

**2023 ROADWAY IMPROVEMENT PROJECT****Keewaydin Drive
SALEM, NH****ADDENDUM No. 1****January 17, 2023**

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2023 Keewaydin Roadway Improvement Project. The items set forth herein, whether of omission, addition, substitution or clarification, are all to be included in and shall form part of the proposed work and Bids submitted to the Town of Salem, New Hampshire. Inclusion of this Addendum shall be acknowledged by inserting its number in the space provided in the Bid Proposal form (Section 00301A). Failure to acknowledge any and all addenda in the above specified Bid Proposal form may be cause for rejection of the bid by the Owner on the grounds that it is not responsive.

ADDEDNDUM No. 1

Bidders are advised the following clarifications and changes are hereby incorporated into the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. **Bid Opening Date** – is hereby revised to **January 31, 2023 at 11:00 AM**

The bid opening date has been revised to permit perspective bidders additional time to coordinate quotes from subcontractors and vendors due to corrections on the bid sheets.

2. **Insert** the attached Contract Drawings in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of the Contract Drawings.

The revised Contract Drawings provide minor additions and clarifications on items. Each item is clouded and noted as revision No.1. For convenience the entire plan set is being reissued.

3. **Insert** the attached Section 00301A (Bid) in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of Section 00301A.

The revised document provides for inclusion of missing items inadvertently omitted. The revision further adjusts quantity and units for several items.



4. **Insert** the attached Quantity Breakdown by Street and Roadway Quantity Summary in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original versions located in Appendix B.

The revised documents provide for inclusion of missing items inadvertently omitted. The revision further makes adjustments in quantity for several items.

5. **Reference to NHDOT Special Attention** for Asphalt Cement Adjustment is hereby deleted from the Table of Contents and Notice to Special Attentions. This Contract provides for Asphalt Cement Adjustment through Special Provision item number 1010.2.
6. **Insert** the attached NHDOT Special Attentions into the CONTRACT DOCUMENTS AND SPECIFICATIONS.

The attached documents were inadvertently omitted from the Contract Documents. Special Attentions include 2010 Notice for Supplemental Specifications, 2010 Notice for Errata Sheet, and Qualified Product List.

7. See attached Pre-Bid meeting agenda from January 11, 2023 prebid meeting.

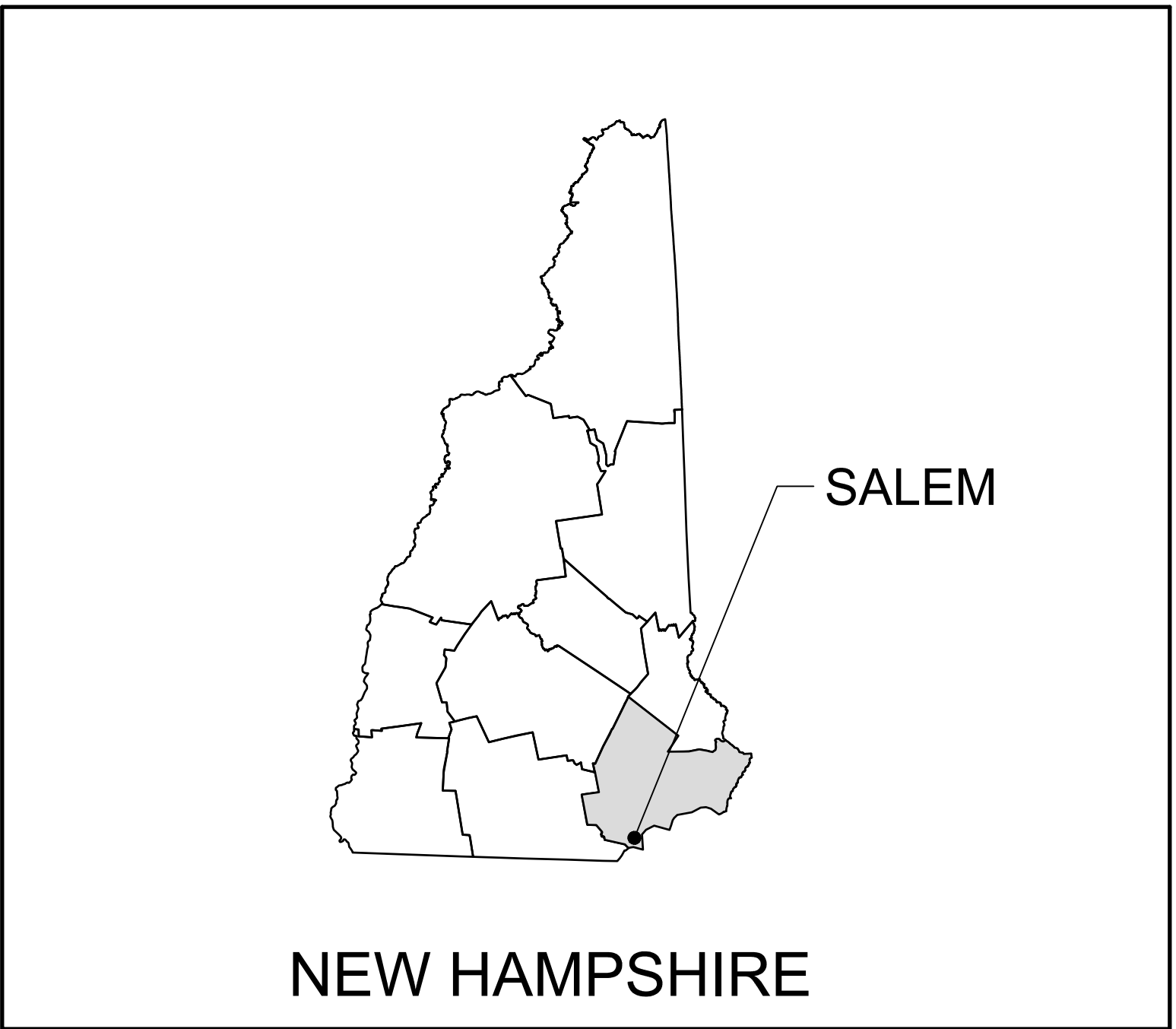
The attached agenda considers two separate projects. The PreBid meeting for the projects was held simultaneously given similarity of work type.

Pre-Bid Questions/Answers: NO QUESTIONS ASKED

****END OF ADDENDUM NO. 1****

TOWN OF SALEM

2023 ROADWAY IMPROVEMENT PROJECT



NEW HAMPSHIRE

LOCATION MAP

BID DOCUMENTS DECEMBER 2022

KEEWAYDIN DRIVE, SALEM NH
ROCKINGHAM COUNTY
SALEM, NEW HAMPSHIRE



PREPARED FOR:

TOWN OF SALEM
33 GEREMONTY DRIVE
NEW HAMPSHIRE
(603)890-2033

[HTTPS://WWW.TOWNOFSALEMNH.ORG](https://www.townofsalemn nh.org)



THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. THE TOWN OF SALEM, NH MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. 72 HOURS PRIOR TO ANY EXCAVATION ON SITE. THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-888-DIG-SAFE.

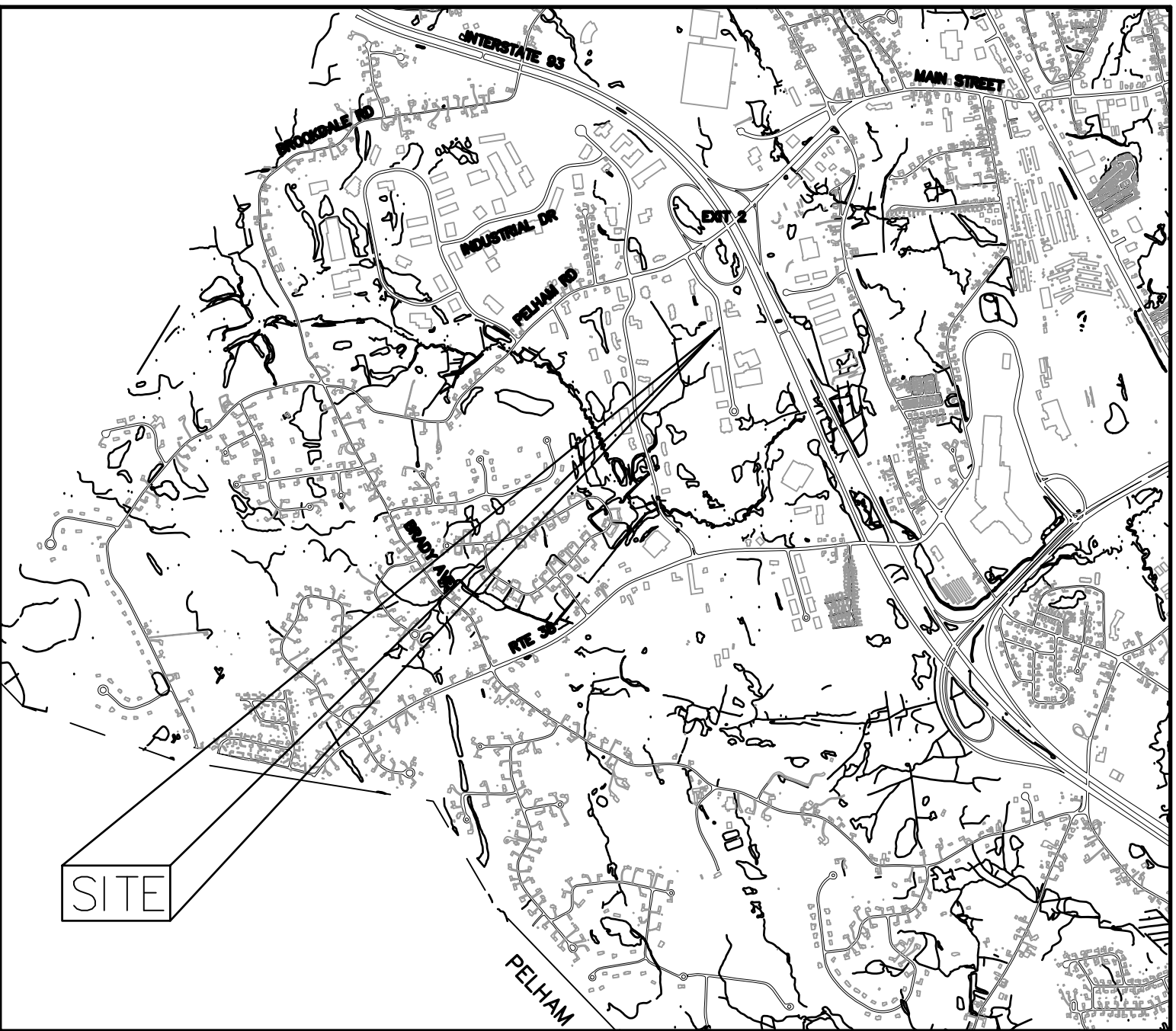
PREPARED BY:



McFarland Johnson

53 REGIONAL DRIVE
CONCORD, NEW HAMPSHIRE 03301

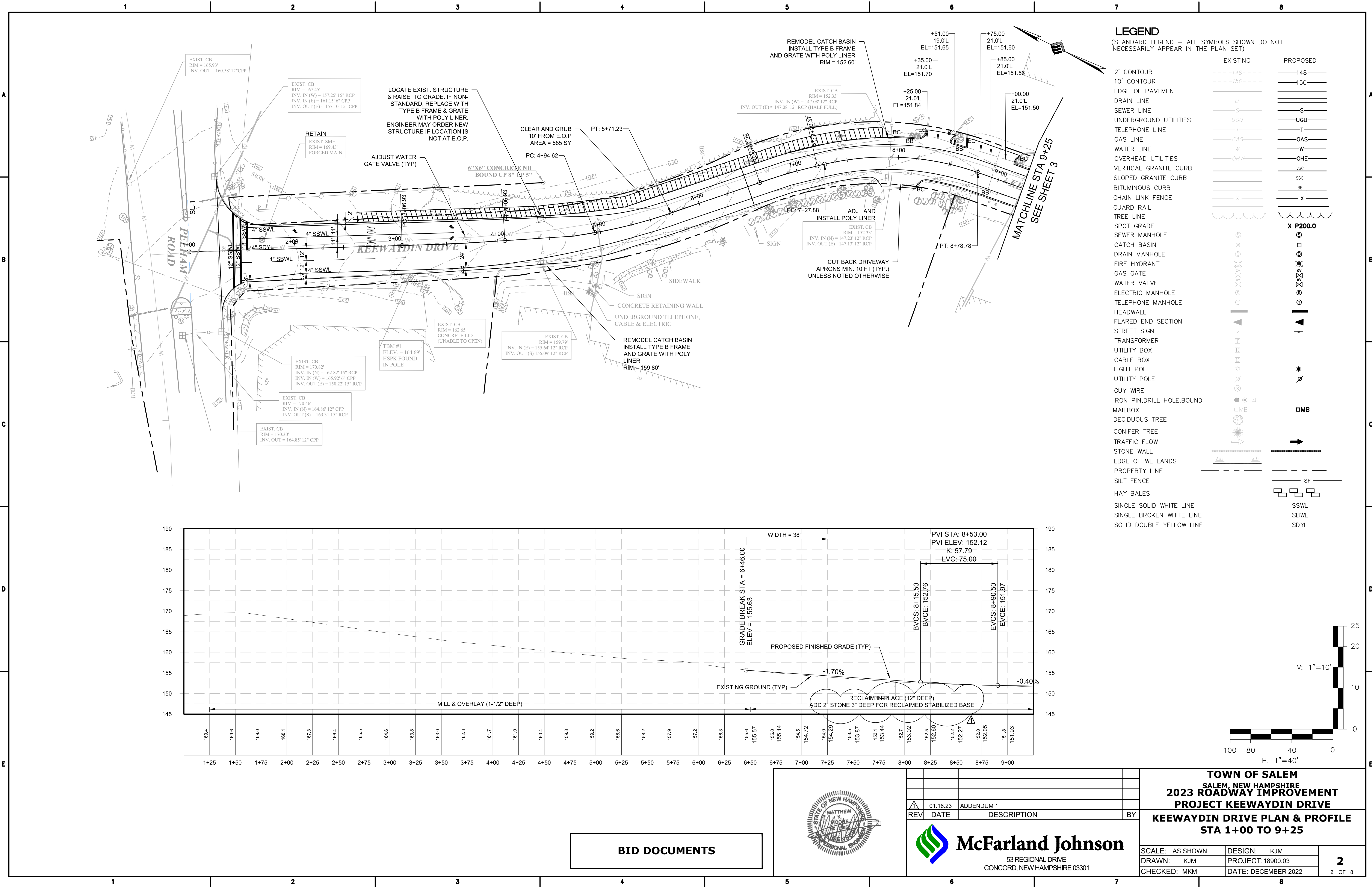
MJ PROJECT NO.: 18900.03



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
1	Cover
2-4	Plan & Profile
5-8	Civil Details

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



LEGEND			(STANDARD LEGEND - ALL SYMBOLS SHOWN DO NOT NECESSARILY APPEAR IN THE PLAN SET)	
		EXISTING	PROPOSED	
2' CONTOUR		---	---	148
10' CONTOUR		---	---	150
EDGE OF PAVEMENT		---	---	
DRAIN LINE		---	---	
SEWER LINE		---	---	
UNDERGROUND UTILITIES		---	---	
TELEPHONE LINE		---	---	
GAS LINE		---	---	
WATER LINE		---	---	
OVERHEAD UTILITIES		---	---	
VERTICAL GRANITE CURB		---	---	
SLOPED GRANITE CURB		---	---	
BITUMINOUS CURB		---	---	
CHAIN LINK FENCE		---	---	
GUARD RAIL		---	---	
TREE LINE		---	---	
SPOT GRADE		---	---	
SEWER MANHOLE		---	---	
CATCH BASIN		---	---	
DRAIN MANHOLE		---	---	
FIRE HYDRANT		---	---	
GAS GATE		---	---	
WATER VALVE		---	---	
ELECTRIC MANHOLE		---	---	
TELEPHONE MANHOLE		---	---	
HEADWALL		---	---	
FLARED END SECTION		---	---	
STREET SIGN		---	---	
TRANSFORMER		---	---	
UTILITY BOX		---	---	
CABLE BOX		---	---	
LIGHT POLE		---	---	
UTILITY POLE		---	---	
GUY WIRE		---	---	
IRON PIN, DRILL HOLE, BOUND		---	---	
MAILBOX		---	---	
DECIDUOUS TREE		---	---	
CONIFER TREE		---	---	
TRAFFIC FLOW		---	---	
STONE WALL		---	---	
EDGE OF WETLANDS		---	---	
PROPERTY LINE		---	---	
SILT FENCE		---	---	
HAY BALES		---	---	
SINGLE SOLID WHITE LINE		---	---	
SINGLE BROKEN WHITE LINE		---	---	
SOLID DOUBLE YELLOW LINE		---	---	

TOWN OF SALEM

SALEM, NEW HAMPSHIRE

2023 ROADWAY IMPROVEMENT

PROJECT KEEWAYDIN DRIVE

KEEWAYDIN DRIVE PLAN & PROFILE

STA 1+00 TO 9+25

SCALE: AS SHOWN

DESIGN: KJM

DRAWN: KJM

CHECKED: MKM

2

2 OF 8

BID DOCUMENTS



McFarland Johnson

53 REGIONAL DRIVE

CONCORD, NEW HAMPSHIRE 03301

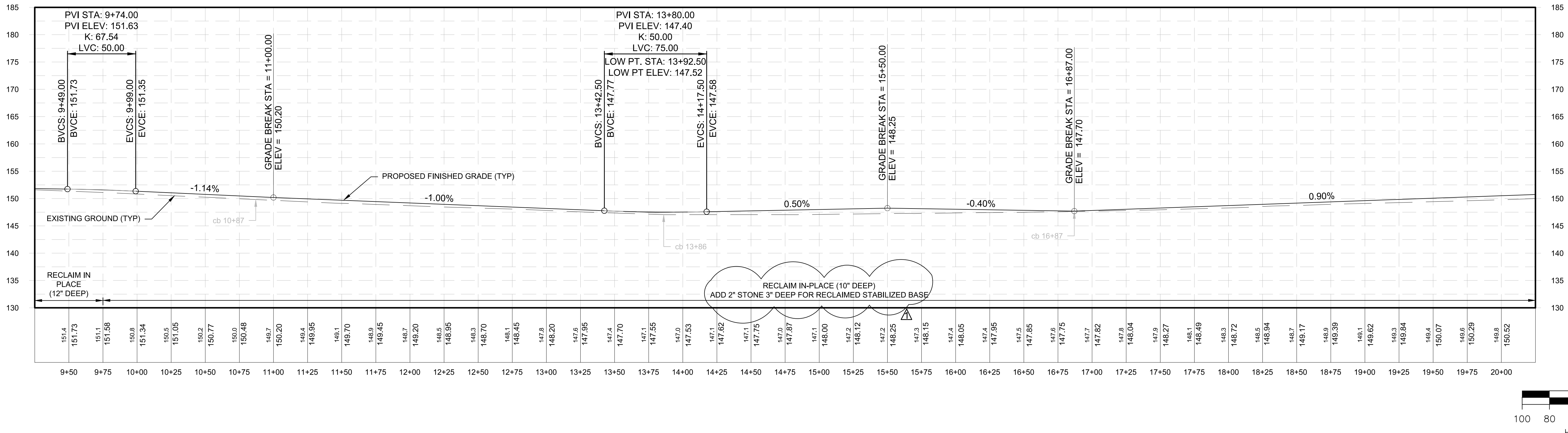
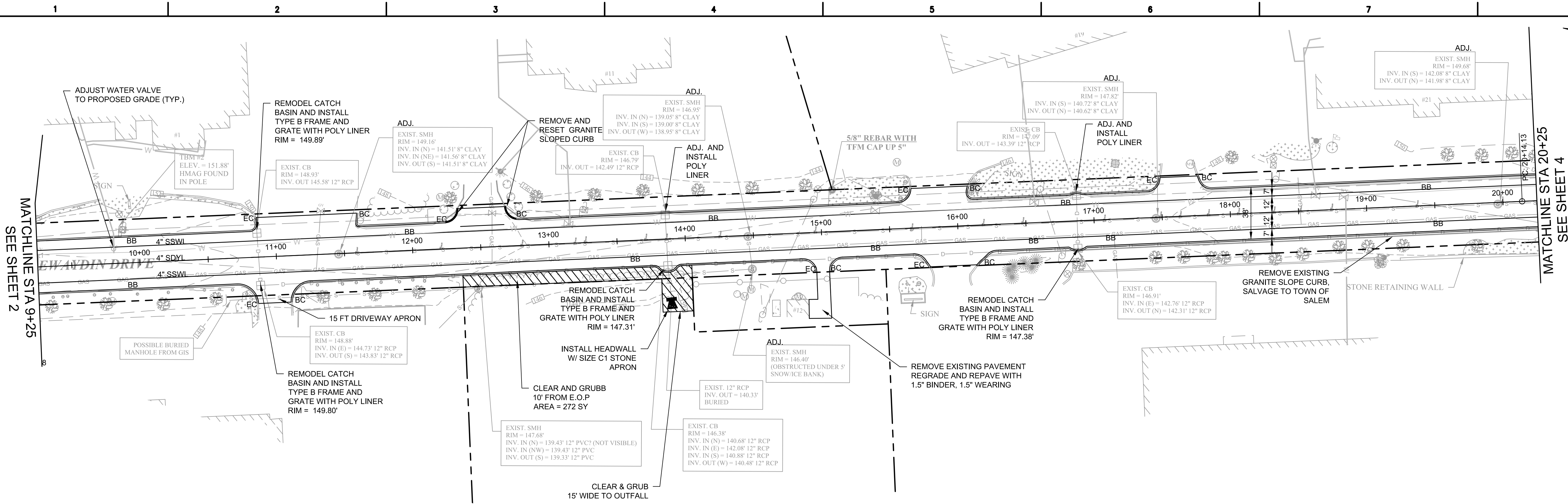
01.16.23

