

# 2022 SIDEWALK RECONSTRUCTION on STATE STREET PROJECT #7241 PORTSMOUTH, NEW HAMPSHIRE SUMMER 2022



LOCATION MAP  
SCALE: N.T.S

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DEPARTMENT OF  
 PUBLIC WORKS  
 CITY OF PORTSMOUTH, NH  
 680 PEVERLY HILL ROAD  
 603-427-1530

0	ISSUED FOR BID	MRB	05/11/22	
NO.	REVISIONS	APP'D	DATE	
PROJECT: 2022 SIDEWALK PROJECT STATE STREET				
TITLE: COVER SHEET				
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022		
PROJECT NO.: 7241		SHEET: C-000		
APPROVED BY: MRB				



**LEGEND:**

EXISTING	PROPOSED	
		PROPERTY LINE
		RIGHT-OF-WAY
		BUILDING
		EDGE OF PAVEMENT
		CURB
		SIDEWALK (CONCRETE)
		ADA RAMP
		ADA SYMBOL
		MAILBOX
		SINGLE WHITE LINE
		DOUBLE YELLOW CENTERLINE
		RETAINING WALL
		LOOSE STONE WALL
		FENCE
		GUARDRAIL
		SHRUB
		TREE
		TEMPORARY BENCHMARK
		1' CONTOUR
		WETLANDS
		WETLANDS BOUNDARY
		DRAINAGE
		WATER
		GRAVITY SEWER
		UNDERGROUND TELE.
		U/G POWER
		U/G POWER & COMM.
		OVERHEAD WIRES
		GAS
		FIRE HYDRANT
		UTILITY POLE
		UTILITY POLE w/ LIGHT
		CATCHBASIN
		MANHOLE
		WATER SHUT OFF
		WATER VALVE
		LIMITS OF CONSTRUCTION

**DEMOLITION NOTES:**

- LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- ANY DAMAGE BY THE CONTRACTOR DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE WORK. NO FEES WILL BE CHARGED.
- CONTRACTOR SHALL REMOVE TREES AND BRUSH AS INDICATED AND AS REQUIRED FOR COMPLETION OF THE WORK. ALL STUBS SHALL BE REMOVED AND SURFACES GRUBBED WITHIN THE LIMITS OF WORK.
- ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH.
- CONTRACTOR SHALL PROTECT ALL FENCES, MAILBOXES, STRUCTURES, ETC. THROUGHOUT THE COMPLETION OF THE WORK.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION WORK. THIS INCLUDES SILT FENCE / SILT SOCK AND INLET PROTECTION BARRIERS.
- CONTRACTOR SHALL SAWCUT PAVEMENT AT EDGES OF TRENCHES FOR CLEAN VERTICAL EDGES.
- CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS ACCESS TO RESIDENTIAL PROPERTIES THROUGHOUT THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE UTILITIES.
- CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.

**GRADING NOTES:**

- CONTRACTOR SHALL PROVIDE SIDEWALK WITH SLOPES SHOWN IN THE DETAILS. GRADING ADJACENT TO SIDEWALKS SHALL PROVIDE POSITIVE PITCH SO AS TO NOT CAUSE PONDING ON THE SIDEWALK AND AT DRIVEWAYS.
- ALL WATER SHUT OFF VALVE BOXES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADES.
- ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM REQUIREMENTS FOR COMPACTION:
 

BELOW PAVEMENT AND CONCRETE AREAS:	95%
TRENCH BEDDING AND BACKFILL:	95%
BELOW LOAM AND SEED AREAS:	90%

 COMPACTION PERCENTAGES SHALL BE THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

**SITE NOTES:**

- ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
- MATERIALS AND CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE FINAL LAYOUT OF SIDEWALK WITH THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF PORTSMOUTH FOR APPROVAL.
- CONTRACTOR SHALL BE FAMILIAR WITH ALL AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS FOR ACCESSIBILITY.
- SIDEWALKS PERMANENTLY REMOVED SHALL BE LOAMED, GRADED AND SEEDED. PLACEMENT OF LOAM SHALL BE DONE WITH WHEELBARROW AND GRADED BY HAND (NO MECHANICAL EQUIPMENT).
- IT IS UNKNOWN IF THERE ARE PRIVATE IRRIGATION LINES THROUGHOUT THE SITE. NOTIFY THE ENGINEER IMMEDIATELY IF IRRIGATION LINES ARE ENCOUNTERED.
- CONTRACTOR SHALL MINIMIZE EQUIPMENT USED UNDER TREE CANOPIES. CARE SHALL BE TAKEN TO NOT DAMAGE TREES THAT ARE REMAINING.

**ABBREVIATIONS:**

R&R	REMOVE AND RESET
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
ADJ	ADJUST FRAME

  
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NO.	REVISIONS	APP'D	DATE	
PROJECT: 2022 SIDEWALK PROJECT STATE STREET				
TITLE: GENERAL NOTES				
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022		
PROJECT NO.: 7241		SHEET: G-100		
APPROVED BY: MRB				

BASE BID SCHEDULE OF QUANTITIES

Pay Item	Description	Units	Quantity	Notes	Specification
201.1	Clearing Shrubs & Grubbing	LS	1		Special Provision
201.3	Tree and Shrub Pruning	LS	0.25		NHDOT
202.21	Removal of Existing Sidewalks, Driveway Aprons & Roadway Pavement	SY	1550		NHDOT
203.1	Common Excavation	CY	375		NHDOT
214	Fine Grading (Sidewalks & Driveways)	SY	1750		Special Provision
304.3	Crushed Gravel in Place (Sidewalks & Driveway)	CY	375		Special Provision
403.12	Hot Bituminous Pavement, Hand Method (Misc.)	TN	50		Special Provision
520	Class B Curb Backfill	CY	75		NHDOT
604.0007	Poly Liner for CB	EA	9		Special Provision
604.0008	Eliminator Oil/Water Separator	EA	3	*	Special Provision
604.5	Repairs & Adjust Existing Structures	LF	10		Special Provision
604.72A	Provide and Install CB Frame & Grate	EA	4	*	Special Provision
604.72B	Provide and Install CB Frame & Grate (Inlet Style)	EA	1		Special Provision
608.24	4" Concrete Sidewalk & Pads	SY	1250		Special Provision
608.26	6" Concrete Sidewalk (ADA Ramps)	SF	520		Special Provision
608.54	ADA Detectable Warning Tile, Cast Iron	SF	175		Special Provision
609.02	New 6" Curved Vertical Granite Curb	LF	30		Special Provision
609.5A	Reset Existing Vertical Granite Curb	LF	650		Special Provision
609.5B	Reset Existing Vertical Granite Curb (Antique)	LF	1200		Special Provision
609.51	Setting Granite Curb from City Stockpile	LF	100		Special Provision
611.5001	Curb Stop Riser Assembly	EA	35	*	Special Provision
611.5001	Valve Gate Box Top at WSO	EA	35	*	Special Provision
615.0071	New Steel Sign Posts	EA	12		Special Provision
615.02	New Traffic Sign	SF	10		Special Provision
615.024	Relocate Existing Sign and Post	EA	5		Special Provision
618.7	Uniformed Flaggers	Allow	20000		Special Provision
619.1	Maintenance of Traffic	LS	1		Special Provision
628.2	Sawcut (Curbing)	LF	2100		Special Provision
632.3112	Pavement Markings, 12" Thermoplastic (Crosswalk & Stop Bars)	LF	800		NHDOT
640	Reconstruct Existing Landscaping	LS	1		Special Provision
640	Repairs to Irrigation Systems	Allow	250		None
641	Loam	CY	25		Special Provision
641.1	Metal Window Wells (36" w x 12" d)	EA	1	*	None
645	Catch Basin Silt Sack	EA	12		NHDOT
646.31	Turf Establishment (Hydroseed) (Fertilizer, Mulch & Tackifier)	SY	150		Special Provision
692	Mobilization	LS	1		NHDOT
	* = Estimated and/or Indeterminant Quantity item, quantity unknown and to be verified prior to purchase of material				

ADD/ALT SCHEDULE OF QUANTITIES

Pay Item	Description	Units	Quantity	Notes	Specification
ADD/ALT 1					
203.1	Common Excavation (Add'l 2")	CY	10		NHDOT
403.12	Hot Bituminous Pavement, Hand Method	TN	20		Special Provision
608.5A	New Brick Sidewalk (Edging)	SY	140		Special Provision
ADD/ALT 2					
203.1	Common Excavation (Add'l 2")	CY	60		NHDOT
403.12	Hot Bituminous Pavement, Hand Method	TN	120		Special Provision
608.24	DEDUCT - 4" Concrete Sidewalk & Pads	SY	-900		Special Provision
608.5B	New Brick Sidewalk (Full Width)	SY	900		Special Provision

ADD/ALT DESCRIPTIONS:

ADD/ALT 1 – STATE STREET  
 REDUCE THE WIDTH OF CONCRETE SIDEWALKS FROM UNION STREET TO THE LIMITS OF THE PROJECT (#692 STATE STREET) AND CONSTRUCT BRICK EDGING BETWEEN THE CONCRETE SIDEWALK AND THE CURB. THIS SHALL ONLY OCCUR IN AREAS WITH AT LEAST A 6.5' WIDE SIDEWALK.

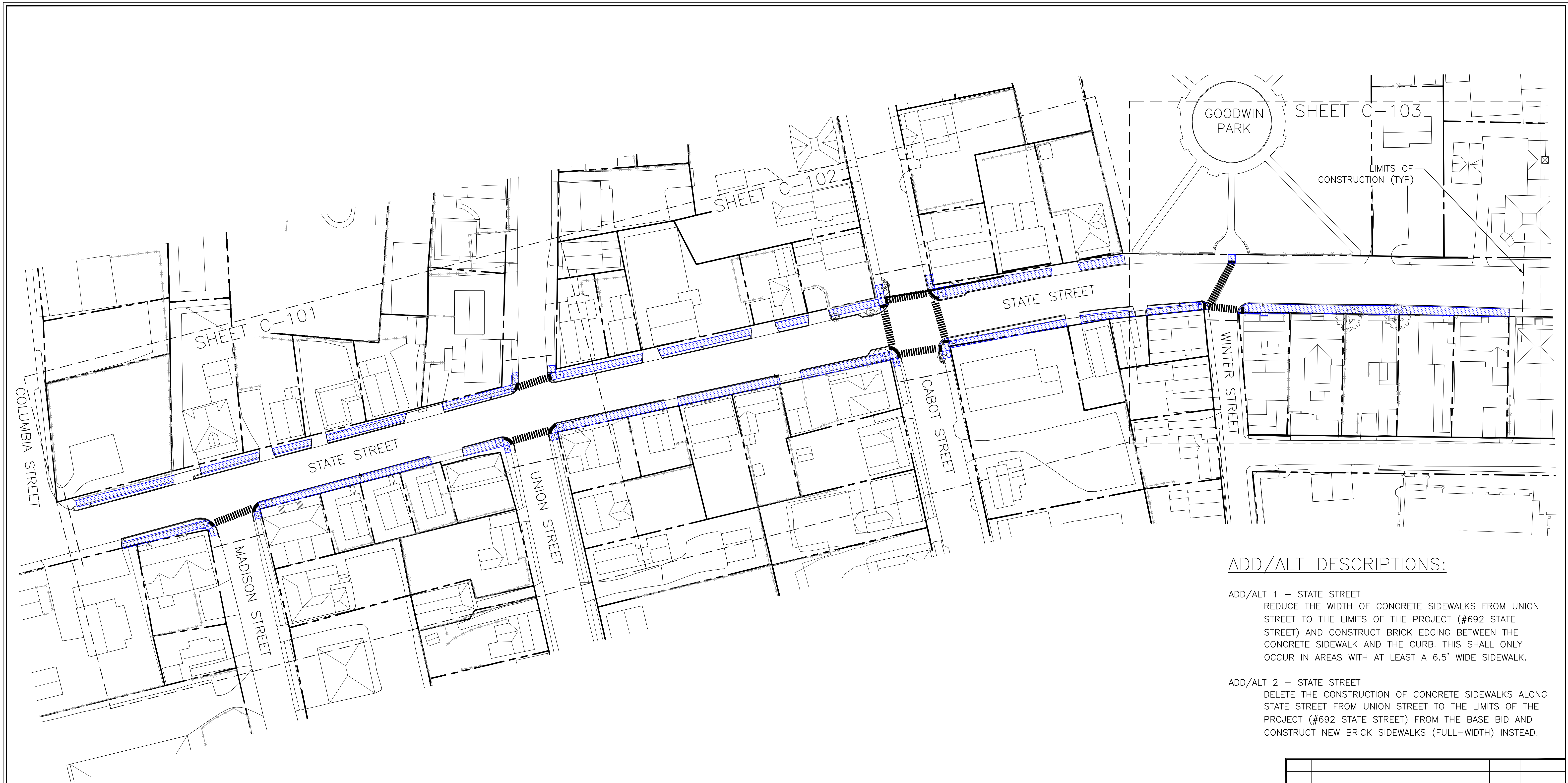
ADD/ALT 2 – STATE STREET  
 DELETE THE CONSTRUCTION OF CONCRETE SIDEWALKS ALONG STATE STREET FROM UNION STREET TO THE LIMITS OF THE PROJECT (#692 STATE STREET) FROM THE BASE BID AND CONSTRUCT NEW BRICK SIDEWALKS (FULL-WIDTH) INSTEAD.



