

BOROUGH OF GREENCASTLE

FRANKLIN COUNTY, PENNSYLVANIA

NORTH WASHINGTON STEET ROADWAY IMPROVEMENTS

UNDERGROUND UTILITY LINE PROTECTION ACT

ARRO CONSULTING, INC. HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017 OF THE PENNSYLVANIA LEGISLATURE, IT HAS COMPLIED WITH THE DESIGNER'S DUTIES PROVISIONS OF THE ACT IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS.

ARRO CONSULTING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY OR ASSURANCE OR OTHERWISE GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID ACT FROM THE FACILITY OWNER, AS THE TERM FACILITY OWNER IS DEFINED IN THE ACT, AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE.

DATE: XX BY: ARRO CONSULTING, INC

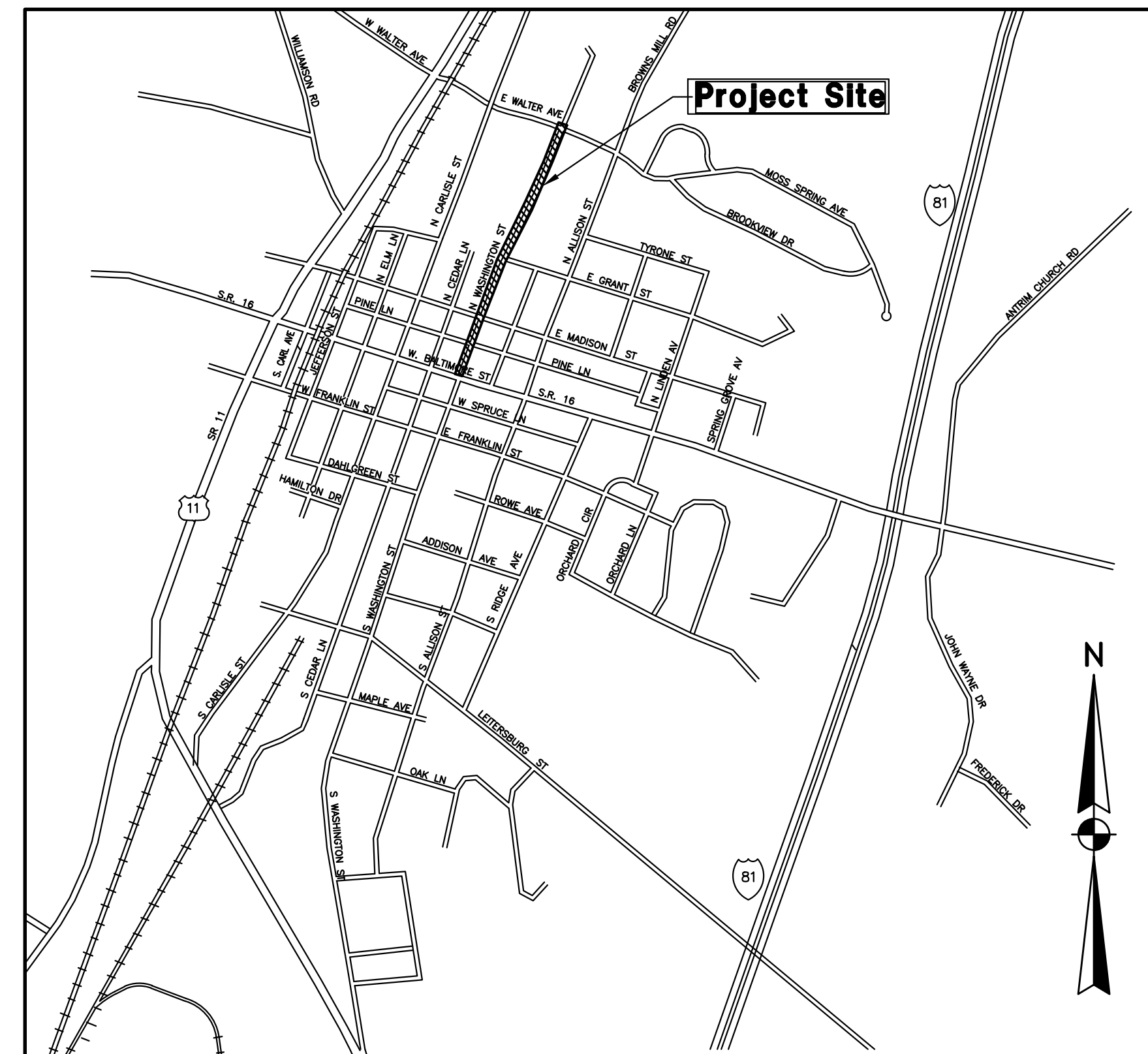
PA ONE CALL SERIAL NOS: XXXXXXXXX



THE REFERENCED ACT REQUIRES NOTIFICATION BY DESIGNERS, CONTRACTORS, OR ANY OTHER PARTY INVOLVED IN DISTURBING THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

UTILITY LIST

- | | |
|---|--|
| <p>COMPANY: WINDSTREAM
ADDRESS: 1450 CENTER POINT RD
HIAMATHIA, IA, 52233
CONTACT: LOCATE DESK PERSONNEL
EMAIL: locate.desk@windstream.com</p> | <p>COMPANY: GREENCASTLE BOROUGH
ADDRESS: 60 N WASHINGTON ST
GREENCASTLE, PA, 17225
CONTACT: BOB MANAHAN
EMAIL: bmanahan@greencastlepa.gov</p> |
| <p>COMPANY: COLUMBIA GAS OF PA INC
ADDRESS: 1600 DUBLIN RD
COLUMBUS, OH, 43215
CONTACT: LISA COLLINS
EMAIL: ldugan@nisource.com</p> | <p>COMPANY: COMCAST CABLE COMMUNICATIONS INC
ADDRESS: C/O USIC LOCATING SERVICES INC
13085 HAMILTON CROSSING BLVD STE 200
CARMEL, IN, 46032
CONTACT: USIC OFFICE PERSONNEL</p> |
| <p>COMPANY: COLUMBIA GAS OF PA INC
ADDRESS: 1600 DUBLIN RD
COLUMBUS, OH, 43215
CONTACT: DAMAGE PREVENTION PERSONNEL
EMAIL: rccour1@nisource.com</p> | <p>COMPANY: CENTURYLINK
ADDRESS: 250 LINCOLN WAY E
CHAMBERSBURG, PA, 17201
CONTACT: TRENT ROTZ
EMAIL: Trent.M.Rotz@Centurylink.com</p> |
| <p>COMPANY: WEST PENN POWER
ADDRESS: 800 CABIN HILL DR
ROOM B100N
GREENSBURG, PA, 15601
CONTACT: ROBERT PAINTER
EMAIL: rpainter@firstenergycorp.com</p> | <p>COMPANY: SPRINT
ADDRESS: 484 WILLIAMSPORT PIKE
BOX 113
MARTINSBURG, WV, 25404
CONTACT: WESLEY CARPENTER
EMAIL: WESLEY.A.CARPENTER@SPRINT.COM</p> |
| <p>COMPANY: CENTURY LINK
ADDRESS: 1025 ELDORADO BLVD
BROOMFIELD, CO, 80021
CONTACT: CENTURY LINK OPERATOR PERSONNEL
EMAIL: RELOCATIONS@LUMEN.COM</p> | |



LOCATION MAP

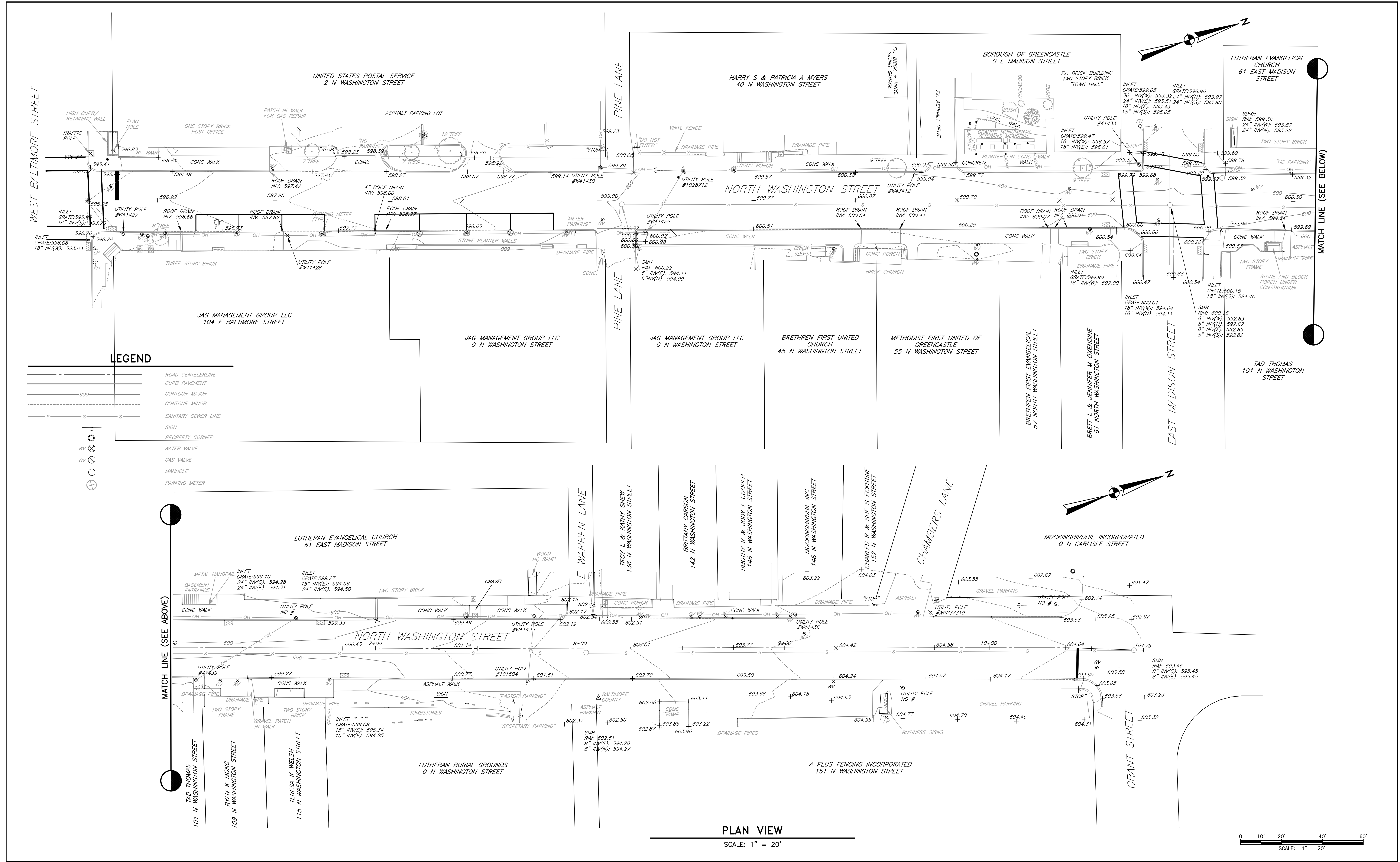
SCALE: 1" = 1000'

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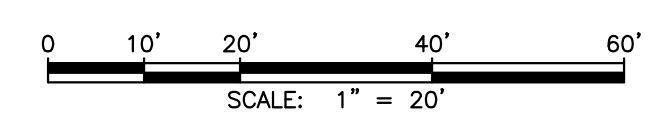
GENERAL NOTES

- THE EXISTING TOPOGRAPHIC MAPPING WAS SURVEYED BY FREDERICK, SEIBERT & ASSOCIATES ON DECEMBER 2018, FEBRUARY AND MARCH OF 2020. DATUM USED IS NAD 83 AND NAVD 88.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING THE WORK.
- INSTALLATION OF CURB AND SIDEWALK SHALL BE IN STRICT COMPLIANCE WITH THE CONCRETE CURB, CONCRETE SIDEWALK, BRICK SIDEWALK, DRIVEWAYS, APPROACHES AND MISCELLANEOUS NEW CONCRETE CONSTRUCTION SPECIFICATIONS FOR THE BOROUGH OF GREENCASTLE.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT ALL TREES, SHRUBS, MAILBOXES AND SIGNS. ALL AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION, INCLUDING PAVEMENT, LAWN, DRIVEWAY, CURB, SIDEWALK, ETC.
- THE CONTRACTOR MUST CONTACT THE PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 AT LEAST THREE WORKING DAYS PRIOR TO THE START OF EXCAVATION OR DEMOLITION WORK TO HAVE ALL UNDERGROUND UTILITIES MARKED IN THE AREA.
- LOCATION AND DEPTH OF EXISTING UTILITY LINES INCLUDING SERVICES SHALL BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF ANY UNDERGROUND CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING EXISTING UTILITY LINES, HAND EXCAVATION ONLY WILL BE PERMITTED IN THE VICINITY OF EXISTING PIPES AND/OR CONDUITS. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- NO STOCKPILING OF MATERIALS OR EXCAVATION SHALL BE PERMITTED DURING CONSTRUCTION WITHIN THE STREET OR SIDEWALK.
- THE CONTRACTOR WILL BE RESPONSIBLE TO INSTALL TEMPORARY MAINTENANCE OF TRAFFIC MEASURES IN ACCORDANCE WITH THE GENERAL TRAFFIC CONTROL SPECIFICATIONS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR INCLUDING ANY TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES.
- THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL RESIDENTS IMPACTED BY WORK AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF WORK.
- THE CONTRACTOR WILL BE REQUIRED TO NOTIFY THE BOROUGH TO INSTALL NO PARKING SIGNS WHEN NECESSARY FOR EACH SEPARATE PORTION OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING EXISTING TRENCH REPAIRS AND REPAIR ANY DEFICIENCIES PRIOR TO FINAL OVERLAY.
- CONTRACTOR SHALL ENSURE ADEQUATE GRADING TO STORMWATER STRUCTURES TO ELIMINATE POOLING AND/OR PONDING ISSUES.
- COLUMBIA GAS TO PROVIDE FINAL PAVEMENT RESTORATION FOR NORTH WASHINGTON ST. (NOT IN CONTRACT). CONTRACTOR SHALL PROVIDE PAVEMENT BASE RESTORATION FOR AREAS INDICATED ON THE PLAN AND SHALL COORDINATE THE SEQUENCE OF CONSTRUCTION FOR BASE PAVEMENT RESTORATION AND FINAL PAVEMENT RESTORATION WITH COLUMBIA GAS.

										EDWARD VAN ARSDALE III, PE RELEASED BY DESIGN CHECKED KLL DRAWN CHECKED KLL DATE OCTOBER 2023 SURVEY DATE MAY 2023 FIELD BOOK CLS		SEAL 		SEAL CLIENT & PROJECT BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225 NORTH WASHINGTON STREET STREETScape GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA		201 Thomas Johnson Drive, Suite 207 Frederick, Maryland 21702 Tel 301.791.1100		TITLE TITLE SHEET		SCALE AS SHOWN		DWG. NO. C-1	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.	PROJECT NO.	SHEET NO.	REV.											
										11172.03	1 OF 15												



PLAN VIEW
SCALE: 1" = 20'



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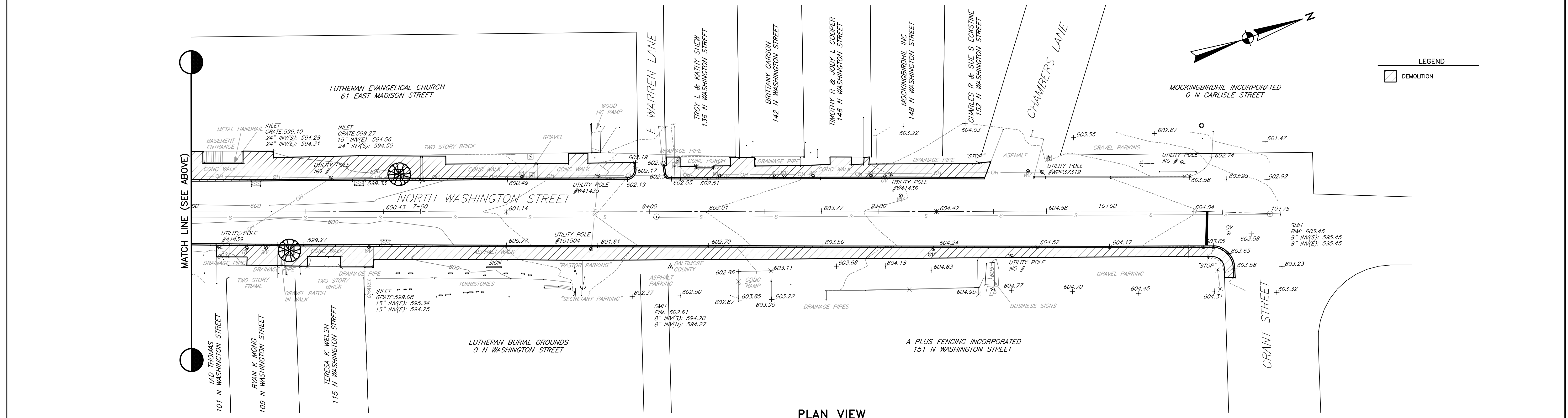
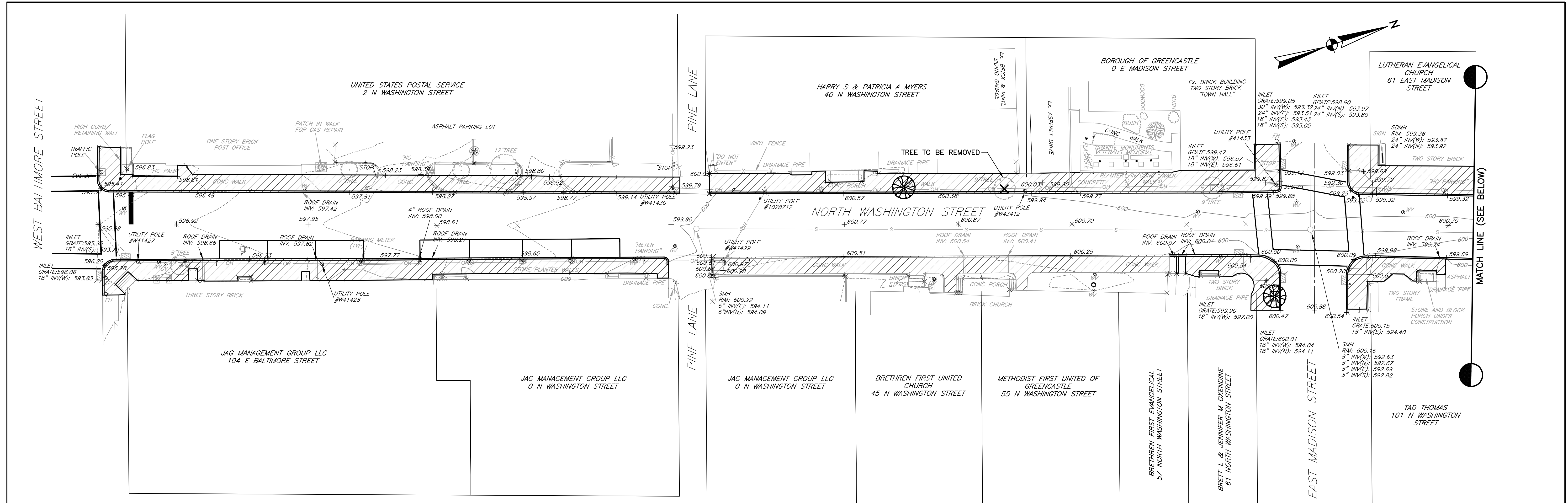
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DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
	CSLI



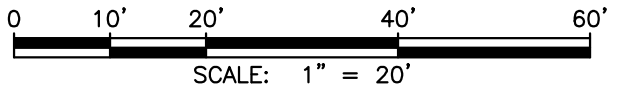
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BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225	
NORTH WASHINGTON STREET STREETScape GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA	

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TITLE		EXISTING CONDITIONS	
SCALE	AS SHOWN	DWG. NO.	C-2
PROJECT NO.	11172.03	SHEET NO.	2 OF 15
REV.			