ADDENDUM 1


DATE

DESCRIPTION

BY




BID DOCUMENTS



STATE OF NEW HAMPSHIRE
MATTHEW K. MOORE
GOVERNOR

REV	01.16.23	ADDENDUM 1	BY
	DATE	DESCRIPTION	



McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NEW HAMPSHIRE 03301

**TOWN OF SALEM
SALEM, NEW HAMPSHIRE
2023 ROADWAY IMPROVEMENT
PROJECT KEEWAYDIN DRIVE
KEEWAYDIN DRIVE PLAN & PROFILE
STA 9+25 TO 20+25**

SCALE: AS SHOWN	DESIGN: KJM	3 3 OF 8
DRAWN: KJM	PROJECT: 18900.03	
CHECKED: MKM	DATE: DECEMBER 2022	

NA18900.03 SALEM - 2023 PAVING DRAWINGS SHEET FILES\18900.03 PLAN & PROFILE CONTRACT 119WS

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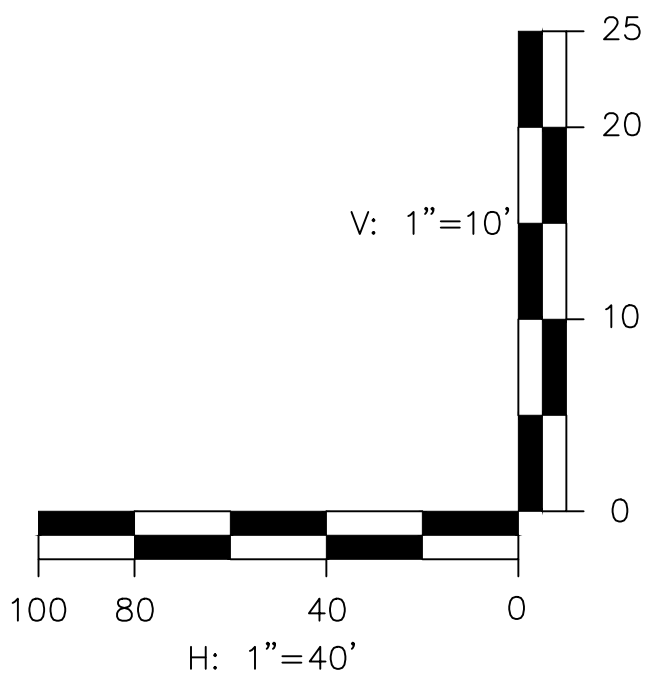
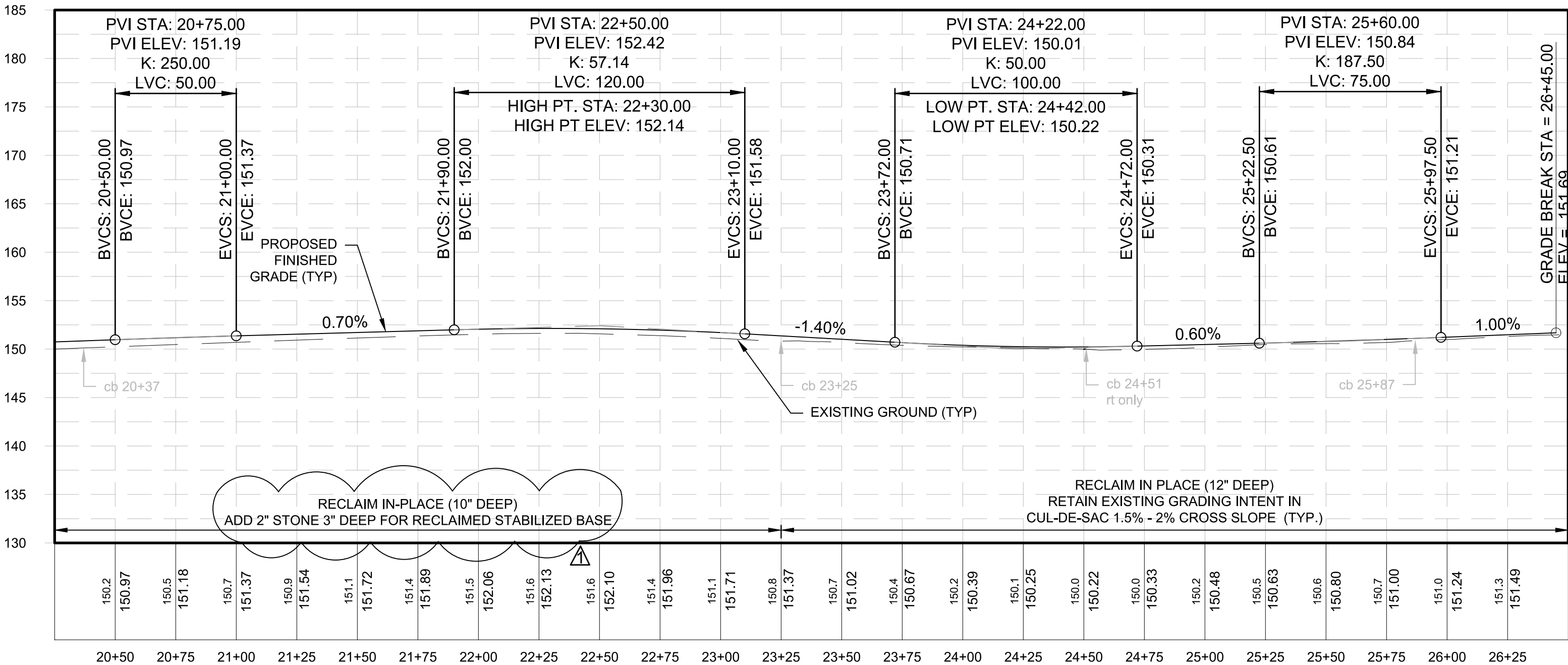
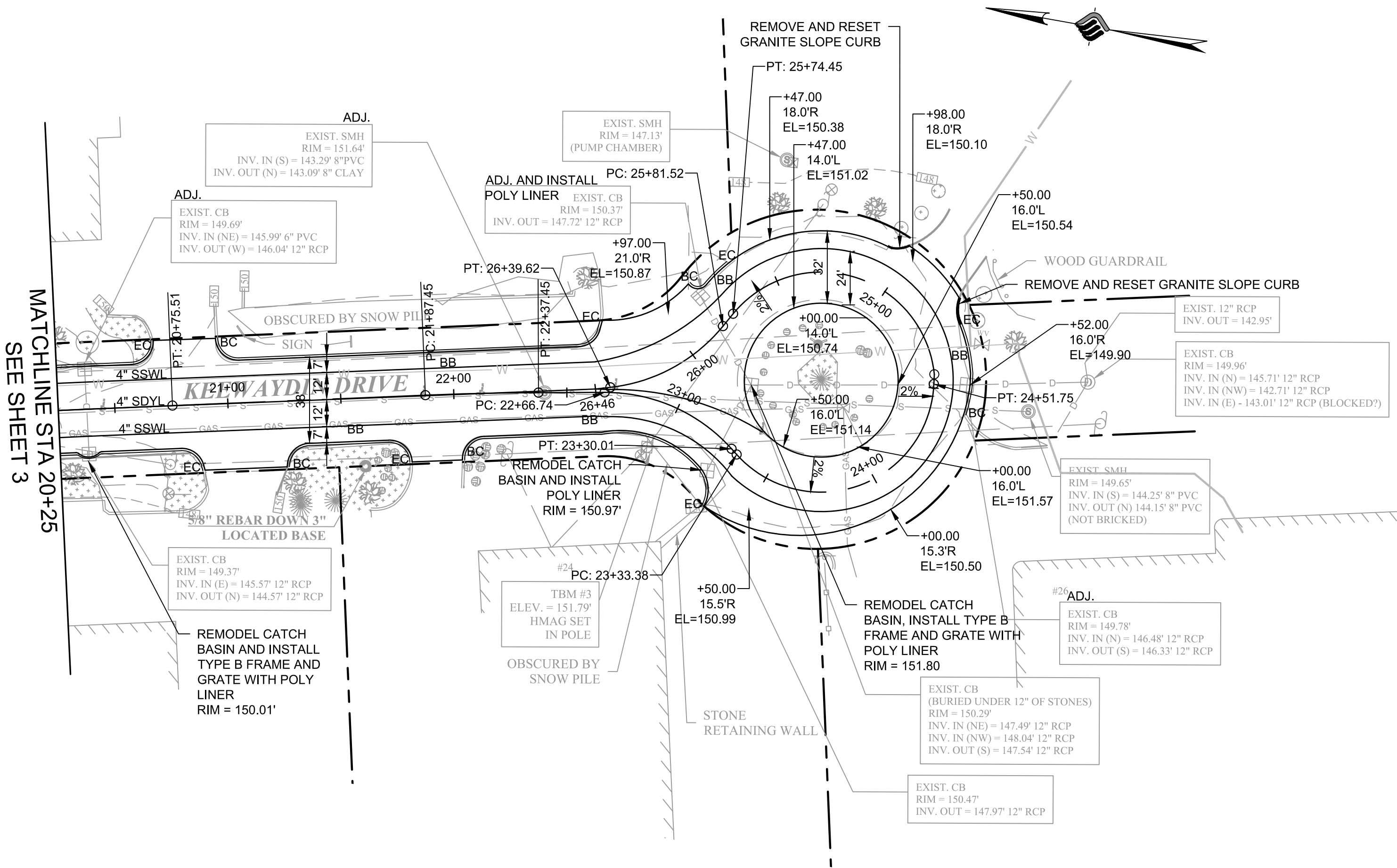
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KEEWAYDIN DRIVE
GENERAL CONSTRUCTION NOTES

- THE INTENT OF THIS PLAN IS TO PROVIDE ROADWAY IMPROVEMENTS FOR KEEWAYDIN DRIVE AS PART OF THE 2023 ROADWAY IMPROVEMENT PROJECT. THE WORK WILL INCLUDE RECLAMATION ACTIVITIES, FINE GRADING, AND REPAVE OF THE ROADWAY. SUPPLEMENTAL DRAINAGE IMPROVEMENTS AND SHOULDER WORK WILL ALSO BE INCORPORATED INTO THE PROJECT.
- REFER TO SHEET 8 FOR GENERAL PROJECT NOTES.
- RECLAIM NOTE: RECLAIM THE FULL WIDTH OF THE EXISTING ROADWAY FOR KEEWAYDIN DRIVE AS SHOWN TO A DEPTH OF 8-INCHES OR 12-INCHES AS SHOWN ON THE PROFILE. PROFILE ADJUSTMENTS SHALL BE MADE AS NOTED IN THE PROFILE.
- GRADING INTENT: IT IS THE INTENT OF THIS PLAN FOR THE CONTRACTOR TO;
 - SHAPE THE ROADWAY GRAVELS SUCH THAT MINIMAL IMPACTS TO DRIVEWAYS OCCUR.
 - THE CONTRACTOR SHALL PROFILE THE ROAD WITH GRADE STAKES ACCORDING TO THE DESIGN. MODIFICATIONS TO THE PROFILE MAY BE NECESSARY UPON FIELD VERIFICATION OF THE DESIGN GRADES. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR ANY MINOR ADJUSTMENTS.
 - IT IS THE INTENT OF THIS PLAN TO HAVE A BALANCED SITE WITH NO EXPORT OF MATERIAL IF POSSIBLE
- LANDSCAPE NOTE:** ALL DISTURBED LANDSCAPE AREAS ADJACENT TO THE WORK (INCLUDING LANDSCAPE AREAS AROUND MAILBOXES) SHALL BE RESTORED AND CONSIDERED PART OF ITEM 912. LOAM AND SEED (ITEM 646.) SHALL BE RE-ESTABLISHED TO WORK LIMIT. DISTURBED BARK MULCH AREAS SHALL BE RESTORED AND PAID AS ITEM 646.512 UNDERLAY MULCH WITH FABRIC IF PRESENT IN EXISTING CONDITION (INCIDENTAL).
- DRIVEWAY NOTE:** IT IS THE INTENT OF THIS PLAN TO PROVIDE RECONSTRUCTED DRIVEWAY APRONS 10- FEET (OR AS OTHERWISE NOTED) FROM THE NEW EDGE OF PAVEMENT, BUT WILL BE REDUCED TO THE GREATEST EXTENT POSSIBLE. IN SOME CASES DRIVEWAY APRONS MAY NEED TO EXTEND FURTHER TO OBTAIN POSITIVE DRAINAGE AND/OR BETTER TRANSITION GRADES. SEE DRIVEWAY DETAILS ON SHEET 5.
 - DRIVEWAYS IN FILL AREAS SHALL BE SHIMMED WITH GRAVEL TO OBTAIN POSITIVE GRADE TO STREET.
- NECESSARY COMMON EXCAVATION, BACKFILL, AND GRADING ADJACENT TO HEADWALL INSTALLATION SHALL BE SUBSIDIARY TO ITEM UNLESS SPECIFICALLY NOTED AS A PAY ITEM.
- RIGHT OF WAY SHOWN IS APPROXIMATE. NO FORMAL RIGHT OF WAY SURVEY WAS CONDUCTED FOR THIS PROJECT.



BID DOCUMENTS



TOWN OF SALEM SALEM, NEW HAMPSHIRE 2023 ROADWAY IMPROVEMENT PROJECT KEEWAYDIN DRIVE KEEWAYDIN DRIVE PLAN & PROFILE STA 20+25 TO 26+50		
SCALE: AS SHOWN	DESIGN: KJM	4 4 OF 8
DRAWN: KJM	PROJECT: 18900.03	
CHECKED: MKM	DATE: DECEMBER 2022	