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PROJECT: 2022 SIDEWALK PROJECT STATE STREET			
TITLE: PAY ITEM and SPECIFICATION LIST			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7241		SHEET: G-200	
APPROVED BY: MRB			

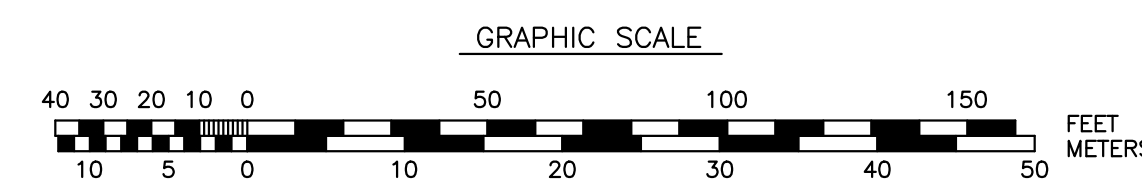
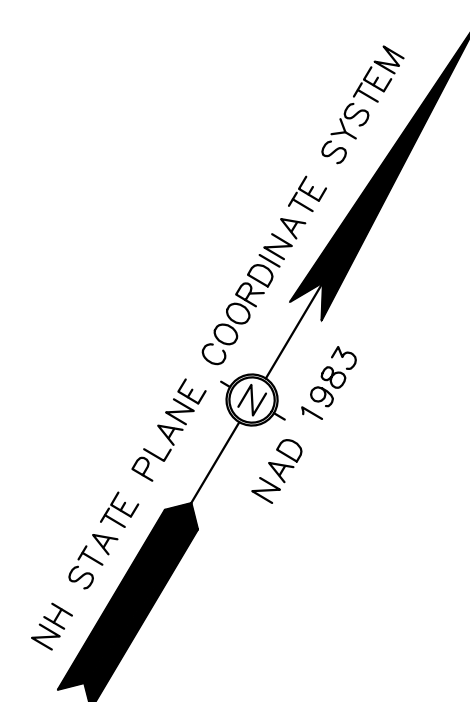




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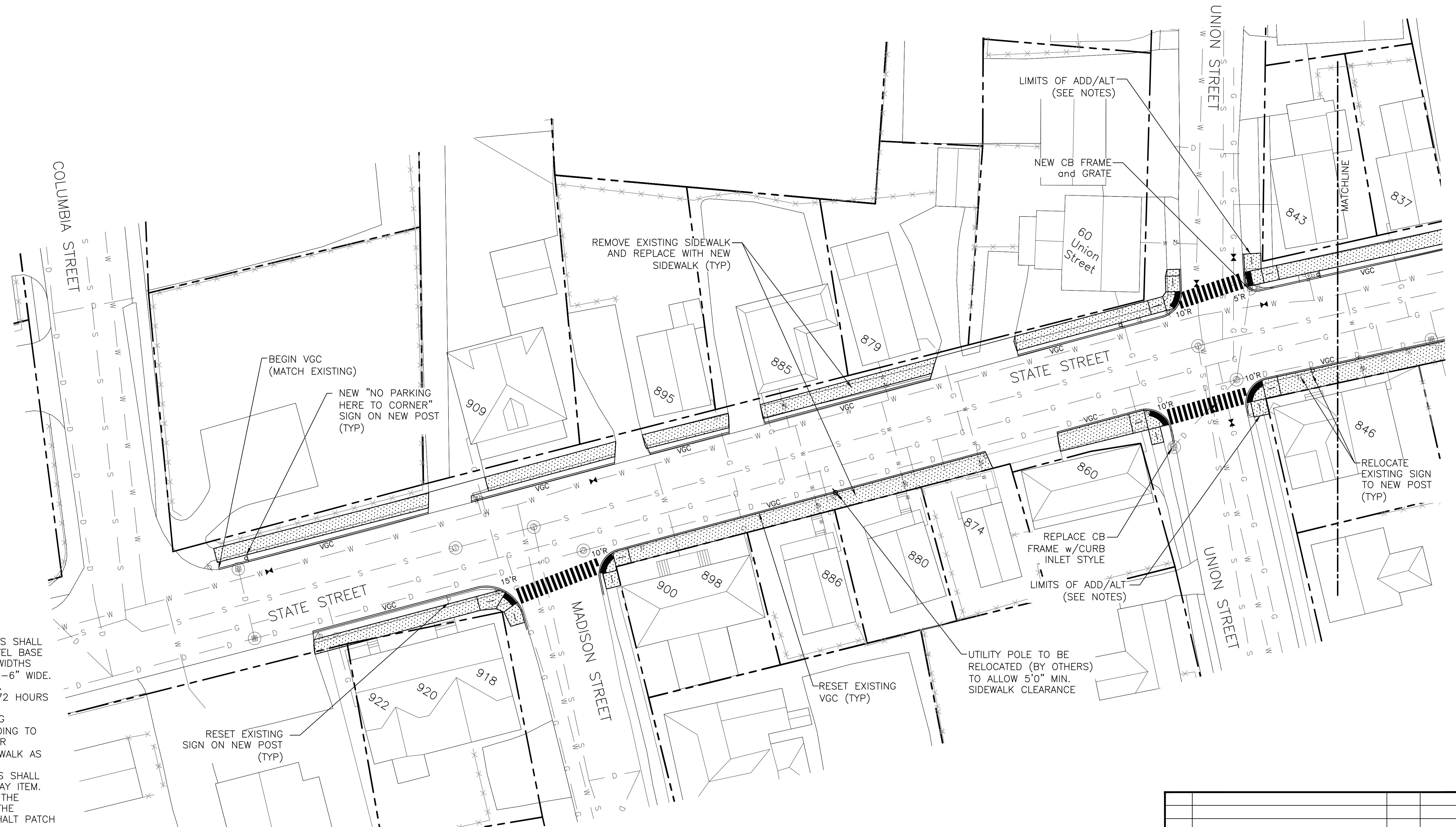
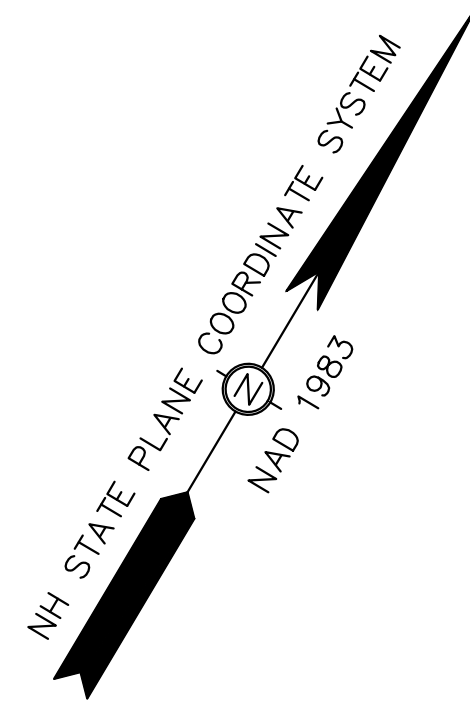
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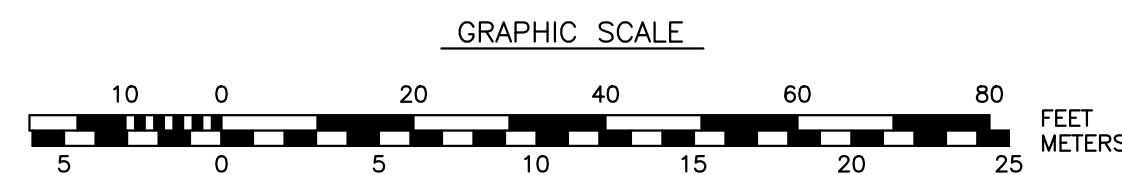
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TITLE: OVERALL SITE PLAN			
DRAWING SCALE:	AS SHOWN	DATE:	FEBRUARY 2022
PROJECT NO.:	7241	SHEET:	C-100
APPROVED BY:	MRB		