PLAN VIEW
SCALE: 1" = 20'



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

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DATE	OCTOBER 2023
SURVEY DATE	MAY 2023
FIELD BOOK	CSLI

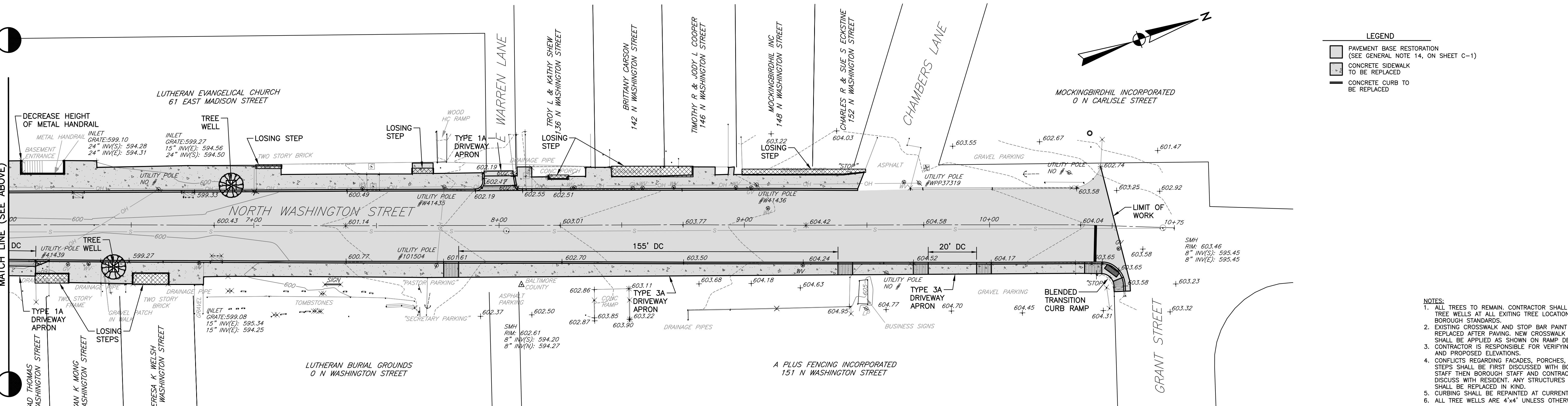
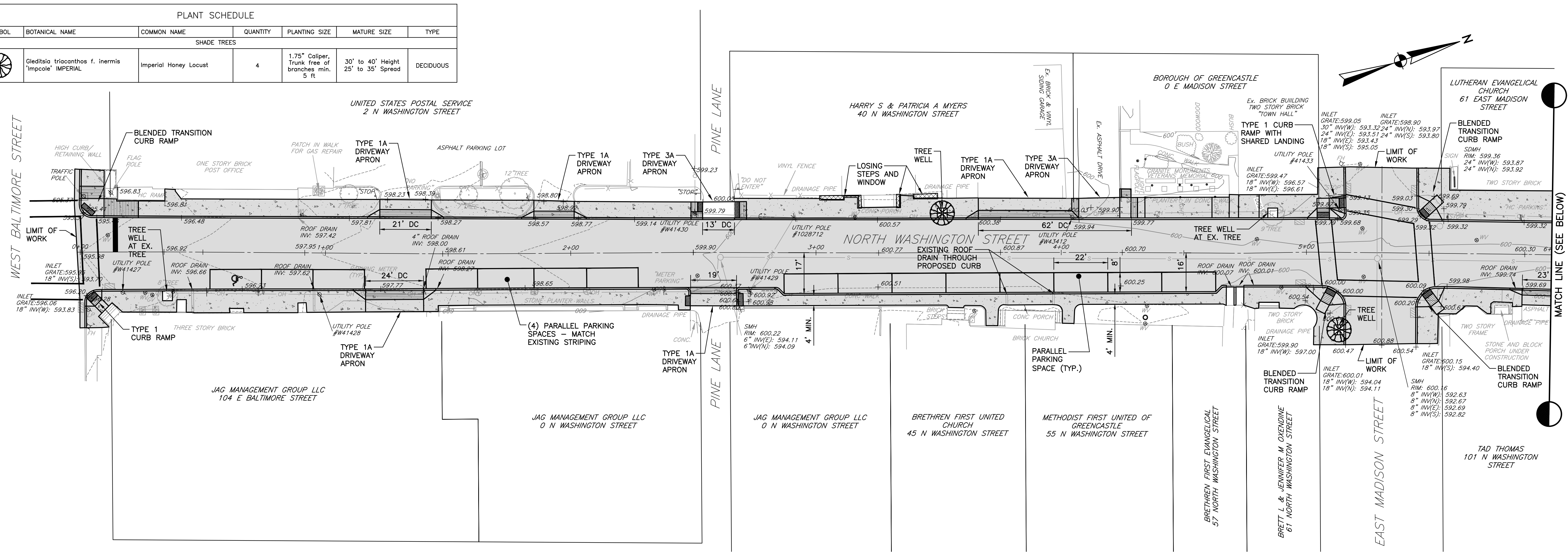


CLIENT & PROJECT
 BOROUGH OF GREENCASTLE
 60 NORTH WASHINGTON STREET
 GREENCASTLE, PA 17225
 NORTH WASHINGTON STREET
 STREETScape
 GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA



TITLE	DEMOLITION		
SCALE	AS SHOWN	DWG. NO.	
PROJECT NO.	11172.03	SHEET NO.	3 OF 15
REV.			

PLANT SCHEDULE						
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	PLANTING SIZE	MATURE SIZE	TYPE
SHADE TREES						
	Gleditsia triacanthos f. inermis 'Imperial'	Imperial Honey Locust	4	1.75" Caliper, Trunk free of branches min. 5 ft	30' to 40' Height, 25' to 35' Spread	DECIDUOUS

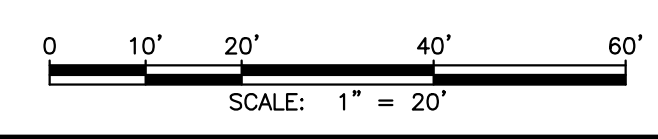


PLAN VIEW
SCALE: 1" = 20'

LEGEND

	PAVEMENT BASE RESTORATION (SEE GENERAL NOTE 14, ON SHEET C-1)
	CONCRETE SIDEWALK TO BE REPLACED
	CONCRETE CURB TO BE REPLACED

- NOTES:
1. ALL TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE WELLS AT ALL EXISTING TREE LOCATIONS PER BOROUGH STANDARDS.
 2. EXISTING CROSSWALK AND STOP BAR PAINT SHALL BE REPLACED AFTER PAVING. NEW CROSSWALK PAINT SHALL BE APPLIED AS SHOWN ON RAMP DETAIL PLANS.
 3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING AND PROPOSED ELEVATIONS.
 4. CONFLICTS REGARDING FACADES, PORCHES, AND/OR STEPS SHALL BE FIRST DISCUSSED WITH BOROUGH STAFF THEN BOROUGH STAFF AND CONTRACTOR SHALL DISCUSS WITH RESIDENT. ANY STRUCTURES AFFECTED SHALL BE REPLACED IN KIND.
 5. CURBING SHALL BE REPAINTED AT CURRENT LOCATIONS.
 6. ALL TREE WELLS ARE 4'x4' UNLESS OTHERWISE NOTED.



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

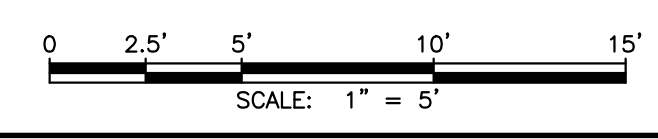
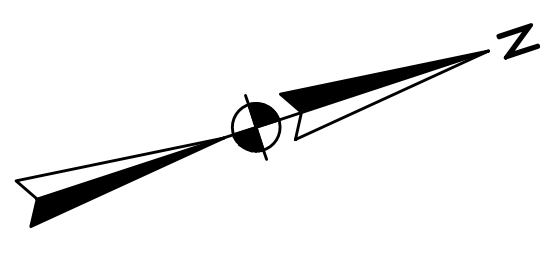
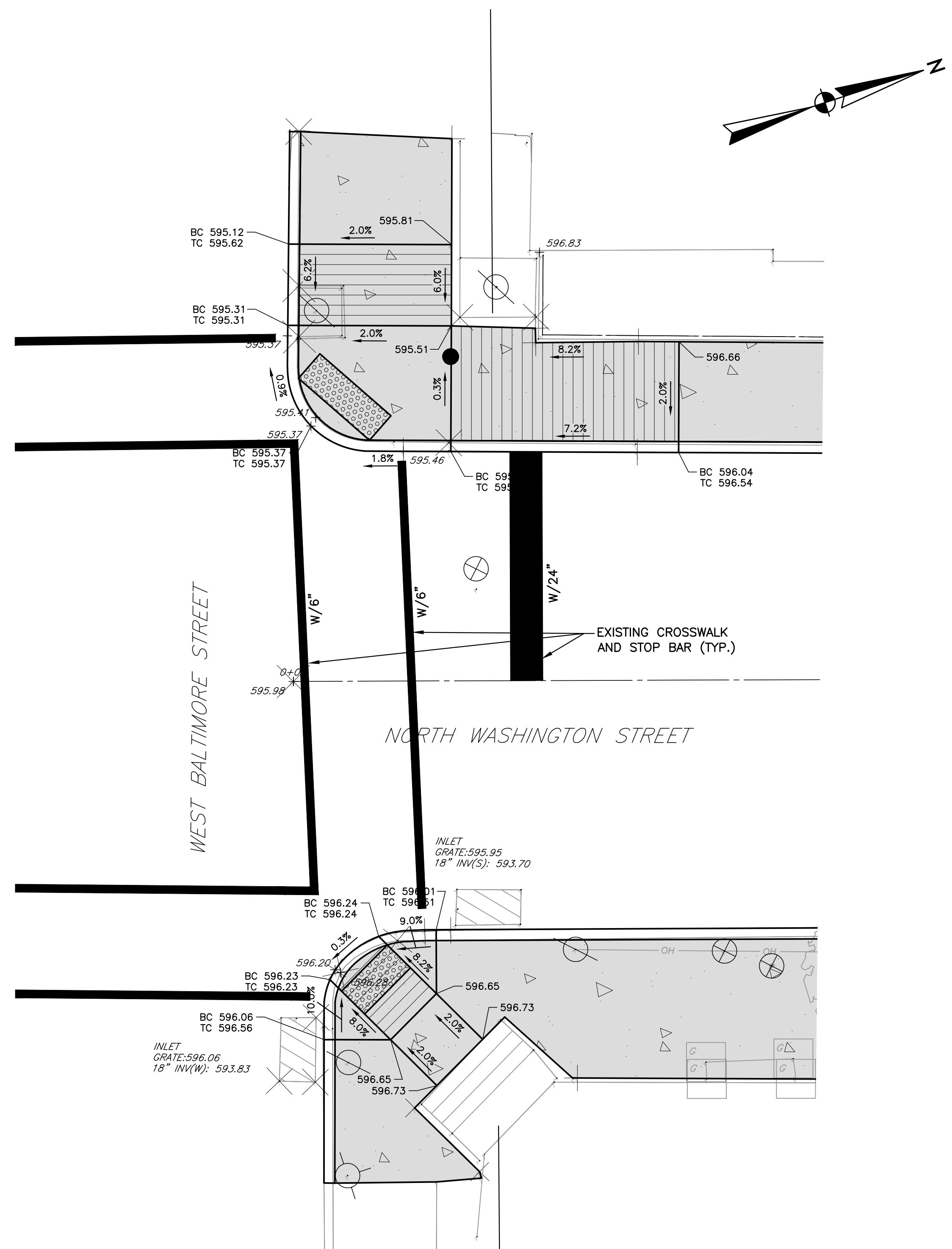
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DATE	SURVEY DATE
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	NORTH WASHINGTON STREET STREETSCAPE GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA

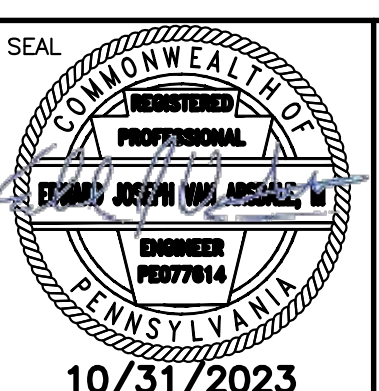
201 Thomas Johnson Dr. Ste. 207
Frederick, Maryland 21702
Tel 301.791.1100

TITLE	SITE PLAN		
SCALE	AS SHOWN	DWG. NO.	C-3
PROJECT NO.	11172.03	SHEET NO.	4 OF 15
		REV.	



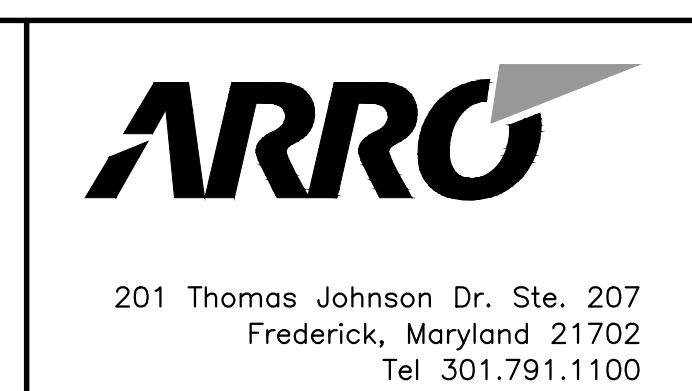
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DATE	OCTOBER 2023
SURVEY DATE	MAY 2023
FIELD BOOK	CSLI

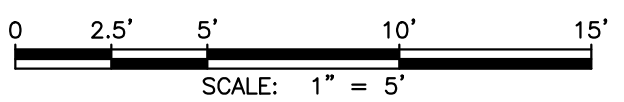
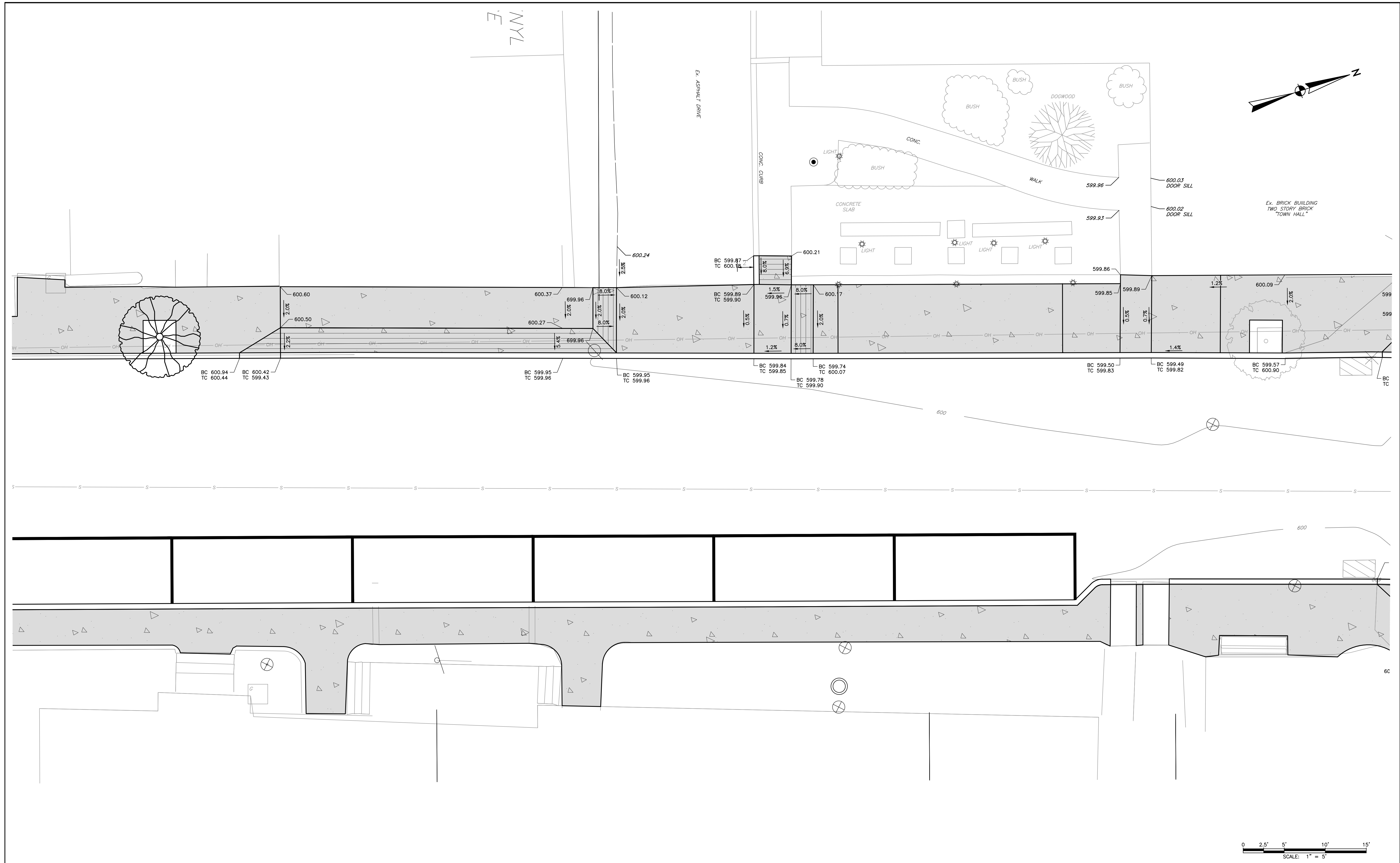


SEAL

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 BOROUGH OF GREENCASTLE
 60 NORTH WASHINGTON STREET
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 NORTH WASHINGTON STREET
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 GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA



TITLE CURB RAMPS		
SCALE AS SHOWN	DWG. NO. C-5	
PROJECT NO. 11172.03	SHEET NO. 5 OF 15	REV.



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

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DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
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CLIENT & PROJECT