MA18900.03 SALEM - 2023 PAVING DRAWINGS SHEET FILES\18900.03 PLAN & PROFILE-CONTRACT 119WS

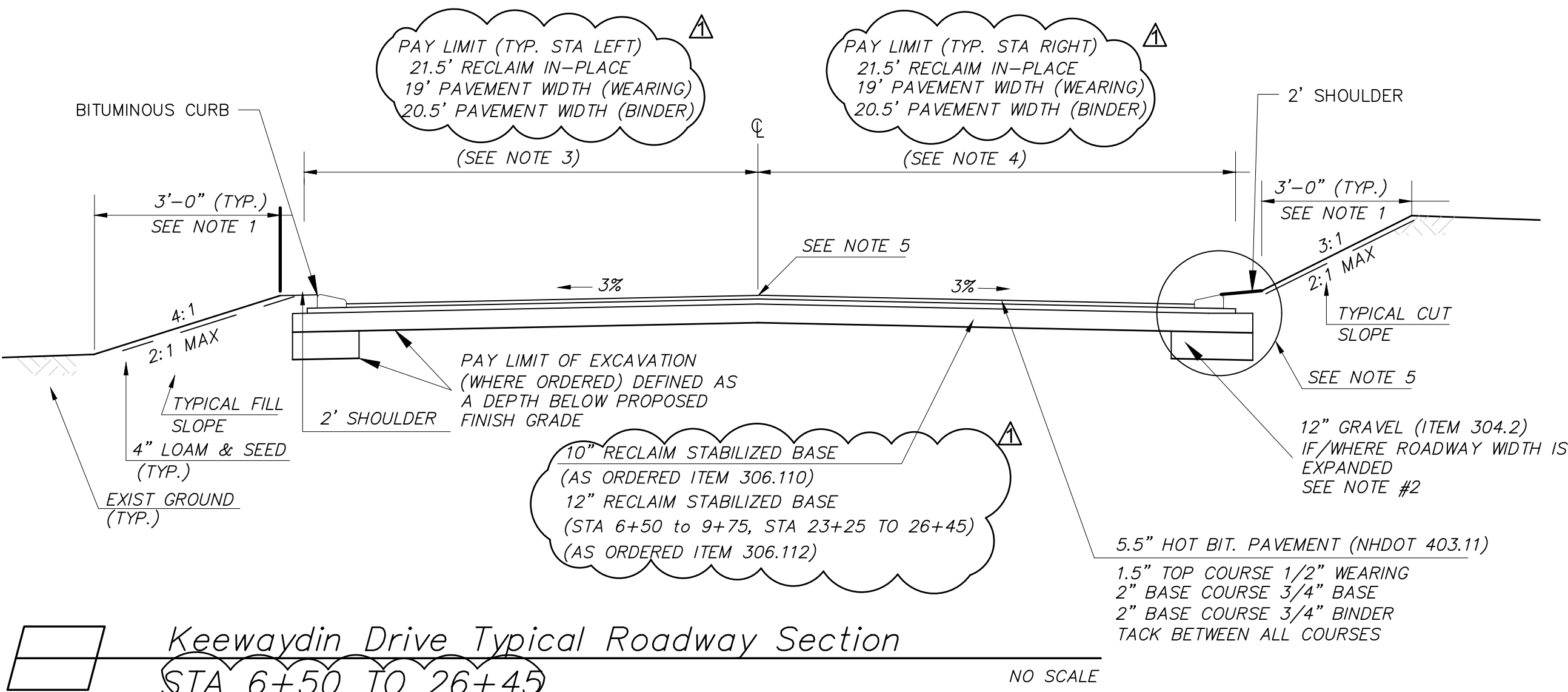
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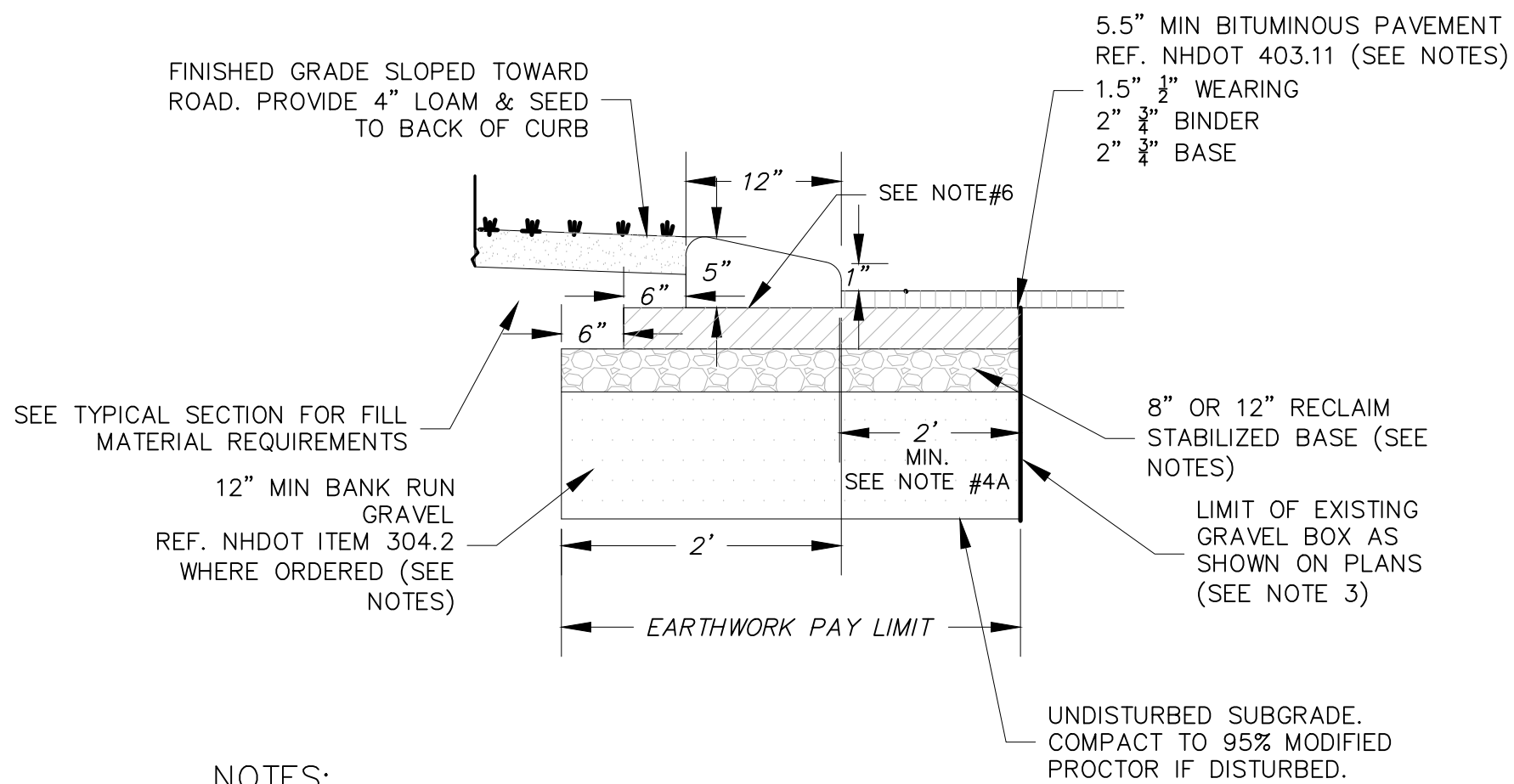
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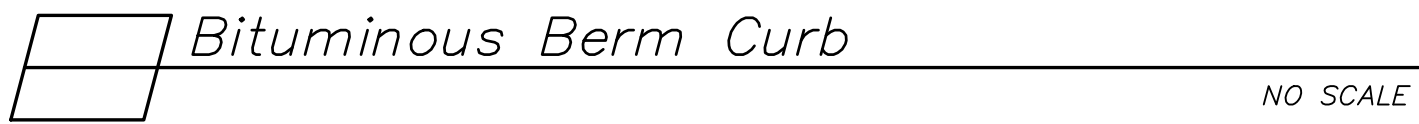
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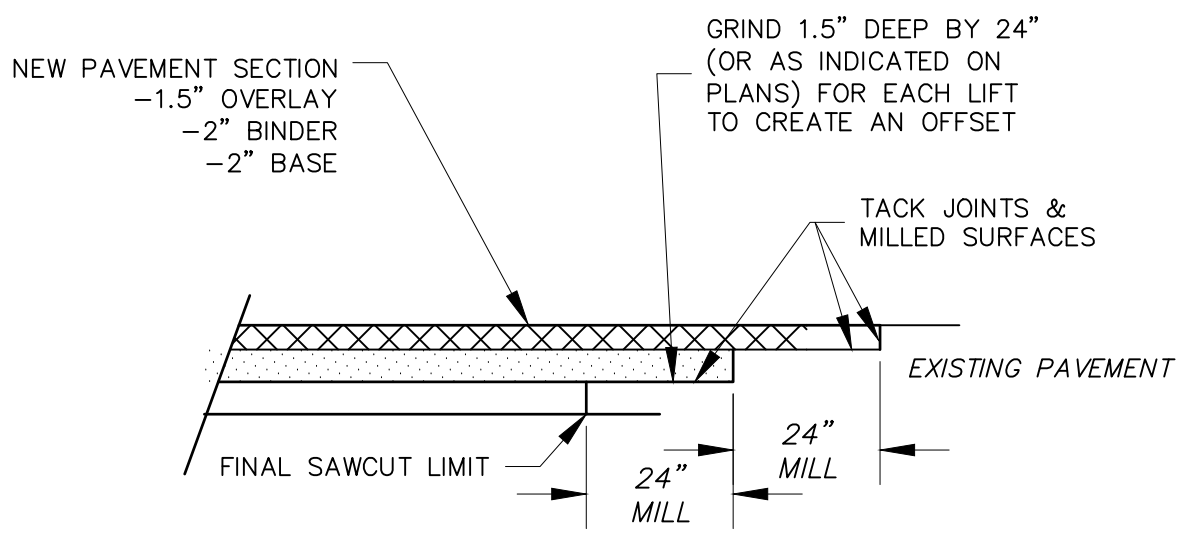
- TYPICAL ROADWAY SECTION NOTES:
1. THE CONTRACTOR SHALL LIMIT DISTURBANCE TO 3- FEET FROM THE PROPOSED EDGE OF PAVEMENT UNLESS OTHERWISE SPECIFIED ON THESE PLANS. ADDITIONAL DISTURBANCE MUST FIRST BE COORDINATED WITH THE ENGINEER FOR APPROVAL.
 2. ON RECLAIM PROJECTS WHERE THERE IS A ROADWAY WIDTH INCREASE DEPTH OF EXCAVATION SHALL BE 12" TO ALLOW FOR 8" CRUSHED GRAVEL AND 4" PAVEMENT. MINIMUM EXCAVATION WIDTH SHALL BE 2- FEET.
 3. STRUCTURAL FILL (ITEM 508) SHALL BE PLACED AND COMPACTED IN AREAS OF LEDGE REMOVAL BELOW THE GRAVEL BOX.
 4. RECLAIMED ASPHALT PRODUCT SHALL EXTEND 1FT BEYOND EDGE OF PAVEMENT AND SHALL BE LEVEL WITH BINDER. INCIDENTAL TO GRADING AND RECLAIM ACTIVITIES.
 5. IN CONDITIONS WHERE ADDITIONAL RECLAIMED MATERIAL IS REQUIRED TO ACCOMMODATE A WIDER GRAVEL SECTION THEN THE ADDITIONAL WIDTH SHALL BE PAID UNDER ITEM 203.6 WHEN AVAILABLE AT THE PROJECT SITE OR WHEN AVAILABLE BY THE OWNER OFF SITE. HAULING AND HANDLING SHALL BE INCIDENTAL. WHEN ADDITIONAL RECLAIM IS PROVIDED BY THE CONTRACTOR IT SHALL BE PAID AS ITEM 304.4.
 6. ALL SEAMS AND JOINTS SHALL BE RAKED AND LUTED PRIOR TO COMPACTION AND ROLLING.
 7. MILL AND OVERLAY 1.5" DEEP STA. 1+25 TO 6+50. THE INTENT IS TO TRUE THE CROSS SLOPE. REFERENCE ROADSIDE / SHOULDER IMPACTS, IF ANY.
 8. CUL-DE-SAC STA 22+50 TO 26+45. THE INTENT IS TO GRADE THE CUL-DE-SAC TO HAVE NO IMPACT ON EXISTING DRIVEWAY ELEVATIONS. SEE PROFILE. WITH OF THE CUL-DE-SAC IS 32', HOWEVER THERE ARE VARIATIONS WHERE BITUMINOUS CURB IS TO BE INSTALLED, SEE CURB LOCATIONS ON PLAN SHEET.



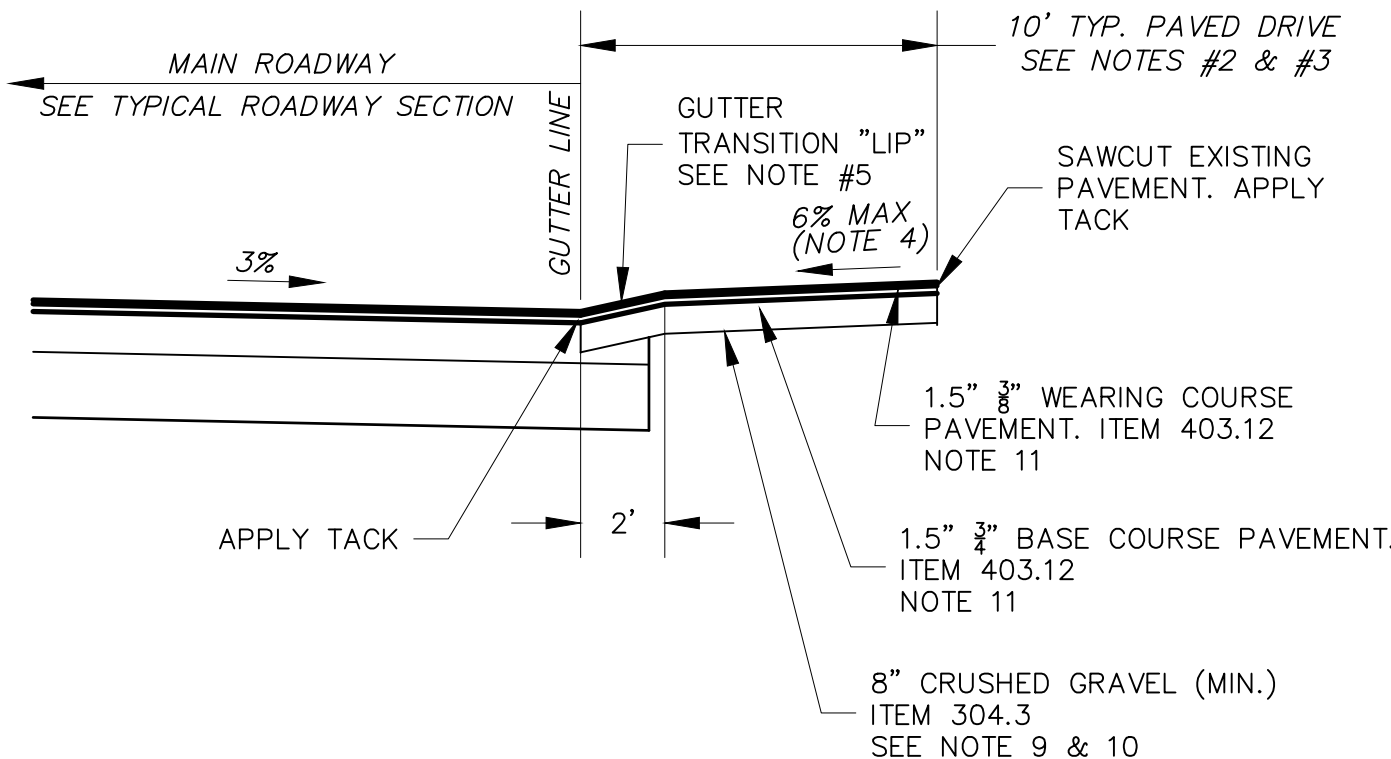
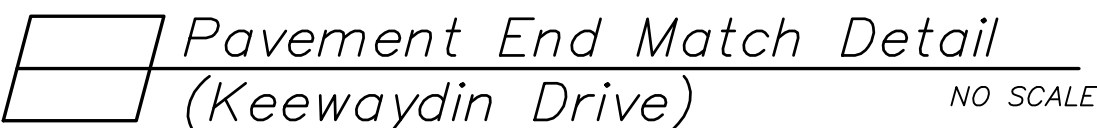
- NOTES:
1. REFERENCE NHDOT MATERIAL SPECIFICATIONS. ALL MATERIALS SHALL CONFORM TO APPLICABLE NHDOT MATERIAL SPECIFICATIONS.
 2. ALL GRAVELS TO BE COMPACTED TO 95% MODIFIED PROCTOR.
 3. WHERE NECESSARY TO WIDEN THE GRAVEL BOX FOR BITUMINOUS CURB THE GRAVEL DEPTHS SHALL BE MINIMUM SPECIFIED OR MATCH THE EXISTING, WHICHEVER IS GREATER TO PAY LIMITS.
 4. EXISTING WORK: EARTHWORK PAY LIMIT FOR BOX WIDENING SHALL BEGIN AT THE LIMIT OF THE EXISTING GRAVEL BOX. NOTE THAT IF SUITABLE GRAVELS EXIST THEN WIDENING SHALL NOT APPLY.
 - 4A. CUT LINE SHALL NOT BE CLOSER THAN 2 FEET FROM FACE OF BERM.
 5. CURB TO BE PAID PER UNIT LENGTH COMPLETE IN PLACE. PAVEMENT, ROAD BED GRAVELS AND CUT/FILLS SHALL BE PAID UNDER RESPECTIVE ITEM NUMBERS.
 6. BINDER SHALL BE TACK COATED BELOW BERM. TACK IS A SUBSIDIARY ITEM TO THE BERM.



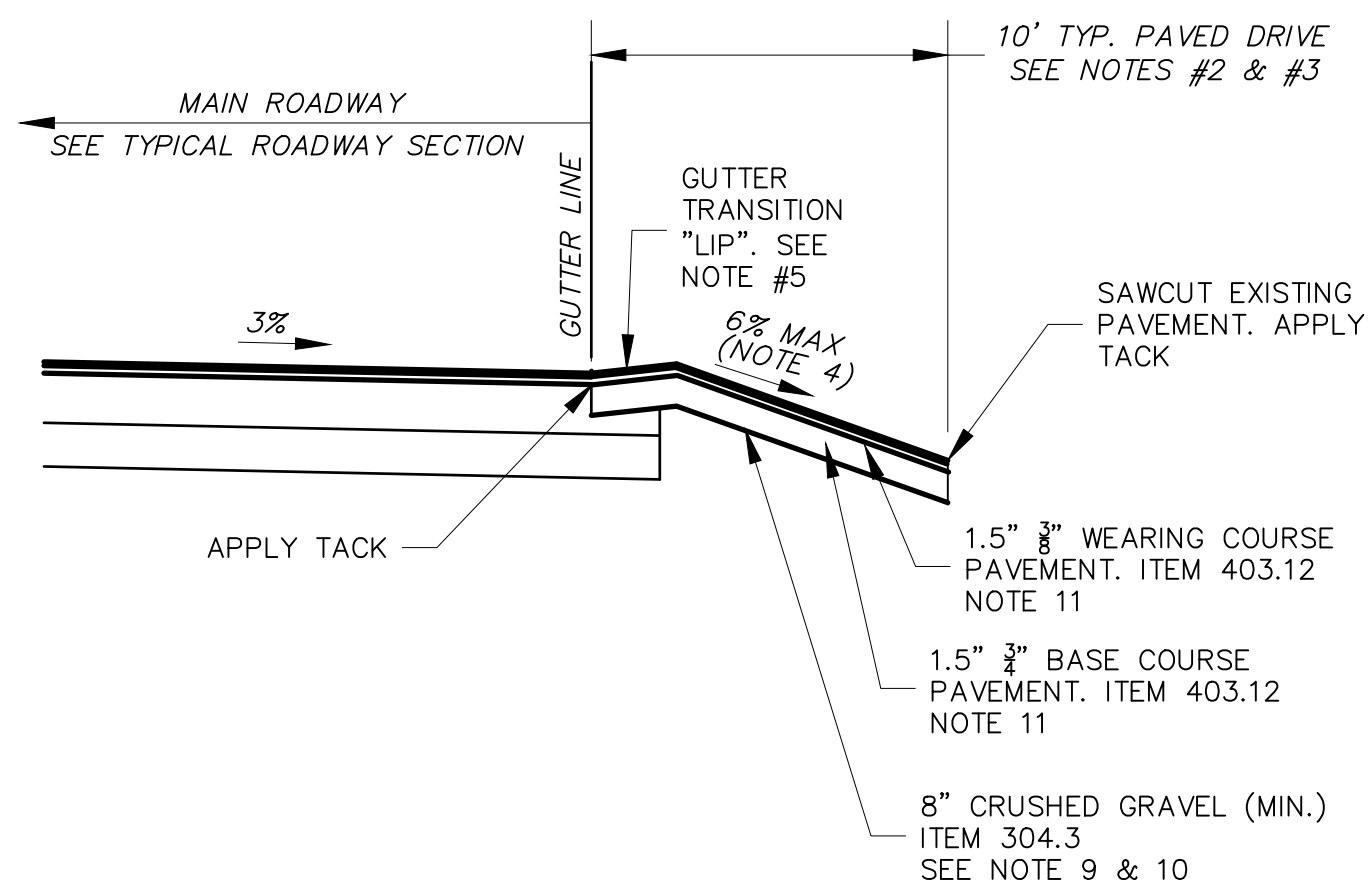
BID DOCUMENTS



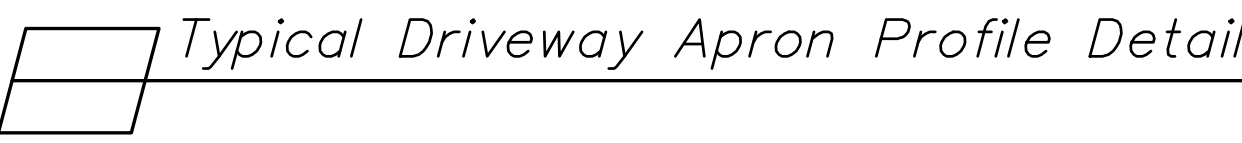
- NOTES:
1. PAVEMENT END MATCH SHALL BE APPLIED AT WORK LIMITS WHERE NEW PAVEMENT MEETS AN EXISTING ROADWAY PAVEMENT SECTION.
 2. EACH LIFT OF PAVEMENT SHALL BE OFFSET 24" OR AS SHOWN ON THE PLANS.
 3. FIELD CONDITIONS OF EXISTING PAVEMENT THICKNESS MAY CAUSE MODIFICATIONS TO THIS DETAIL. COORDINATE DIFFERING FIELD CONDITIONS WITH THE ENGINEER.



DRIVEWAY APRON ABOVE ROAD GRADE



DRIVEWAY APRON BELOW ROAD GRADE



- NOTES:
1. REFERENCE PROJECT SPECIFICATIONS FOR MEASUREMENT AND PAYMENT.
 2. UNLESS OTHERWISE NOTED HORIZONTAL DIMENSION FOR DRIVEWAYS SHALL BE GOVERNED BY MAXIMUM SLOPE REQUIREMENTS AND AS DIRECTED BY THE ENGINEER. ANY DIMENSION GREATER THAN 10- FEET SHALL BE COORDINATED WITH THE ENGINEER FIRST. ANY AREA NOT PRE-APPROVED BY THE ENGINEER SHALL NOT BE PAID.
 3. UNLESS OTHERWISE NOTED TOTAL HORIZONTAL DIMENSION OF GRAVEL DRIVE APRONS SHALL BE 5- FEET WITH A MAXIMUM OF 3- FEET BEING PAVED. THE REMAINING DISTANCE SHALL BE CRUSHED GRAVEL
 - 3A. COMMERCIAL DRIVE APRONS S SHALL BE 10- FEET UNLESS OTHERWISE NOTED ON THE PLANS.
 4. MAXIMUM 6% SLOPE FOR DRIVEWAY APRONS MAY BE MODIFIED ONLY AS DIRECTED BY THE ENGINEER BASED ON FIELD CONDITIONS.
 5. GUTTER TRANSITION ("LIP"): ALL DRIVEWAYS SHALL RECEIVE A GUTTER TRANSITION WITH AN INCLINE OF 1-2 INCHES IN 2- FEET FROM THE EDGE OF PAVEMENT. NO ADDITIONAL COMPENSATION SHALL BE GRANTED FOR TRANSITIONS. ELEVATION OF LIPS SHALL BE AS DIRECTED BASED ON FIELD CONDITIONS.
 6. TACK COAT SHALL BE APPLIED TO THE JOINTS AND BETWEEN PAVEMENT COURSES AND AS DIRECTED AND SHALL BE SUBSIDIARY TO UNIT ITEM COST.
 7. GRAVELS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR.
 8. SUB-BASE SHALL BE COMPACTED AS NEEDED AND/OR AS DIRECTED.
 9. WHERE RECLAIM IS PERMITTED IN-LIEU OF 304.3 EXCESS RECLAIM OR RECLAIM PROVIDED BY OWNER SHALL BE PAID AS 203.6. HAULING AND HANDLING SHALL BE INCIDENTAL
 10. WHERE EXISTING GRAVELS ARE DETERMINED TO BE SUITABLE IN PLACE BY THE ENGINEER THEN NO EXCAVATION OR GRAVEL REPLACEMENT SHALL OCCUR. APRON PREP SHALL BE INCIDENTAL. ADDITIONAL GRAVEL SHIM TO MEET ROAD GRADES SHALL BE PAID UNDER 304.3 OR 203.6.
 11. WHERE A PAVER IS USED TO PAVE DRIVEWAYS THE PAVEMENT SHALL BE PAID AS 403.11 (MACHINE METHOD)
 12. REMOVAL OF LEDGE, IF ENCOUNTERED, SHALL EXTEND TO BOTTOM OF GRAVEL ONLY. DO NOT OVEREXCAVATE.
 13. EACH LIFT OF DRIVE APRONS TO BE PLACED WITHIN 7 DAYS OF EACH LIFT OF ROADWAY PAVEMENT.