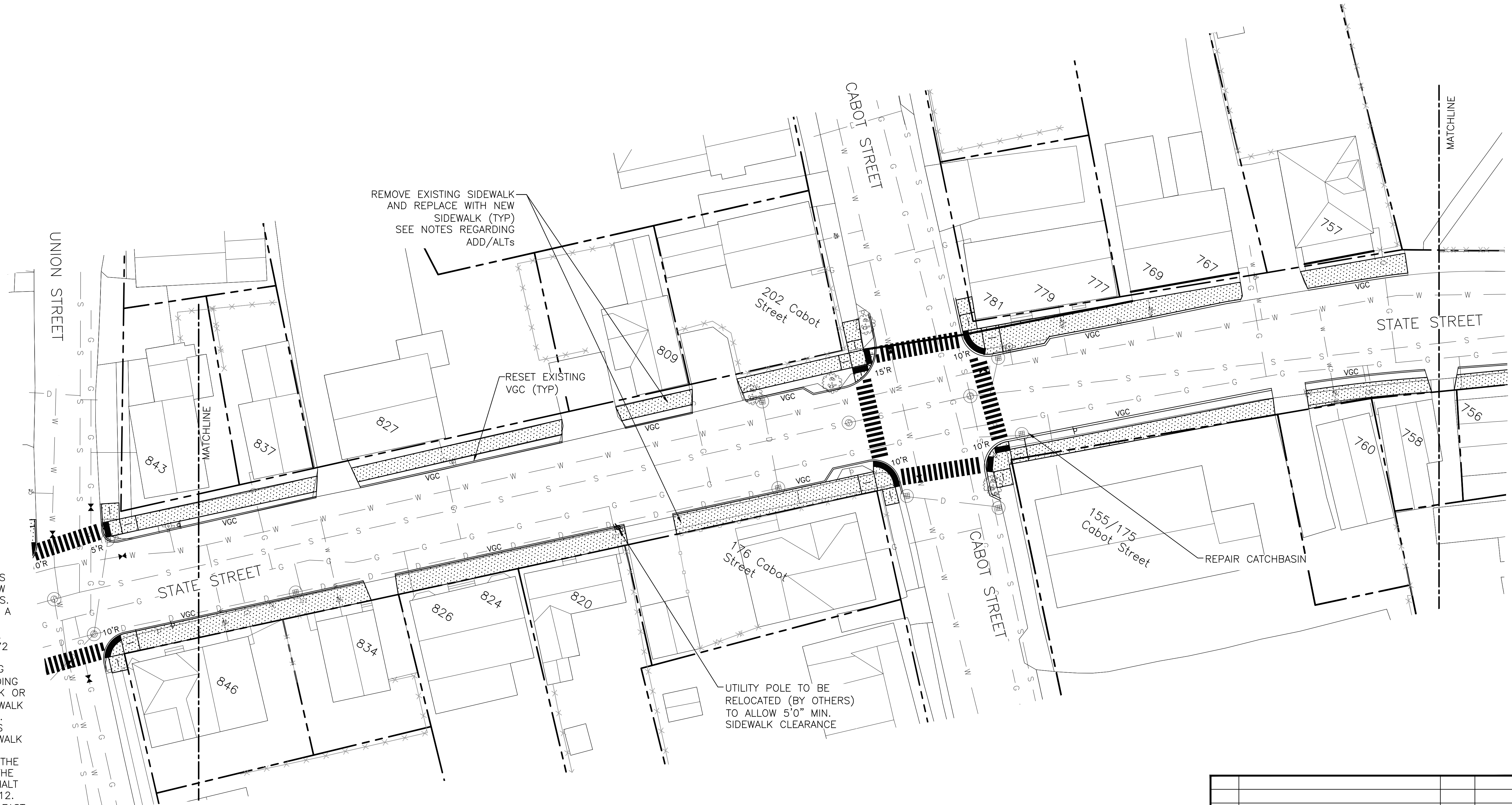
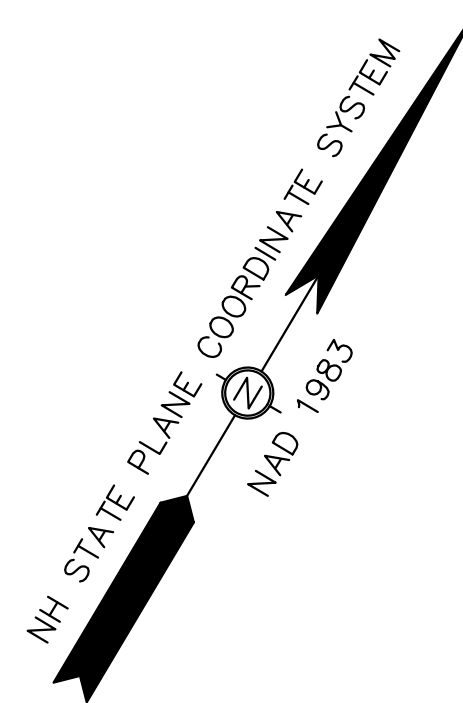


- NOTES:**
1. EXISTING SIDEWALK AND BASE MATERIALS SHALL BE REMOVED. REPLACE WITH NEW GRAVEL BASE AND CONCRETE SIDEWALKS. SIDEWALK WIDTHS VARY, BUT SHALL BE A MINIMUM OF 5'-6" WIDE. UTILITIES SHOWN ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO EXCAVATION.
  2. CONTRACTOR SHALL ALTER THE EXISTING HARDSCAPE (APPROX. 12" TO 24" LEADING TO HOUSE ENTRANCES, TYPICALLY BRICK OR ASPHALT) ON BACK SIDE OF NEW SIDEWALK AS NECESSARY TO MATCH NEW GRADES.
    - 3.1. FOR EXISTING BRICK SECTIONS, THIS SHALL BE INCIDENTAL TO THE SIDEWALK PAY ITEM.
    - 3.2. FOR EXISTING ASPHALT LOCATIONS, THE SAWCUT SHALL BE INCIDENTAL TO THE SIDEWALK PAY ITEM. THE NEW ASPHALT PATCH SHALL BE PAID UNDER 403.12.
  4. ADD/ALT DESCRIPTIONS (UNION ST. TO EAST LIMITS OF PROJECT):
    - 4.1. ADD/ALT 1 - CONSTRUCT 5'0" WIDE CONCRETE SIDEWALK WITH BRICK EDGING ALONG THE CURB LINE TO FULL WIDTH. BRICK EDGING WILL VARY FROM 12" TO 36" WIDE.
    - 4.2. ADD/ALT 2 - CONSTRUCT A FULL WIDTH BRICK SIDEWALK.
  5. EXISTING GRANITE CURB SHALL BE RESET TO THE GRADES PROVIDED BY THE ENGINEER IN THE FIELD. THE CONTRACTOR SHALL OBTAIN ANY ADDITIONAL CURB REQUIRED FROM THE CITY'S CURBING STOCKPILE ON CONSTITUTION AVENUE. CONTRACTOR IS RESPONSIBLE TO LOAD AND DELIVER CURB FROM STOCKPILE TO THE SITE FOR USE.
  6. ALL CATCHBASINS SHALL BE ADJUSTED AND INSPECTED FOR REQUIRED REPAIRS. INSTALL POLYLINERS ON ALL CB'S IN THE WORK ZONE.



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PROJECT: 2022 SIDEWALK PROJECT STATE STREET			
TITLE: SIDEWALK LAYOUT PLAN 1 of 3			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7241		SHEET: C-101	
APPROVED BY: MRB			

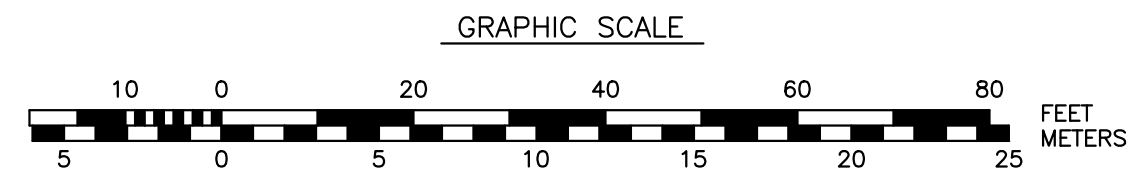


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REMOVE EXISTING SIDEWALK AND REPLACE WITH NEW SIDEWALK (TYP) SEE NOTES REGARDING ADD/ALTs

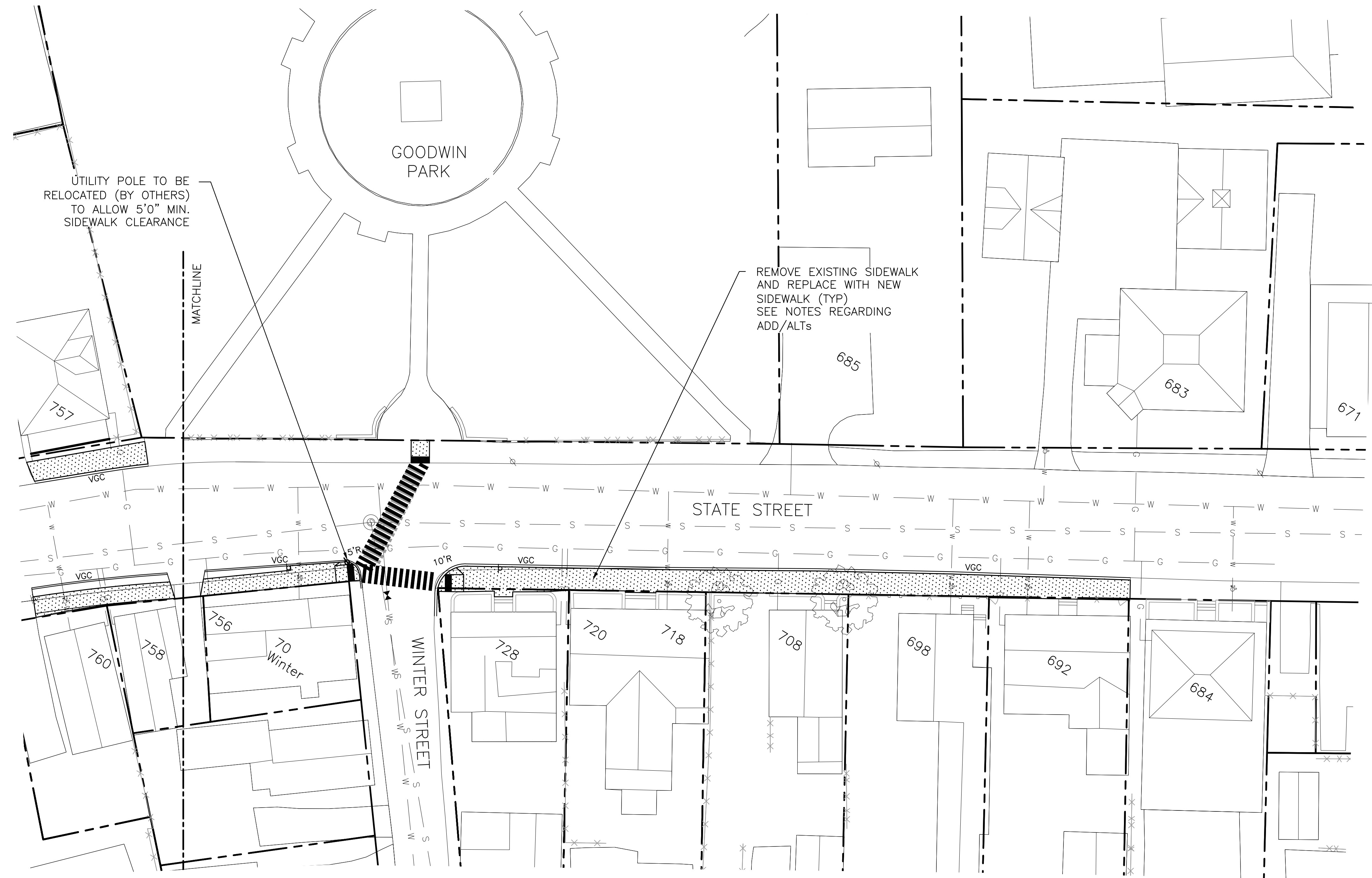
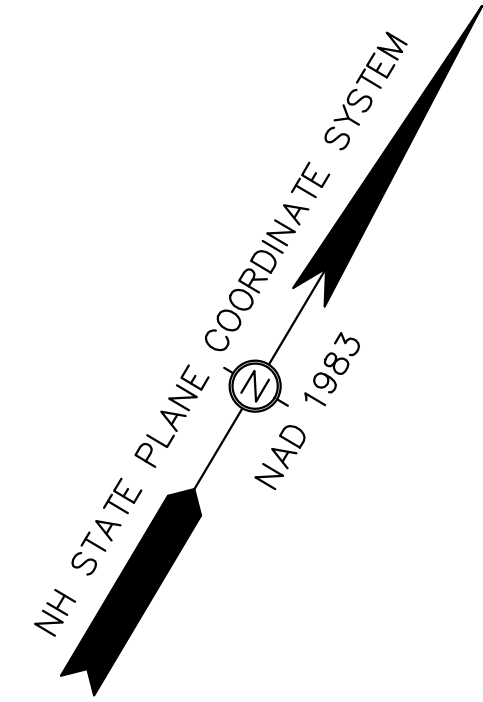
RESET EXISTING VGC (TYP)