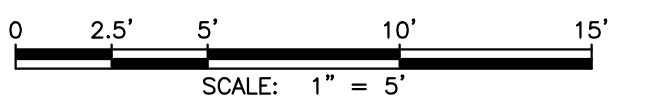
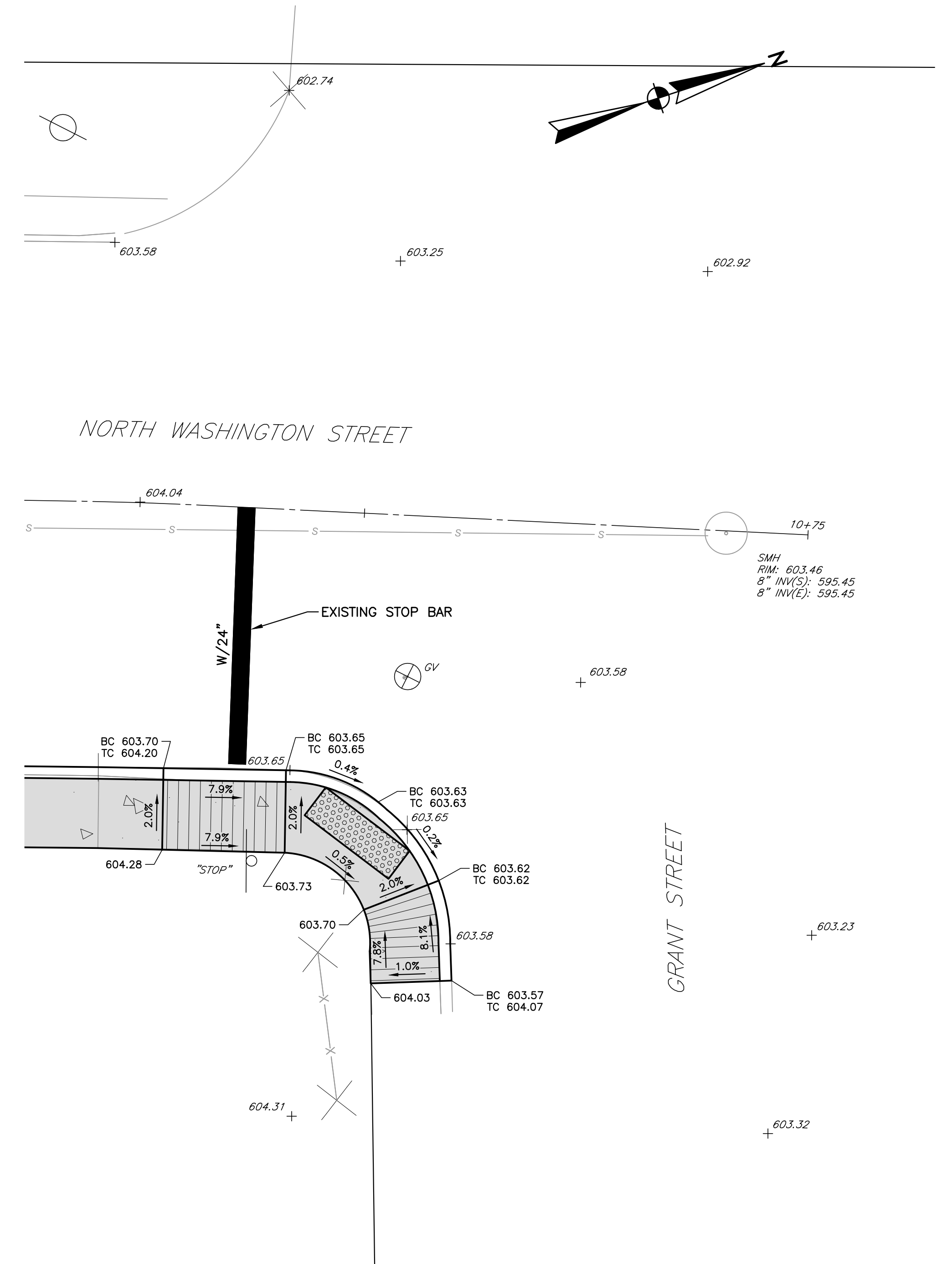
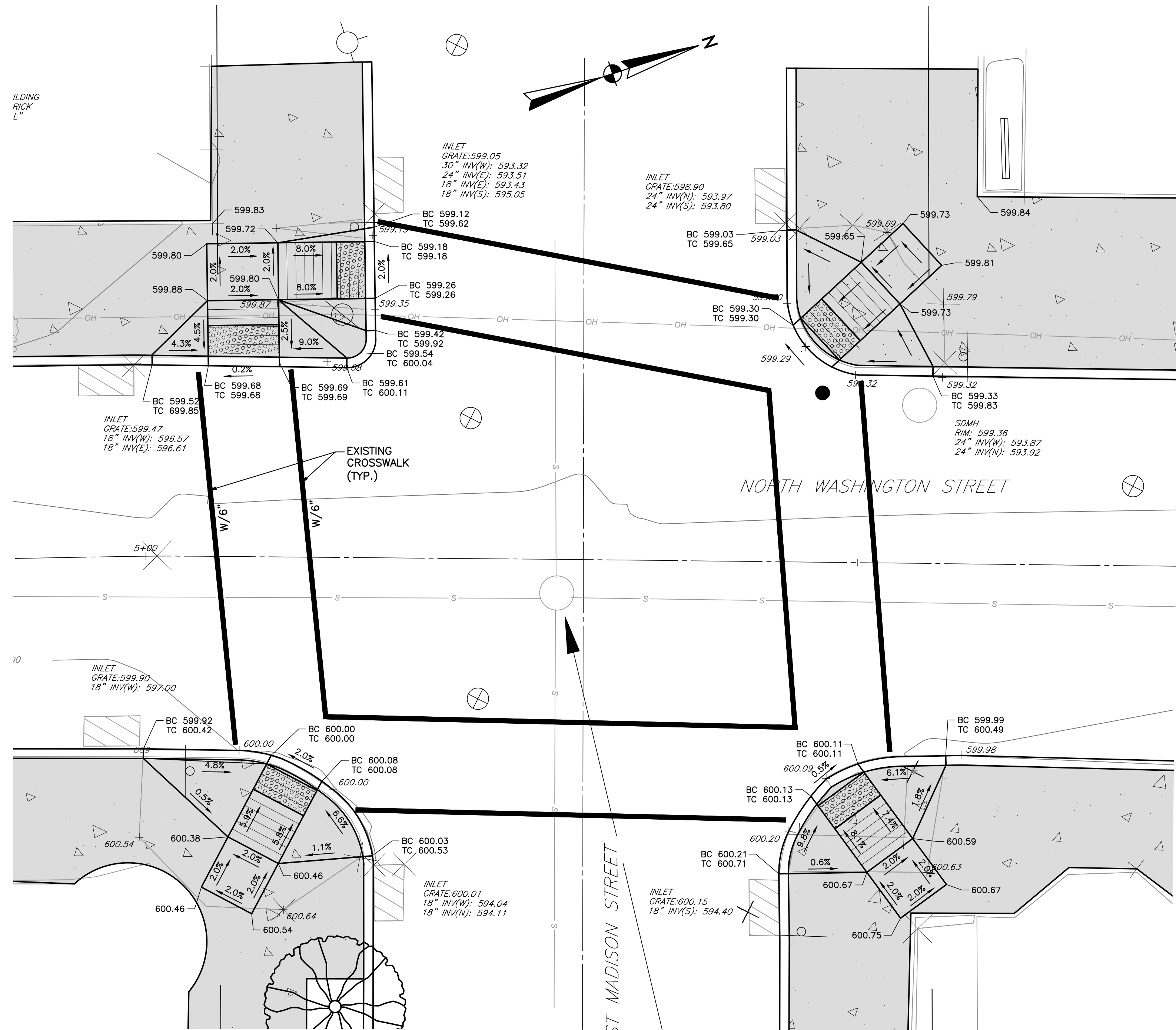
BOROUGH OF GREENCASTLE
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GREENCASTLE, PA 17225

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TITLE		CURB RAMPS	
SCALE	AS SHOWN	DWG. NO.	C-6
PROJECT NO.	11172.03	SHEET NO.	6 OF 15
REV.			



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DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
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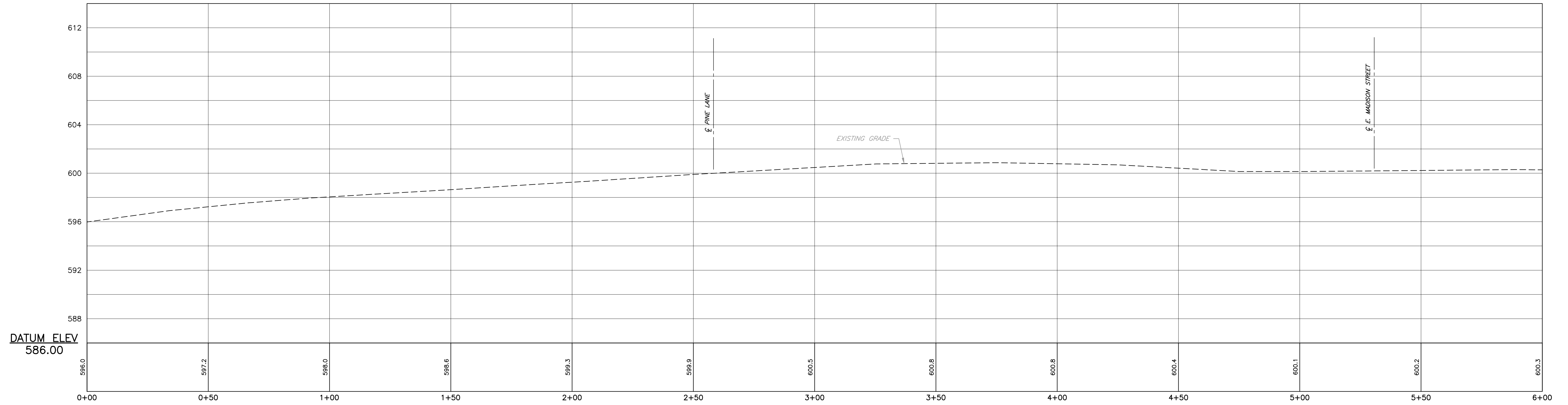


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 GREENCASTLE, PA 17225
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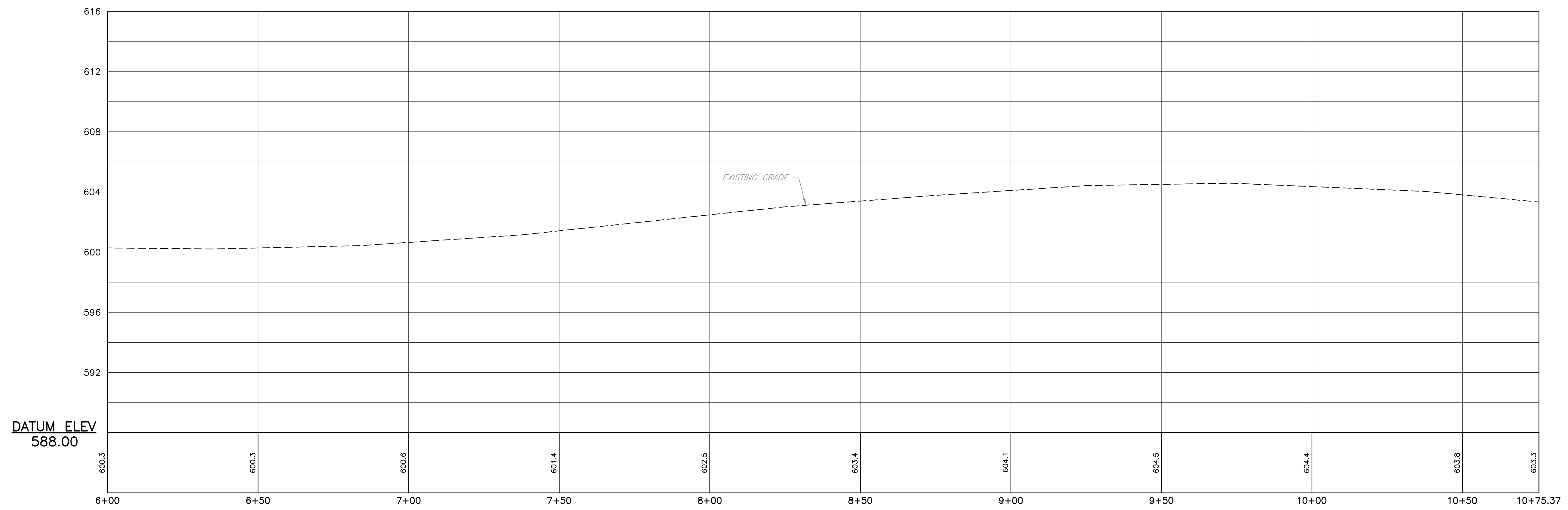


TITLE		CURB RAMPS	
SCALE	AS SHOWN	DWG. NO.	C-7
PROJECT NO.	11172.03	SHEET NO.	7 OF 15
REV.			





PROFILE VIEW

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

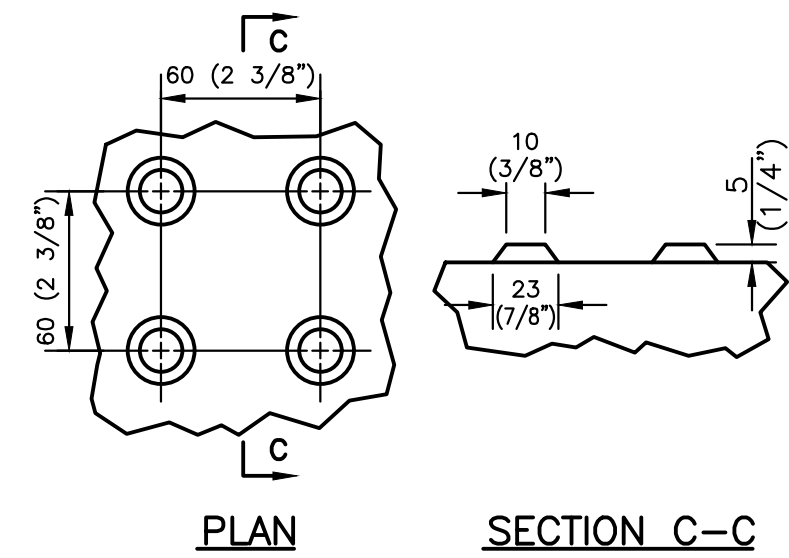


PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

										EDWARD VAN ARSDALE III, PE RELEASED BY _____ DESIGN _____ CHECKED _____ DRAWN _____ CHECKED _____ DATE OCTOBER 2023 SURVEY DATE MAY 2023 FIELD BOOK _____ CSLI _____		SEAL  SEAL		CLIENT & PROJECT BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225 NORTH WASHINGTON STREET STREETScape GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA		 201 Thomas Johnson Dr. Ste. 207 Frederick, Maryland 21702 Tel 301.791.1100		TITLE ROADWAY PROFILES SCALE AS SHOWN PROJECT NO. 11172.03 SHEET NO. 8 OF 15 REV. _____ DWG. NO. C-8	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.										

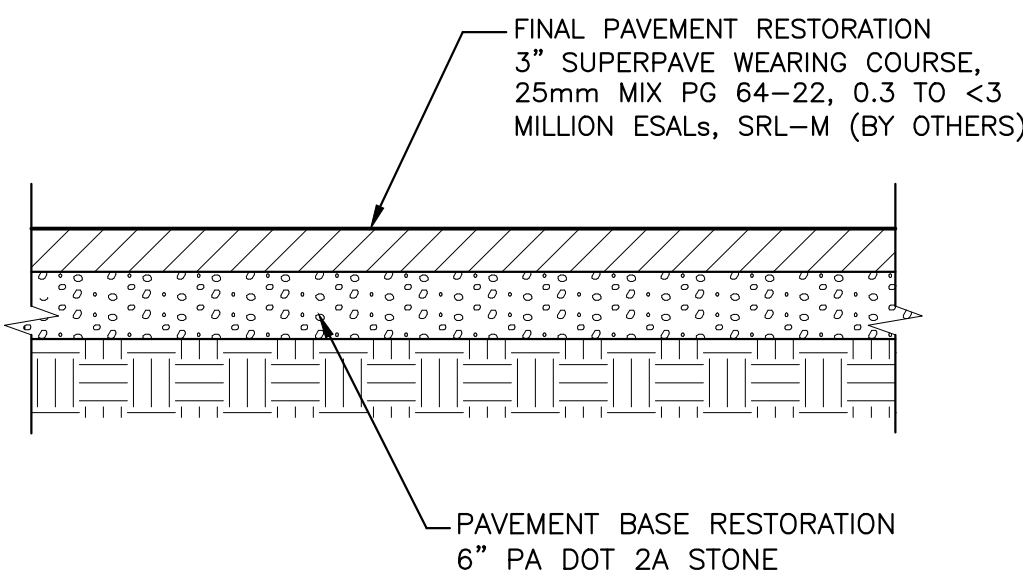
- NOTE:
1. TRUNCATED DOMES TO BE USED AT PEDESTRIAN HANDICAPPED RAMPS.
 2. DETECTABLE WARNING SHALL BE THE FULL WIDTH OF THE RAMP (NOT INCLUDING THE FLARED SIDE RAMP) AND EXTEND 2' FROM THE BACK OF CURB.



DETECTABLE WARNING TRUNCATED DOME DETAIL

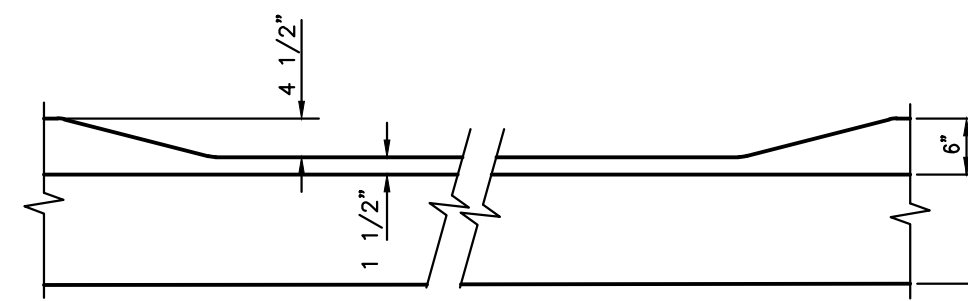
NO SCALE

NOTE: SEE GENERAL NOTE #14 ON PLAN SHEET C-1.



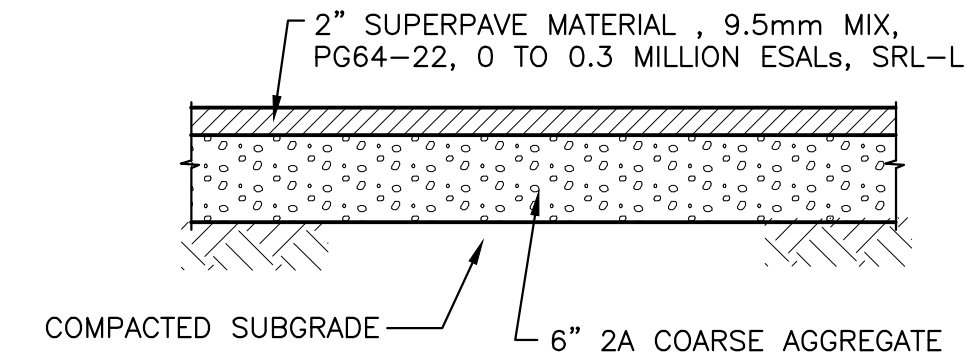
FULL DEPTH PAVEMENT RESTORATION

NO SCALE



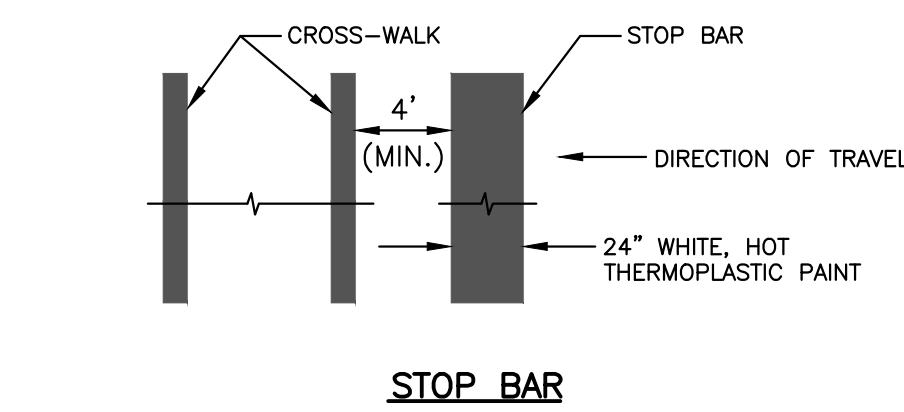
STRAIGHT CONCRETE CURB DEPRESSION AT DRIVEWAY

NO SCALE

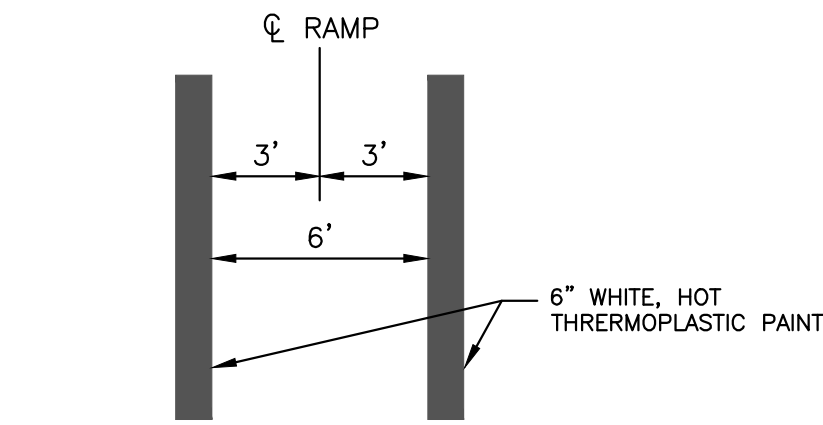


BITUMINOUS DRIVEWAY RESTORATION

NO SCALE



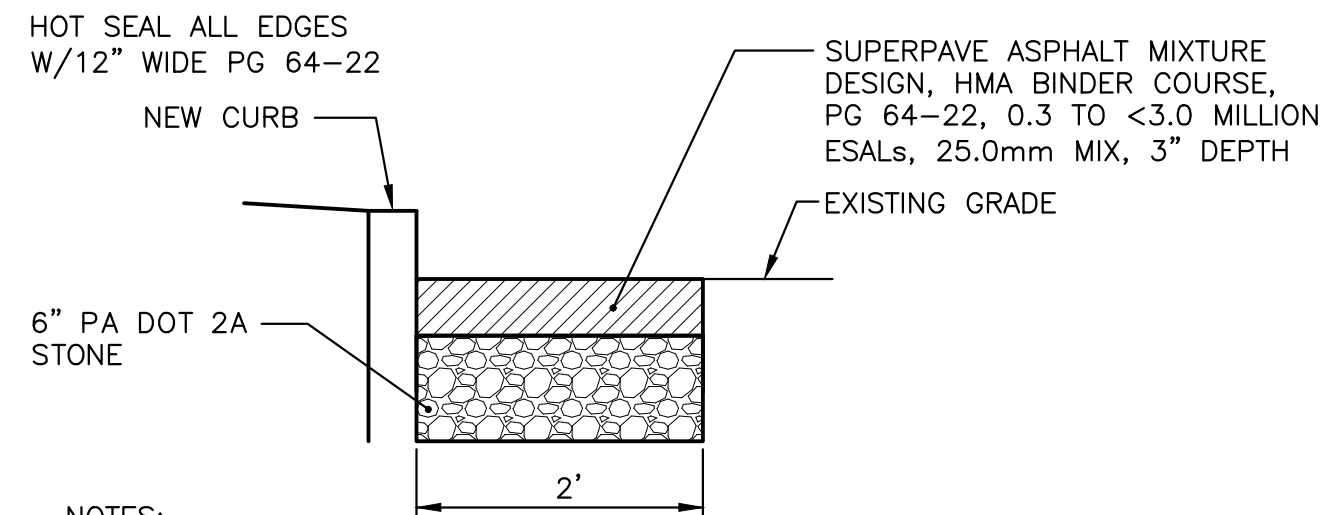
STOP BAR



CROSS-WALK

CROSS-WALK AND STOP BAR STRIPING DETAIL

NO SCALE

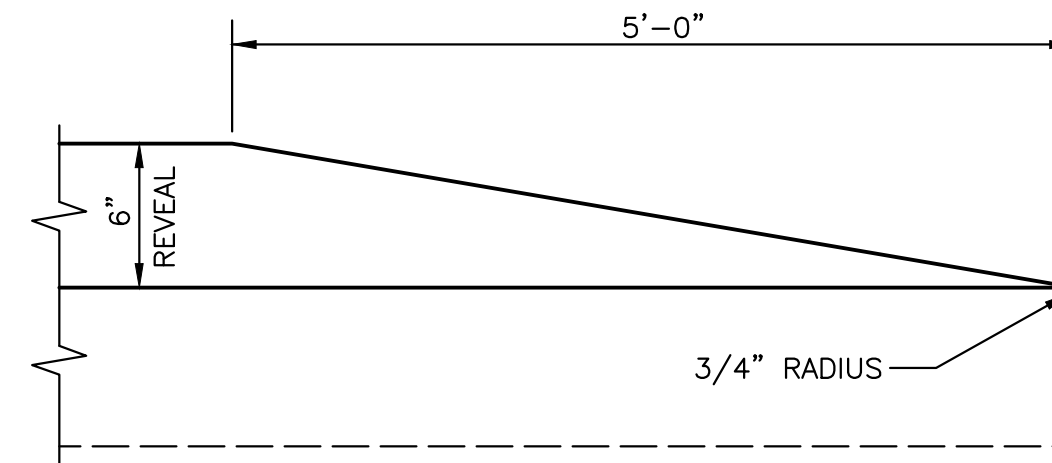


NOTES:

1. THIS DETAIL TO BE USED ONLY IN AREAS WHERE THE CURB IS TO BE REPLACED WITHOUT PAVEMENT RESTORATION OF THE FULL ROADWAY WIDTH. PLEASE REFER TO THE FULL DEPTH PAVEMENT RESTORATION DETAIL FOR AREAS WHERE THE ENTIRE WIDTH OF THE ROADWAY IS PROPOSED TO BE RESTORED.
2. EXPOSED VERTICAL AND HORIZONTAL SURFACES SHALL BE PREPARED AS PER PUB 408, SECT. 409.3(g).
3. MINIMUM 1' PAVEMENT CUTBACK, EXCAVATE OLD AND TEMPORARY MATERIAL. RECOMPACT SUB-GRADE, TACK COAT ALL VERTICAL EDGES.
4. PERMANENT RESTORATION TO BE MINIMUM 90 DAYS UNLESS FLOWABLE FILL IS USED.

