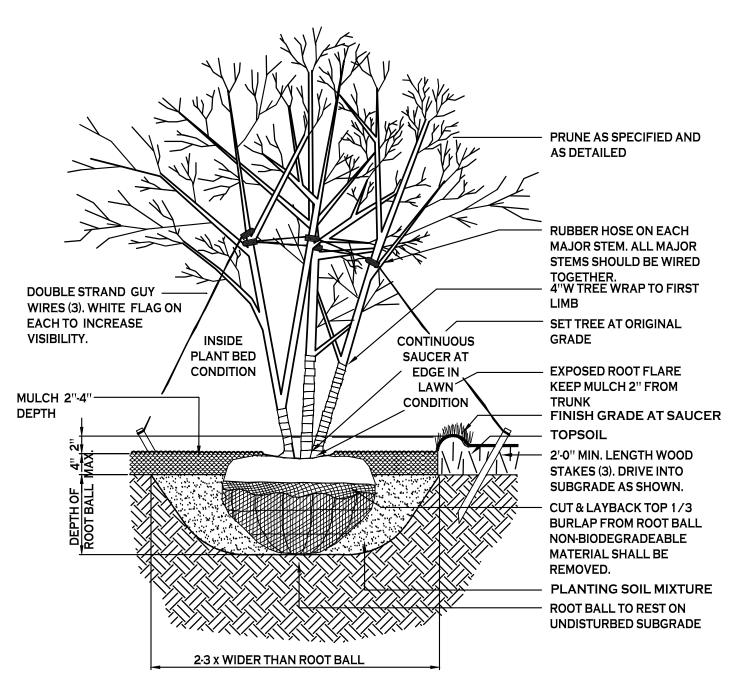


#### PLANT FINISH SCHEDULE - 1789 DODGE ROAD -AMHERST, NEW YORK

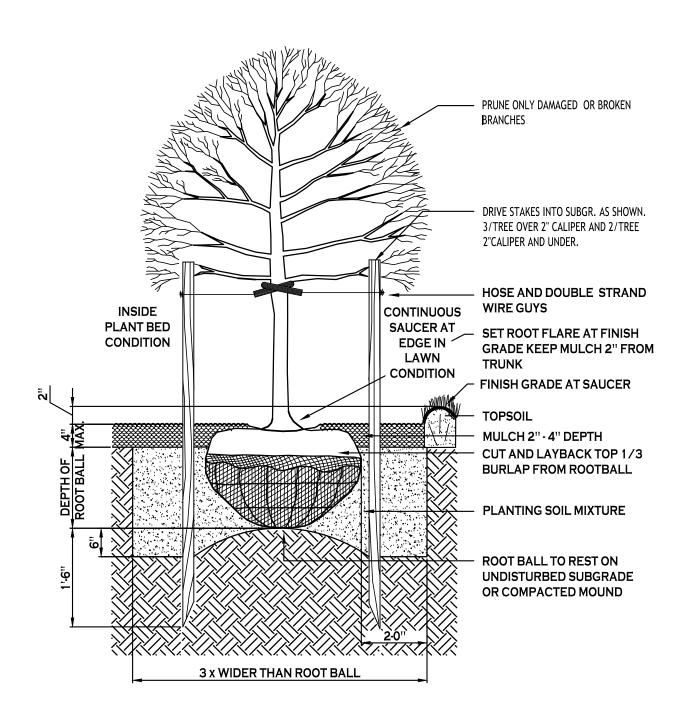
KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		DECIDUOUS TREES			
QC	2	Quercus coccinea	Scarlet Oak	2 1/2" - 3" CAL.	B&B, HT. 60', W 40'
NSW	3	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
QB	3	Quercus bicolor 'Bonnie & Mike'	Bonnie & Mike Oak	2 1/2" - 3" CAL.	B&B, HT. 40', W 15'
	S M A	ALL / ORNAMENTAL TR	EES		
CC	2	Cercis canadensis	Redbud	2 1/2" - 3" CAL.	B&B, HT.20', W 25'
AC	4	Amelanchier canadensis	Shadblow Serviceberry	2 1/2" - 3" CAL.	B&B, HT.20', W 25'
		EVERGREEN TREES			
PG	23	Picea glauca 'Densata'	White Spruce	6-8' Tall	B&B, HT. 20', W 8'
AC	6	Abies concolor	White Fir	6-8' Tall	B&B, HT. 60', W 20'
		SHRUBS		•	
CS	18	Cornus sericea 'Arctic Fire'	Arctic Fire Dogwood	24-36" Tall	B&B, HT. 4', W 4'
CAsd	22	Cornus amomum 'Silky Dogwood'	Silky Dogwood	24-36" Tall	B&B, HT. 4', W 4'
CA	19	Clethra alnifolia	Summersweet	24-36" Tall	B&B, HT. 4', W 4'
VT	9	Viburnum plicatum tomentosum 'Mariesii'	nentosum 'Mariesii' Doublefile Viburnum		B&B, HT. 4', W 4'