UTILITY POLE TO BE RELOCATED (BY OTHERS) TO ALLOW 5'0" MIN. SIDEWALK CLEARANCE

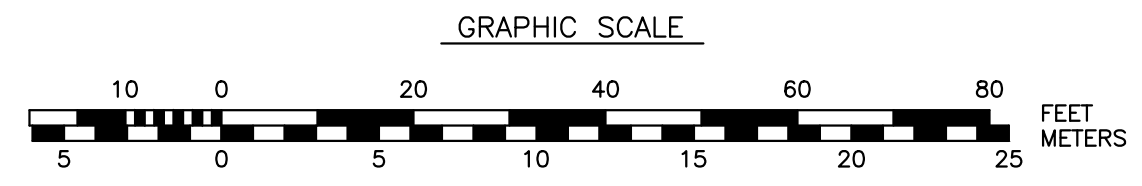


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PROJECT: 2022 SIDEWALK PROJECT STATE STREET			
TITLE: SIDEWALK LAYOUT PLAN 2 of 3			
DRAWING SCALE:	AS SHOWN	DATE:	FEBRUARY 2022
PROJECT NO.:	7241	SHEET:	C-102
APPROVED BY:	MRB		



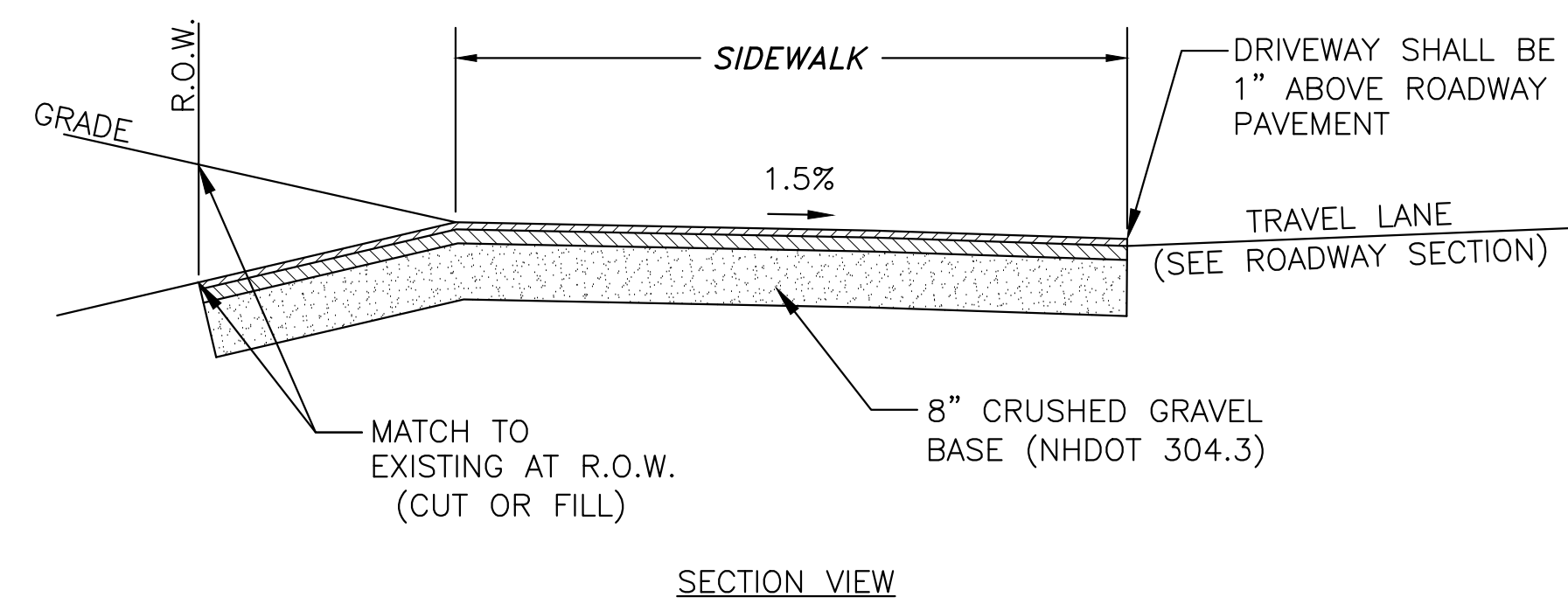
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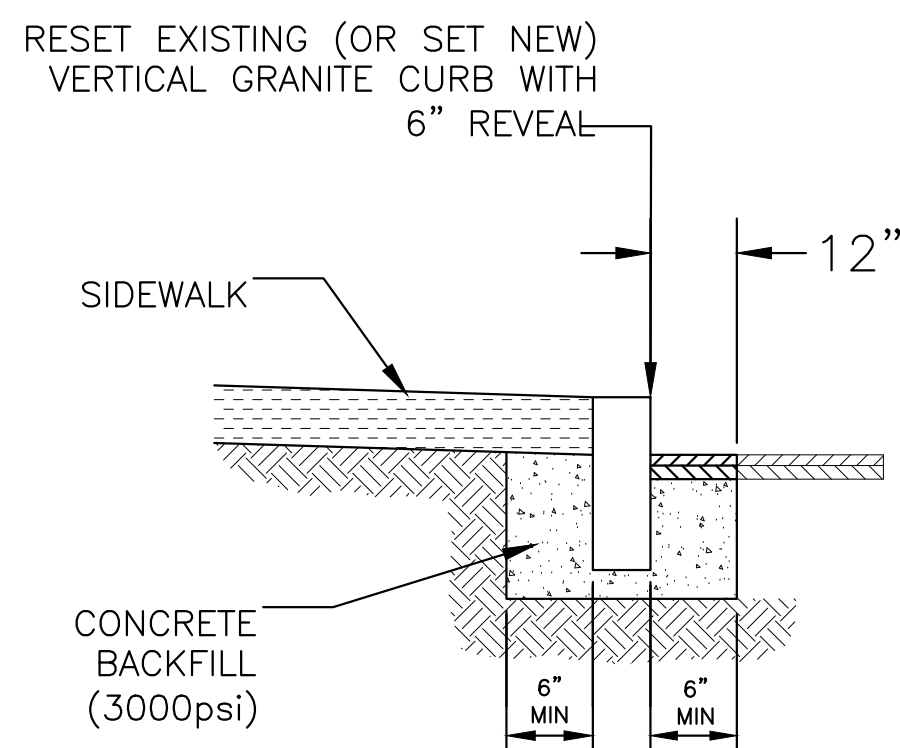
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NO.	REVISIONS	APP'D	DATE
PROJECT: 2022 SIDEWALK PROJECT STATE STREET			
TITLE: SIDEWALK LAYOUT PLAN 3 of 3			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7241		SHEET: C-103	
APPROVED BY: MRB			





- NOTES:
- DRIVEWAY PAVEMENT SHALL BE:
    - 1.5" WEARING (3/8" 50 GYRATION)
    - 2.0" BINDER (1/2" 50 GYRATION)
  - ENGINEER TO DETERMINE IF EXISTING BASE MATERIALS ARE ACCEPTABLE.
  - SUB-GRADE SHALL BE COMPACTED PRIOR TO PLACEMENT OF GRAVEL BASE. GRAVEL BASE SHALL BE COMPACTED TO 95% PROCTOR.

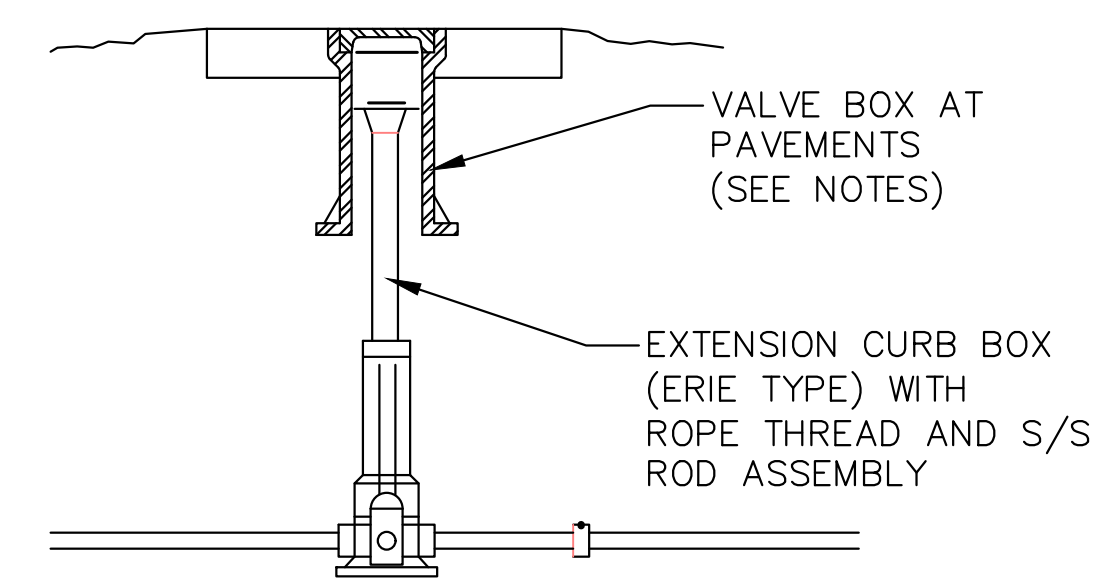
TYPICAL DRIVEWAY SECTION  
SCALE: N.T.S



RADIUS	MAX. LENGTH
<20'	USE CURVED CURB
21'-25'	3'
26'-30'	4'
31'-35'	5'
36'-40'	6'
41'-50'	7'
51'-56'	8'
56'-60'	9'
OVER 60'	10'