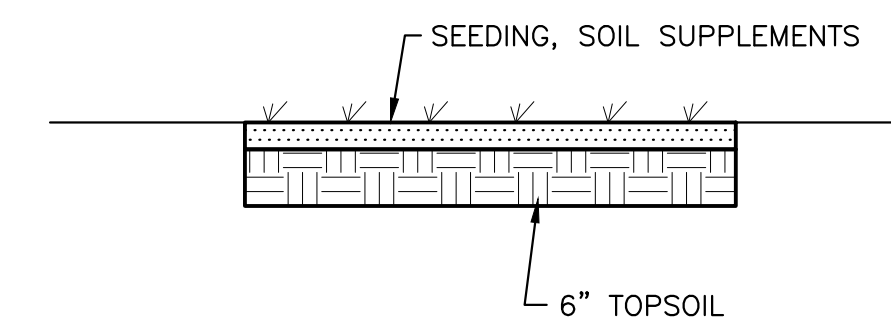
PAVEMENT RESTORATION AT CURB REPLACEMENT

NO SCALE



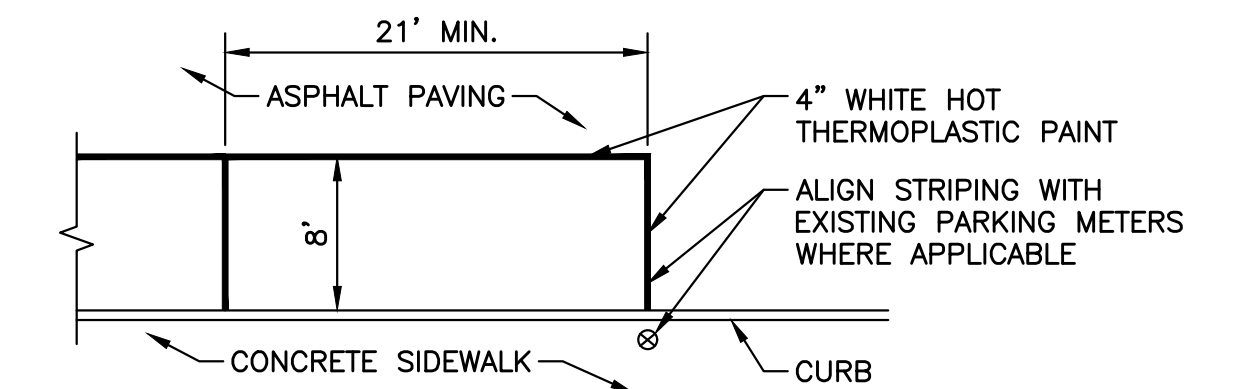
TYPICAL CURB END

NO SCALE



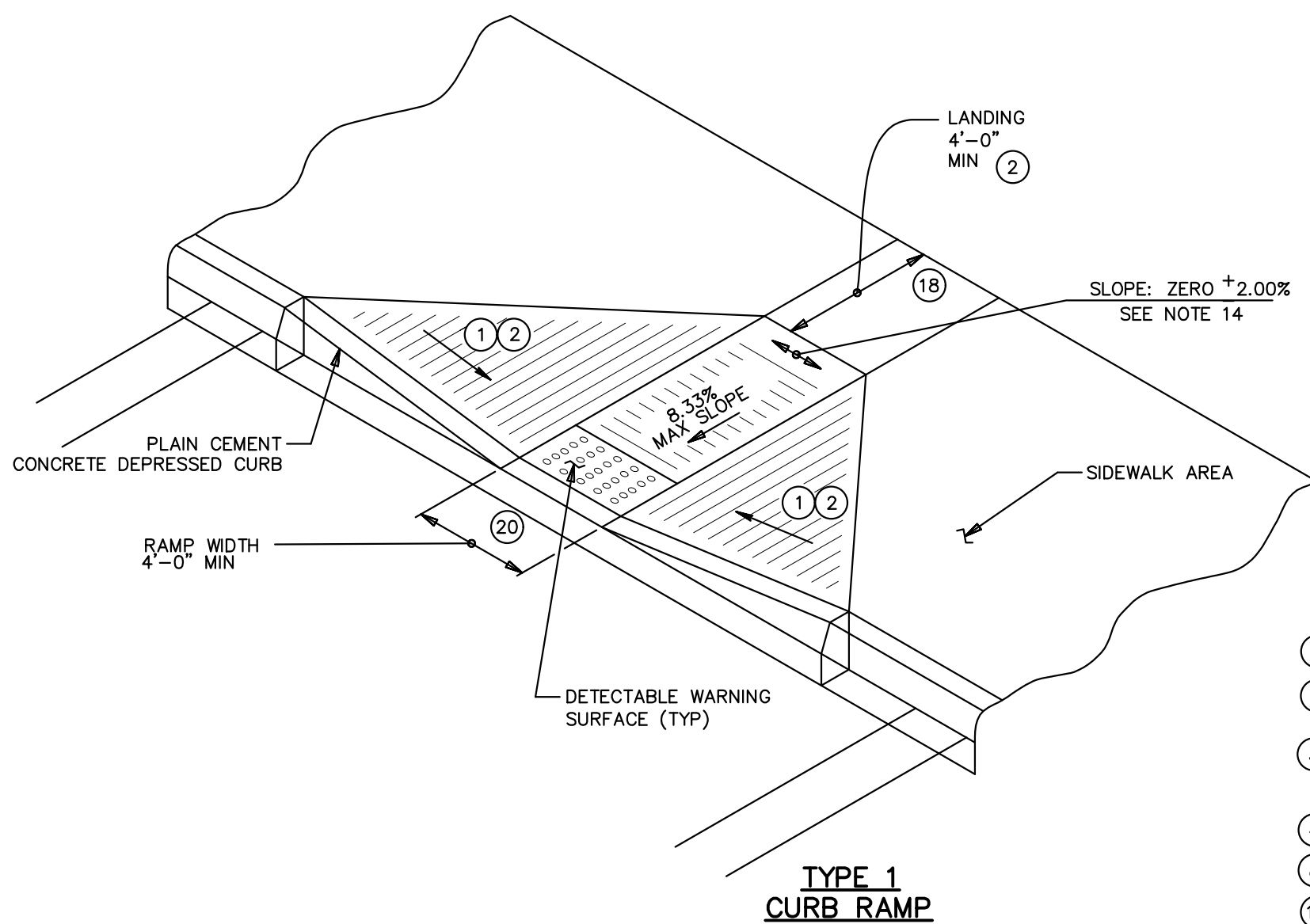
LAWN RESTORATION

NO SCALE



PARALLEL PARKING STRIPING DETAIL

NO SCALE



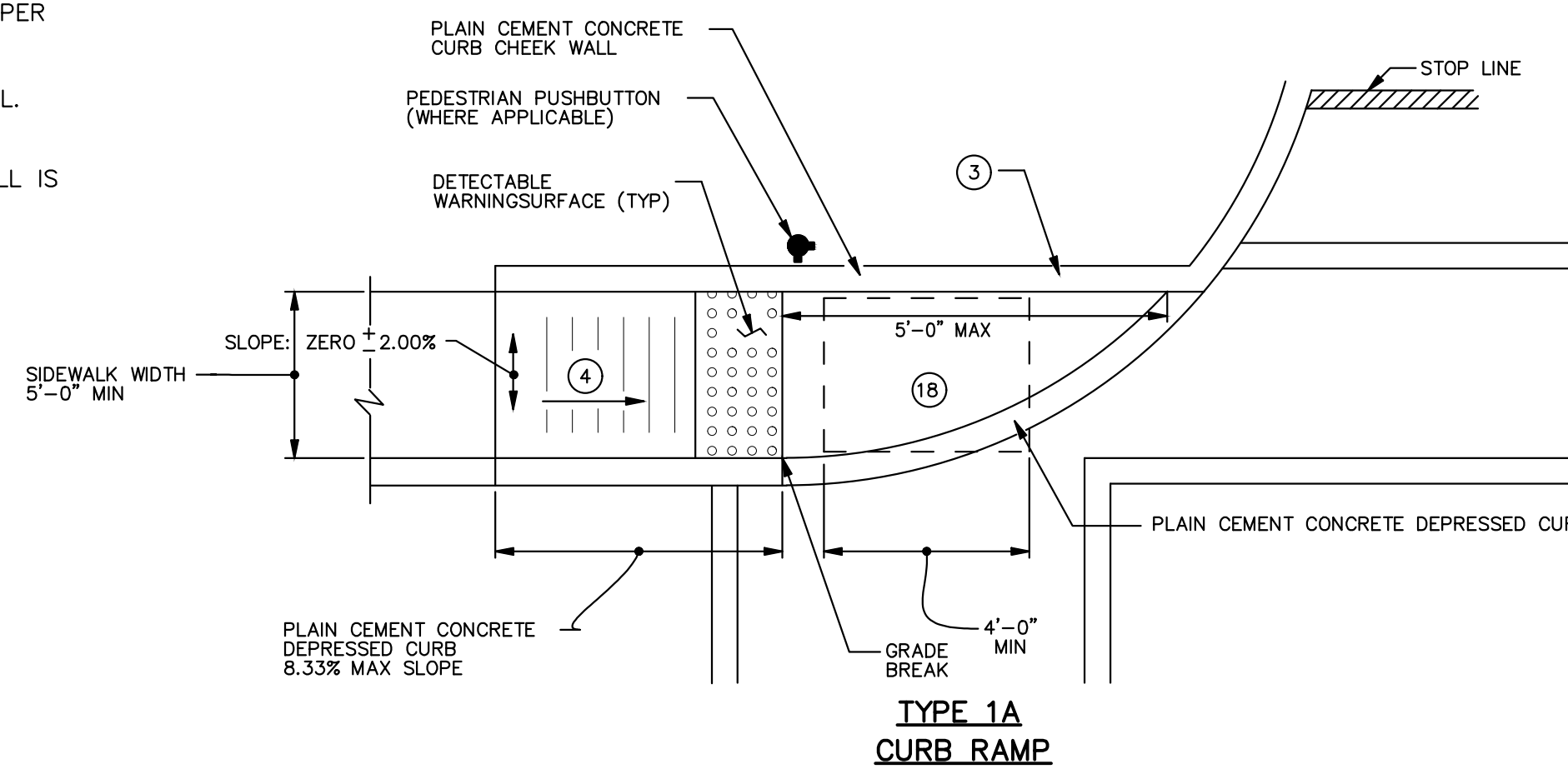
TYPE 1 CURB RAMP

- 1 SIDE FLARES 10.00% MAX SLOPE
- 2 IF THE LANDING IS INDICATED TO BE LESS THAN 4'-0", CONSTRUCT SIDE FLARES 8.33% MAX SLOPE.
- 3 OPTIONAL CONCRETE ROLLED FLARE OR REGRADE SLOPE CAN BE USED TO MEET THE ADJACENT SURFACES IN LIEU OF PLAIN CEMENT CONCRETE CURB CHEEK WALL. SEE SHEET 4.
- 4 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1
- 8 SLOPE: ZERO ± 2.00%
- 18 CURB RAMPS REQUIRE A 4'-0" MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
- 20 CONSTRUCT DEPRESSED CURB SLOPE TO MATCH ROADWAY PROFILE AND HAVE A FLUSH CONNECTION. DO NOT EXCEED 3.00% PER 1'-0" CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING FROM LEVEL LANDING TO ROADWAY PROFILE. A TECHNICALLY INFEASIBLE FORM IS REQUIRED WHEN RAMP CROSS SLOPE EXCEEDS 2.00%.

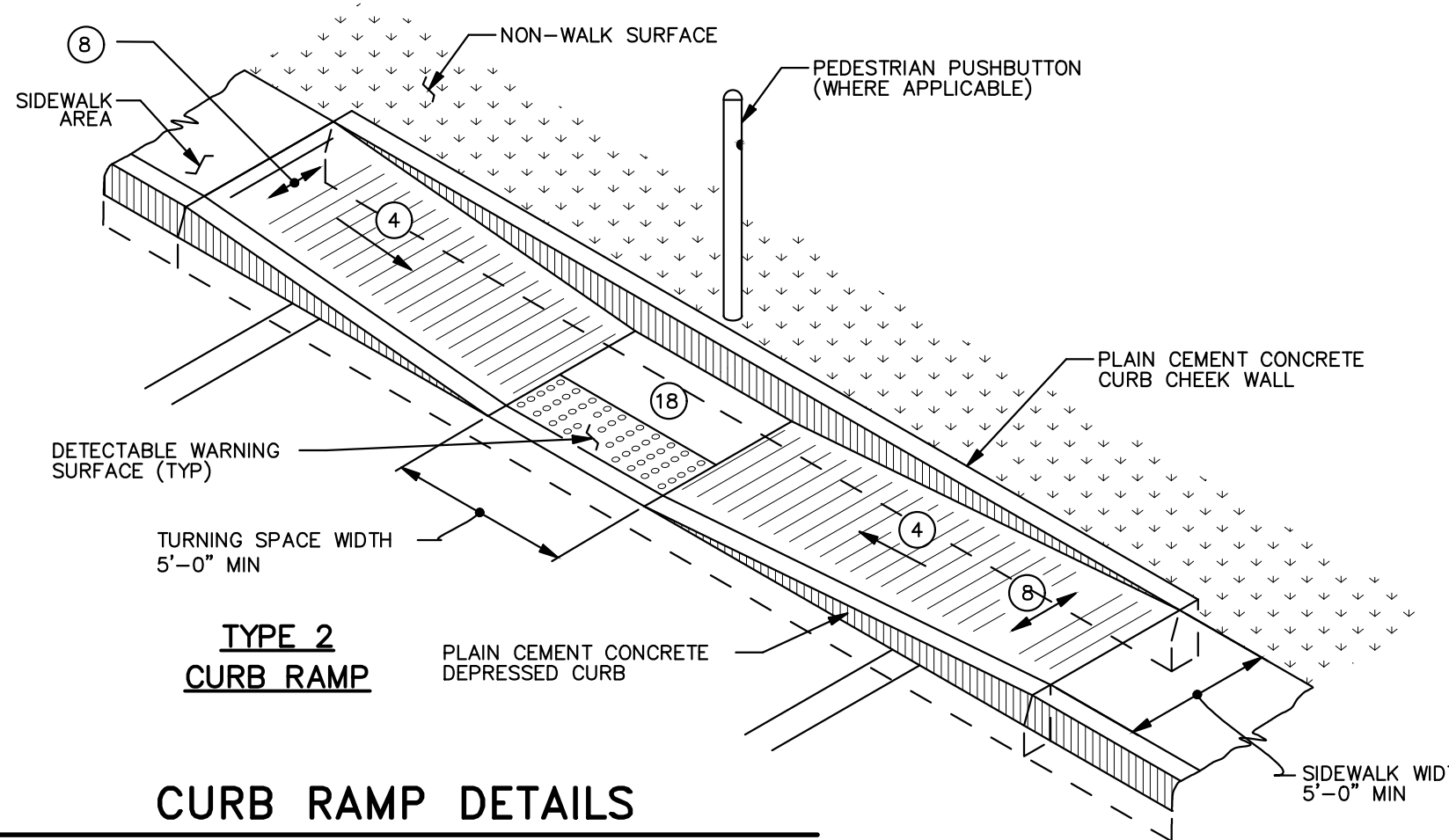
TYPE 2 CURB RAMP

CURB RAMP DETAILS

NO SCALE



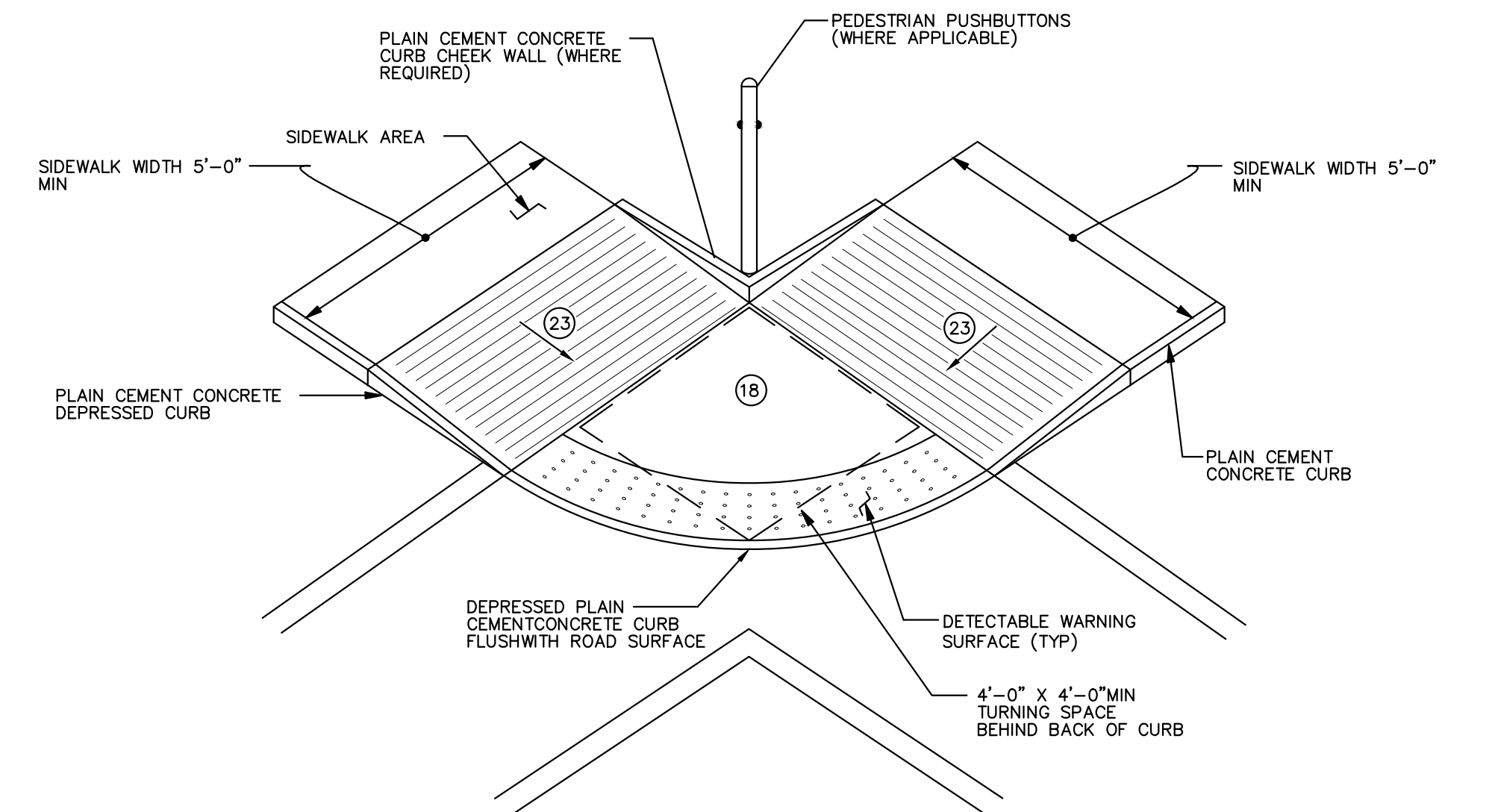
TYPE 1A CURB RAMP



TYPE 2 CURB RAMP

CURB RAMP DETAILS

NO SCALE



BLENDED TRANSITION

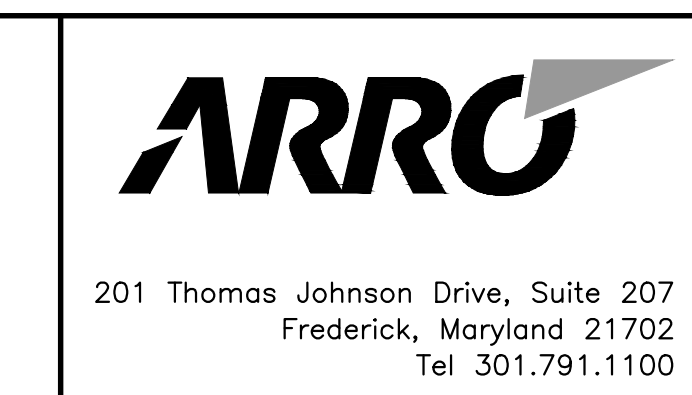
NOTE: DO NOT INSTALL GRATINGS, ACCESS COVERS AND OTHER APPURTENANCES ON THE BLENDED TRANSITION SURFACE WITHIN THE PEDESTRIAN ACCESS ROUTE. EXISTING UTILITY COVERS IN THE PATH OF TRAVEL ARE ACCEPTABLE IF THE TOP SURFACE IS FLUSH (LESS THAN 1/4" IN ELEVATION DIFFERENCE) FIRM, STABLE AND SLIP RESISTANT. INLET GRATINGS MUST HAVE OPENINGS NO GREATER THAN 1/2" IN DIRECTION OF TRAVEL.