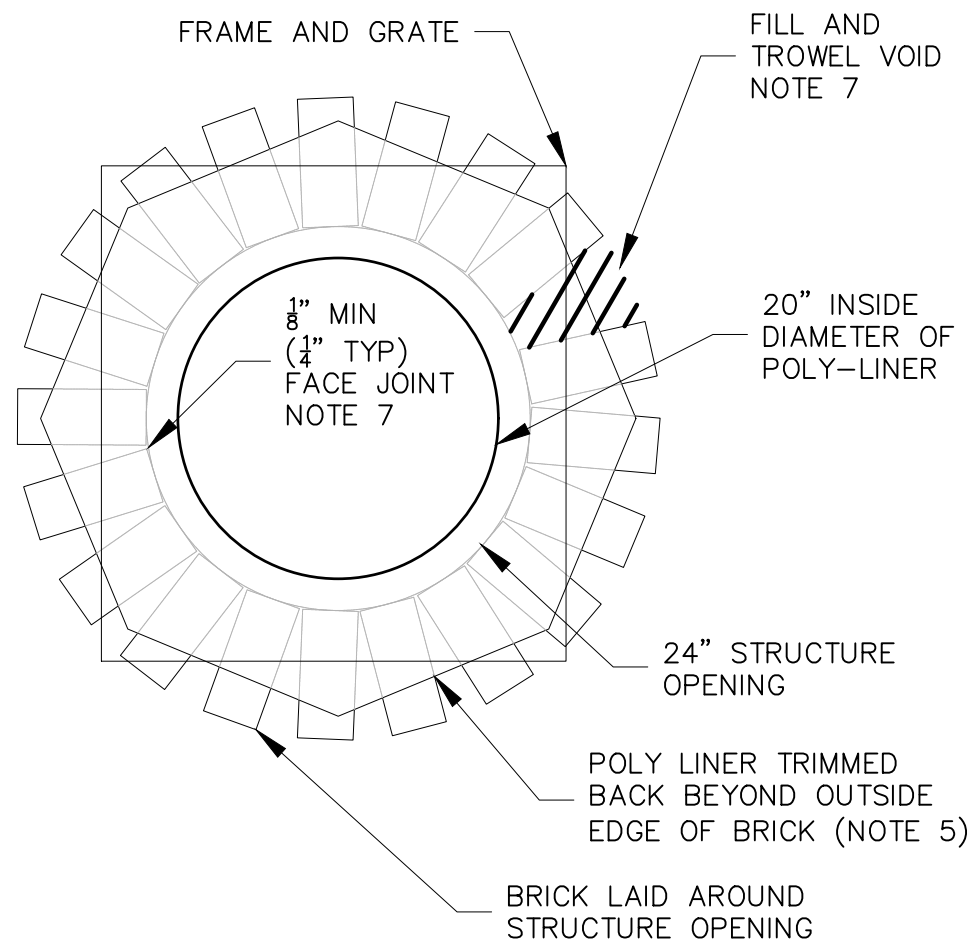


McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NEW HAMPSHIRE 03301

REV	DATE	DESCRIPTION	BY
A	01.16.23	ADDENDUM 1	

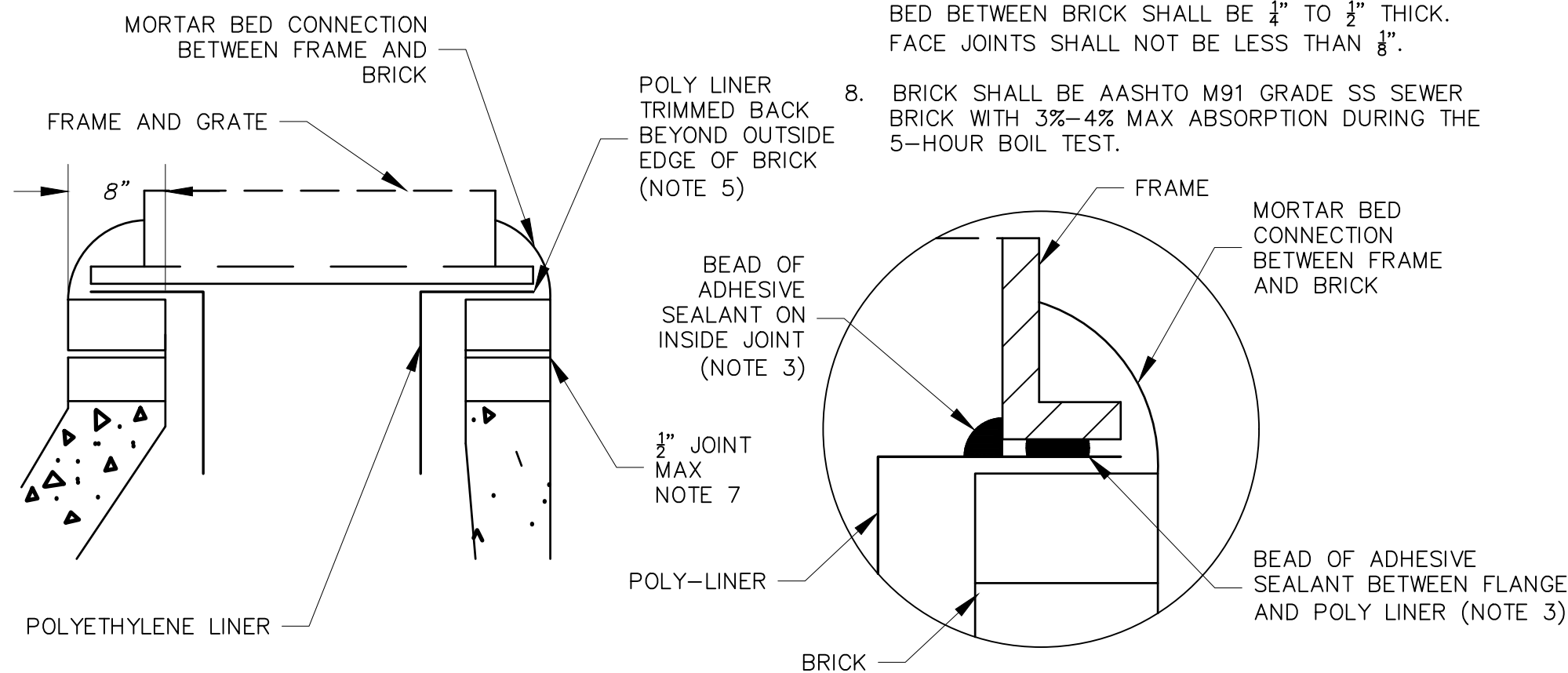
TOWN OF SALEM
SALEM, NEW HAMPSHIRE
2023 ROADWAY IMPROVEMENT
PROJECT KEEWAYDIN DRIVE

SCALE: AS SHOWN	DESIGN: KJM	5 5 OF 8
DRAWN: KJM	PROJECT:18900.03	
CHECKED: MKM	DATE: DECEMBER 2022	



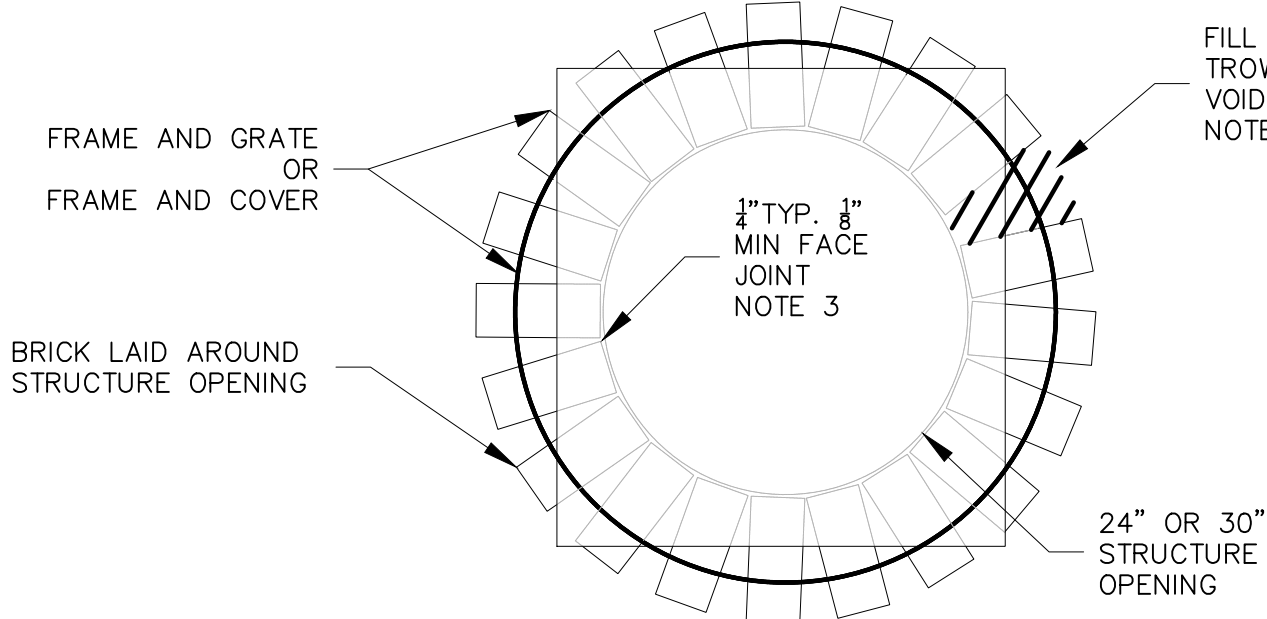
NOTES:

1. ALL CATCH BASINS SHALL BE OUTFITTED WITH A POLYETHYLENE LINER DOWNSPOUT.
2. POLYETHYLENE LINER SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
3. PLACE A CONTINUOUS BEAD OF AN APPROVED BONDING ADHESIVE SEALANT BETWEEN FRAME AND POLYETHYLENE SHEET AND AT THE INSIDE JOINT AFTER ASSEMBLY IS COMPLETE.
4. PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURE).
5. TRIM POLYETHYLENE BEYOND THE OUTSIDE EDGE OF BRICK TO PROVIDE A MORTAR CONNECTION BETWEEN THE FRAME AND BRICK. ALTERNATE TRIMMING METHODS MAY/SHALL BE REQUIRED BY THE OWNER WHEN USED WITH CURBING AND GUTTER INLETS.
6. THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 1" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.
7. BRICK MORTAR: COMPLETELY FILL AND TROWEL ANNULAR SPACE BETWEEN ALL BRICKS. MORTAR BED BETWEEN BRICK SHALL BE 1/2" TO 3/4" THICK. FACE JOINTS SHALL NOT BE LESS THAN 1/8".
8. BRICK SHALL BE AASHTO M91 GRADE SS SEWER BRICK WITH 3%-4% MAX ABSORPTION DURING THE 5-HOUR BOIL TEST.



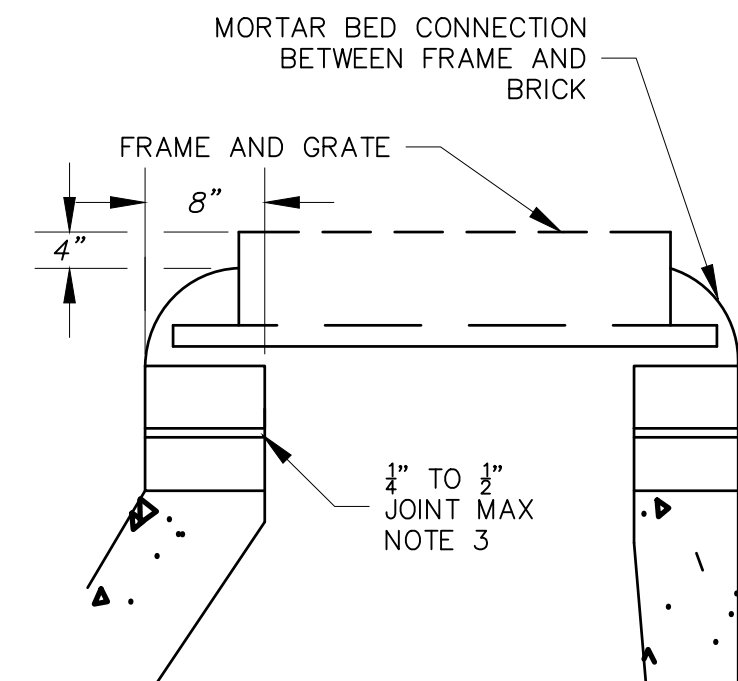
Poly-Liner Detail

NO SCALE



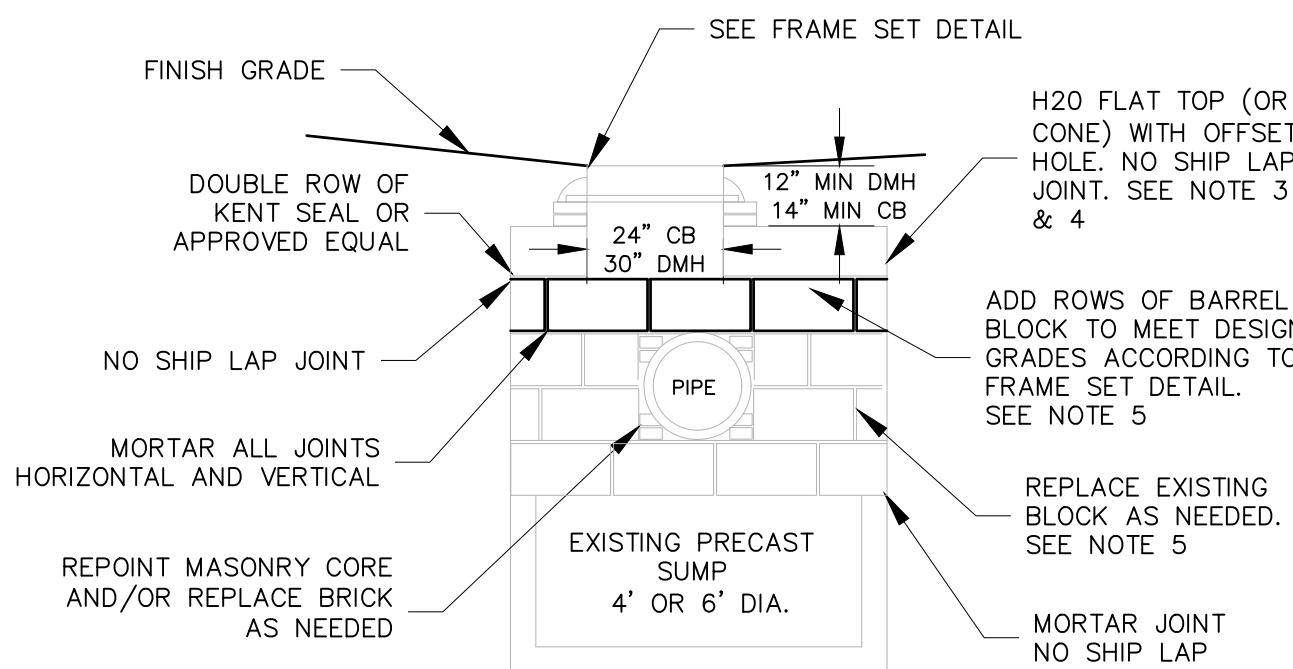
NOTES:

1. ALL STANDARD CATCH BASINS SHALL BE OUTFITTED WITH A POLYETHYLENE LINER DOWNSPOUT. EXCEPTIONS MAY APPLY. REFER TO SPECIFIC STRUCTURE TYPE AND CORRESPONDING CONSTRUCTION DETAILS (I.E. DOUBLE GRATE CB, "C-TOP" CB, DROP INLET, ETC.).
2. PLACE MORTAR TO 4" BELOW THE TOP OF GRATE ELEVATION (SUBSIDIARY TO STRUCTURE ITEM).
3. BRICK MORTAR: COMPLETELY FILL AND TROWEL ANNULAR SPACE BETWEEN ALL BRICKS. MORTAR BED BETWEEN BRICK SHALL BE 1/2" TO 3/4" THICK. FACE JOINTS SHALL AVERAGE 1/4" BUT NOT BE LESS THAN 1/8".
4. DO NOT PLASTER OR MORTAR OVER BRICK WORK. ALL JOINTS SHALL BE CLEAN AND PROPERLY POINTED.
5. BRICK SHALL BE AASHTO M91 GRADE SS SEWER BRICK WITH 3%-4% MAX ABSORPTION DURING THE 5-HOUR BOIL TEST. CONCRETE GRADE RINGS SHALL NOT BE ALLOWED.
6. DMH & SEWER FRAME AND COVER SHALL BE NEENAH MODEL #R-1743. DMH SHALL READ "DRAIN". SMH SHALL READ "SEWER". CB FRAME AND GRATE SHALL BE NEENAH MODEL #R-3570. DOUBLE GRATES SHALL BE EJ MODEL #OMA552000066.
7. ALL CATCH BASIN FRAMES (SINGLE AND DOUBLE) INSTALLED AT GRANITE CURBING LOCATIONS SHALL BE 3-FLANGED. ALL CATCH BASIN FRAMES (SINGLE AND DOUBLE) INSTALLED WITH NO CURBING SHALL BE 4-FLANGED.