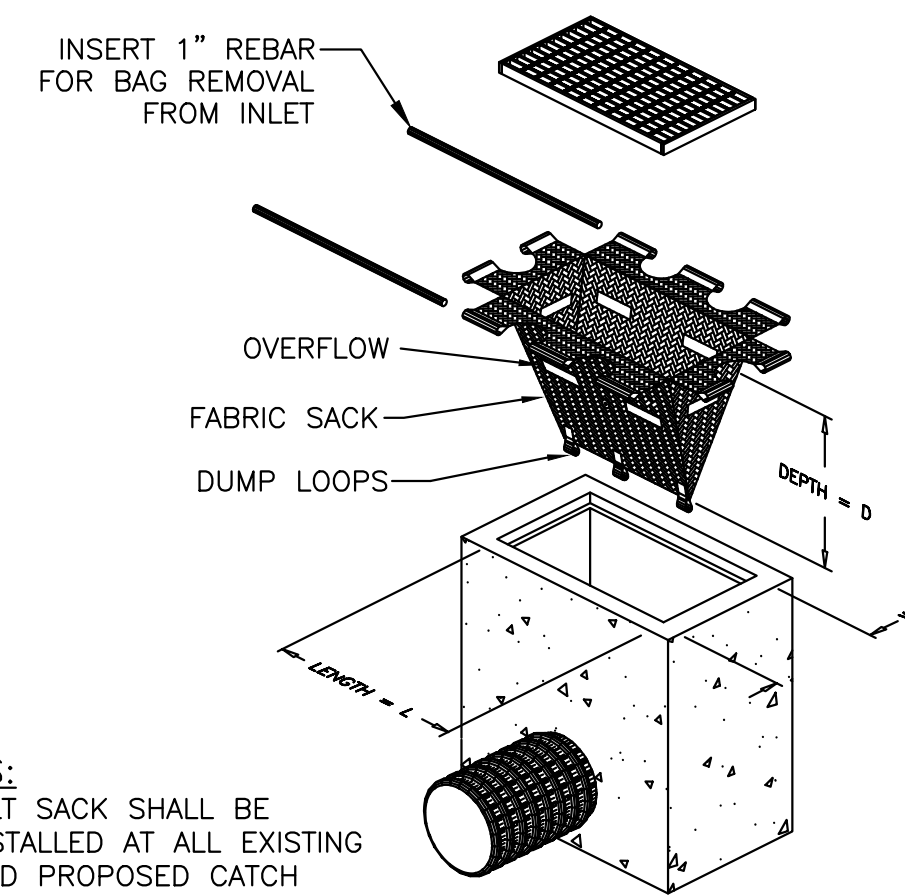
VERTICAL GRANITE CURB  
SCALE: N.T.S

- NOTES:
- CURB TO BE SET TO LINE AND GRADE SPECIFIED.
  - ALL RADII 20 FEET AND SMALLER SHALL USE CURVED SECTIONS.
  - CURB AT FLUSH SECTION OF SIDEWALK SHALL BE SET TO 1.5% SLOPE. CURB AT RAMPS SHALL BE SET TO 7.6%. IT IS THE CURB CONTRACTORS RESPONSIBILITY TO VERIFY SLOPES WITH A SMART LEVEL.
  - VERTICAL GRANITE JOINTS SHALL BE MORTARED.
  - SEE CHART FOR MAX / MIN STONE LENGTHS.
  - RESET EXISTING CURB. ANY MISSING OR DAMAGED CURB SHALL BE REPLACED WITH MATCHING CURB SIZE (NEW).
  - NO CURB LESS THAN 3' IN LENGTH WILL BE ALLOWED.
  - CURB MATERIAL SHALL BE FROM THE SAME LOT OF GRANITE. VARIANCES IN COLOR AND TYPE WILL NOT BE ACCEPTED.
  - TYPICAL CURB REVEAL SHALL BE 5". VERIFY WITH CITY ENGINEER PRIOR TO CURB INSTALLATION.
  - CONC. CURB BACKFILL MAY BE OMITTED AT LOCATIONS WITH ABUTTING CONCRETE SIDEWALK.
  - CONTRACTOR SHALL USE JUMPING JACK TO COMPACT ALONG CURB AT LOCATIONS WHERE CONC. BACKFILL IS NOT USED. SELECT BASE MATERIALS FOR SIDEWALK SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF CONCRETE.



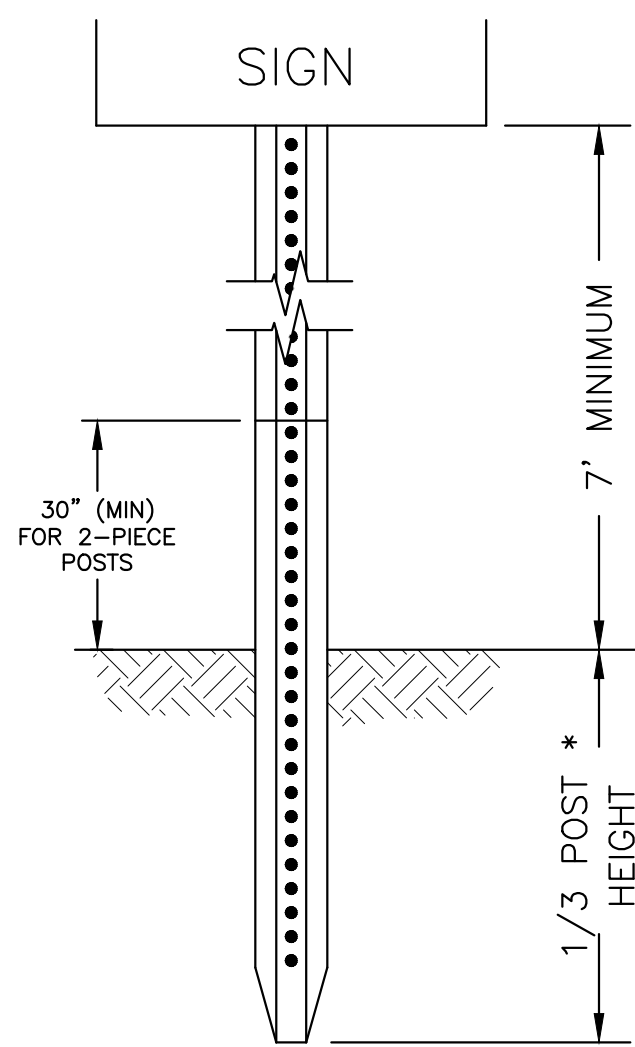
- NOTES:
- A VALVE BOX (TOP SECTION ONLY) SHALL BE PLACED OVER HAYES COVERS AT ALL LOCATIONS WHERE WSO IS IN PAVEMENT (INCL. BRICK, CONCRETE, ASPHALT, ETC). HAYES COVER SHALL BE SET 4" BELOW GATE BOX COVER. OTHERWISE, HAYES BOX SHALL BE PLACED FLUSH WITH GRADE.
  - DAMAGED CURB STOP RISERS SHALL BE REPLACED WITH NEW, INCLUDING STAINLESS STEEL ROD ASSEMBLY.
  - CURB STOPS IN GRASS AREAS SHALL BE RAISE TO GRADE.

WATER SHUT OFF  
SCALE: N.T.S



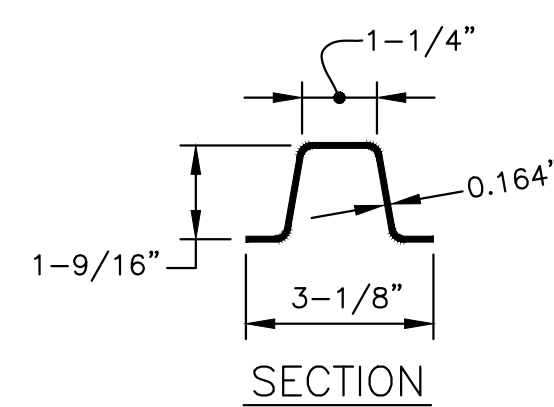
- NOTES:
- SILT SACK SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS AND INLETS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS.
  - INSTALL AND MAINTAIN PER MANUFACTURERS REQUIREMENTS.

DRAINAGE INLET PROTECTION  
SCALE: N.T.S



\*IN LEDGE, DRILL & GROUT TO 2FT. DEPTH, MINIMUM

ID NO.	LEGEND	SIZE	COLOR	QUANTITY
R8-3b		12"x18"	RED ON WHITE	STATE STREET - 5



LENGTH: AS REQUIRED

WEIGHT/LINEAR FOOT: 2.50 POUNDS (MIN.)

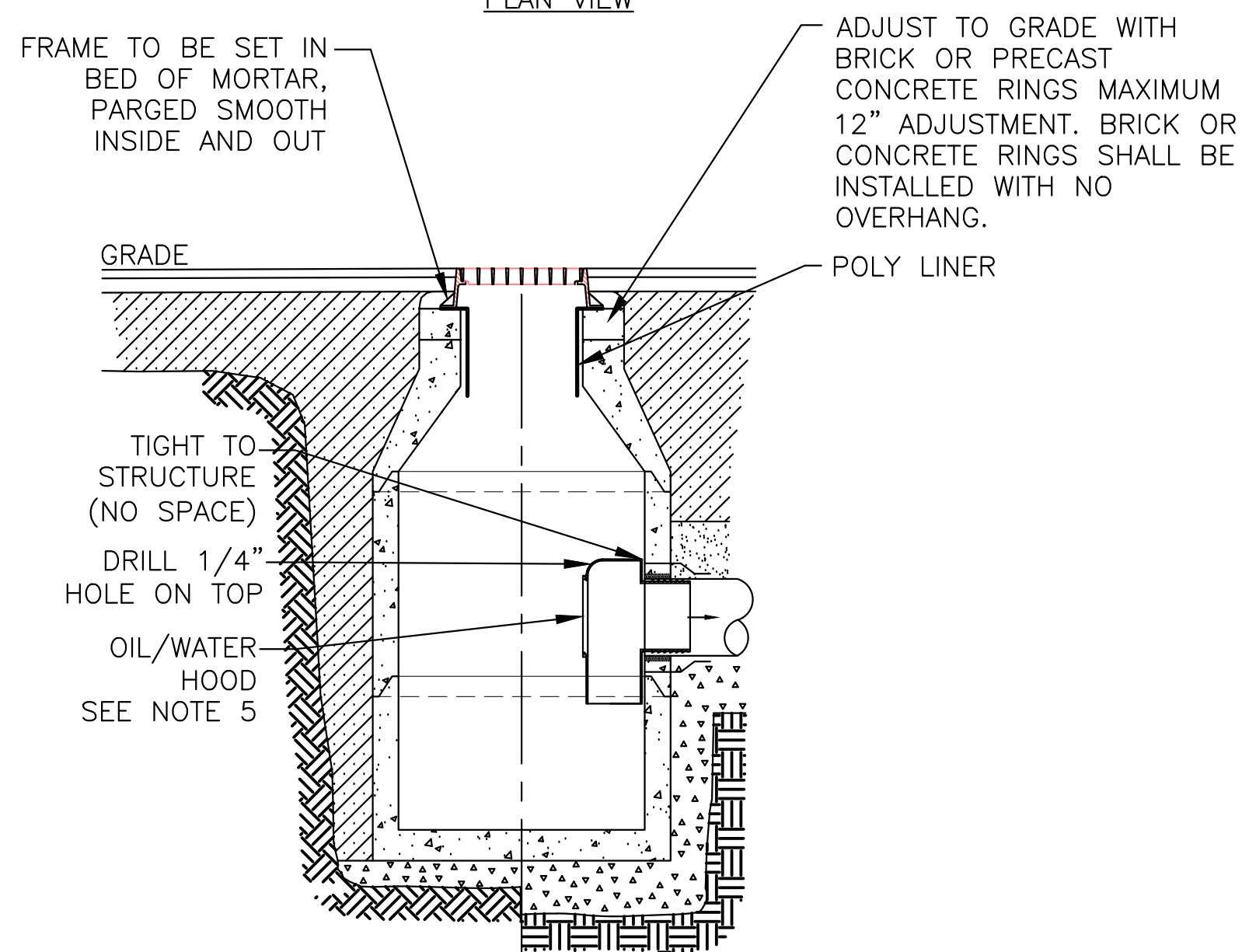
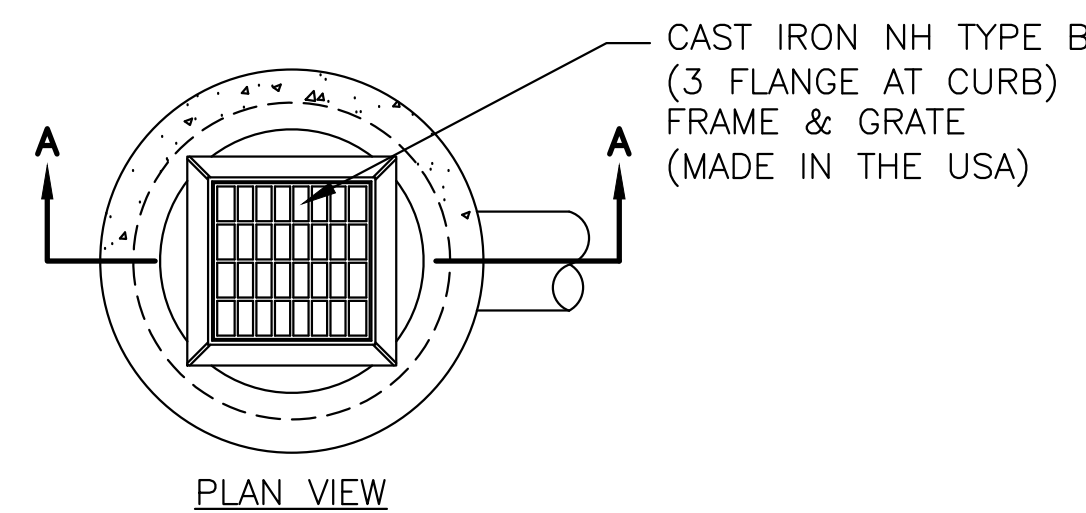
HOLES: 3/8" DIA., 1" C-C FULL LENGTH

STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-5761 (GRADE 1070 - 1080)

FINISH: SHALL BE HOT DIPPED GALVANIZED.