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

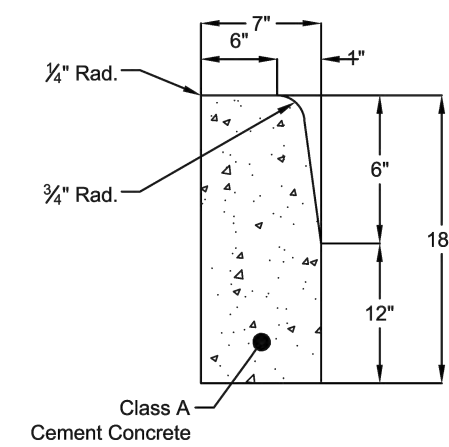
EDWARD VAN ARSDALE III, PE	SEAL
RELEASED BY	
DESIGN	CHECKED
KLL	
DRAWN	CHECKED
KLL	
DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
	CLSI



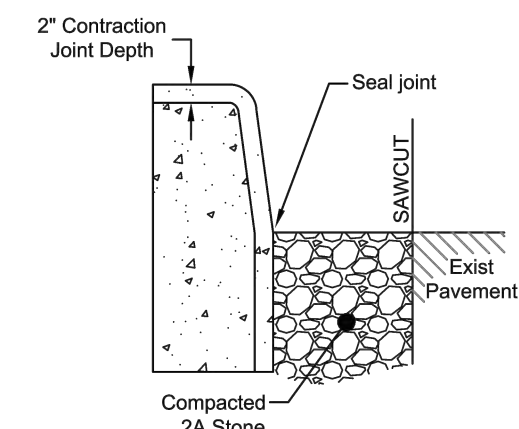
CURT & PROJECT	
BOROUGH OF GREENCASTLE	
60 NORTH WASHINGTON STREET	
GREENCASTLE, PA 17225	
NORTH WASHINGTON STREET	
STREETSCAPE	
GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA	



TITLE	CONSTRUCTION DETAILS		
SCALE	AS SHOWN	DWG. NO.	C-9
PROJECT NO.	11172.03	SHEET NO.	9 OF 15
REV.			



TYPICAL CROSS SECTION



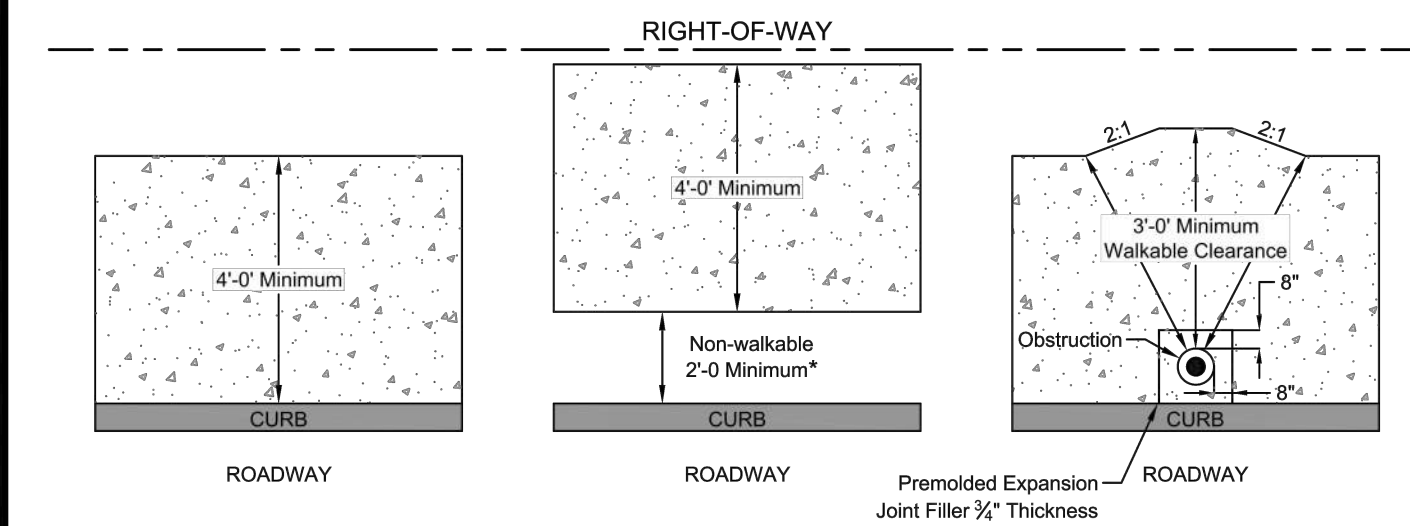
ROADWAY REPAIR & CONTRACTION JOINT SECTION

- RESTORATION: (If roadway is cut to set forms)
- MUST SAW CUT
 - COMPACT SUBBASE
 - PLACE & COMPACT 2A STONE FROM BOTTOM OF CURB TO TOP OF ROADWAY SURFACE
 - CONTRACTOR TO CONTACT BOROUGH WHEN READY FOR PAVEMENT REPAIR

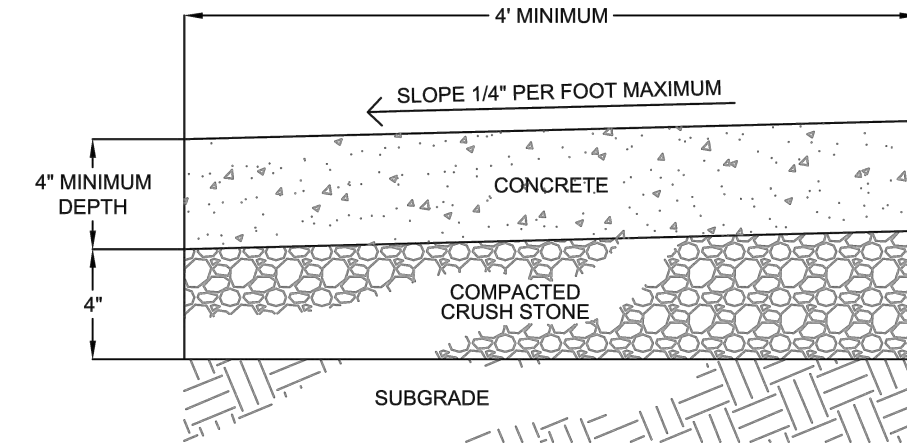
ASSURE THAT YOUR CONTRACTOR READS AND UNDERSTANDS THESE REQUIREMENTS **BEFORE STARTING WORK!**

Borough of Greencastle
Address: 60 North Washington Street
Phone: 717.597.7143
Fax: 717.597.1734
E-Mail: office@greencastlepa.gov

CURB & SIDEWALK SPECIFICATIONS
STANDARD DRAWING NO. 2017-01
STANDARD CONCRETE CURB



TOP VIEW

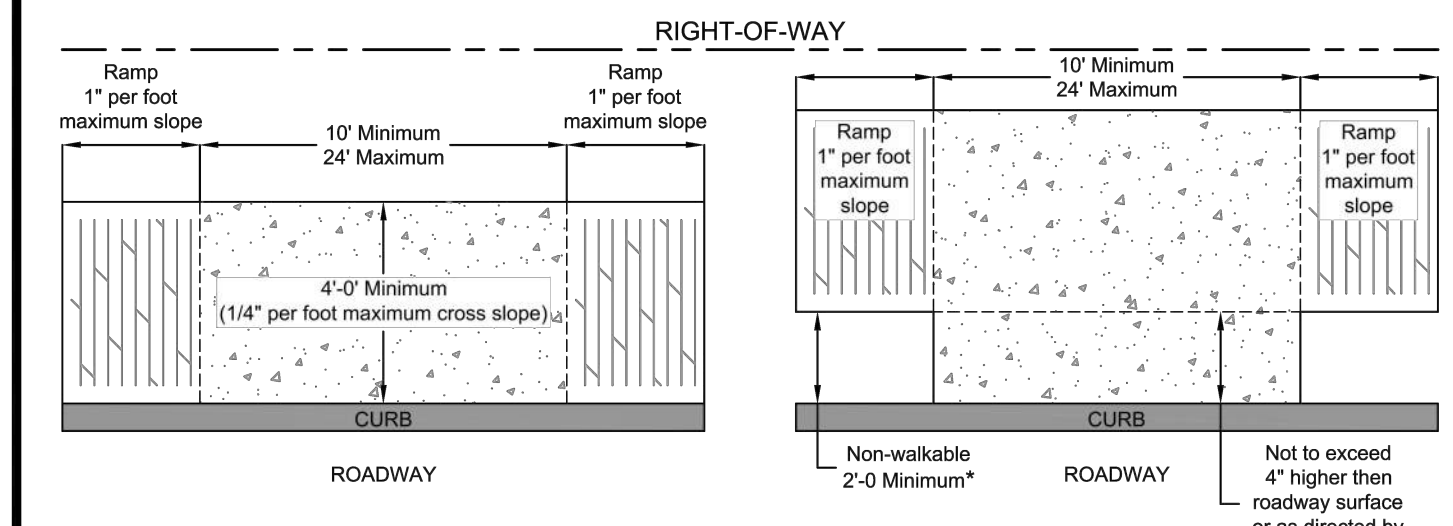


SECTION

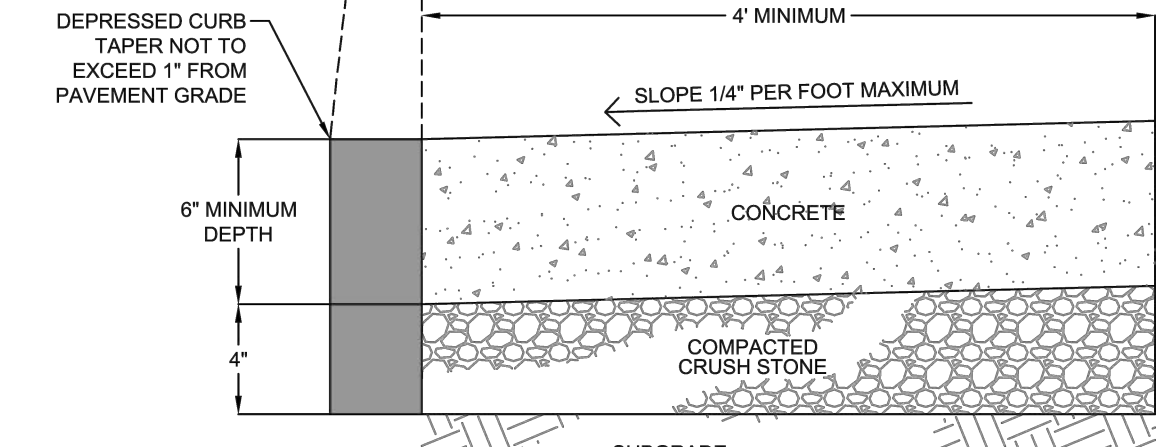
- NOTES:
- CURBS SHALL BE FORMED SEPARATE FROM SIDEWALK. MONOLITHIC CURB AND SIDEWALK CONSTRUCTION WILL ONLY BE ALLOWED WITH PRIOR BOROUGH APPROVAL.
 - SIDEWALK TO HAVE 3/8" CONTRACTION JOINTS SCORED AT 5'-0" INTERVALS.
 - CONSTRUCT 3/4" EXPANSION JOINTS SPACED EVERY 30' AND BETWEEN SIDEWALK WHERE ADJACENT.
 - SIDEWALK TO BE BRUSH FINISHED.
 - MINIMUM OF 36" CLEARANCE AROUND ANY OBSTRUCTIONS (UTILITY POLES, MAILBOXES, FIRE HYDRANT, ETC.).
- *REQUIRED FOR NEW RESIDENTIAL DEVELOPMENT AND INSTALLATION/RECONSTRUCTION WITHIN ZONING R1 (RESIDENTIAL) OR AS DIRECTED BY BOROUGH OF GREENCASTLE.

Borough of Greencastle
Address: 60 North Washington Street
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Fax: 717.597.1734
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CURB & SIDEWALK SPECIFICATIONS
STANDARD DRAWING NO. 2017-02
STANDARD CONCRETE SIDEWALK



TOP VIEW

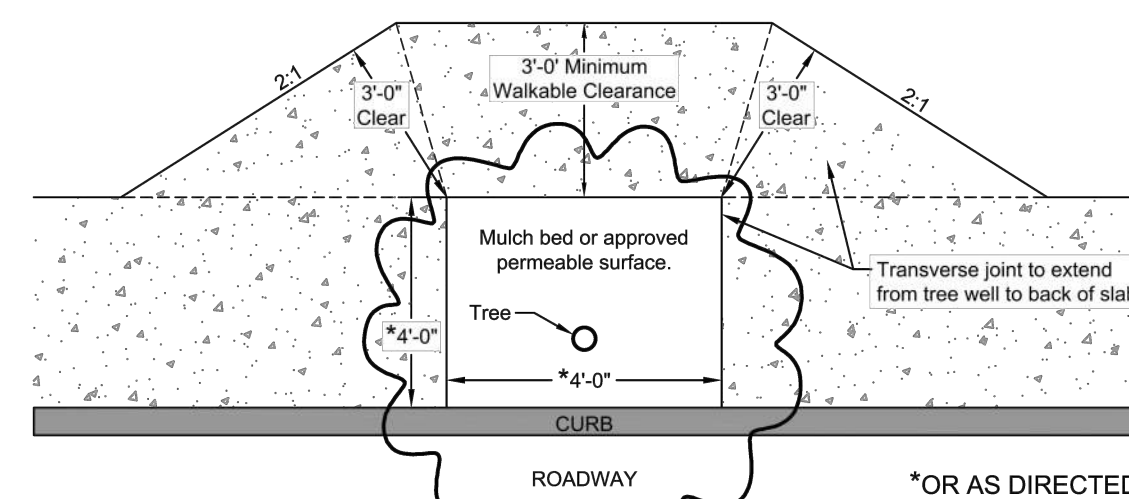


SECTION

- NOTES:
- CURBS SHALL BE FORMED SEPARATE FROM SIDEWALK. MONOLITHIC CURB AND SIDEWALK CONSTRUCTION WILL ONLY BE ALLOWED WITH PRIOR BOROUGH APPROVAL.
 - SIDEWALK TO HAVE 3/8" CONTRACTION JOINTS SCORED AT 5'-0" INTERVALS.
 - CONSTRUCT 3/4" EXPANSION JOINTS SPACED EVERY 30' AND BETWEEN SIDEWALK WHERE ADJACENT.
 - SIDEWALK TO BE BRUSH FINISHED.
 - MINIMUM OF 36" CLEARANCE AROUND ANY OBSTRUCTIONS (UTILITY POLES, MAILBOXES, FIRE HYDRANT, ETC.).
 - APRONS TO HAVE 3/8" CONTRACTION JOINTS SCORED AT 10' INTERVALS.
- *REQUIRED FOR NEW RESIDENTIAL DEVELOPMENT AND INSTALLATION/RECONSTRUCTION WITHIN ZONING R1 (RESIDENTIAL) OR AS DIRECTED BY BOROUGH OF GREENCASTLE.

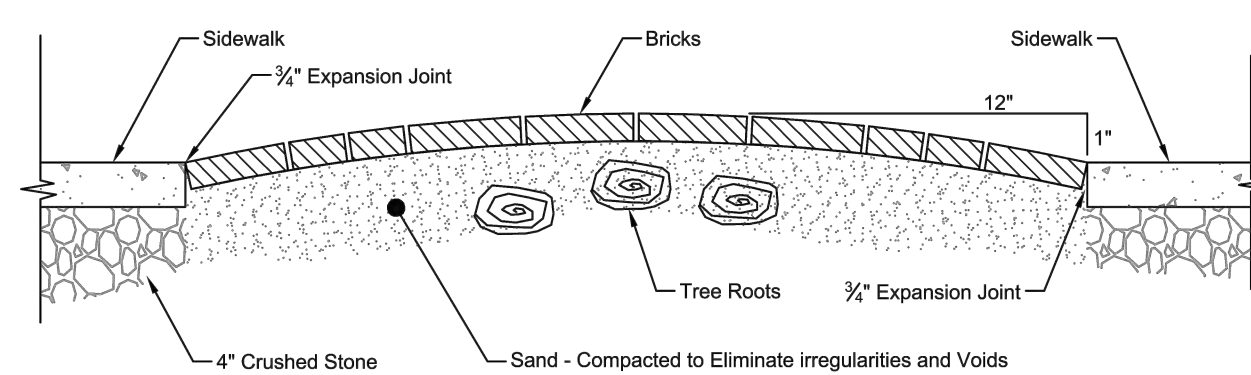
Borough of Greencastle
Address: 60 North Washington Street
Phone: 717.597.7143
Fax: 717.597.1734
E-Mail: office@greencastlepa.gov

CURB & SIDEWALK SPECIFICATIONS
STANDARD DRAWING NO. 2017-04
STANDARD DRIVEWAY APRON



TREE WELL PLACEMENT TOP VIEW

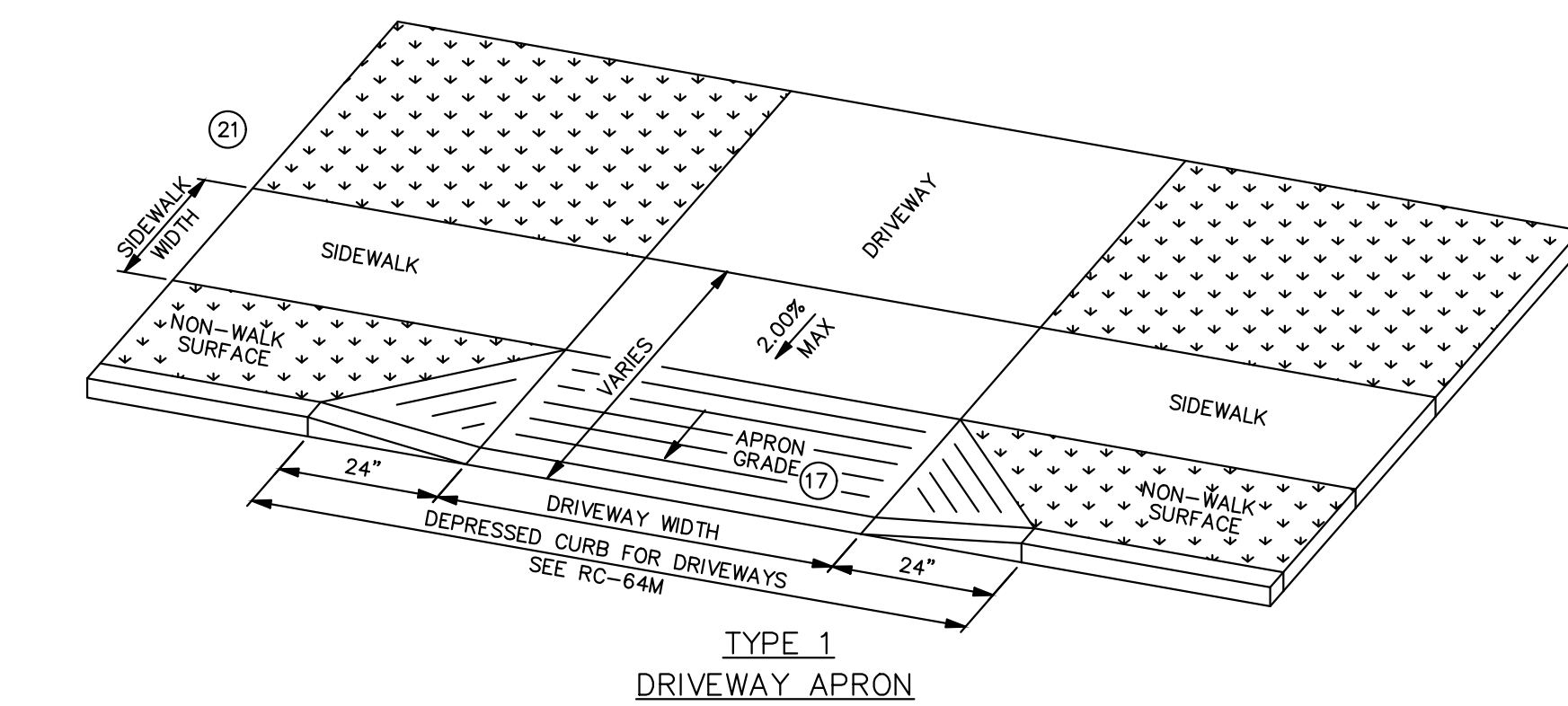
*OR AS DIRECTED BY BOROUGH OF GREENCASTLE SHADE TREE COMMISSION.