Frame Set Detail (SMH, DMH or CB)

NO SCALE

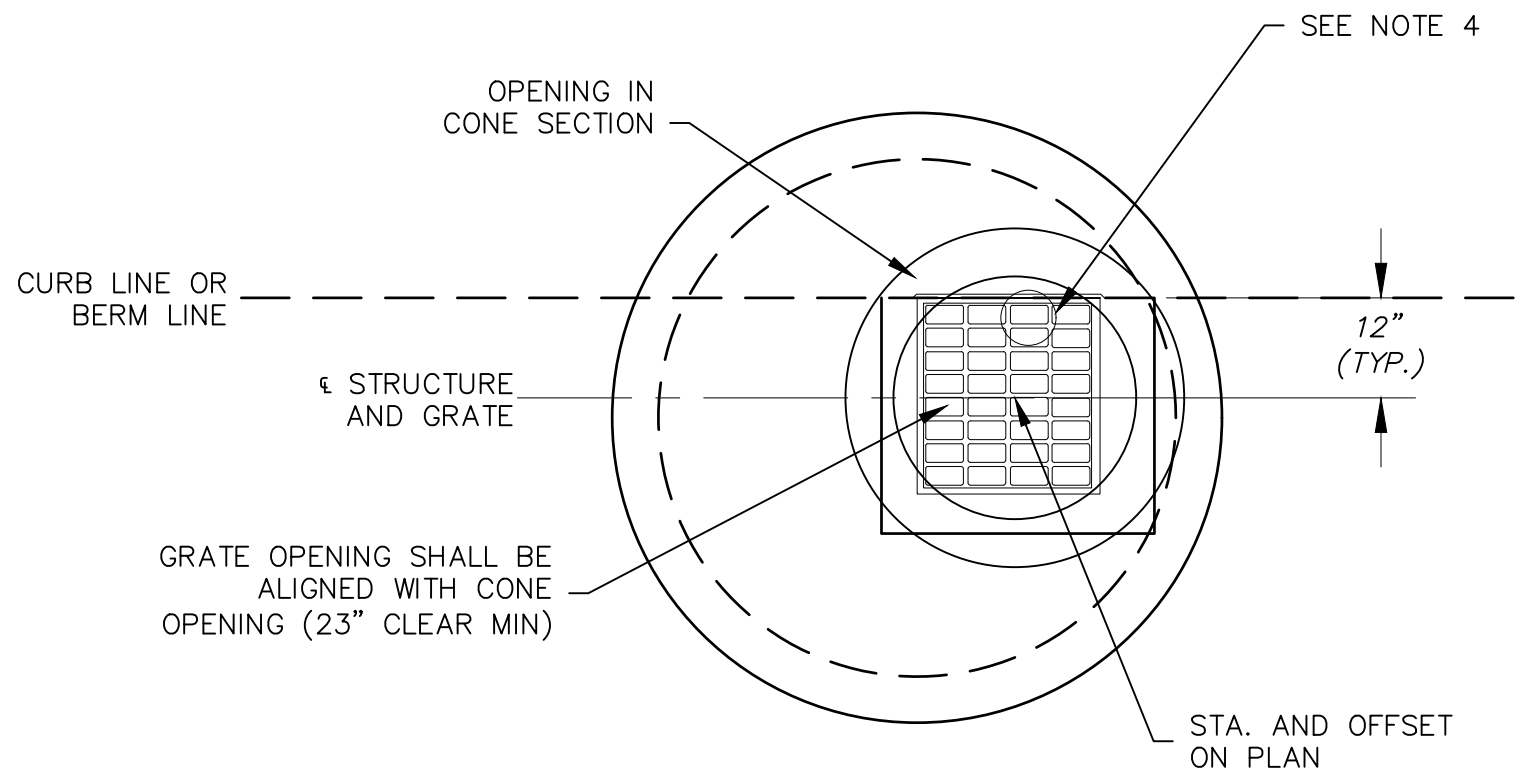


REMODEL NOTES:

1. REFERENCE GENERAL DRAIN STRUCTURE NOTES, NHDOT SECTION 604, AND TOWN OF SALEM SUPPLEMENTAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. SEPARATE CONSTRUCTION SPECIFICATIONS ARE ATTACHED OR INCLUDED IN THE CONTRACT DOCUMENTS. THESE STANDARD DRAWINGS ARE NOT COMPLETE WITHOUT SPECIFICATIONS.
3. THIS ITEM SHALL INCLUDE BOTH 4' AND 6' DIAMETER DRAIN STRUCTURES.
4. REMODEL SHALL INCLUDE REPLACEMENT OF PRECAST STRUCTURE TOPS WHICH ARE UNSERVICEABLE, NON-STANDARD, OR WILL NOT MEET GRADES OF FRAME SET REQUIREMENTS. WHERE VERY SHALLOW GRADES ARE PRESENT USE OF A 6" H2O OFFSET FLAT TOP MAY BE NECESSARY.
5. REMODEL SHALL INCLUDE REPLACEMENT OF UNSERVICEABLE STRUCTURE BLOCK. ADDITIONAL ROWS OF BLOCK REQUIRED TO MEET GRADES SHALL ALSO BE INCLUDED. ITEM SHALL INCLUDE UP TO 4 ROWS TOTAL OF NEW AND/OR REPLACED BLOCK. WHERE AUTHORIZED A PRECAST RISER MAY BE USED TO MEET GRADES.

Remodel/Reconstruct Drain or Sewer Structure

NO SCALE



NOTE:

1. IF SITE CONDITIONS DO NOT ALLOW FOR SETTING CATCH BASINS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO SETTING STRUCTURE.
2. CONTRACTOR SHALL VERIFY ALL STRUCTURE LOCATIONS PRIOR TO LAYING PIPE.
3. ALL CB RIMS (SINGLE AND DOUBLE) AGAINST GRANITE CURBING SHALL BE 3-FLANGED. ALL CB RIMS NOT AGAINST GRANITE CURBING SHALL BE 4-FLANGED.
4. CATCH BASIN GRATES SHALL BE ROTATED SUCH THAT HOLES IN GRATE ARE PARALLEL TO GUTTER ON LONG SIDE.

Casting Placement at Curbline Detail

NO SCALE

BID DOCUMENTS



McFarland Johnson

53 REGIONAL DRIVE
CONCORD, NEW HAMPSHIRE 03301

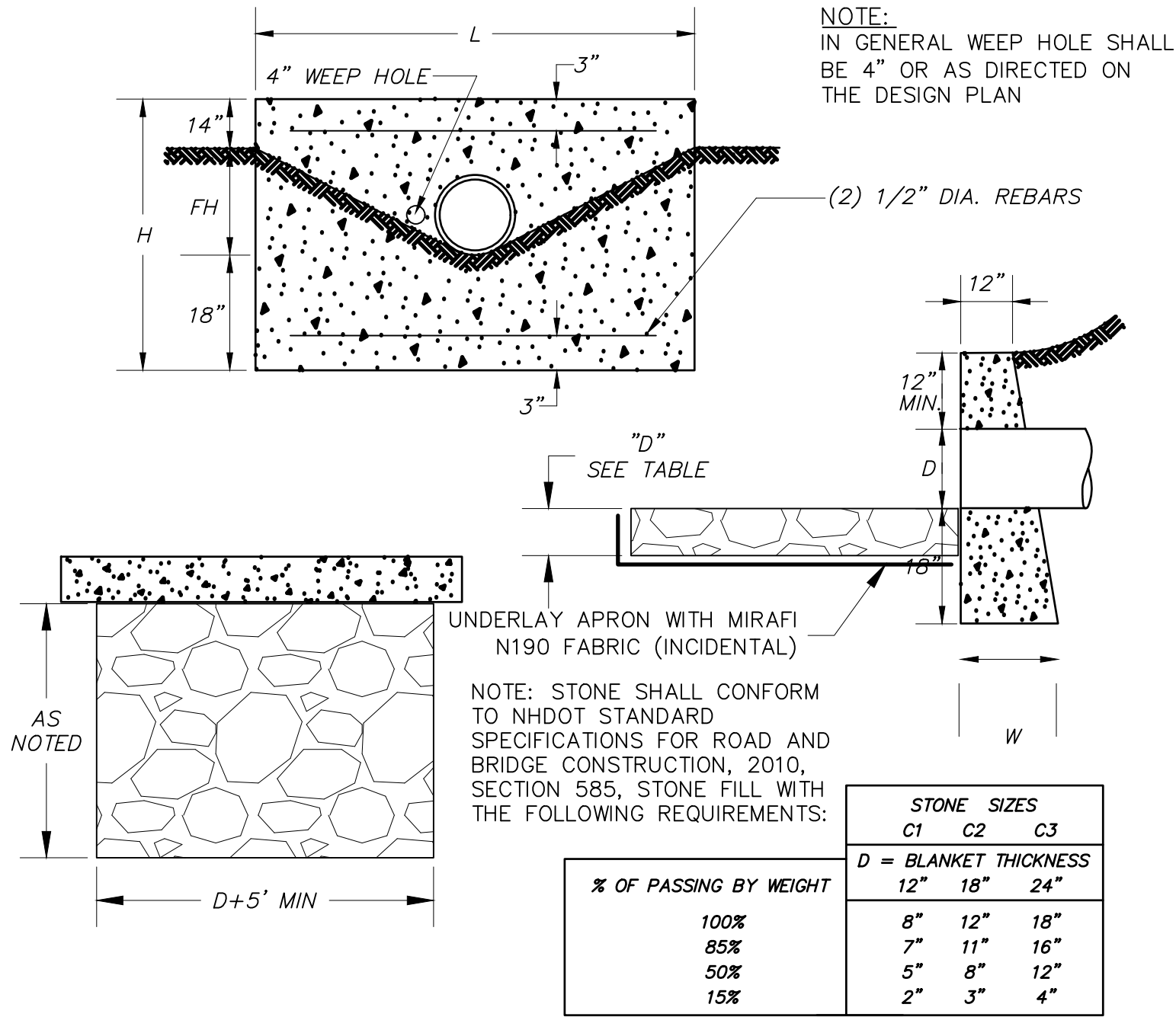
TOWN OF SALEM
SALEM, NEW HAMPSHIRE
2023 ROADWAY IMPROVEMENT
PROJECT KEEWAYDIN DRIVE
CIVIL DETAILS 2

SCALE: AS SHOWN
DESIGN: KJM
DRAWN: KJM
PROJECT: 18900.03
CHECKED: MKM
DATE: DECEMBER 2022

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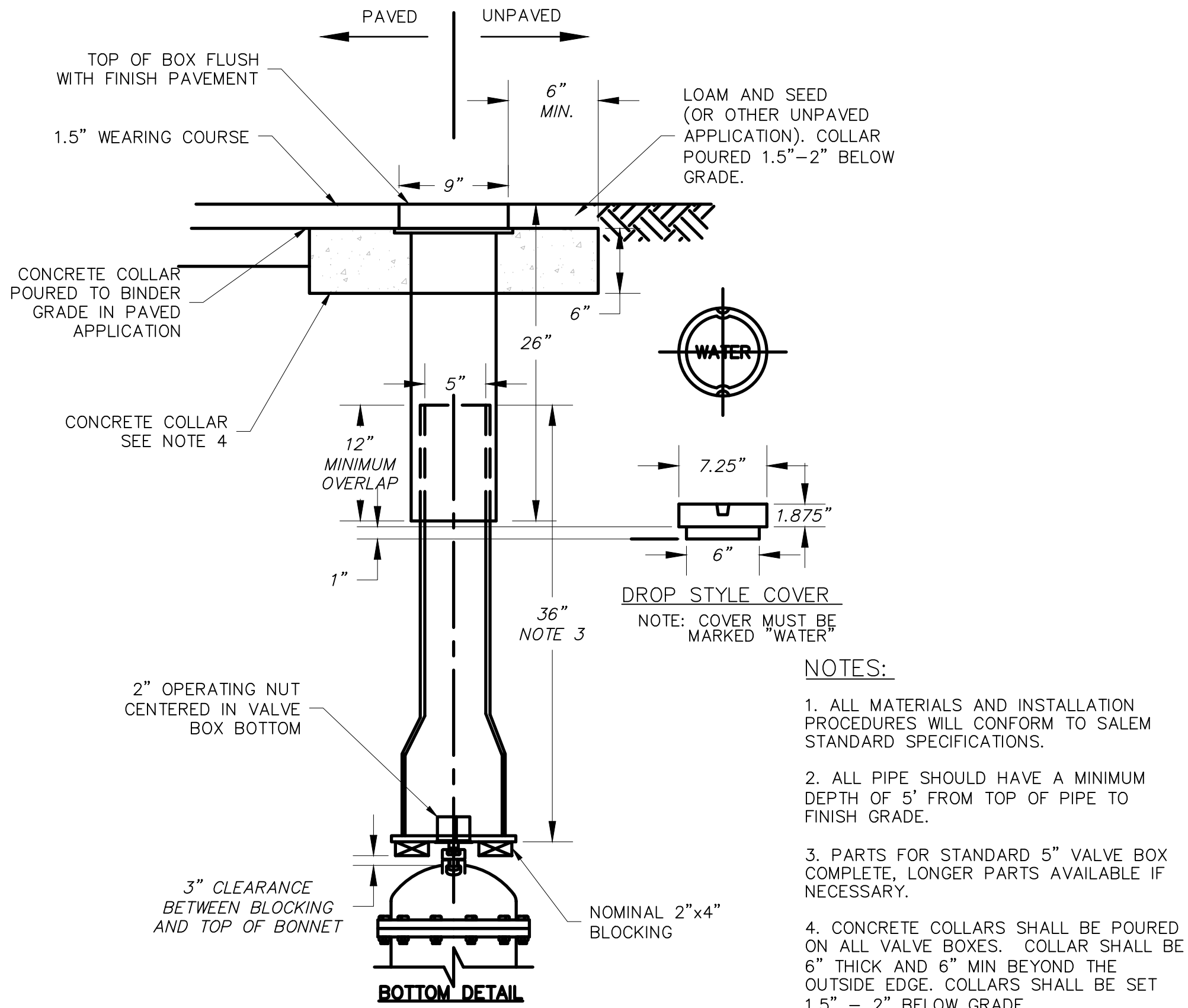
OF 8

MAS. PER STD. HDR. CU. YD.	STEEL PER STD. HDR. LB.	LENGTH OF BARS	L	H	FH	W
12	0.61	9	3'-2"	3'-6"	3'-6"	0'-10"
15	0.85	11	3'-10"	4'-6"	3'-9"	1'-1"
18	1.13	14	5'-2"	5'-6"	4'-0"	1'-4"
24	1.78	20	7'-2"	7'-6"	4'-6"	1'-10"
36	3.53	31	11'-2"	11'-6"	5'-6"	2'-10"



Typical Headwall & Stone Apron Detail

NO SCALE



Typical Gate Box Installation

NO SCALE

BID DOCUMENTS



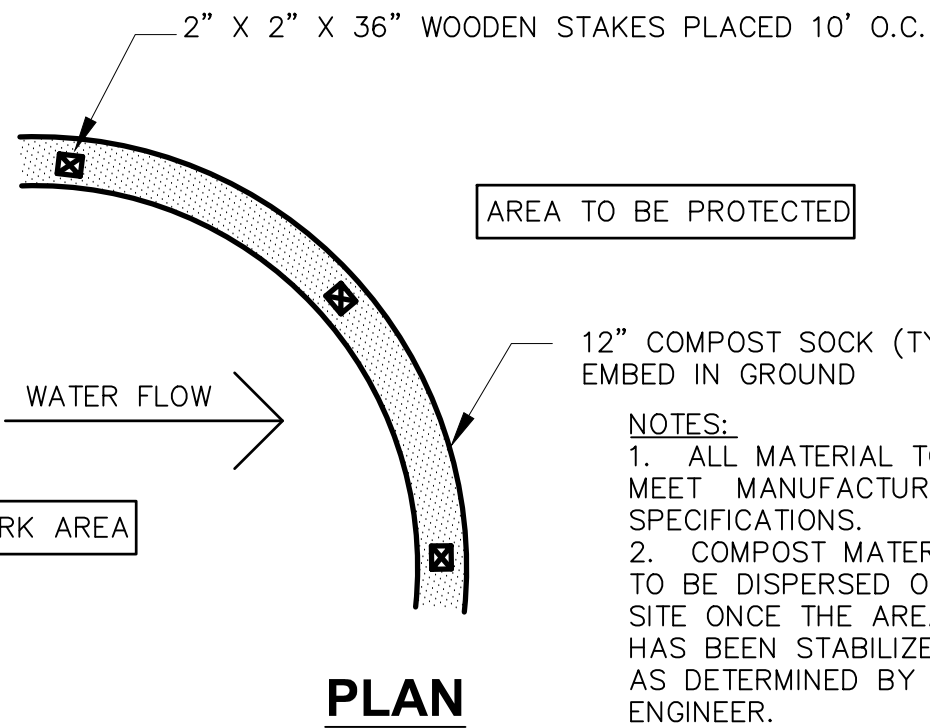
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TOWN OF SALEM
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2023 ROADWAY IMPROVEMENT
PROJECT KEEWAYDIN DRIVE
CIVIL DETAILS 3

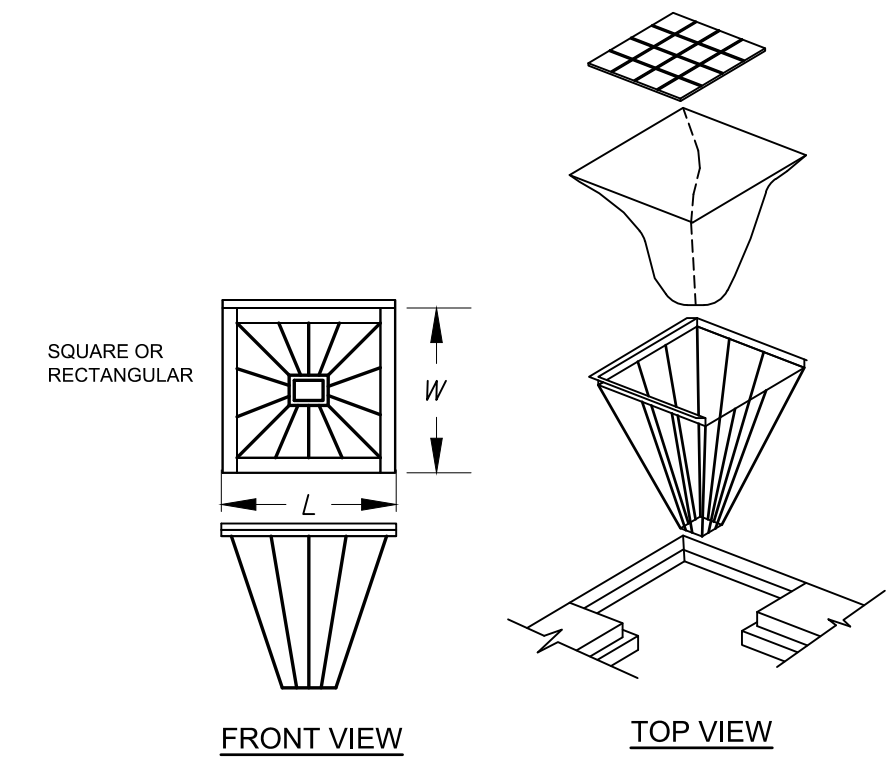
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CHECKED: MKM	DATE: DECEMBER 2022

GENERAL NOTES:

1. CONSTRUCTION BASELINE: ELECTRONIC AUTOCAD DRAWINGS ARE AVAILABLE FOR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL LAY OUT BASE LINE TO BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. MINOR ADJUSTMENTS IN ALIGNMENT MAY BE NECESSARY BASED ON FIELD CONDITIONS IN AN EFFORT TO CREATE A "BEST FIT" ROADWAY AND MINIMIZE ADJACENT IMPACTS.
2. EXISTING CONDITIONS INFORMATION DEPICTED HEREON IS A COMPOSITE BASED ON RECORD PLANS AND TOPOGRAPHIC SURVEY. TOPOGRAPHIC FIELD SURVEY CONDUCTED BY S&H LAND SERVICES IN FEBRUARY 2021.
3. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND EXISTING AND PROPOSED CONDITIONS SURROUNDING IT. IF ANY ERROR OR OMISSION IN THESE PLANS IS DISCOVERED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND OWNER IMMEDIATELY IN WRITING FOR DIRECTION ON HOW TO PROCEED. THE CONTRACTOR SHALL DISCONTINUE WORK IN THE AFFECTED PROJECT AREA UNTIL DIRECTION HAS BEEN PROVIDED BY THE TOWN OF SALEM ON CORRECTIVE ACTION.
5. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REDUCED PLANS, IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL SUBMIT HIS/HER PROPOSED CONSTRUCTION SCHEDULE TO THE SALEM ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL IN ACCORDANCE TO BID SPECIFICATION DOCUMENTS PRIOR TO CONSTRUCTION. NO WORK SHALL BE CONDUCTED WITHOUT AN APPROVED SCHEDULE.
8. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENT OF THE START OF WORK IN ACCORDANCE TO THE BID SPECIFICATION DOCUMENTS.
9. ALL WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT NEW HAMPSHIRE DIG SAFE, AT 1-888-DIG-SAFE, AT LEAST 72 HOURS BEFORE DIGGING.
11. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE EXACT LOCATION SHOULD BE ESTABLISHED IN THE FIELD BY THE UTILITY COMPANY PRIOR TO ANY EXCAVATION OR POST DRIVING. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES AND FACILITIES PUBLIC OR PRIVATE.
12. THE CONTRACTOR SHALL COORDINATE UTILITY WORK, MATERIALS, AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
13. ALL WORK SHALL CONFORM TO TOWN OF SALEM STANDARD SPECIFICATIONS AND SHALL BE SUBJECT TO FINAL INSPECTION BY THE SALEM ENGINEERING DIVISION.
14. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES. THE CONTRACTOR MUST CONTACT THE SALEM FIRE AND POLICE DEPARTMENTS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL SIGNAGE, BARRICADES, POLICE DETAILS AS REQUIRED FOR TRAFFIC CONTROL AND COORDINATION WITH OTHER CONSTRUCTION OPERATIONS ON ADJACENT STREETS.
15. ALL PERMANENT CONSTRUCTION WARNING SIGNS MUST BE ERECTED PRIOR TO BEGINNING CONSTRUCTION. ALL CONSTRUCTION SIGNAGE DESIGN, PLACEMENT, AND METHOD (PERMANENT OR TEMPORARY) SHALL MEET THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
16. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN THE PLANS THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES AND TOWN OF SALEM STANDARDS AND SPECIFICATIONS. THE DETAILS PROVIDED SERVE AS A GUIDE ONLY. ALL EROSION CONTROL SHALL BE MAINTAINED AND/OR REPLACED IF DAMAGED. EROSION CONTROL PRACTICES SHOWN HEREIN SHALL BE CONSIDERED A MINIMUM STANDARD. THE CONTRACTOR SHALL IMPLEMENT ANY EROSION CONTROL MEASURE DEEMED NECESSARY AND APPROPRIATE AS FIELD CONDITIONS DICTATE OR AS DIRECTED. BY MENTION, THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" IS HEREBY INCORPORATED INTO THE DESIGN PLANS.
18. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RETAIN ALL RESPONSIBILITY FOR ERRORS AND REMEDIAL WORK NECESSARY AS A RESULT BENCHMARK ERRORS.
19. ALL ELEVATIONS AND LOCATIONS OF DRAINAGE STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO UTILIZATION OF THE DESIGN ELEVATIONS SHOWN ON THE PLAN.
20. ALL MATERIAL MUST MEET OR EXCEED SPECIFICATIONS.
21. ALL NEW MANHOLES IN PAVEMENT SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN. ALL NEW CATCH BASINS IN PAVEMENT SHALL HAVE RIMS SET 1/2" BELOW FINISH REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN.
22. ALL EXISTING MANHOLES, WATER GATE RISERS, GAS GATE RISERS, AND OTHER STRUCTURES LOCATED WITHIN THE LIMITS OF THE PROJECT SHALL BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR UNLESS INDICATED OTHERWISE BY THESE PLANS. EXISTING CATCH BASINS SHALL BE ADJUSTED 1/2" BELOW FINISH GRADE.
23. ALL CATCH BASINS SHALL BE TYPE B UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
24. CATCH BASIN POLYETHYLENE LINERS : POLY-LINERS (ITEM 604.0007) SHALL BE INSTALLED ON ALL CATCH BASINS (NEW AND EXISTING) WITHIN THE PROJECT.
25. IN GENERAL ALL DRIVEWAYS SHALL RECEIVE GUTTER LINE TRANSITIONS OF 1 – 2 INCHES FOR 2–FEET AT THE EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER. ALL WORK AND MATERIAL TO CONSTRUCT GUTTER TRANSITIONS SHALL BE SUBSIDIARY TO THE DRIVEWAY APRON UNIT ITEMS.
26. THE SUBGRADE SHALL BE SCARIFIED TO ASSURE THAT ALL BOULDERS AND COBBLES OVER 6 INCHES ARE REMOVED.
27. NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION AND REPLACEMENT.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AND UNTIL SUCH TIME AS ALL IMPROVEMENTS HAVE BEEN APPROVED BY THE TOWN OF SALEM. ALL MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE "FEDERAL HIGHWAY ADMINISTRATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR THE STREETS AND HIGHWAYS". ALL TEMPORARY SIGNING, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE ABOVE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
29. THE CONTRACTOR SHALL ENSURE THAT POSTAL SERVICE IS UNINTERRUPTED FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH USPS FOR ANY ADDITIONAL REQUIREMENTS.
30. MAILBOX NOTE: NOT ALL MAILBOXES WILL BE RELOCATED. MAILBOXES THAT DO NOT MEET MINIMUM DISTANCES SHALL BE RESET OR AS DIRECTED BY THE ENGINEER.
31. TREE REMOVAL: COORDINATE TREE REMOVAL WITH THE ENGINEER PRIOR TO THE START OF WORK.
32. GRUBBING NOTE: IN GENERAL, GRUBBING THE SHOULDERS AS SHOWN ON THE PLAN SHALL BE INCLUSIVE OF SMALL TREE REMOVAL. NOT ALL SHOULDER WORK SHALL BE CONSIDERED GRUB. ONLY THOSE AREAS SPECIFICALLY IDENTIFIED AS GRUB SHALL BE PAID.
33. NPDES NOTE: THE 2023 ROADWAY IMPROVEMENT PROJECT IS LARGELY A RECLAIM IN-PLACE OPERATION WHICH IS CONSIDERED STABLE UPON COMPLETION OF RECLAIM ACTIVITIES. EACH ROAD CONTAINS LESS THAN 1-ACRE OF DISTURBANCE OUTSIDE OF RECLAIM AREAS. THEREFORE A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT.



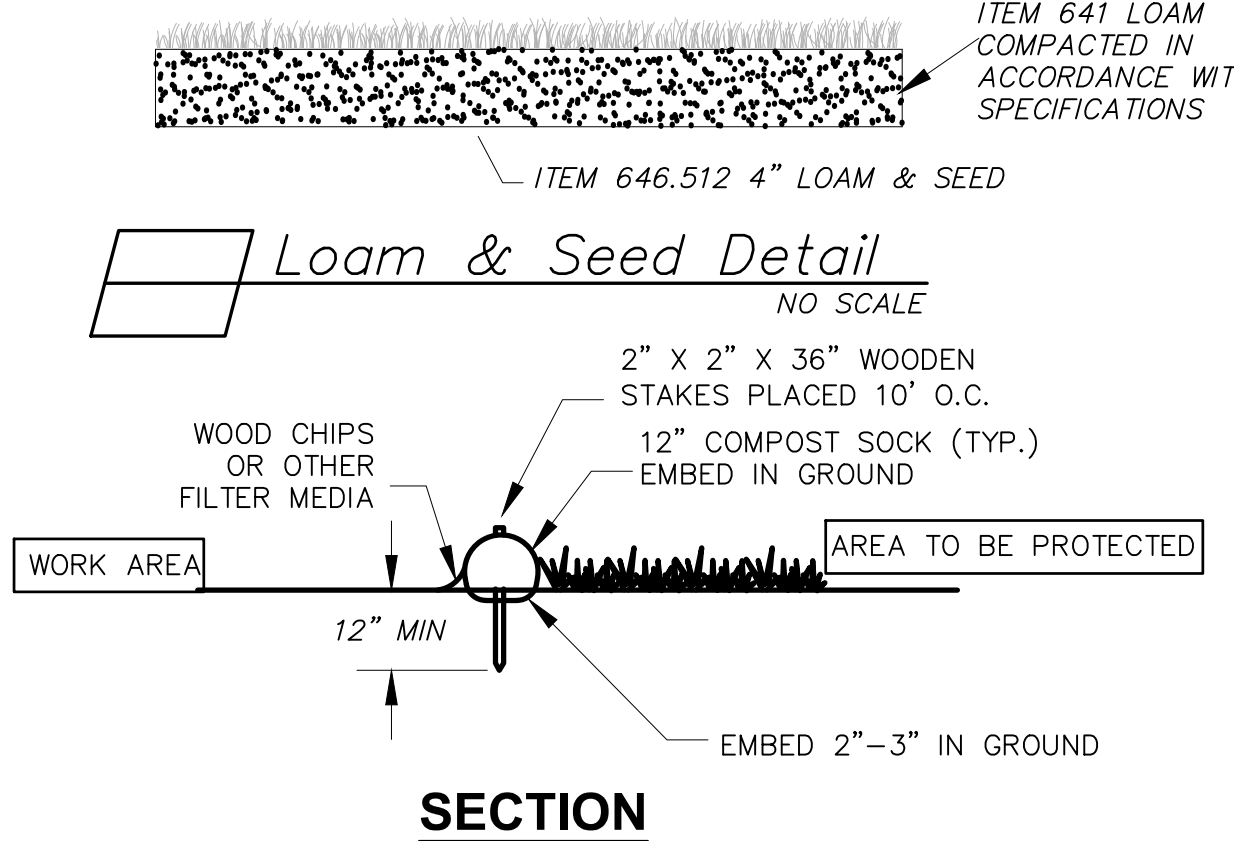
Compost Sock Detail



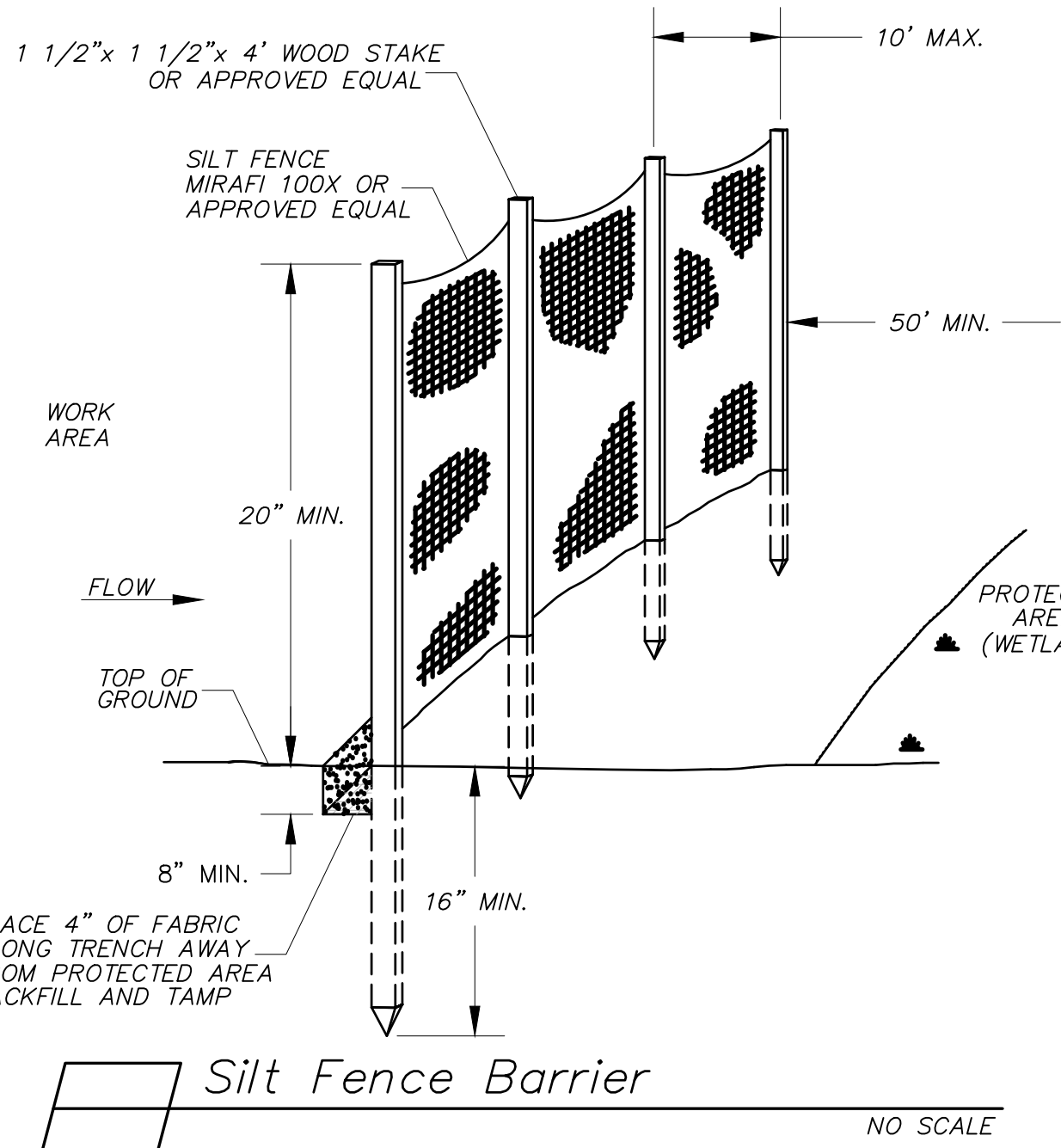
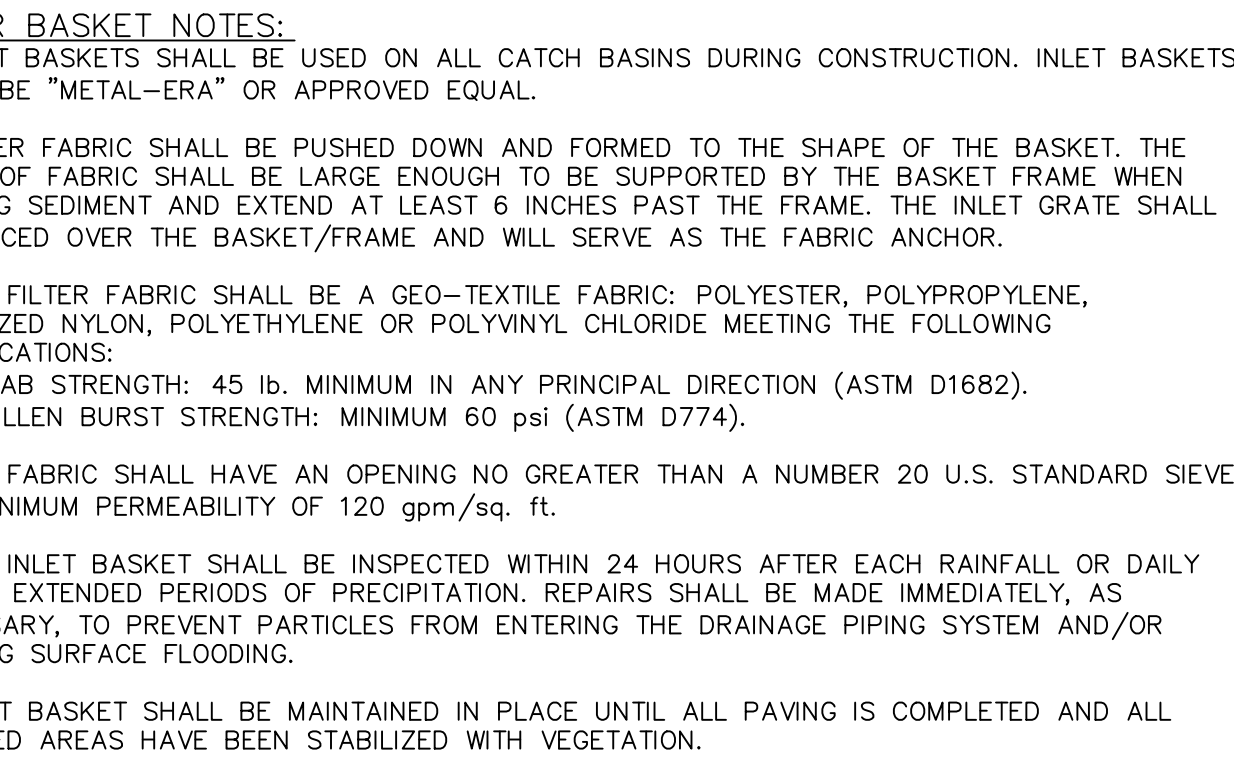
Siltsack Inlet Filter Basket

FILTER BASKET NOTES:

1. INLET BASKETS SHALL BE USED ON ALL CATCH BASINS DURING CONSTRUCTION. INLET BASKETS SHALL BE "METAL-ERA" OR APPROVED EQUAL.
2. FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND EXTEND AT LEAST 6 INCHES PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR.
3. THE FILTER FABRIC SHALL BE A GEO-TEXTILE FABRIC: POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYL CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:
GRAB STRENGTH: 45 lb. MINIMUM IN ANY PRINCIPAL DIRECTION (ASTM D1682).
MULLEN BURST STRENGTH: MINIMUM 60 psi (ASTM D774).
4. THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND MINIMUM PERMEABILITY OF 120 gpm/sq. ft.
5. THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM ENTERING THE DRAINAGE PIPING SYSTEM AND/OR CAUSING SURFACE FLOODING.
6. INLET BASKET SHALL BE MAINTAINED IN PLACE UNTIL ALL PAVING IS COMPLETED AND ALL UNPAVED AREAS HAVE BEEN STABILIZED WITH VEGETATION.



SECTION



Silt Fence Barrier

CONSTRUCTION SPECIFICATIONS:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 10 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIE OR STAPLES WHERE NOTED OR AS DIRECTED BY DESIGN ENGINEER.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MIDSECTION AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 10 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

MAINTENANCE:

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

BID DOCUMENTS

EROSION CONTROL:

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ALL EROSION CONTROL MEASURES SHOWN, DESCRIBED AND NOTED SHALL BE CONSIDERED A MINIMUM STANDARD. THE CONTRACTOR SHALL IMPLEMENT ALL NECESSARY EROSION CONTROL PRACTICES AS NEEDED, AS FIELD CONDITIONS DICTATE, OR AS ORDERED TO MAINTAIN PROPER EROSION PROTECTION.

1. EXISTING VEGETATION SHALL BE LEFT UNDISTURBED WHEREVER POSSIBLE.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS.
3. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE KEPT CLEAN AND REMOVED ONCE VEGETATIVE COVER HAS BEEN FULLY ESTABLISHED. INSPECT WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OF RAINFALL OR MORE.
4. THE CONTRACTOR SHALL MAINTAIN RESPONSIBILITY OF ALL EROSION CONTROL, TURF ESTABLISHMENT MEASURES, AND LANDSCAPE THROUGHOUT CONSTRUCTION AND AFTER PROJECT COMPLETION UNTIL SUCH TIME AS VEGETATIVE COVER HAS BEEN FULLY ESTABLISHED.
5. INSTALLATION OF HAY BALE BARRIERS AND SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM INSTALLED WITH NOT LESS THAN INDICATED SEED MIX PER 1,000 SQ. FT. GROUND COVER WILL BE ESTABLISHED BY HYDRO SEEDING. SEED MIXTURE SHALL BE:

PERMANENT (PARK SEED MIX)	
PERENNIAL RYEGRASS –	1.15 LBS.
CREeping RED FESCUE –	0.92 LBS.
KENTUCKY BLUEGRASS –	0.57 LBS.
RED TOP –	0.11 LBS.
	2.74 LBS/1000 S.F.
PERMANENT (OTHER THAN LAWN AREAS)	
PERENNIAL RYEGRAS –	0.69 LBS.
CREeping RED FESCUE –	0.80 LBS.
BIRDSFOOT TREFOLI –	0.11 LBS.
RED TOP –	0.11 LBS.
ALSIKE CLOVER –	0.11 LBS.
	1.82 LBS/1000 S.F.
TEMPORARY ANNUAL RYEGRASS –	1.1 LBS./1000 S.F.

- USE ABOVE SEED MIXES UNLESS OTHERWISE SPECIFIED.
7. LIME AND FERTILIZER OF PROPER PROPORTIONS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING IN ACCORDANCE WITH NHDOT ITEMS 642 & 643. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATION.
 8. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
 10. IN THE EVENT THAT, DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
 11. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED;
B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
 12. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD. WATER IS SUBSIDIARY.
 13. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
 14. USE OF STONE TO STABILIZE A TRENCH, ROAD OR DITCH (SWALE) SHALL BE CONSIDERED SUBSIDIARY TO MAINTENANCE OF TRAFFIC (ITEM 619.1) REGARDLESS OF WHETHER ITS USE IS DIRECTED.

CONSTRUCTION SEQUENCE:

CONSTRUCTION SEQUENCE NOTES ARE PROVIDED AS A GENERAL GUIDELINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND SUBMITTING A DETAILED CONSTRUCTION SEQUENCE PRIOR TO THE START OF CONSTRUCTION.

1. INSTALL CONSTRUCTION SIGNS.
2. INSTALL EROSION CONTROL MEASURES. INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A DAILY BASIS. IMPLEMENT NECESSARY MEASURES PER NHDES BEST MANAGEMENT PRACTICES TO MAINTAIN A STABLE WORK AREA.
3. ESTABLISH HORIZONTAL ALIGNMENT LAYOUT AND VERTICAL CONTROL. VERIFY BENCH MARKS AND EXISTING ELEVATIONS.
4. REMOVE TREES AND STUMP. DISPOSE OF DEBRIS. IF TOPSOIL IS STRIPPED THEN IT SHALL BE STOCKPILED AND STABILIZED.
5. CONDUCT TEST PITTING OPERATIONS.
6. INSTALL PROPOSED DRAINAGE CATCH BASINS, CULVERTS, ETC.
7. COMMENCE PAVEMENT RECLAMATION ACTIVITIES.
8. COMMENCE GRADING ACTIVITIES TO ACHIEVE PROPER SUBBASE ELEVATIONS.
9. PLACE, COMPACT, AND FINE GRADE RECLAIMED GRAVEL/ PAVEMENT MATERIALS.
10. INSTALL CURBING AS SHOWN OR IF SHOWN ON DESIGN PLANS.
11. REPLANT DISTURBED LANDSCAPE AREAS.
12. PLACE LOAM, SEED, AND MULCH AS SHOWN AND AS NECESSARY TO STABILIZE AND VEGETATE DISTURBED AREAS. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.
13. INSTALL SIGNS WHERE SHOWN.
14. PLACE PAVEMENT WEARING COURSE.
15. CLEAN ROADWAY AND DRAIN STRUCTURES.
16. PLACE PAVEMENT MARKINGS.
17. DUST SHALL BE CONTROLLED THROUGHOUT CONSTRUCTION WITH ADEQUATE USE OF WATER AND OTHER MEANS NECESSARY TO AVOID A PUBLIC NUISANCE.