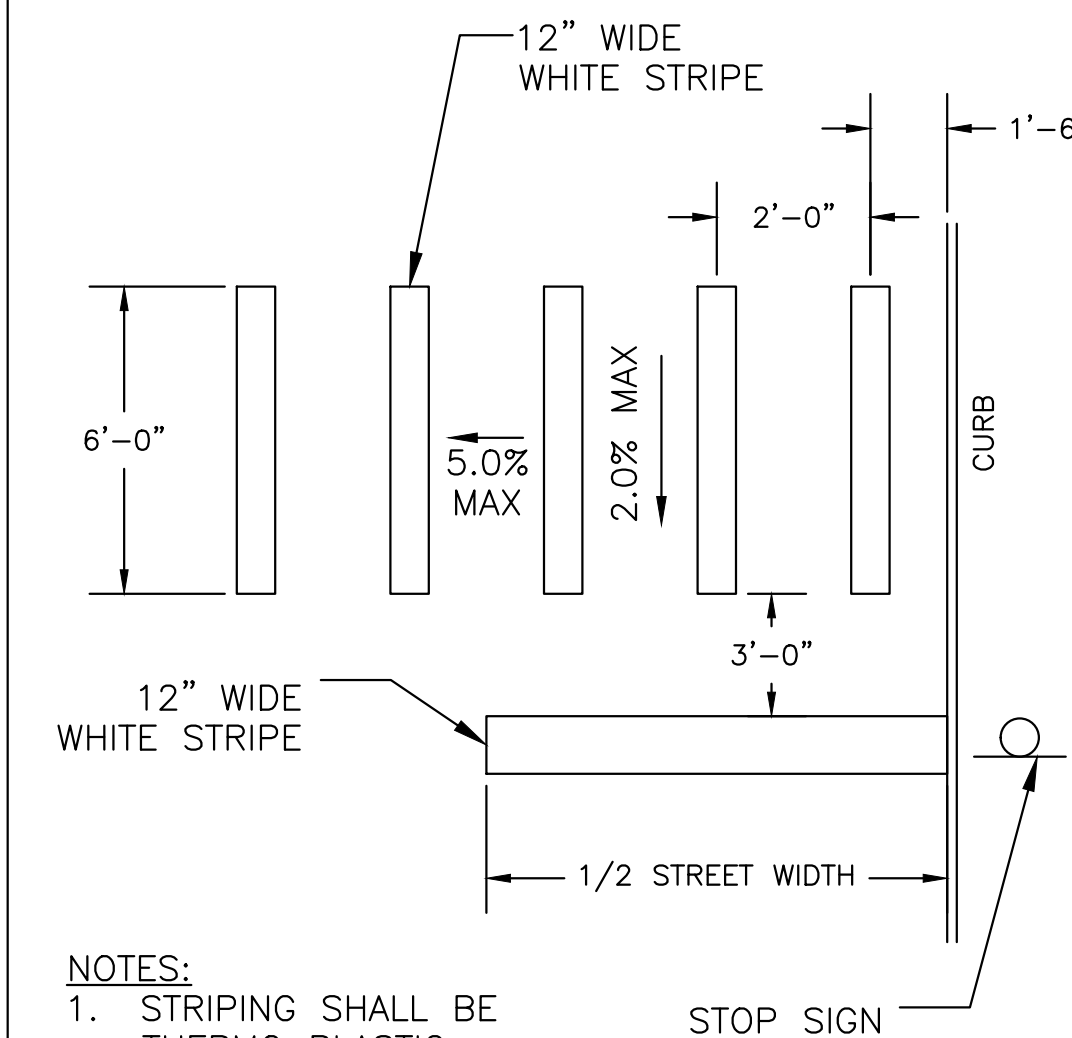
- NOTES:
- POSTS MAY BE SET OR DRIVEN.
  - WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH; AFTER INSERTING POSTS, THE HOLES SHALL BE BACK FILLED WITH SUITABLE MATERIAL IN LAYERS NOT TO EXCEED 6" IN DEPTH AND THOROUGHLY COMPACTED. CARE BEING TAKEN TO PRESERVE THE ALIGNMENT OF THE POST.
  - WHEN POSTS ARE DRIVEN, A SUITABLE DRIVING CAP SHALL BE USED AND AFTER DRIVING THE TOP OF THE POST SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSION AS THE BODY OF THE POST; BATTERED HEADS WILL NOT BE ACCEPTED. POSTS SHALL NOT BE DRIVEN WITH THE SIGN ATTACHED TO THE POST.
  - WHEN SIGN IS IN PLACE, NO PART OF THE POST SHALL EXTEND ABOVE THE SIGN.
  - WHEN POST IS TO BE INSTALLED IN A CONCRETE SIDEWALK, A 4" DIA. PVC SLEEVE SHALL BE CAST INTO THE CONCRETE AGAINST THE BACK SIDE OF THE CURB.
  - SIGNS FOR RECTANGULAR RAPID FLASHING (RRFB) BEACON SHALL BE INCLUDED IN THE PAY ITEM FOR THE RRFB AND NOT PAID SEPARATELY.

SIGNS AND POST  
SCALE: N.T.S



- CATCHBASIN NOTES:
- ALL CATCHBASINS OUTLETS SHALL HAVE 'ELIMINATOR' OIL AND FLOATING DEBRIS TRAP BY KLEANSTREAM (NO EQUAL). FOR EXIT ONLY CBs, NOT FOR PASS THROUGH CBs.

CATCHBASIN REPAIRS, POLYLINER  
and OIL/WATER HOOD  
SCALE: N.T.S



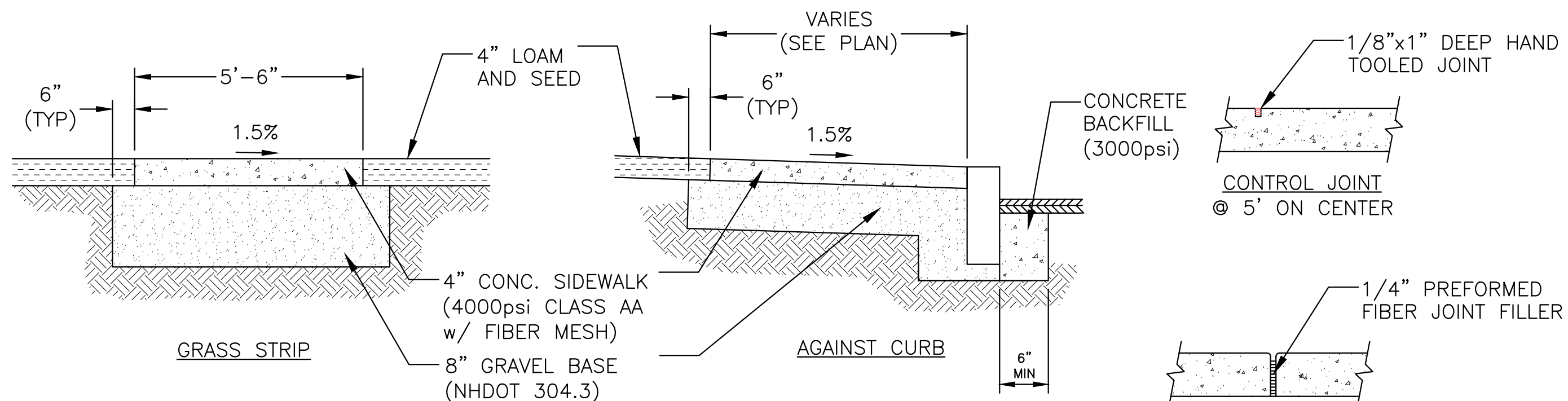
- NOTES:
- STRIPING SHALL BE THERMO PLASTIC RETROREFLECTIVE PAVEMENT MARKING PER ASTM D 4505.

STOP BAR, CROSSWALK  
AND STOP SIGN  
SCALE: N.T.S

DEPARTMENT OF  
PUBLIC WORKS  
CITY OF PORTSMOUTH, NH  
680 PEVERLY HILL ROAD  
603-427-1530

0	ISSUED FOR BID	MRB	05/11/22
NO.	REVISIONS	APP'D	DATE
PROJECT: 2022 SIDEWALK PROJECT STATE STREET			
TITLE: DETAIL SHEET			
DRAWING SCALE:	AS SHOWN	DATE:	FEBRUARY 2022
PROJECT NO.:	7241	SHEET:	C-201
APPROVED BY:	MRB		