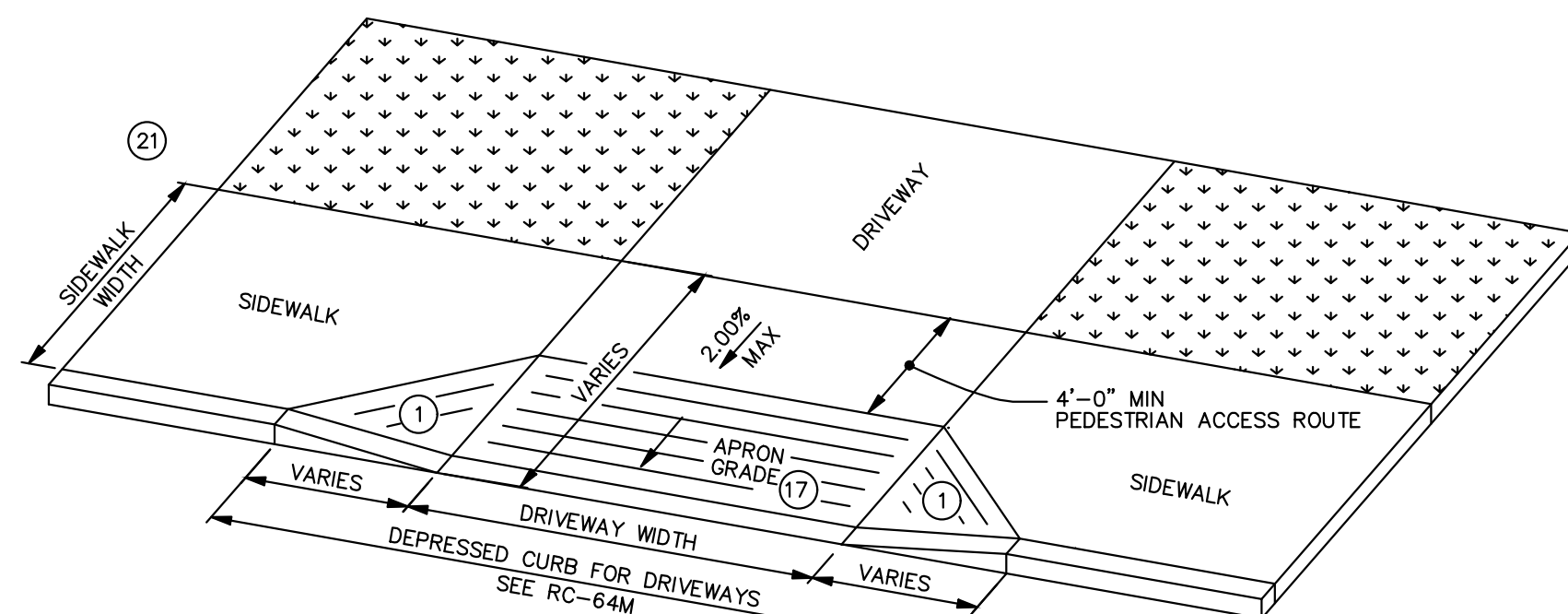
ROOT OBSTRUCTION SECTION

Borough of Greencastle
Address: 60 North Washington Street
Phone: 717.597.7143
Fax: 717.597.1734
E-Mail: office@greencastlepa.gov

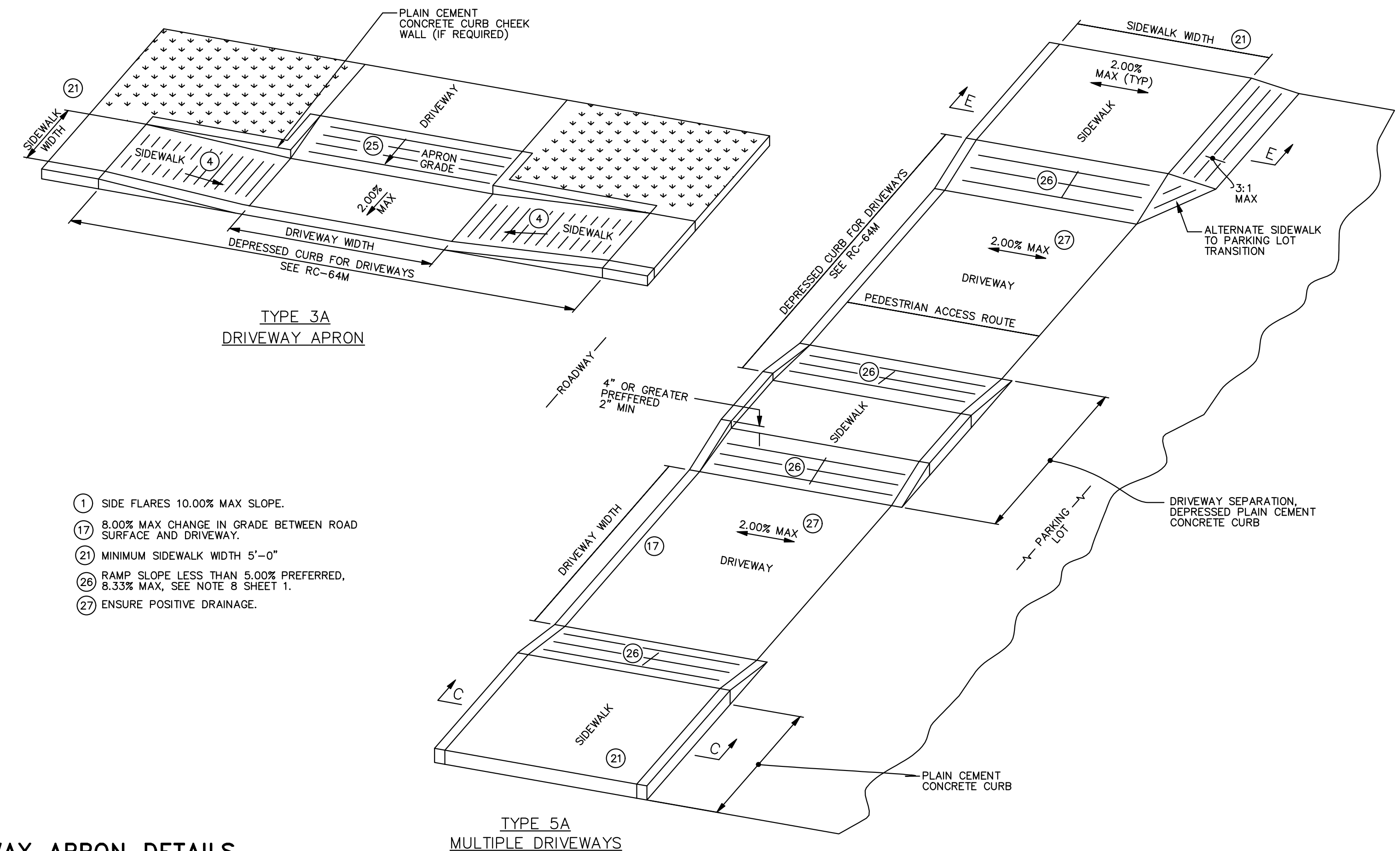
CURB & SIDEWALK SPECIFICATIONS
STANDARD DRAWING NO. 2017-05
TREE WELL



TYPE 1 DRIVEWAY APRON



TYPE 1A DRIVEWAY APRON



DRIVEWAY APRON DETAILS

NO SCALE

- SIDE FLARES 10.00% MAX SLOPE.
- 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- MINIMUM SIDEWALK WIDTH 5'-0"
- RAMP SLOPE LESS THAN 5.00% PREFERRED, 8.33% MAX, SEE NOTE 8 SHEET 1.
- ENSURE POSITIVE DRAINAGE.

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

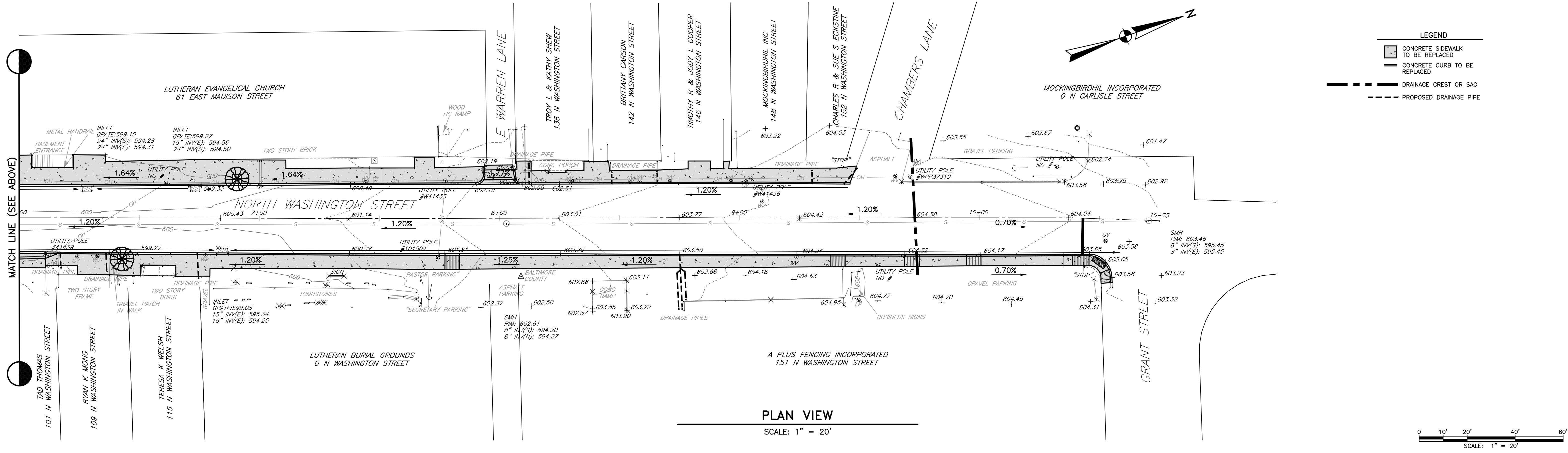
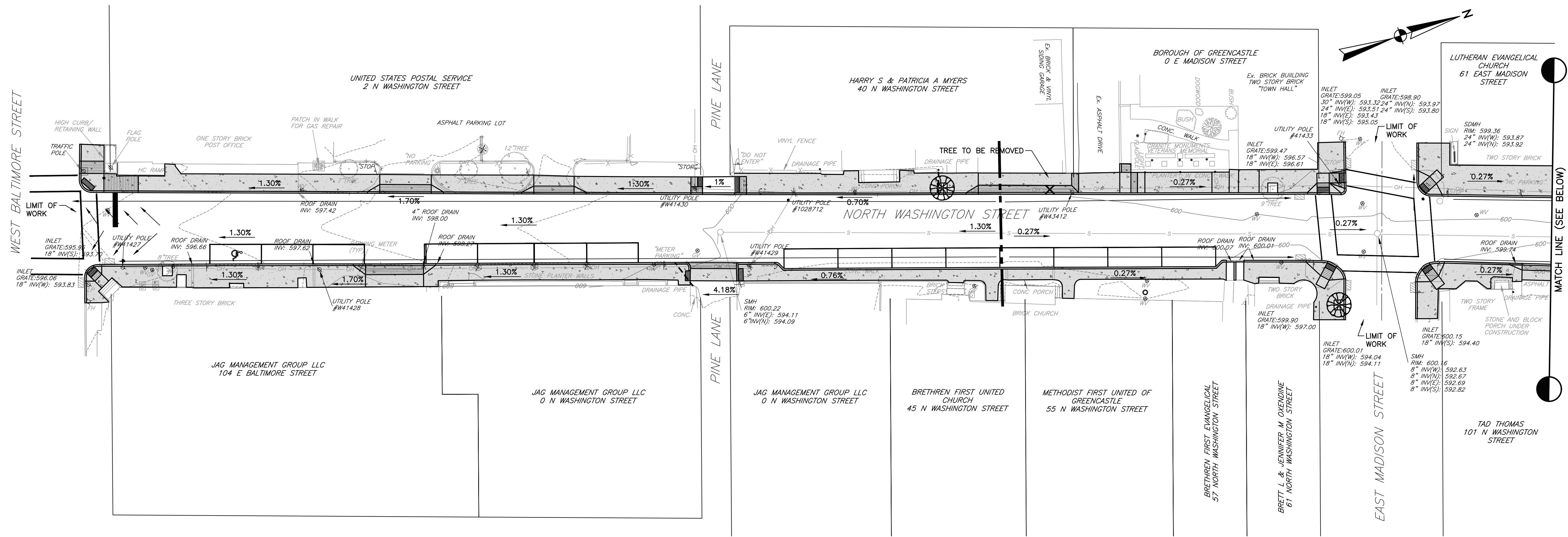
EDWARD VAN ARSDALE III, PE	DESIGN	CHECKED
	DRAWN	CHECKED
	DATE	SURVEY DATE
	OCTOBER 2023	MAY 2023
		FIELD BOOK
		CLSI



CLIENT & PROJECT
BOROUGH OF GREENCASTLE
60 NORTH WASHINGTON STREET
GREENCASTLE, PA 17225
NORTH WASHINGTON STREET
STREETSCAPE
GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA

ARRG
201 Thomas Johnson Drive, Suite 207
Frederick, Maryland 21702
Tel 301.791.1100

TITLE CONSTRUCTION DETAILS		DWG. NO. C-10
SCALE AS SHOWN	SHEET NO. 10 OF 15	REV.
PROJECT NO. 11172.03		



PLAN VIEW

SCALE: 1" = 20'

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

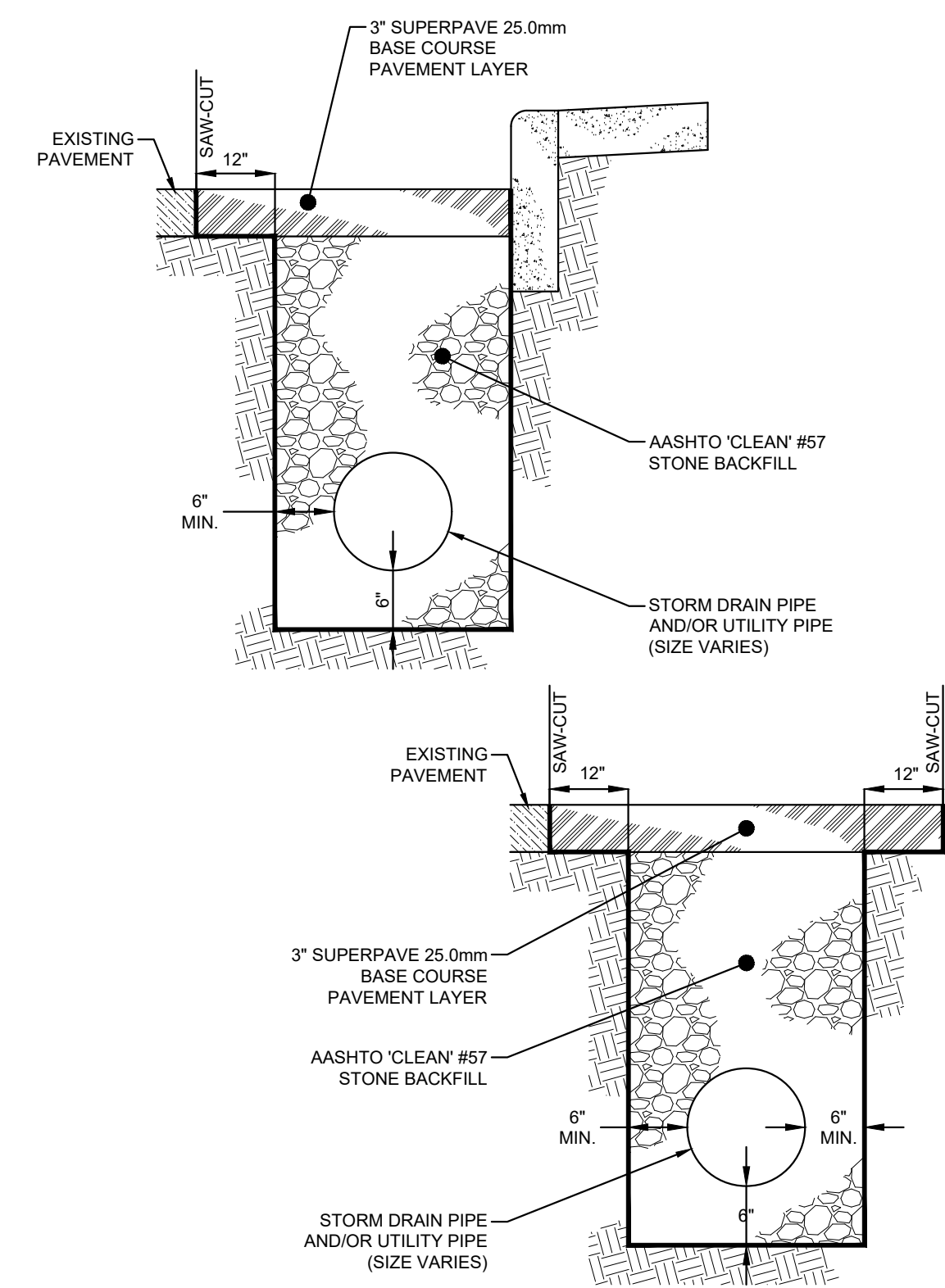
EDWARD VAN ARSDALE III, PE	
DESIGN	CHECKED
KLL	CHECKED
DRAWN	CHECKED
KLL	CHECKED
DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
	CSLI



CLIENT & PROJECT	BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225
	NORTH WASHINGTON STREET STREETSCAPE GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA

201 Thomas Johnson Dr. Ste. 207
Frederick, Maryland 21702
Tel 301.791.1100

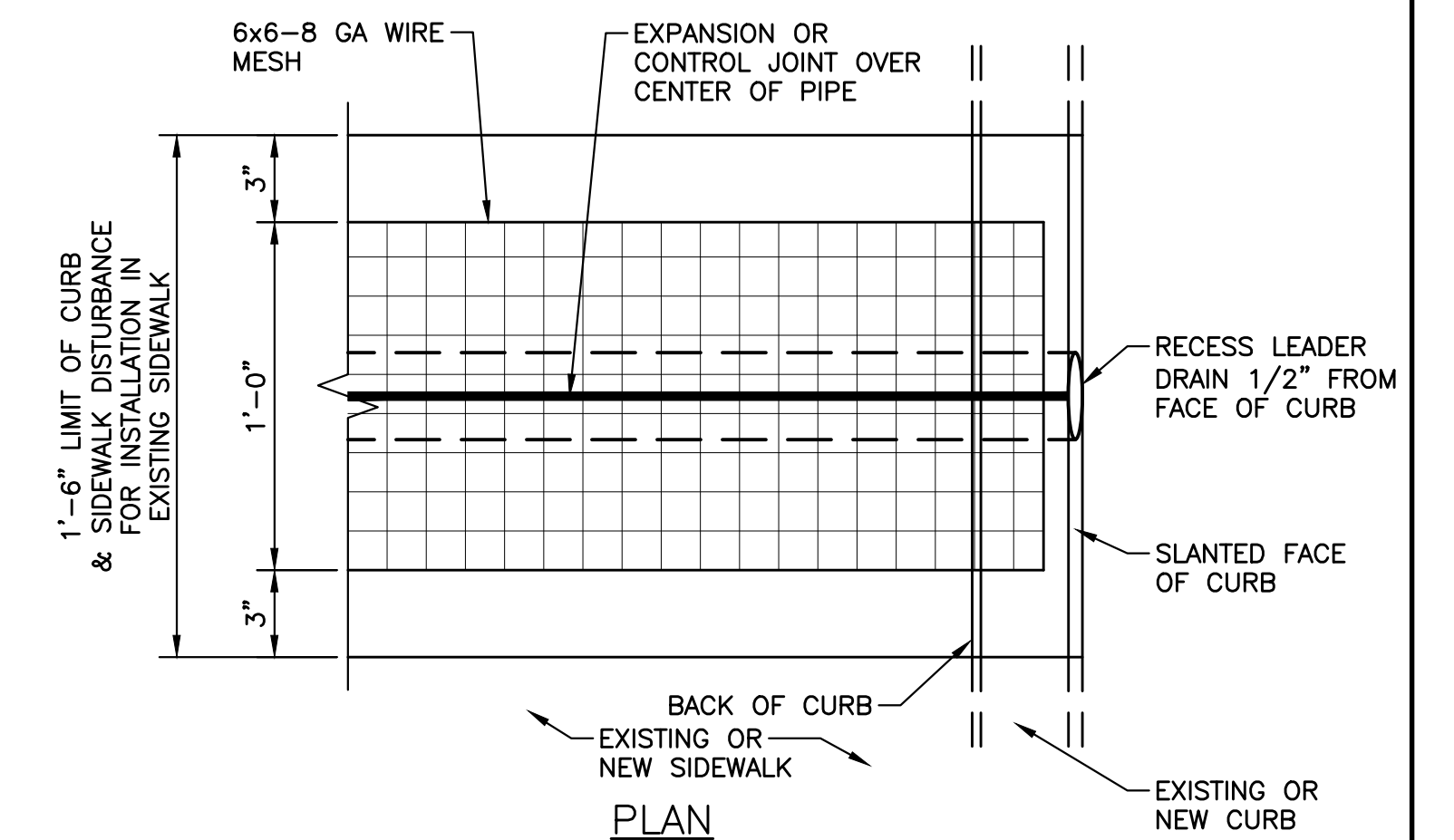
TITLE		STORMWATER DRAINAGE PLAN	
SCALE	AS SHOWN	DWG. NO.	C-11
PROJECT NO.	11172.03	SHEET NO.	11 OF 15
		REV.	