TOWN OF SALEM
SALEM, NEW HAMPSHIRE
2023 ROADWAY IMPROVEMENT
PROJECT KEEWAYDIN DRIVE
CIVIL DETAILS 4

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McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NEW HAMPSHIRE 03301

SECTION 00301A

BID

To the Town of Salem, New Hampshire, herein called the Owner, acting by and through its Engineering Department, for the 2023 Roadway Improvement Project – Keewaydin Drive.

The Undersigned, as bidder, herein referred to as singular and masculine, declares as follows:

- (1) The only parties interested in this BID as Principals are named herein.
- (2) This BID is made without collusion with any other person, firm, or corporation.
- (3) No officer, agent, or employee of the Owner is directly or indirectly interested in this BID.
- (4) He has carefully examined the site and adjacent areas of the proposed Work and fully informed and satisfied himself as to the conditions and restraints existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution given said conditions and restraints, and the accuracy of all estimated quantities stated in this BID, and he has carefully read and examined the Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (5) He understands that information relative to subsurface and other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) actually encountered will be the same as those shown in the Contract Documents and he agrees that he shall not use or be entitled to use any such information made available to him through the Contract Documents or otherwise or obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or the Engineer arising from or by reason of any variance which may exist between the aforesaid information made available to or acquired by him and the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) actually encountered during the

BID

00301A -1

construction work, and he has made due allowance therefore in this BID;

- (6) He understands that protection of public or private property is the Contractor's responsibility and any damage, whether in or out of the work limit, to any public or private property, facility, structure or utility resulting from any action of his in the prosecution of work shall be his sole burden to correct to the fullest satisfaction of the owner of such public or private property, facility, structure or utility. He understands that no additional compensation of any kind is warranted or will be granted for any damage to any public or private property, facility, structure, or utility damaged as a result of his prosecution of any work.
- (7) he understands that the quantities of work tabulated in this BID or indicated in the Contract Documents are only approximate and are subject to increase or decrease as deemed necessary by the Engineer.
- (8) he agrees that, if this BID is accepted he will contract with the Owner, as provided in the copy of the Contract Documents deposited in the office of the Engineer, this BID form being part of said Contract Documents, and that he will perform all the work and furnish all the materials and equipment, and provide all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other things required by the Contract Documents in the manner and within the time therein prescribed and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the lump sum or unit price applicable to each item of the Work as stated in the schedule below.

Note: Bidders must submit a completed Statement of Bidders Qualifications with the Bid. Failure to submit a completed Statement of Bidders Qualifications may be deemed by the Owner as a non-responsive Bid. Refer to Section 00420.

Note: Bidders must bid on each item. All entries in the entire BID must be made clearly and in ink. In case of discrepancy between prices in writing and in figures, the writing shall govern. In case of discrepancy between the product obtained by multiplying the estimated quantity by the unit price, and the extended amount, the product obtained shall govern. In case of discrepancy between total of extended amounts and total amount of bid stated, total of items shall govern. Use the pages in this document when submitting proposal and submit contract documents intact.

This BID includes Addenda number(s) _____ (To be filled in by Bidder if Addenda are issued.)

BID
00301A -2

The undersigned agrees that extra work, if any, performed in accordance with the Article 10 of the General Conditions of the Contract will be paid for in accordance with Article 11 of the General Conditions of the Contract.

If this BID is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the Contract within the time stipulated in the AGREEMENT.

As provided in the INSTRUCTIONS TO BIDDERS, the bidder hereby agrees that he will not withdraw this BID for a period of 90 days after the actual date of the opening of the Bid and that, if the Owner shall accept this BID, the bidder will duly execute and acknowledge the AGREEMENT and furnish, duly executed and acknowledged, the required CONTRACT BONDS within ten (10) days after notification that the AGREEMENT and other Contract Documents are ready for signature.

Should the bidder fail to fulfill any of his agreements as hereinabove set forth, the Owner shall have the right to retain as liquidated damages the amount of the bid security which shall become the Owner's property. If a bid bond was given, it is agreed that the amount thereof shall be paid as liquidated damages to the Owner by the Surety.

The bidder, by submittal of this BID, agrees with the Owner that the amount of the bid security deposited with this BID fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

The undersigned further certifies under penalties of perjury that this bid is in all respects bona fide, fair, and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The attached CERTIFICATE OF NON-COLLUSION must be signed and submitted as part of the Bid Proposal.

(SEAL) _____
(Name of Bidder)

By _____
(Signature and title of authorized representative)

(Telephone)

(Business address)

(Fax Number)

(City and State)

Date _____

BID
00301A -3

The bidder is a corporation incorporated in the State (or Commonwealth) of _____ - a partnership - an individual. (Bidder must add and delete as necessary to make this sentence read correctly.)

Note: If the bidder is a corporation, affix corporate seal and give below the names of its president, treasurer, and general manager if any; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business address.

Bid Schedule
2023 Roadway Improvement Project
Keewaydin Dr.
Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
201.101	CLEARING AND GRUBBING	810	SY			
203.1	COMMON EXCAVATION AS DIRECTED	200	CY			
203.6	EMBANKMENT-IN-PLACE AS DIRECTED	200	CY			
214.	FINE GRADING	1	U			
306.110	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP	6200	SY			
306.112	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12" DEEP	2700	SY			
306.36	STONE FOR RECLAIMED STABILIZED BASE	1100	TON			
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	3200	TON			
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	110	TON			
417.	COLD PLANING BITUMINOUS SURFACES	2900	SY			
585.3	RIP RAP (CLASS C1)	50	CY			
604.0007	POLYETHYLENE LINER	16	EA			
604.49	RECONSTRUCT/REMODEL CATCH BASIN	10	EA			

Bid Schedule
2023 Roadway Improvement Project
Keewaydin Dr.
Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
604.45	ADJUSTING CATCH BASIN FRAMES & GRATES	7	EA			
604.5	RECONSTRUCTING/ADJUSTING MANHOLES	12	EA			
604.61	SEWER MANHOLE COVERS AND FRAMES	6	EA			
604.72	GRATES & FRAMES, TYPE B	9	EA			
609.5	RESET GRANITE CURB	200	LF			
609.812	BITUMINOUS CURB, TYPE A	4000	LF			
611.90001	ADJUSTING WATER GATES AND SHUTOFFS SET BY OTHERS	10	EA			
618.6	UNIFORMED OFFICERS	25000	ALLOW	TWENTY-FIVE THOUSAND DOLLARS	\$25,000.00	\$25,000.00
619.1	MAINTENANCE OF TRAFFIC	1	U			
628.2	SAWED BITUMINOUS PAVEMENT	1000	LF			
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	9400	LF			
632.0112	RETROREFLECTIVE PAINT PAVE. MARKING, 12" LINE	140	LF			
632.0118	RETROREFLECTIVE PAINT PAVE. MARKING, 18" LINE	28	LF			

Bid Schedule

2023 Roadway Improvement Project

Keewaydin Dr.

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
632.02	RETROREFLECTIVE PAINT PAVEMENT MARKING, SYMBOL OR WORD	120	SF			
645.512	COMPOST SOCK FOR PERIMETER BERM	500	LF			
645.531	SILT FENCE	500	LF			
645.533	INLET FILTER BASKET	16	EA			
646.51	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM	2800	SY			
692.	MOBILIZATION	1	U			
900	HEADWALL	1	U			
1010.2	ASPHALT CEMENT ADJUSTMENT	10000	ALLOW	TEN THOUSAND DOLLARS	\$10,000.00	\$10,000.00
TOTAL AMOUNT						

Key to Units: LF = Linear Feet; VF = Vertical Feet; SY = Square Yards; CY = Cubic Yards; LS = Lump Sum; EA = Each

CERTIFICATE OF NON-COLLUSION

By submission of this Proposal, the bidder and each person signing on behalf of the bidder, certifies as to its own organization, under penalty of perjury, that to the best of their knowledge and belief:

1. The prices in this Bid Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other bidder or with any competitor for the purpose of restricting competition.
2. Unless required by law, the prices that have been quoted in this Bid Proposal have not been knowingly disclosed and will not knowingly be disclosed by the bidder, directly or indirectly, to any other bidder or competitor prior to opening of Proposals.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a proposal for the purpose of restricting competition.
4. The signers of the Proposal hereby tender to the Owner this sworn statement that the named Contractor(s) has not, whether directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action to restrain free competitive bidding in connection with this Proposal.

A Bid Proposal will not be considered for award nor will any award be made where there has not been compliance with the statements in the certification above.

(Name of person signing bid or proposal)

(Name of business)

END OF SECTION 00301A

BID
00301A -8

Bid Quantity Summary by Location

Note: Quantities herein are provided solely to give the bidder an indication of how work is divided by road. The quantities and locations, however, are not necessarily intended to represent the final amounts to be utilized on each road.

				Location
				Keewaydin Drive
SCHEDULE 1A - ROADWAY IMPROVEMENTS		Total Est. Quant.	Unit	Est. Quant.
Item	Item Description			
201.101	CLEARING AND GRUBBING	810.0	SY	810.0
203.1	COMMON EXCAVATION AS DIRECTED	200.0	CY	200.0
203.6	EMBANKMENT-IN-PLACE AS DIRECTED	200.0	CY	200.0
214.	FINE GRADING	1.0	U	1.0
306.110	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP	6,200.0	SY	6200.0
306.112	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12" DEEP	2,700.0	SY	2700.0
306.36	STONE FOR RECLAIMED STABILIZED BASE	1,100.0	TON	1100.0
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	3,200.0	TON	3200.0
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	110.0	TON	110.0
417.	COLD PLANING BITUMINOUS SURFACES	2,900.0	SY	2900.0
585.3	RIP RAP (CLASS C1)	50.0	CY	50.0
604.0007	POLYETHYLENE LINER	16.0	EA	16.0
604.49	RECONSTRUCT/REMODEL CATCH BASIN	10.0	EA	10.0
604.45	ADJUSTING CATCH BASIN FRAMES & GRATES	7.0	EA	7.0
604.5	RECONSTRUCTING/ADJUSTING MANHOLES	12.0	EA	12.0
604.61	SEWER MANHOLE COVERS AND FRAMES	6.0	EA	6.0
604.72	GRATES & FRAMES, TYPE B	9.0	EA	9.0
609.5	RESET GRANITE CURB	200.0	LF	200.0
609.812	BITUMINOUS CURB, TYPE A	4,000.0	LF	4000.0
611.90001	ADJUSTING WATER GATES AND SHUTOFFS SET BY OTHERS	10.0	EA	10.0
618.6	UNIFORMED OFFICERS	25,000.0	ALLOW	25000.0
619.1	MAINTENANCE OF TRAFFIC	1.0	U	1.0
628.2	SAWED BITUMINOUS PAVEMENT	1000.00	LF	1000.0
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	9,400.0	LF	9400.0
632.0112	RETROREFLECTIVE PAINT PAVE. MARKING, 12" LINE	140.0	LF	140.0
632.0118	RETROREFLECTIVE PAINT PAVE. MARKING, 18" LINE	28.0	LF	28.0
632.02	RETROREFLECTIVE PAINT PAVEMENT MARKING, SYMBOL OR WORD	120.0	SF	120.0
645.512	COMPOST SOCK FOR PERIMETER BERM	500.0	LF	500.0
645.531	SILT FENCE	500.0	LF	500.0
645.533	INLET FILTER BASKET	16.0	EA	16.0
646.51	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM	2,800.0	SY	2800.0
692.	MOBILIZATION	1.0	U	1.0
900	HEADWALL	1.0	U	1.0
1010.2	ASPHALT CEMENT ADJUSTMENT	10,000.0	ALLOW	10000.0

ROADWAY QUANTITY SUMMARY - KEEWAYDIN DRIVE

						Item 306.108	Item 306.208	Item 306.110	Item 306.212	Item 306.112	Item 403.11A	Item 403.11B	Quantity Notes
AREA	Station		Description	length (ft)	avg. width (ft)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Binder amnt.(ton)	Wearing amnt.(ton)	
Keewaydin	from	to											
	1+25	6+50	Mill & overlay	525	55							289	
	6+50	9+75	Reclaim 12"	325	38						355	133	
	6+50	9+75	Reclaim 12"	325	41					1481			
	9+75	23+25	Reclaim 10"	1350	38						1368	513	
	9+75	23+25	Reclaim 10"	1350	41			6150					
	23+25	26+45	Reclaim 12"	320	34					1209	290	109	Cul-de-sac
	8+00	26+25		1825	3						146		Binder under Bit. Curb
Totals (Keewaydin)						0	0	6,150	0	2,689	2,159	1,044	

						Item 306.108	Item 306.208	Item 306.110	Item 306.212	Item 306.112	Item 403.11A	Item 403.11B	Quantity Notes
AREA	Station		Description	length (ft)	avg. width (ft)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Binder amnt.(ton)	Wearing amnt.(ton)	
	from	to											
Totals ()						0	0	0	0	0	0	0	

						Item 306.108	Item 306.208	Item 306.110	Item 306.212	Item 306.112	Item 403.11A	Item 403.11B	Quantity Notes
AREA	Station		Description	length (ft)	avg. width (ft)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Amnt. (sy)	Binder amnt.(ton)	Wearing amnt.(ton)	
	from	to											
Totals ()						0	0	0	0	0	0	0	

TOTALS: 0 0 6150 0 2689 2159 1044

02/08/16

Page 1 of 7

SSD: 09/01/10, 10/05/10, 12/01/10, 02/08/11, 03/07/11, 04/21/11, 09/06/11, 10/02/11, 01/15/12, 11/07/12, 12/05/12, 01/10/13, 04/05/13, 09/14/13, 10/16/13, 11/13/13, 02/04/14, 03/11/14, 04/14/14, 07/07/14, 09/09/14, 12/16/14, 01/06/15, 01/16/15, 01/23/15, 02/24/15, 03/06/15, 04/08/15, 05/14/15, 05/21/15, 06/16/15, 09/23/15, 12/14/15, 01/15/16, 01/25/16

SPECIAL ATTENTION

THIS PROJECT IS TO BE BID AND CONSTRUCTED UNDER THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

NOTICE OF SUPPLEMENTAL SPECIFICATIONS

The following table is a list of all of the Supplemental Specifications that have been adopted as additions or revisions to the *Standard Specifications for Road and Bridge Construction*, **August 2010** Edition as of the date of this Proposal. The Bidder is responsible to examine each item to determine its effect, if any, upon the Contract.

Note: Due to the limited scope of some projects, not all Supplemental Specifications will be included in all Proposals. All Supplemental Specifications are available on-line: www.nh.gov/dot/org/projectdevelopment/highwaydesign/specifications/.

Section	Description	Revision	Last Revision Date	Current Revision Date
<i>DIVISION 100</i>				
101	Definitions and Terms	Incorporates Electronic Bidding Terms		04/07/15
102	Bidding Requirements and Conditions	Incorporates Electronic Bidding into the Specifications		04/07/15
104.04	Scope of Work	Clarifies what materials may be re-used or mined		01/23/15
104.07	Railway-Highway Provisions	Changes Railroad Flagging from a Pay Item to a Force Account through DOT		01/14/15
107.01	Laws to be Observed	Bulletin Board Requirements	06/16/15	01/15/16
107.01 (7 th ¶)	Legal Relations and Responsibility to Public	Revises wording pertaining to discharge and spillage into water		01/23/15
108.06	Methods and Equipment	Highlights Contractor's responsibility to prevent runoff of polluting materials		01/23/15
108.09	Failure to Complete on Time	Liquidated Damages Chart	10/05/10	04/14/14
109.04	Differing Site Conditions, Changes and Extra Work	Regional Adjustment Factor	09/01/10	1/06/12
109.04.4.4	Equipment and Plant	Rental Equipment Mark-up		11/07/12
109.09	Payments to Subcontractors	Prompt Payment		09/06/11
109.11	Measurement and Payment	Final Pay Quantity		11/07/12
<i>DIVISION 200</i>				
202	Filling Abandoned Pipes	3.7.1.1 & 5.9 – Requires pumping of flowable fill		09/09/15

203	Blasting	3.1 & 3.2 are reorganized; best management practices incorporated		04/07/15
211	Vibration Monitoring	References to Section 203 are updated; survey requirements are revised		04/07/15
214	Fine Grading	3.1 – Amends the tolerance for specific slopes prior to paving to 0.2%		01/10/13
<i>DIVISION 300</i>				
304	Shoulder Leveling	2.6 – Specifies the material used for a shoulder leveling product.		04/07/15
304	Aggregate Base Course	3.1.4 – Specifies what recycled materials can be used as an aggregate base course		01/23/15
306	Reclaimed Stabilized Base	3.2 – Specifies what is to be done when stone is included or ordered 2.1.2 – Refers to Table 1E in 703 4.2 – Additional pass not measured 5.2 – Additional pass subsidiary	01/23/15	05/21/15
<i>DIVISION 400</i>				
401	Recycled Asphalt Shingles; TRB	Amends 1.2 & 2.10 – Disallows use of Recycled Asphalt Shingles in Asphalt Amends 2.4.3 – Amends use of Total Reclaimed Binder (TRB)		10/15/14
401	Recycled Oil in Asphalt	Amends 2.2.1 – Disallows use of used oil in Asphalt Adds 2.2.3.1 – Disallows use of used oil in Asphalt	09/08/14	05/14/15
401	Binder Failure Penalty	Adds 2.2.1.1 – Assesses a penalty for non-compliant asphalt cement.		12/14/15
401	Job Mix-General	2.5.1 - Revises ESAL/Minimum Binder Content Criteria and adds more sizes into Table 1 2.5.1.1 – Specifies that all 25mm base course mixes be designed using 50 gyration.	01/10/13	01/23/15
401	Asphalt Modifiers	2.11 – Adds QC/QA Specifications to High-Strength Mix Quantities over 2,000 Tons		01/10/13
NOTE: THIS SUPPLEMENTAL WAS REPEALED ON 12/14/2015				
401	Asphalt Modifiers/MSCR Test	Amends 2.11 – Removes the use of AASHTO M 332 (MSCR), and improves general clarity of section.	01/23/15	12/14/15
401	Warm Mix Asphalt	2.11.2 – Allows the use of WMA 3.4.11, 3.6.3.1 & 3.10.7.2 – Amends min delivery temperature to 260° F		01/23/15

401	Joints	<p>2.12.1 - Adds Pavement Joint Adhesive Properties</p> <p>3.13.4 – Assures full head of Material for Permanent Transverse Joints</p> <p>3.13.5 - Removes Requirement for Hot Air Lance, Adds Requirements for Melting Kettle, and Allows Echelon Paving In Lieu of Pavement Joint Adhesive, Defines Joint Adhesive for Bridge Base</p> <p>3.13.8 – Defines Echelon paving; Adds Items for Pavement Joint Adhesive for Bridge Base and Echelon Paving</p>	01/10/13	06/16/15
401	Placing	<p>Adds 3.10.4 - Sets limit of maximum compaction at 5 inches.</p> <p>3.10.7.2 – Adds reference to WMA Supplemental</p> <p>3.10.7.4 – Requires the use of WMA during colder months</p>	01/23/15	01/22/16
401	Pavers	<p>Removes 3.11.3 – Performance Requirements to 3.11.1.1 for both QC/QA and Method Work</p> <p>Renames 3.11.1.1.1 – MTV Requirements to 3.11.3 and Assures Ability to Re-mix and Movable Discharge Conveyors for MTVs</p> <p>3.11.1.2 – Specifies use of MTVs for 600 tons of asphalt</p>	12/14/11	01/23/15
401	Roller Train/Density Cores/Density Penalty	<p>3.12.1 – Clarifies the equipment needed for a roller train</p> <p>3.12.2.4 (formerly 3.12.1.4) - Requires Informational Density Cores for Shoulder Overlays and Lessens Density Penalty for Overlays Not Previously Leveled; Specifies 91% as Minimum Compaction Requirement</p> <p>3.12.2.4.1 – Requires less cores on small quantity jobs</p>	04/07/15	02/04/16
401	QC/QA Lot Size	3.17.2.2 – Amends QC/QA Lot Sizes		09/10/15
401	Acceptance Testing - Air Voids	3.17.3.2 - Revises AASHTO reference to ASTM reference, Requires Information Shoulder Cores, Eliminates Upper Limit of Core Thickness, changes Lower Limit to 2.5% Instead of Previous 3.0%	01/10/13	02/04/16
401	Disputed Cores	3.17.3.2.2 – Amends number of cores required in a dispute to be three		01/23/15
401	Pavement Thickness	3.17.3.3 – Clarifies what should and should not be measured for thickness	01/23/15	02/24/15