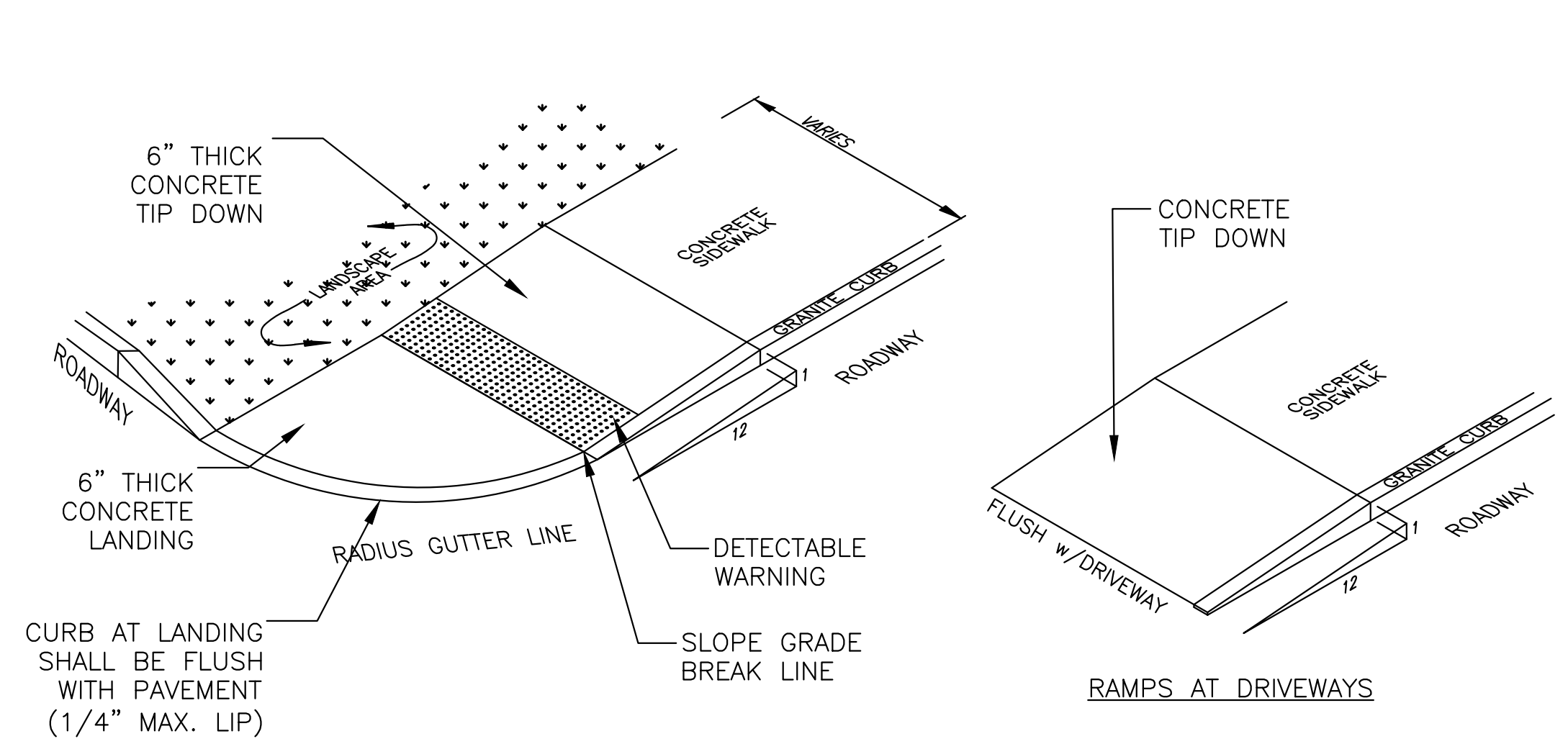




- NOTES:**
1. MEDIUM BROOM FINISH.
  2. JOINTS SHALL BE HAND TOOLED w/ 1/8" RADII.
  3. EXPANSION JOINT FIBER FILLER SHALL BE TRIMMED TO 1/4" BELOW SIDEWALK SURFACE FOR SEALANT.
  4. THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK GREATER THAN 1/4".
  5. SIDEWALK CONCRETE SHALL BE TREATED WITH SILOXANE SEALER.
  6. EXPANSION JOINT FIBER SHALL BE USED AT ALL LOCATIONS WHERE CONCRETE ABUTS STRUCTURES (BUILDINGS, RET. WALLS, POLES, ETC.).
  7. CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT SIDEWALKS WITH SLOPES COMPLIANT WITH ADA CODES.
  8. GRAVEL BASE MATERIALS SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF CONCRETE.
  9. SUB-GRADE SHALL BE COMPACTED PRIOR TO PLACEMENT OF GRAVEL BASE. GRAVEL BASE SHALL BE COMPACTED TO 95% PROCTOR.
  10. CONTRACTOR SHALL WORK WITH CITY ENGINEER TO DETERMINE T/CONC. GRADES PRIOR TO PLACEMENT OF CONCRETE.
  11. CONCRETE SHALL HAVE AIR ENTRAINMENT (5%-7%) WITH A SLUMP OF 4"-6".

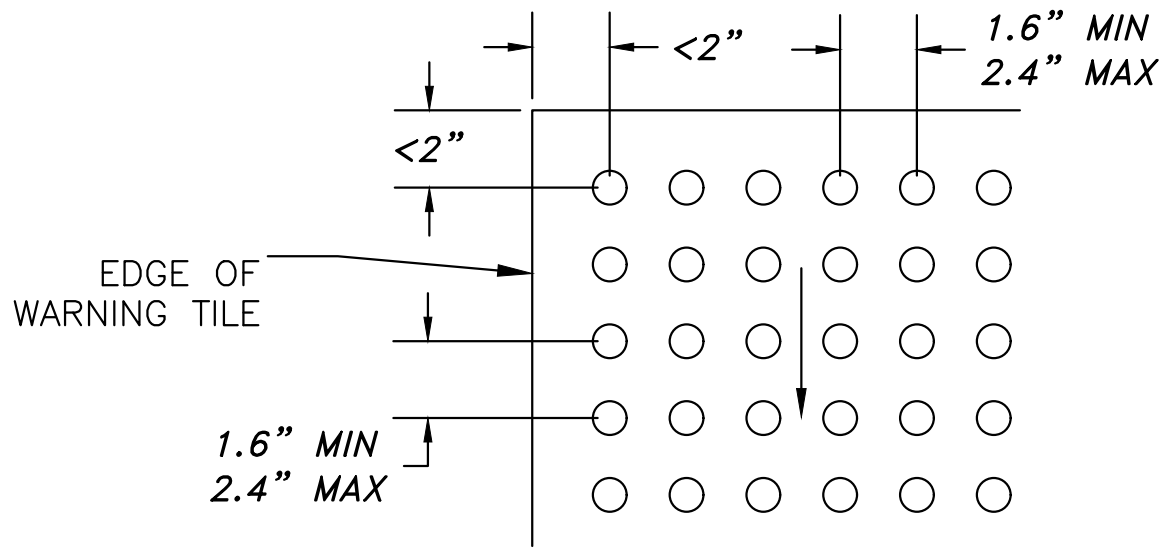


**CONCRETE SIDEWALK**  
(BASE & ADD/ALT 1)  
SCALE: N.T.S

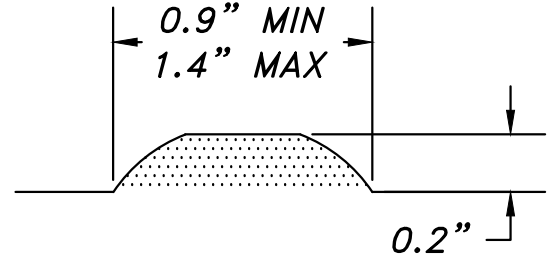


**CURB RAMP AT STREETS**

**RAMP AT DRIVEWAYS**

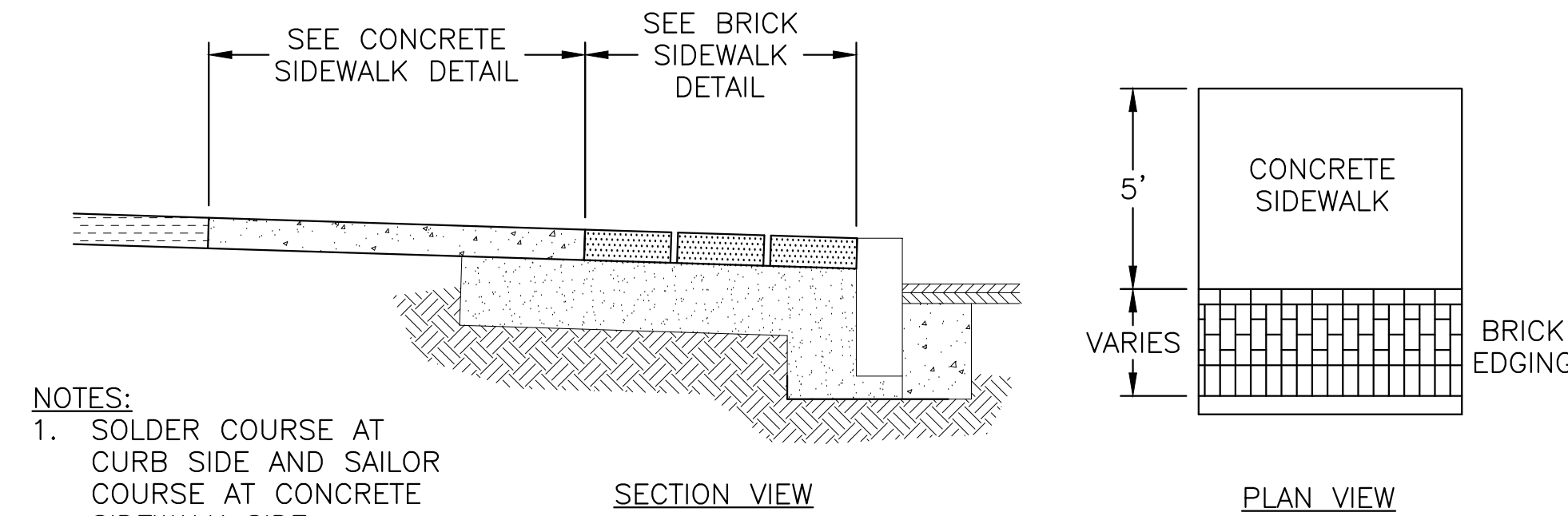


**DETECTABLE WARNING TILE**



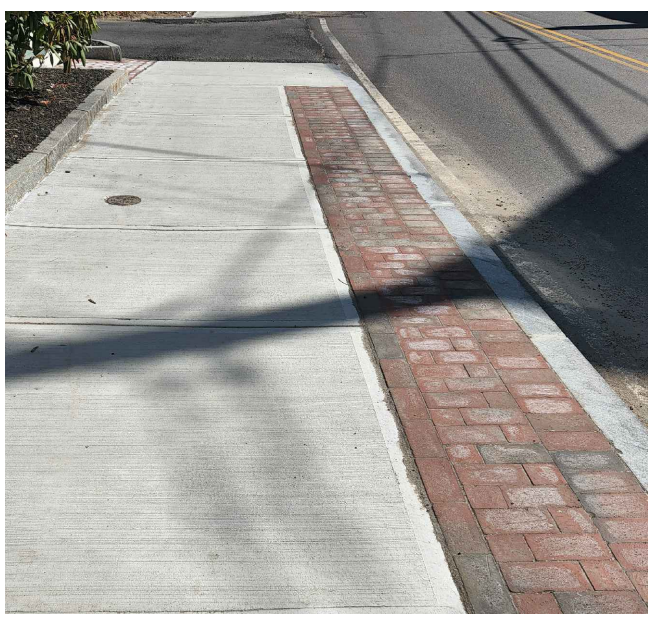
**DOMES SECTION**

- NOTES:**
1. ALL CURB RAMP AND SIDEWALKS SHALL COMPLY WITH ADA (AMERICANS WITH DISABILITIES ACT).
  2. TIP DOWNS SHALL HAVE A RUNNING SLOPE OF 7.5% (8.3% MAX.) AND CROSS SLOPE OF 1.5% (2.0% MAX.).
  3. THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK RAMP GREATER THAN 1/4".
  4. LANDINGS AND AREAS OF CHANGE IN DIRECTION SHALL HAVE A SLOPE OF 1.5% (2.0%) IN ALL DIRECTIONS.
  5. DETECTABLE WARNINGS SHALL INSTALLED SO THAT PATTERN IS IN LINE WITH DIRECTION OF TRAVEL TO THE EXTENT POSSIBLE.
  6. DETECTABLE WARNING TILES SHALL BE PLACED SO THAT THE EDGE CLOSEST TO THE CURB IS BETWEEN 6"-8" FROM CURB LINE.
  7. DETECTABLE WARNING TILE SHALL SPAN THE FULL WIDTH OF THE RAMP AND A MINIMUM OF 24" DEEP.
  8. DETECTABLE WARNING TILE SHALL BE CAST IRON, NEENAH FOUNDRY OR APPROVED EQUAL. RADIUS ADA CURB RAMP SHALL HAVE DETECTABLE WARNING TILES IN A RADIUS PATTERN USING TUFITILE OR APPROVED EQUAL.
  9. CONCRETE AT DETECTABLE WARNING RAMP SHALL BE FIBER REINFORCED WITH A MEDIUM BROOM FINISH.
  10. BASE MATERIAL FOR CONCRETE SECTIONS SHALL BE 8" THK CRUSHED GRAVEL BASE (NHDOT 304.3).