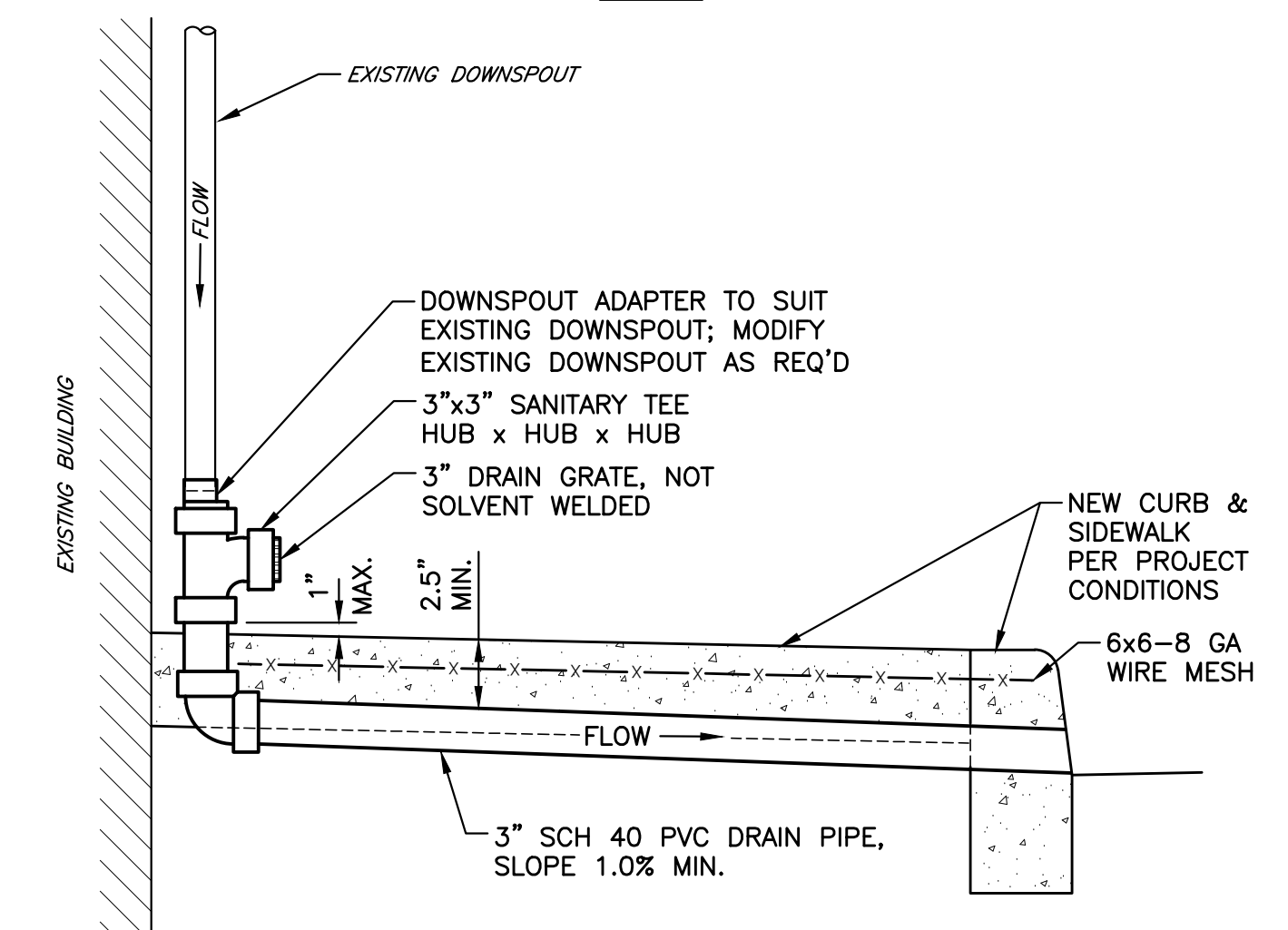
NOTE:
 1. For areas through grass contractor to topsoil seed & mulch.
 2. For areas in concrete, contractor to replace in concrete.

TRENCH REPAIR

NO SCALE



PLAN

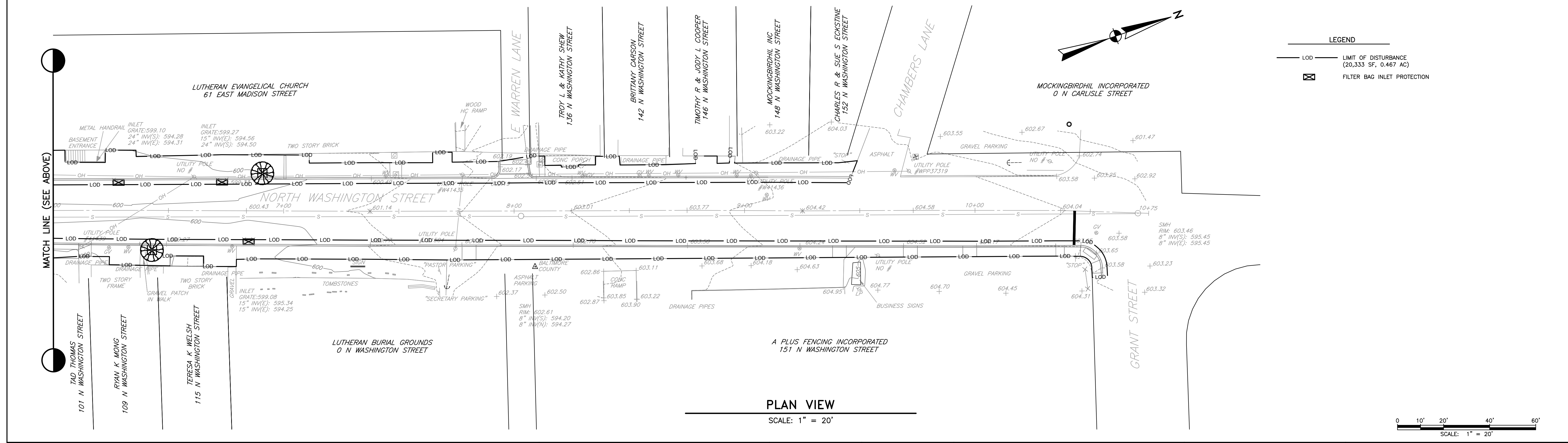
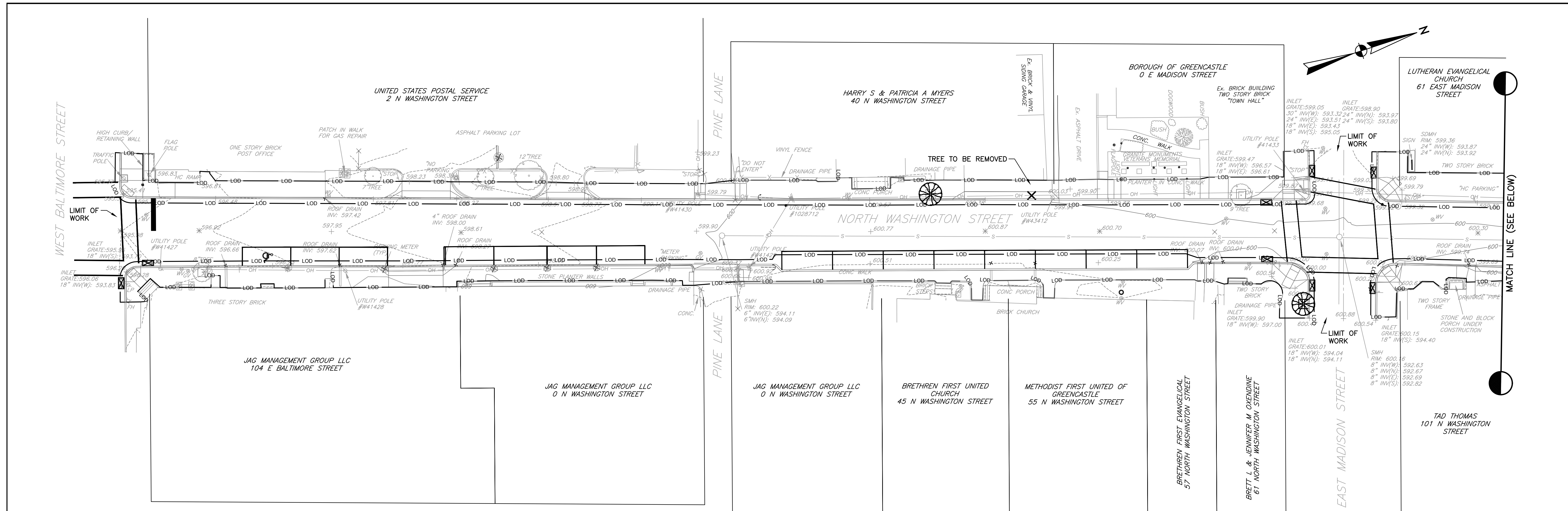


SECTION

DOWNSPOUT CONNECTION DETAIL

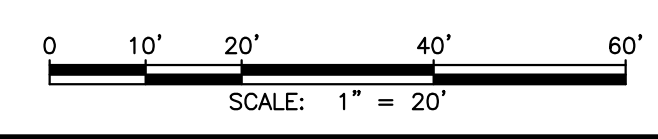
NO SCALE

										EDWARD VAN ARSDALE III, PE RELEASED BY DESIGN KLL CHECKED DRAWN KLL CHECKED DATE OCTOBER 2023 SURVEY DATE MAY 2023 FIELD BOOK CLSI		SEAL SEAL 10/31/2023		CLIENT & PROJECT BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225 NORTH WASHINGTON STREET STREETScape GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA		 201 Thomas Johnson Drive, Suite 207 Frederick, Maryland 21702 Tel 301.791.1100		TITLE STORMWATER DETAILS SCALE AS SHOWN PROJECT NO. 11172.03 SHEET NO. 12 OF 15 REV. DWG. NO. C-12	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.										



PLAN VIEW
SCALE: 1" = 20'

LEGEND
 - - - - - LOD LIMIT OF DISTURBANCE (20,333 SF, 0.467 AC)
 [Symbol] FILTER BAG INLET PROTECTION



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

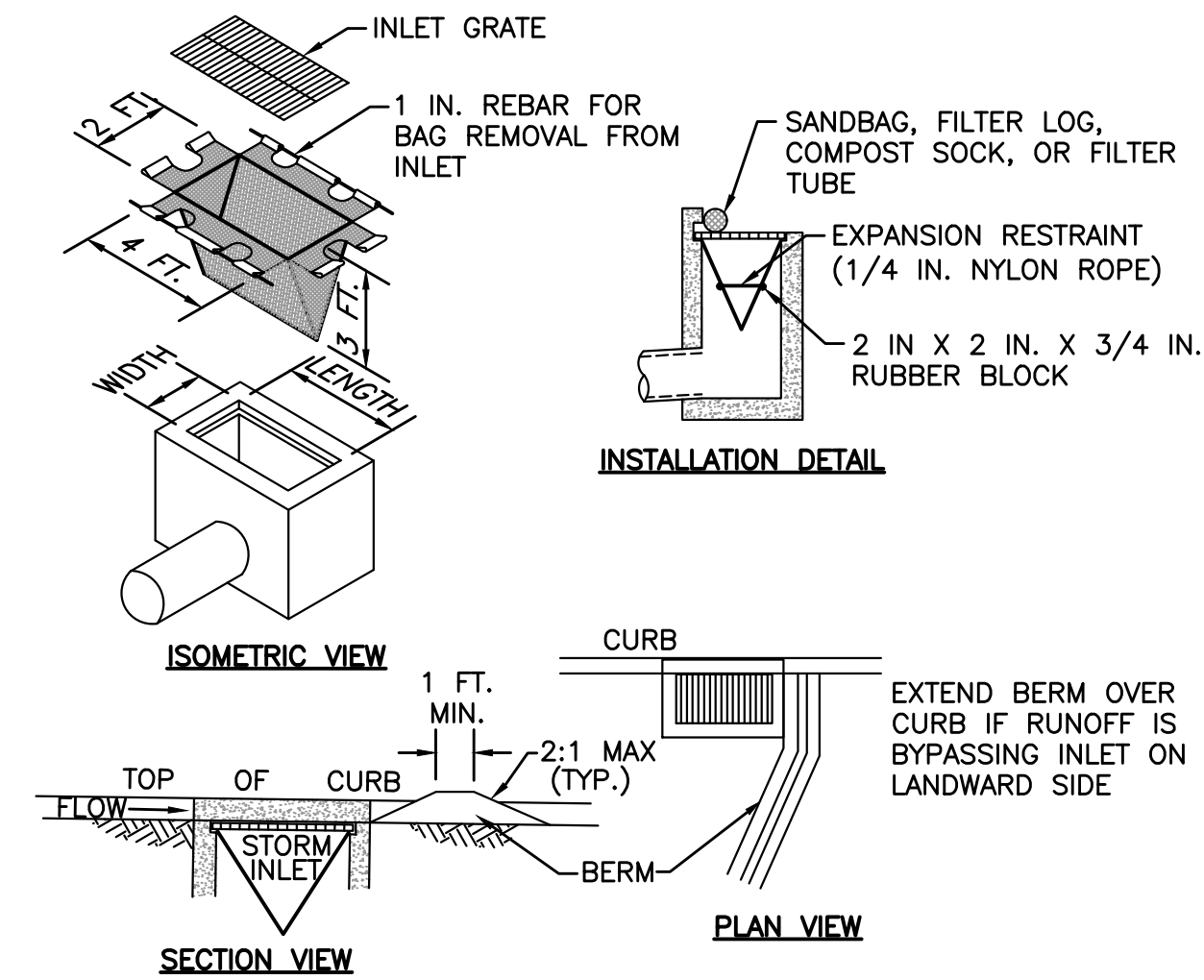
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DESIGN	CHECKED
KLL	CHECKED
DRAWN	CHECKED
KLL	CHECKED
DATE	SURVEY DATE
OCTOBER 2023	MAY 2023
	FIELD BOOK
	CSLI



CLIENT & PROJECT
 BOROUGH OF GREENCASTLE
 60 NORTH WASHINGTON STREET
 GREENCASTLE, PA 17225
 NORTH WASHINGTON STREET
 STREETScape
 GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA

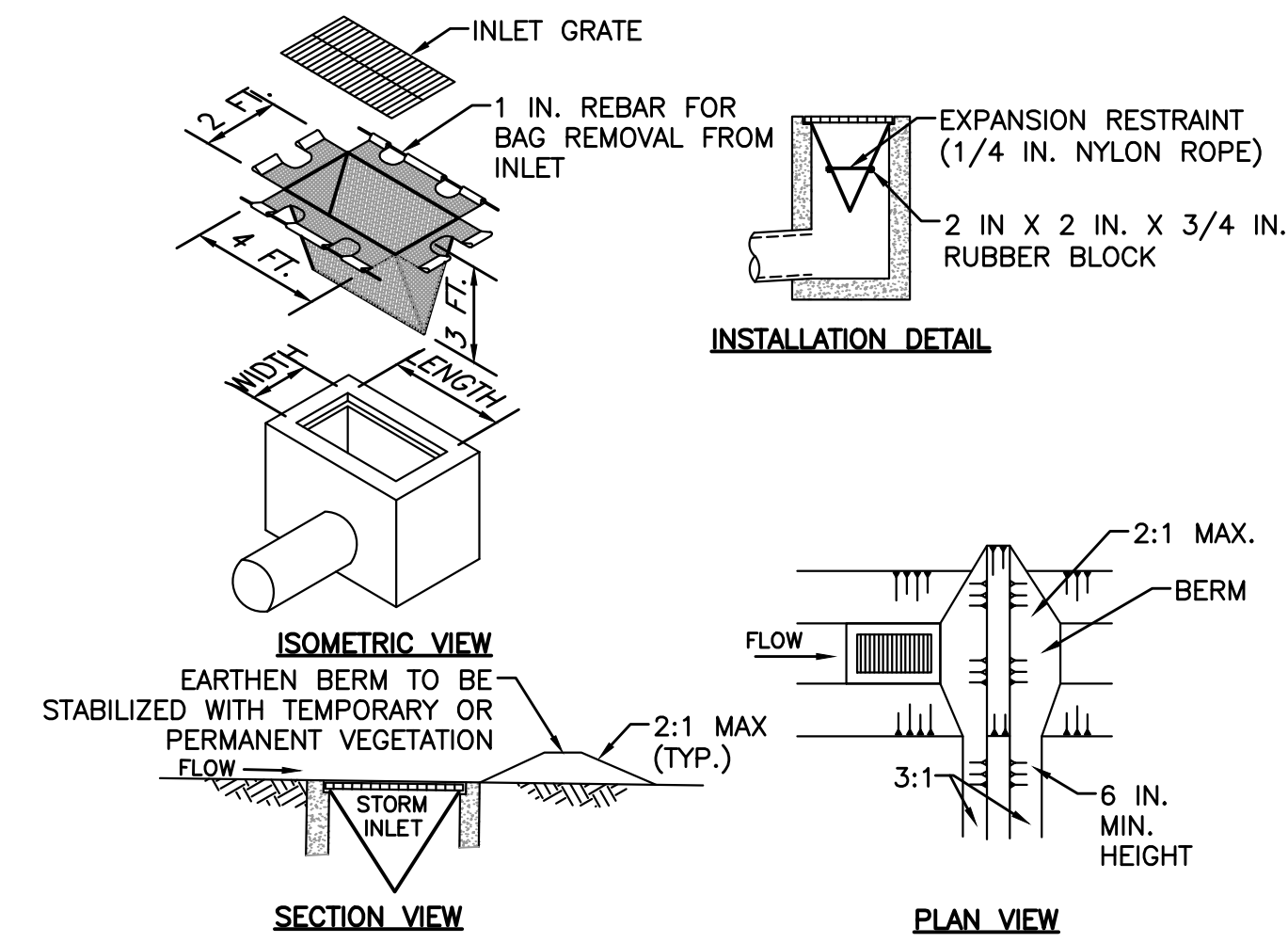


TITLE EROSION AND SEDIMENT CONTROL PLAN	
SCALE AS SHOWN	DWG. NO. C-13
PROJECT NO. 11172.03	SHEET NO. 13 OF 15
	REV.