401	Cross Slope Tolerance	3.17.3.5.1 – Clarifies how Cross Slope measurements will take place 3.17.3.5.2 – Amends cross slope tolerance to be 0.2% 3.17.3.6.3 – Requires Remeasuring and Retesting Requests to be in writing to the Engineer	01/23/15	06/16/15
401/403	Bridge Base Pavement	Delete 401.4.3 & 403.5.3 Amend Pay Item to Remove Final Pay from Bridge Base Pavement		03/27/14
410	Bituminous Surface Treatment	2.1 - Identifies Asphalt Emulsion Grades & Changes last line in table to °C, as well as changes the CRS-1 and CRS-1h temperature values 3.4.1.1 – Updated to require a span of application rates of tack coat 5.3 – Updated reference due to 401.3.10 revision Method of Measurement, Basis of Payment, and Pay Items and Units were revised to include pay item for Asphalt Emulsion for tack Coat 06/16/15 revision moved Asphalt Emulsion for Tack Coat table to Section 702	05/14/15	06/16/15
411	Surface Treatment	2.1.1 – Asphalt binder PG grade will be called for via Special Provision 2.1.2 – Removes Type G mix from use 3.4.4 – Amends minimum delivery temperature to 260° F (except for specified circumstances) 3.4.8 – Specifies 8' paver for Drag Shim	01/23/15	02/24/15
417	Cold Planing Bituminous Surfaces	3.1.1 & 3.1.3 – Specifies acceptable equipment for planing bituminous surfaces		01/23/15
<i>DIVISION 500</i>				
511	Preparation for Concrete Bridge Deck Repairs	Adds the Application of Anti-corrosion Coating to Uncoated Reinforcing Steel in Patch Areas		01/10/13
NOTE: THIS SUPPLEMENTAL WAS REPEALED ON 05/14/2015				
520	Portland Cement Concrete	3.1.3.2.1(k) – Performance Requirements (QC/QA) – Requires Ceramic or Porcelain Dishes Replaces 2.8 - Identifies bearing strip material and bonding agent Adds 3.6.3.3 – Specs bearing strip Amends 2.3.3.2 – Updates corrosion inhibitors	03/27/14	01/14/15

520	Excess Cover and Grout	2.9 – Removes Concrete Bonding Agent 2.9.1 – removes bridge deck overlays 5.9.5.2 – addresses negative pay adjustment for excess cover over Rail Support Slabs	01/23/15
520	Portland Cement Concrete	Specifies the Surface Resistivity Test as a replacement for Rapid Chloride Penetration Test	01/23/15
520	Portland Cement Concrete	3.11.2 – Revises Concrete Loading Requirements while Curing.	09/10/15
528	Prestressed Concrete Members	Specifies the Surface Resistivity Test as a replacement for the Rapid Chloride Penetration Test	01/23/15
538	Barrier Membrane	3.1.1 & 3.3.1.4 – Adds Requirement of Digital Ambient Temperature, Dew Point, and Infrared Surface Temperature Instruments 3.3.5 – Specifies Laydown Temperature of Pavement Overlays	01/23/13
559	Asphaltic Plug Expansion Joints, Asphaltic Plug Crack Control	New Section	10/16/13
560	Prefabricated Compression Seal Expansion Joint	Replaces Section 560 – Prefabricated Compression Seal Expansion Joint	10/16/13
561	Prefabricated Expansion Joint	Replaces Section 561 – Prefabricated Expansion Joint	10/16/13
563	Bridge Railing	Removes Final Pay (F) Designation from Items	11/07/12
566	Elastomeric Joint Seal	Deletes Section 566	01/23/15
582	Slope Paving	Removes Bed of Sand Requirement	11/25/14
583	Riprap	Updates Riprap Spec; creates new classes, more in line with HEC No. 23.	12/14/15
585	Stone Fill	Amends 1.1 – expands on the intended use of the new stone fill items.	12/14/15
586	Placing Excavated Rock	Deletes Section 586	12/14/15
587	Keyed Stone Fill	Deletes Section 587	12/14/15
591	Structural Plate Pipes, Pipe-Arches, and Arches	3.1.2 – Expands LRFD Bridge Construction Specifications to include assembly and installation of structural plate structures.	01/23/15
593	Geotextile	Amends paragraphs 2.1 and replaces 2.3.2 to present NTPEP audit program and update test methods	03/27/14

DIVISION 600

603	Culverts and Storm Drains	Revises 1.1 and 5.1 - Stipulates sawed pavement required for this work shall be subsidiary Adds 3.1.10 – Conformance to 628.3.4 Amends 2.9.1 – PVC Manufacturers' Participation in NTPEP Revises structure of Materials section and adds new requirements for pipe manufacturers. Requires the Engineer to be made aware of any pipe deformation quickly	06/30/14	02/24/15
604	Catch Basins, Drop Inlets and Manholes	Revises 1.1 and 5.1 - Stipulates sawed pavement required for this work shall be subsidiary Adds 3.1.3 – Conformance to 628.3.4		04/14/14
604	Catch Basins, Drop Inlets and Manholes	Adds new pay item 604.0002 – Clean Drainage Structure		05/14/15
NOTE: THIS SUPPLEMENTAL WAS REPEALED ON 12/14/2015				
605	Underdrain	605.2.3 – PVC Manufactures' Participation in NTPEP	12/05/12	06/30/14
606	Guardrail	Updates Retroreflective Sheeting to current AASHTO standards		01/23/15
606	Guardrail	Amends 3.3 to require Contractors to provide detail sheets and installation plans to the Engineer.		01/14/15
608	Detectable Warning Devices	Revises Description, Equipment, and Construction Requirements sections		06/30/14
614	Electrical Conduit	Revises 1.1 and 5.1 - Stipulates sawed pavement required for work shall be subsidiary Adds 3.1.3 – Conformance to 628.3.4		04/14/14
618	Training Requirements for Uniformed Officers and Flaggers	Deletes and Adds revised Description, Equipment, and Construction Requirements sections 2.1 – Specifies blue lights of officers' vehicles having 360° visibility	01/04/12	01/23/15
619	Trailer Mounted Speed Signs	2.1.3 & 2.1.3.1 – Updates Retroreflective Sheeting to current AASHTO standards 3.2.3.1 – Revises how the Contractor gets approval		01/23/15
621/622	621 - Delineators 622 - Markers and Bounds	621 – AASHTO Update & Required Documentation; specifies posts; updates colors 622 – Required Documentation	04/03/14	09/08/14

624	Railroad Protection	Removes Railroad Protection as a Pay Item and updates reference to 104.07		01/14/15
628	Sawed Pavement	Replaces 5.2 and Adds 4.2 - Stipulates sawed pavements requirements Adds 5.3 – When payment is under 628.3		04/14/14
632	Retroreflective Pavement Markings	Adds 2.2.1 – Levels of Arsenic and Lead in Glass Beads Deletes 632.3.2.8.1 & 632.3.2.8.2	03/07/11	11/07/12
644	Grass Seed – Slope Seed (WF) Type 45 Mix	Amends 2.3		10/02/11
645	Erosion Control	3.2.1.2 – Clarifies ambiguous CESSWI language 3.1.7 – Amends Requirement for Permanent Stabilization from 14 Days to 3 Days Amends 4.6.1, 4.6.1.1, and 5.6 regarding SWPPP and SWPPP monitoring measurement and payment	01/24/14	01/23/15
645	Erosion Control	Clarifies language in the spec to be more in line with NPDES		03/06/15
698*	Field Facilities (Field Office Equipment)	Updates Field Offices and Required Equipment by Replacing Section 698	01/15/12	01/06/15
<i>DIVISION 700</i>				
702	Bituminous Materials	Combines the Anionic tables to include both English and Metric units, adds a Cationic Asphalt Emulsion table which incorporates the information from 410.2.1 – Asphalt Emulsion for Tack Coat		06/16/15
718	Retroreflective Sheeting	Updates for current ASTM Specifications and Removal of Certain Film Requirements	09/04/13	11/06/13

* Supplemental will not be included if there is no Field Office item in the Contract.

03/21/18

SSD: 03/01/16, 06/10/16, 6/11/16, 06/27/16, 08/03/16, 10/31/16, 11/28/16, 06/19/17, 11/30/17

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SPECIAL ATTENTION**ERRATA SHEET**

The following table is a list of corrections to the 2016 *Standard Specifications for Road and Bridge Construction*, as of the date of this Proposal.

Section	Description	Correction	Date
<i>DIVISION 100</i>			
104.03	Maintenance of Traffic	Amend 'winter work suspensions' in 104.03 to read 'Winter Suspension'.	06/07/07
<i>DIVISION 200</i>			
<i>DIVISION 300</i>			
<i>DIVISION 400</i>			
<i>DIVISION 500</i>			
		Insert the following footnotes under Table 520-1A:	
		¹ See 3.1.6 TESTING	
		² For mixes containing fly-ash, silica fume, slag, or any other pozzolanic or cementitious material, the water/cement ratio of the concrete mix shall be based on the water cementitious (cement + pozzolanic or cementitious material) ratio of the mix. This water to cementitious ratio shall not exceed those listed in Table 1A. The maximum water/cement ratios listed for Concrete Class B and T are for design purposes only.	
		³ Deck Overlays.	
520	Classes of Concrete	⁴ <u>Maximum</u> 84 day Compressive Strength for Flowable Fill, Excavatable shall not exceed 200 psi.	06/11/16
		⁵ These are recommended values that may be used as a starting point for a mix design that has shown ability to meet the requirements. The amount of cement shall be adjusted and fly-ash or ground granulated blast furnace slag shall be used provided the mix design meets the minimum and does not exceed the maximum compressive strength in accordance with 2.11.1.	
		⁶ Target values shown are for mix design approval only and are not intended for use as quality control or quality assurance requirements.	

Section	Description	Correction	Date
520	Classes of Concrete – Performance Requirements (QC/QA)	Amend the title of <i>Table 420-1B - Class of Concrete – Performance Requirements (QC/QA)</i> to <i>Table 520-1B - Class of Concrete – Performance Requirements (QC/QA)</i>	11/28/16
528	Shear Key Grout for Butted Beams	Amend 528.2.9.1 to read: <i>Grout for shear keys shall be an approved grout as listed in Section 528A of the Qualified Products List.</i> Amend 528.2.9.2 to read: <i>For testing, 3 neat 2” cubes shall be molded and cured in accordance with AASHTO T 106 (ASTM C 109). The average compressive strength of the 3 cubes at 7 days shall be a minimum of 6000 psi.</i>	06/10/16
528	Installation of Deck Panels	Replace last sentence of 528.3.22.6.4 to read: <i>If leveling screws are used, they shall be completely removed and the holes filled with grout listed in Section 528A of the Qualified Products List prior to placement of deck concrete.</i>	06/10/16
550	PTFE Surfaces for Bearings	Amend the first sentence of 550.2.10 to read: <i>PTFE for use in expansion bearing assemblies shall be 100 percent virgin (unfilled) polytetrafluoroethylene polymer...</i>	08/03/16
550	Anchor Rods	Amend 550.3.15.4.1 to read: <i>Anchor rods shall be set in one of the following materials:</i> <i>(a) Non-shrinking, non-ferrous, cement-base grout listed in Section 550A of the Qualified Products List. This grout shall be used only when both the temperature of the masonry and the ambient temperature are kept at 40 °F or above until the grout has cured.</i> <i>(b) Sulfur.</i> Amend the first sentence of 550.3.15.4.2 to read: <i>Non-shrinking, non-ferrous, cement base grout shall be a product as included in Section 550A of the Qualified Products List.</i>	06/10/16
563	Bridge Rail	Amend 4.1 to read: <i>Bridge rail, of the type specified, will be measured by the linear foot to the nearest tenth of a foot.</i>	06/27/16
<i>DIVISION 600</i>			
606	Handrail	Amend 606.2.8.2 to read: <i>Grout for anchoring the pipe posts shall be High Strength, Impact Resistant, Non-shrink Grout as included in Section 528A of the Qualified Products List.</i>	06/10/16

Section	Description	Correction	Date
606	Temporary Impact Attenuators	Amend in 606.2.10.2 the reference to 2.12.4 to 2.10.4.	11/28/16
	Repair of Hardened Concrete	Amend in 606.3.7.12.A the reference to <i>Fast Set Non-shrink Patching Mortar</i> to <i>Rapid-Hardening Patching Material</i> .	03/21/18
609	Curbing	Amend the 2 nd sentence of 609.2.5 to read: <i>The non-shrink, non-metallic grout shall be a product as included in Section 550A of the Qualified Products List.</i>	06/10/16
609	Curb anchors	Amend 609.3.1.5.1 to read: <i>Curb anchors shall be set and grouted using non-shrink, non-metallic grout as shown on the plans.</i>	06/10/16
621	Delineators	Add the following to the end of 621.3.1.3: <i>Grout shall be as listed in Section 550A of the Qualified Products List or as directed by the Engineer.</i>	06/10/16
632	Pavement Markings	Amend the AASHTO reference in 3.2.3.1 to read: <i>AASHTO M248 Type F</i>	
<i>DIVISION 700</i>			
707	Cement Mortar	Amend 2.3 to read: <i>Testing for impurities shall comply with AASHTO T 21. Results that are darker than the standard shall be cause for rejection, except as provided in 2.3.1.</i>	10/31/16
		Amend 2.3.1 to read: <i>Sand for mortar not conforming to 2.3 shall be tested in accordance with AASHTO T 71 and shall meet the requirements of 5.2.3 of AASHTO M 45.</i>	

09/12/16

SSD: 1/7/00, 3/22/00, 6/14/00, 2/8/01, 4/2/01, 1/25/02, 4/1/02, 04/15/03, 04/20/04, 05/06/05, 05/19/06, 09/17/07, 06/12/08, 03/04/09, 08/26/09, 06/28/10, 06/10/11, 04/12/12, 04/18/13, 01/02/14, 10/22/14, 01/16/15, 01/15/16

SPECIAL ATTENTION

QUALIFIED PRODUCTS LIST

The applicable version of the Qualified Products List for this project is **Issue 2016-2**, which is available online at www.nhdot.com on the *Doing Business with DOT>Contractors* webpage. A link to the Qualified Product List is shown under the *Products and Materials* heading in the *Engineering/Technical Information* section of this webpage.

The Qualified Products List (QPL) is usually revised annually early in the calendar year; however, an interim update may occur prior to the annual update. Superseded versions of the QPL are not posted online.

Products added to a future version of the QPL can be used under this contract upon issuance of the revised QPL. The Contractor shall not use the anticipated addition of a product to the QPL as a basis for use of a product. A product removed from a future version of the QPL can be still used under this contract unless specifically directed by the Department that the removed product shall not be used.



MEETING AGENDA

Date: January 11, 2023

From: James Danis, Engineering Dept

Subj: 2023 Road Program Pre-Bid Meeting

Keewaydin Drive

Brook Hollow Dr, Island Rd, London Rd, Gordon Ave, Main Street

Introductions:

Salem Engineering Dept

- James Danis - Town of Salem, Engineering Dept. - Project Lead
- Gia Facadio - Purchasing Agent
- Matt Moore - McFarland Johnson

Project Location:

- Keewaydin Drive
 - Industrial park, intersects with Pelham Road
 - Access from Exit 2
- Brook Hollow Dr, Island Rd, London Rd, Gordon Ave, Main Street
 - Brook Hollow intersects with Camelot adjacent to Shannon Rd
 - Gordon Ave intersects with Shadow Lake Rd
 - London – Adjacent to Shadow Lake Rd
 - Island Rd – intersects with Shore Dr
 - Main Street Between Broadway and Millville Street

Project descriptions:

- Keewaydin Drive
 - 2,600 LF, 38-feet wide, curbed road
 - Reclaim In place and Mill/overlay
 - Minimal drainage – drain structure remodels
 - Coordinate proposed grades after reclaim of roadway. The intent of the project is to have a balanced site and to minimize sideline impacts.
 - 5.5" Pavement section with bit curb
 - Shoulder work – associated with curb install
 - Traditional Subdivision w/ 60-foot ROW
 - No utility work proposed



- Neighborhood Road Reconstruction Project
 1. Brook Hollow
 - 1,500 LF, 24 feet wide road, Reclaim in-place
 - No drainage –
 - Structure adjusts and casting replacements
 2. Island Road
 - 375 LF, 16-feet wide,
 - Culvert replacement only
 - Full Depth Mill (4" deep). Pave within 2 days.
 3. London Road
 - 1,150 LF, 16-feet wide ,
 - Reclaim Remove Rehandle
 - Culvert replacement, box widening,
 4. Gordon Ave
 - Total 2,200 LF, 24-feet wide
 - Reclaim in-place, Mill/Overlay
 - no drainage.
 5. Main Street Sidewalk construction/reconstruction –
 - 400 LF, 36-feet wide
 - Sidewalk reconstruction (7-foot Concrete sidewalks) and Reclaim in-place
 - No Drainage or utility work.
- Traditional Subdivisions:
 - 60-foot ROW (Keewaydin)
 - 50-foot ROW (Gordon, Brook Hollow) , 40-foot ROW (London)
- Base line control – Survey layout and best fit combination – The Contractor will layout the road which will be reviewed by the engineer for modifications as appropriate to minimize impacts.
- Vertical Control – Upon completion of reclamation activities – The contractor shall profile the road according to design. Engineer will review grades to minimize impacts to adjacent parcels. Goal to have a balanced site with minimal sideline impacts.

Utilities

- Water on Keewaydin, Brook Hollow, Main St
- Sewer on Keewaydin and Main St
- Gas on Keewaydin and Main St
- Utility Poles (Kewaydin, Main St, London, Island)
 - No impact
- Underground utilities (Main St, Gordon, Brook Hollow)
 - No impact

Addendums

- Published Friday 1/17/23
- New Bid Sheets and plans
 - missing items, clarifications (gravel, crushed, crushed fine)

Bids:

- **BIDS DUE**
 - **Keewaydin Drive – 1:30 PM, January 24, 2023**
 - **Neighborhood Roads – 1:30 PM, January 24, 2023**
- Instructions to Bidders: **read it**
- Bid
- Qualifications & Subs
- Acknowledgement of Addendum #1 (and any others that may arise)
- Bid Bond – 5% of Contract
- Statement of non-collusion

Funding:

- Subject to Town vote in March

Required Documents for Winning Bidder

- Contract Award Status (NOA, NTP, Agreement)
- Performance, Payment, & Warrantee Bonds
- Insurance Certificates
- Contract Documents (3 copies)

Traffic Control

- Signage –Construction signage – minor in nature. No detours
- Police details – scheduling challenges
- Two way traffic during non-work hours

Permit

- NHDES Wetland permit
 - Routine Roadway Maintenance (Keewaydin)

Construction Schedule

- Substantial Completion:
 - Keewaydin
 - **June 15, 2023**
 - Neighborhood Roadway Project
 - **September 13, 2023**
- Final Completion:
 - Northwester/Bannister
 - **July 18, 2023**
 - Neighborhood Road Project
 - **October 19, 2023**
- Weekend/Holiday/night work - Not allowed

Submittals

- Shop Drawings

- Certificates of Compliance
- Cut sheets

Other Projects

- Duston Road
- Tuscan Village
- Salem Depot Intersection
- Overlay Program