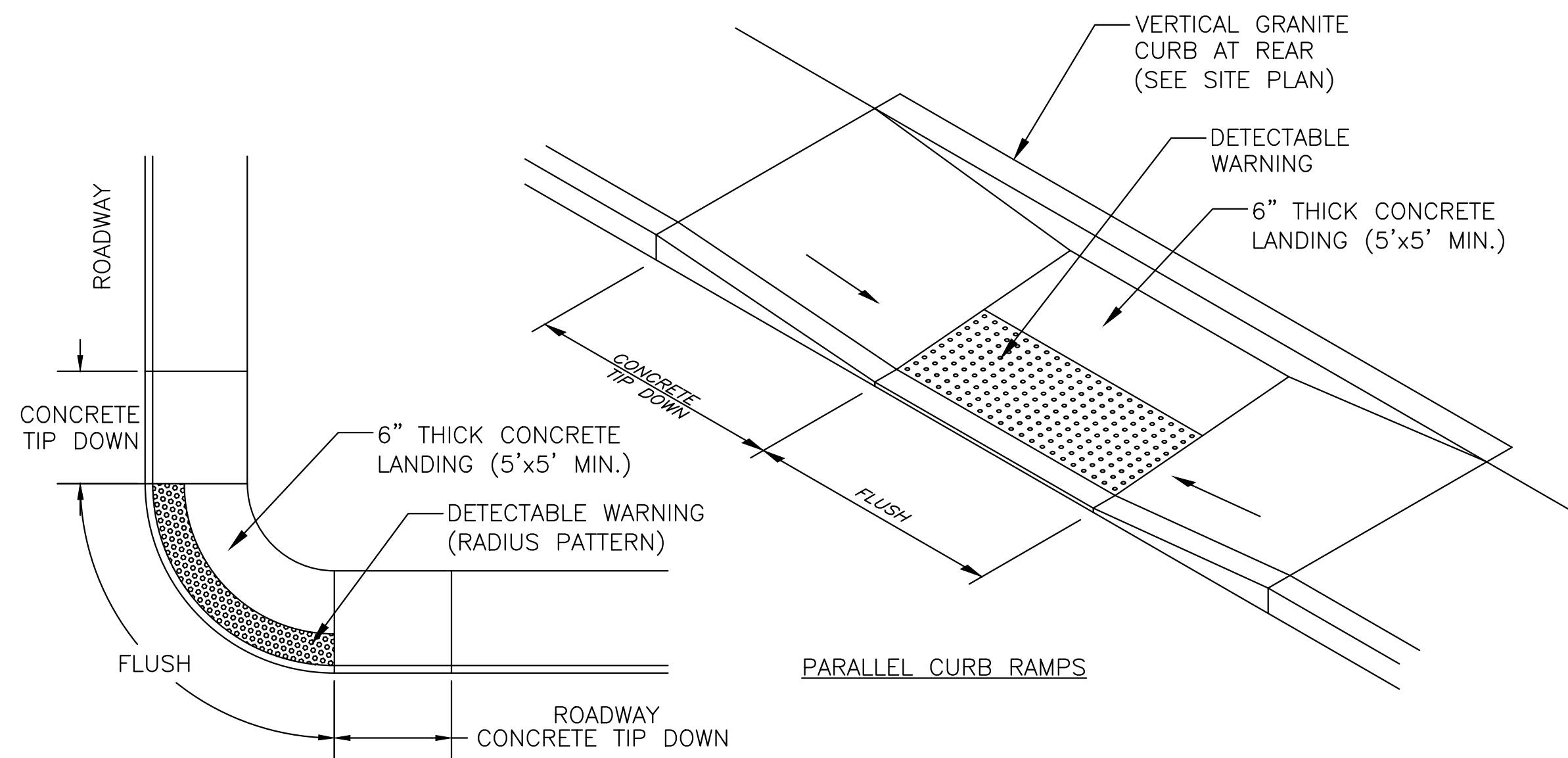


- NOTES:**
1. SOLDER COURSE AT CURB SIDE AND SAILOR COURSE AT CONCRETE SIDEWALK SIDE.
  2. RUNNING BOND PATTERN.

**CONCRETE SIDEWALK w/BRICK BORDER**  
(ADD/ALT 1)  
SCALE: N.T.S



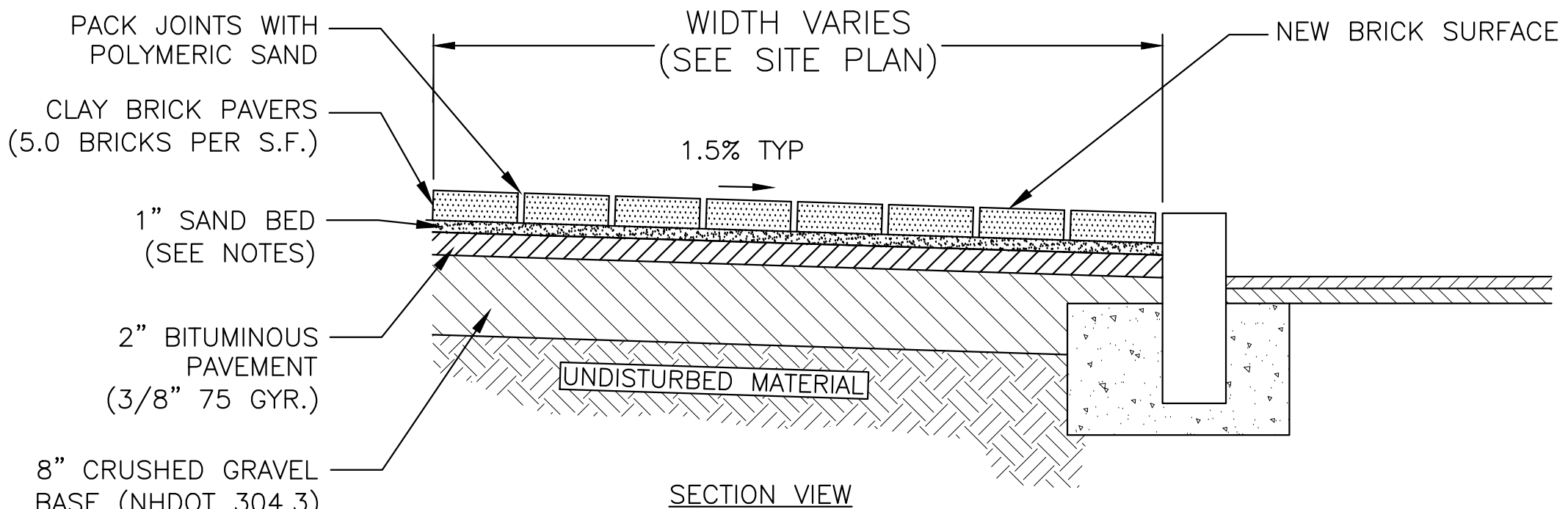
**PHOTO**



**RADI CURB RAMP**

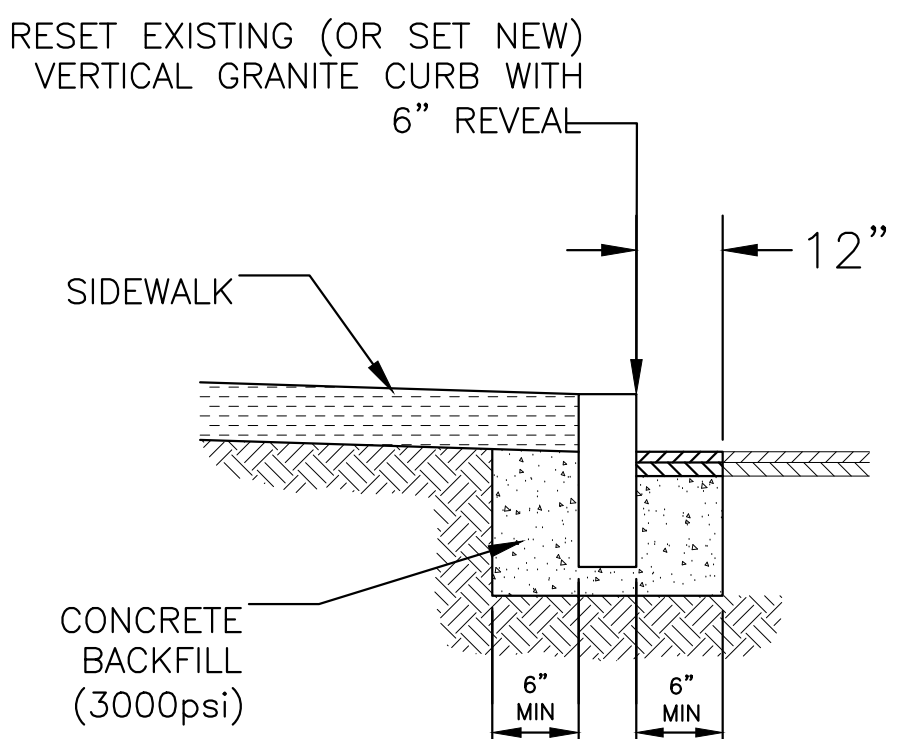
**PARALLEL CURB RAMP**

**CURB RAMP DETAILS**  
SCALE: N.T.S



- NOTES:**
1. PINEHALL PAVERS ARE REQUIRED. CONTRACTOR SHALL SUBMIT SAMPLE OF BRICKS FOR APPROVAL BY THE CITY OF PORTSMOUTH.
  2. IN AREAS WHERE BRICK DOES NOT ABUT CURBING, EDGING SHALL BE INSTALLED TO HOLD BRICKS IN PLACE.
  3. SAND BEDDING: 3 PARTS SAND MIX AND 1 PART PORTLAND CEMENT.
  4. BRICKS SHALL BE CLASS SX, TYPE 1, APPLICATION PX. BRICKS SHALL BE NO.1, WIRE CUT FOR PAVING w/COMPRESSIVE STRENGTH OF 6,000psi (MIN.). BRICKS SHALL NOT BE CORED OR HAVE FROGS AND SHALL BE STANDARD SIZE (2.25"x3.625"x7.625").
  5. GRAVEL BASE MATERIAL SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF ASPHALT PAVEMENT.
  6. SUB-GRADE SHALL BE COMPACTED PRIOR TO PLACEMENT OF GRAVEL BASE. GRAVEL BASE SHALL BE COMPACTED TO 95% PROCTOR.
  7. BRICK SHALL BE SET IN SAND/CEMENT MIX, CUT PIECES PLACED, LOCKED IN, AND COMPACTED AT THE END OF EACH DAY UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.

**BRICK SIDEWALK**  
(ADD/ALT 2)  
SCALE: N.T.S



RADIUS	MAX. LENGTH
<math><20'</math>	USE CURVED CURB
21'-25'	3'
26'-30'	4'
31'-35'	5'
36'-40'	6'
41'-50'	7'
51'-56'	8'
56'-60'	9'
OVER 60'	10'

**VERTICAL GRANITE CURB**  
SCALE: N.T.S

- NOTES:**
1. CURB TO BE SET TO LINE AND GRADE SPECIFIED.
  2. ALL RADII 20 FEET AND SMALLER SHALL USE CURVED SECTIONS.
  3. CURB AT FLUSH SECTION OF SIDEWALK SHALL BE SET TO 1.5% SLOPE. CURB AT RAMP SHALL BE SET TO 7.6%. IT IS THE CURB CONTRACTORS RESPONSIBILITY TO VERIFY SLOPES WITH A SMART LEVEL.
  4. VERTICAL GRANITE JOINTS SHALL BE MORTARED.
  5. SEE CHART FOR MAX / MIN STONE LENGTHS.
  6. RESET EXISTING CURB. ANY MISSING OR DAMAGED CURB SHALL BE REPLACED WITH MATCHING CURB SIZE (NEW).
  7. NO CURB LESS THAN 3' IN LENGTH WILL BE ALLOWED.
  8. CURB MATERIAL SHALL BE FROM THE SAME LOT OF GRANITE. VARIANCES IN COLOR AND TYPE WILL NOT BE ACCEPTED.
  9. TYPICAL CURB REVEAL SHALL BE 5". VERIFY WITH CITY ENGINEER PRIOR TO CURB INSTALLATION.
  10. CONC. CURB BACKFILL MAY BE OMITTED AT LOCATIONS WITH ABUTTING CONCRETE SIDEWALK.
  11. CONTRACTOR SHALL USE JUMPING JACK TO COMPACT ALONG CURB AT LOCATIONS WHERE CONC. BACKFILL IS NOT USED. SELECT BASE MATERIALS FOR SIDEWALK SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF CONCRETE.

**DEPARTMENT OF PUBLIC WORKS**  
CITY OF PORTSMOUTH, NH  
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