NOTES:
 MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
 INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
 DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

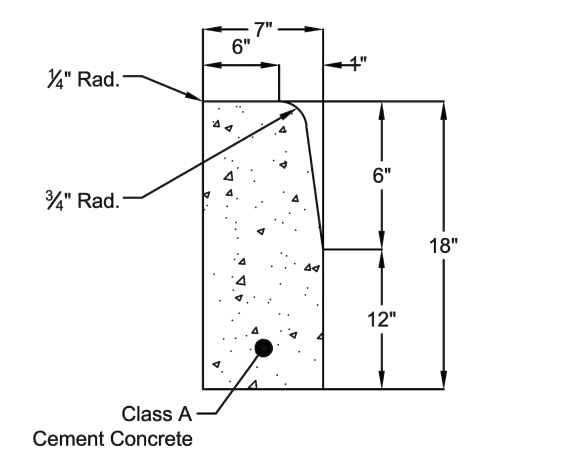
**FILTER BAG
 INLET PROTECTION – TYPE C INLET**
 NOT TO SCALE



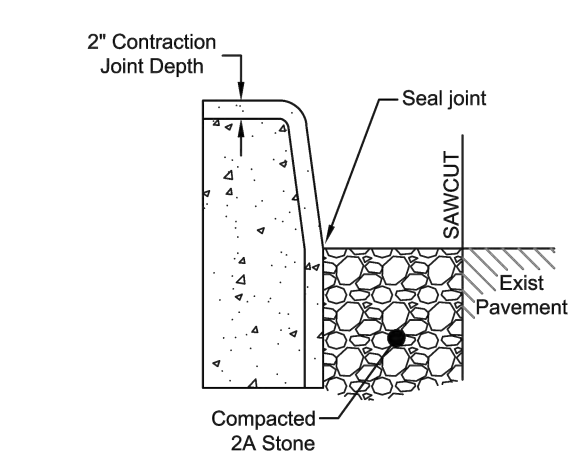
NOTES:
 MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
 AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
 INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
 DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**FILTER BAG
 INLET PROTECTION – TYPE M INLET**
 NOT TO SCALE

										EDWARD VAN ARSDALE III, PE RELEASED BY DESIGN KLL CHECKED DRAWN KLL CHECKED DATE OCTOBER 2023 SURVEY DATE MAY 2023 FIELD BOOK CLSI		SEAL 		SEAL 		CLIENT & PROJECT BOROUGH OF GREENCASTLE 60 NORTH WASHINGTON STREET GREENCASTLE, PA 17225 NORTH WASHINGTON STREET STREETSCAPE GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA				TITLE EROSION AND SEDIMENT CONTROL DETAILS		SCALE AS SHOWN		DWG. NO. C-14	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.	PROJECT NO. 11172.03		SHEET NO. 14 OF 15		REV.											



TYPICAL CROSS SECTION



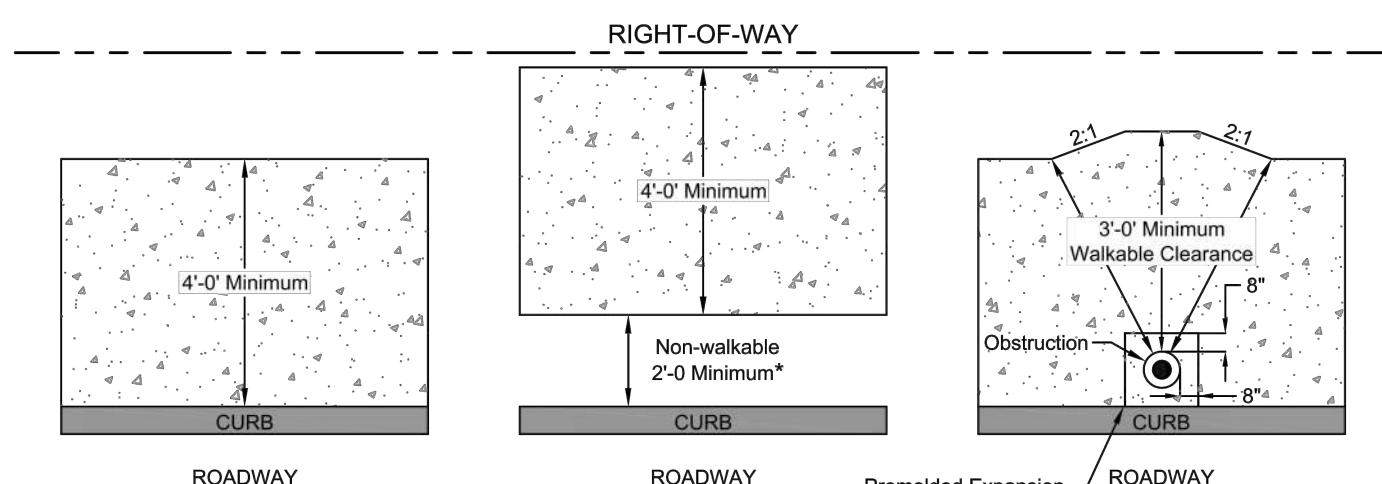
ROADWAY REPAIR & CONTRACTION JOINT SECTION

- RESTORATION: (If roadway is cut to set forms)
- MUST SAW CUT
 - COMPACT SUBBASE
 - PLACE & COMPACT 2A STONE FROM BOTTOM OF CURB TO TOP OF ROADWAY SURFACE
 - CONTRACTOR TO CONTACT BOROUGH WHEN READY FOR PAVEMENT REPAIR

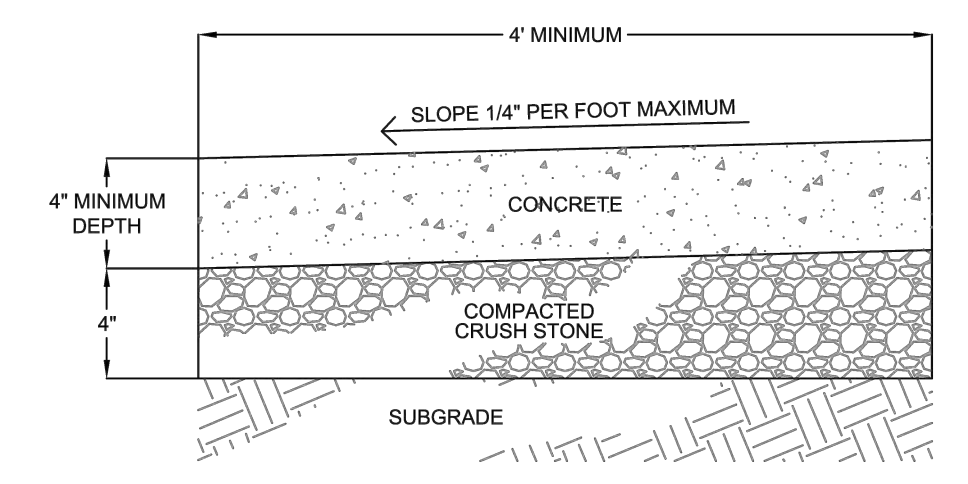
ASSURE THAT YOUR CONTRACTOR READS AND UNDERSTANDS THESE REQUIREMENTS BEFORE STARTING WORK!

Borough of Greencastle
 Address: 60 North Washington Street
 Phone: 717.597.7143
 Fax: 717.597.1734
 EMail: office@greencastlepa.gov

CURB & SIDEWALK SPECIFICATIONS
 STANDARD DRAWING NO. 2017-01
 STANDARD CONCRETE CURB



TOP VIEW

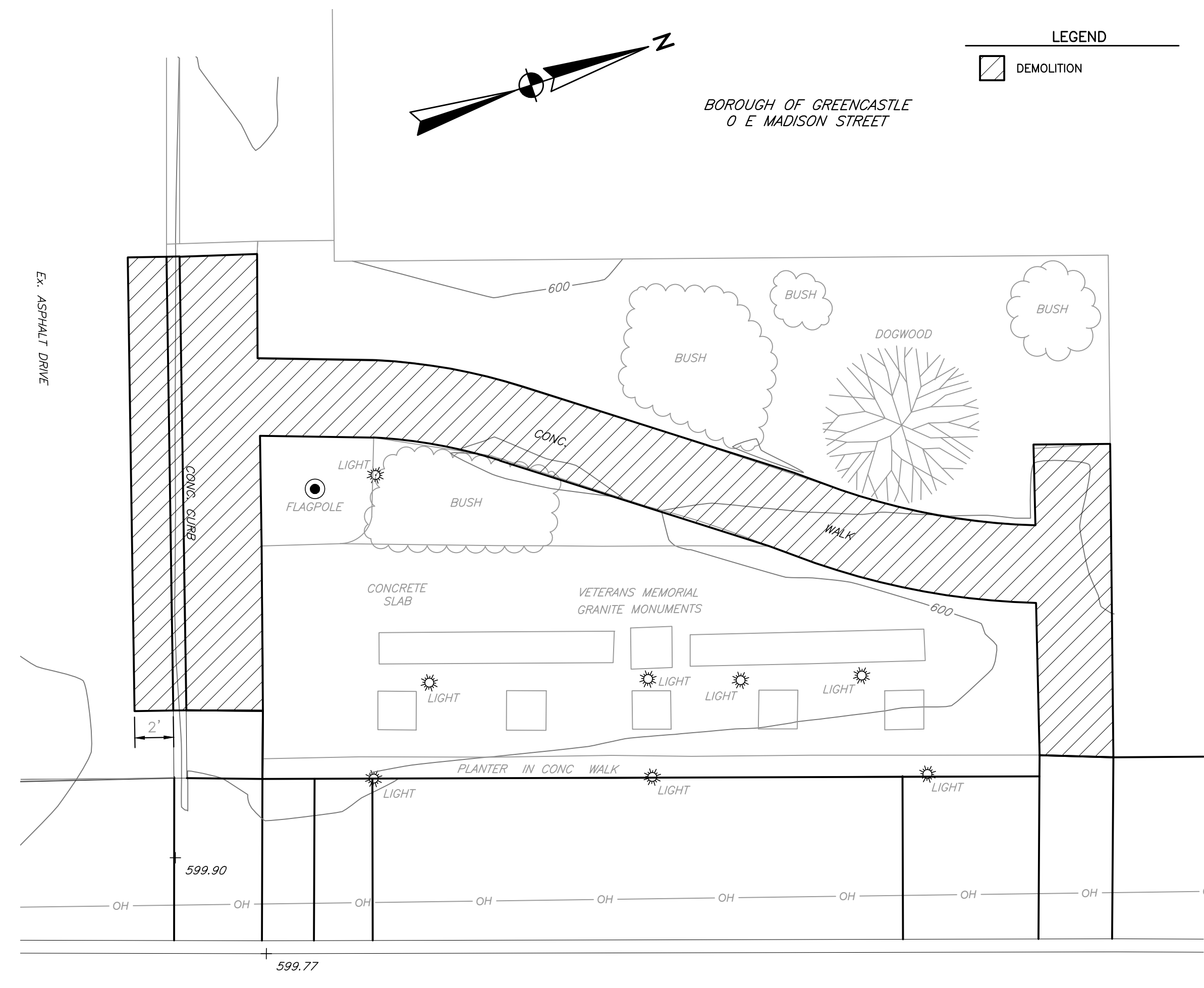


SECTION

- NOTES:
- CURBS SHALL BE FORMED SEPARATE FROM SIDEWALK. MONOLITHIC CURB AND SIDEWALK CONSTRUCTION WILL ONLY BE ALLOWED WITH PRIOR BOROUGH APPROVAL.
 - SIDEWALK TO HAVE 3/8" CONTRACTION JOINTS SCORED AT 5'-0" INTERVALS.
 - CONSTRUCT 3/4" EXPANSION JOINTS SPACED EVERY 30' AND BETWEEN SIDEWALK WHERE ADJACENT.
 - SIDEWALK TO BE BRUSH FINISHED.
 - MINIMUM OF 36" CLEARANCE AROUND ANY OBSTRUCTIONS (UTILITY POLES, MAILBOXES, FIRE HYDRANT, ETC.)
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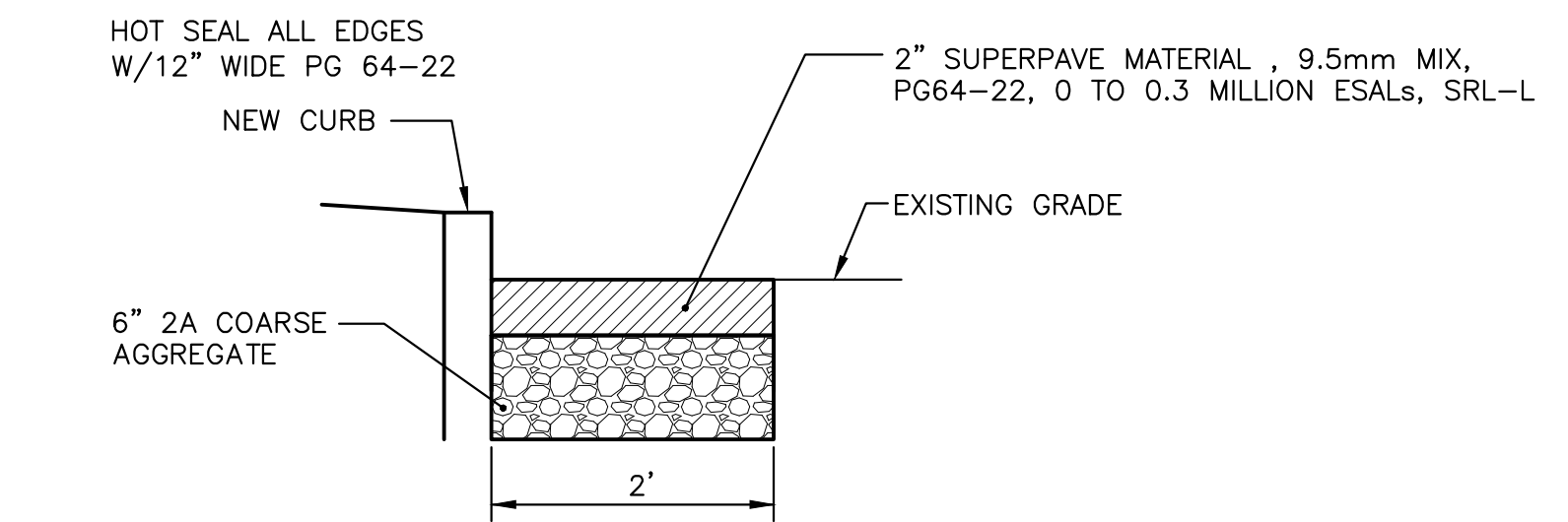
Borough of Greencastle
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 Fax: 717.597.1734
 EMail: office@greencastlepa.gov

CURB & SIDEWALK SPECIFICATIONS
 STANDARD DRAWING NO. 2017-02
 STANDARD CONCRETE SIDEWALK



ALTERNATE A DEMOLITION PLAN

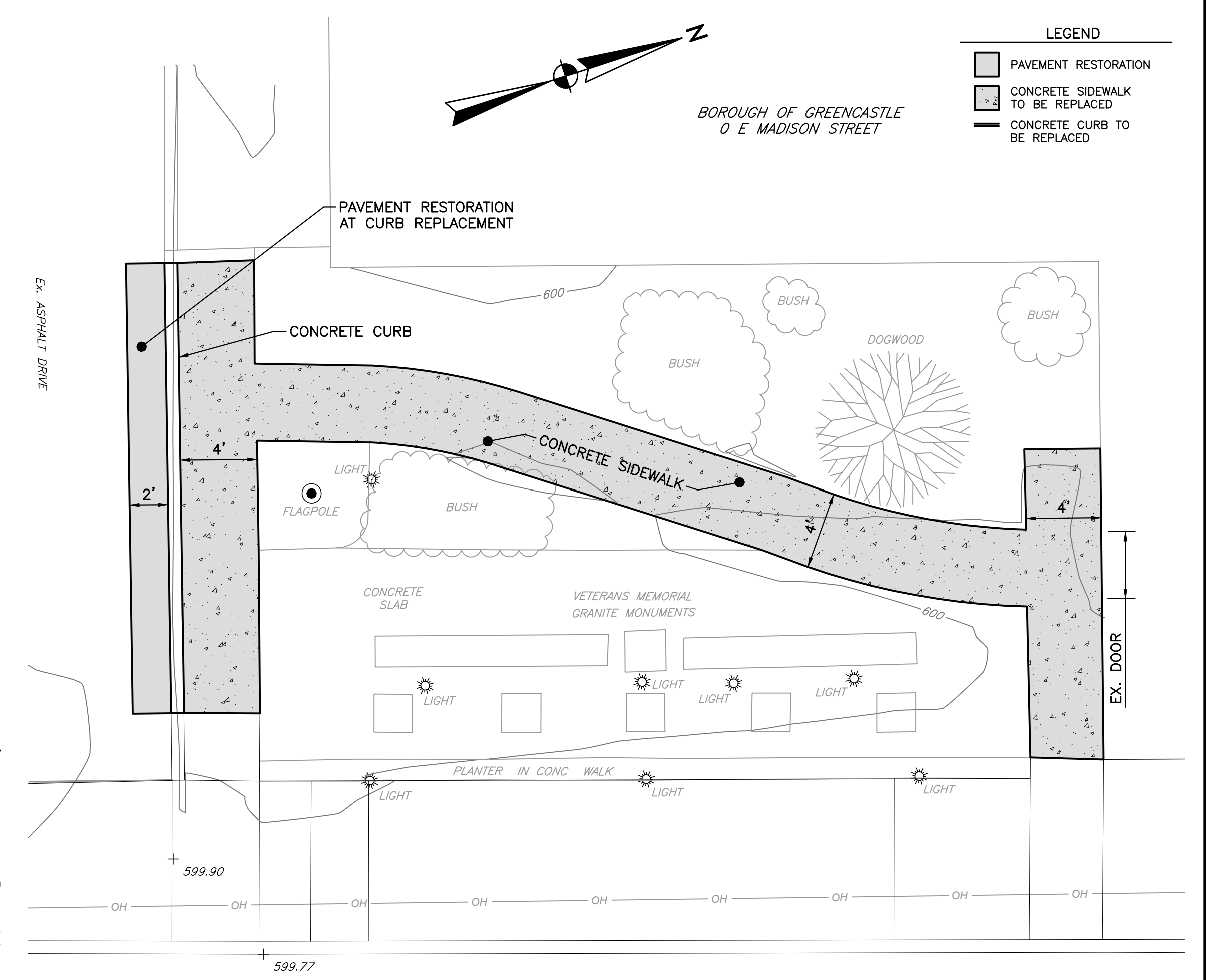
SCALE: 1" = 5'



PAVEMENT RESTORATION AT CURB REPLACEMENT

NO SCALE

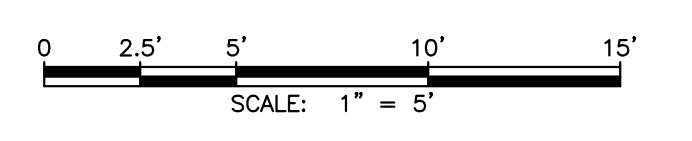
- NOTES:
- MINIMUM 2' PAVEMENT CUTBACK, EXCAVATE OLD AND TEMPORARY MATERIAL. RECOMPACT SUB-GRADE, TACK COAT ALL VERTICAL EDGES.
 - PERMANENT RESTORATION TO BE MINIMUM 90 DAYS.



ALTERNATE A SITE PLAN

SCALE: 1" = 5'

- NOTES:
- ALL TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE WELLS AT ALL EXISTING TREE LOCATIONS PER BOROUGH STANDARDS.
 - EXISTING CROSSWALK AND STOP BAR PAINT SHALL BE REPLACED AFTER PAVING. NEW CROSSWALK PAINT SHALL BE APPLIED AS SHOWN ON RAMP DETAIL PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING AND PROPOSED ELEVATIONS.
 - CONFLICTS REGARDING FACADES, PORCHES, AND/OR STEPS SHALL BE FIRST DISCUSSED WITH BOROUGH STAFF THEN BOROUGH STAFF AND CONTRACTOR SHALL DISCUSS WITH RESIDENT. ANY STRUCTURES AFFECTED SHALL BE REPLACED IN KIND.
 - CURBING SHALL BE REPAINTED AT CURRENT LOCATIONS.
 - ALL TREE WELLS ARE 4'x4' UNLESS OTHERWISE NOTED.



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

EDWARD VAN ARSDALE III, PE	DESIGN	N. MERKEL	CHECKED
	DRAWN	KLL	CHECKED
	DATE	OCTOBER 2023	SURVEY DATE
			MAY 2023
			FIELD BOOK
			CSLI



CLIENT & PROJECT

BOROUGH OF GREENCASTLE
 60 NORTH WASHINGTON STREET
 GREENCASTLE, PA 17225

NORTH WASHINGTON STREET
 STREETScape
 GREENCASTLE BOROUGH, FRANKLIN COUNTY, PA



TITLE		ALTERNATE A DEMOLITION PLAN, SITE PLAN & DETAILS	
SCALE	AS SHOWN	DWG. NO.	C-15
PROJECT NO.	11172.03	SHEET NO.	15 OF 15
REV.			