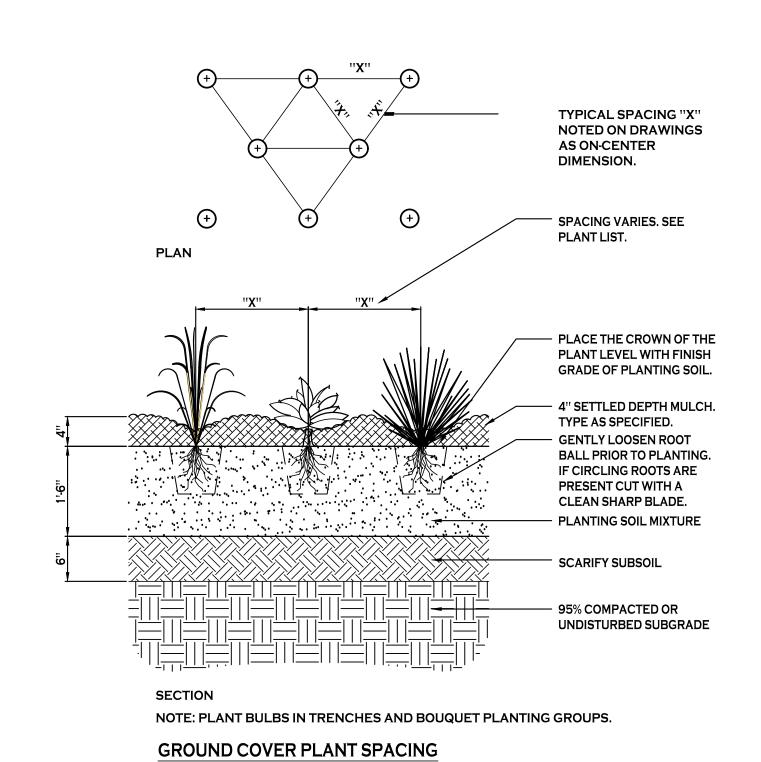
STD. EVERGREEN PLANTING

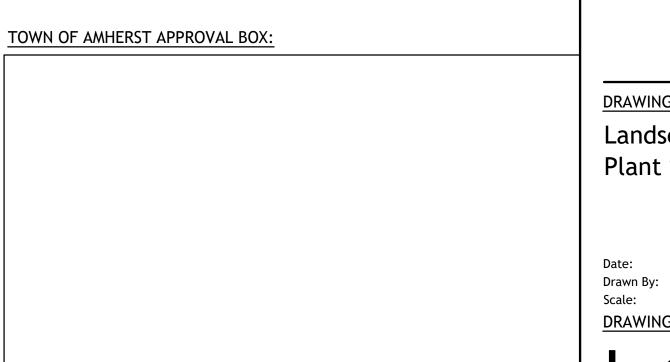


DECIDUOUS TREE PLANTING - MULTI - STEM



STD. DECIDUOUS TREET PLANTING





**DRAWING NAME:** Landscape Details Plant Schedule

DRAWING NO.

01/29/25 C. Wood

As Noted

Project No: 20.247

D

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