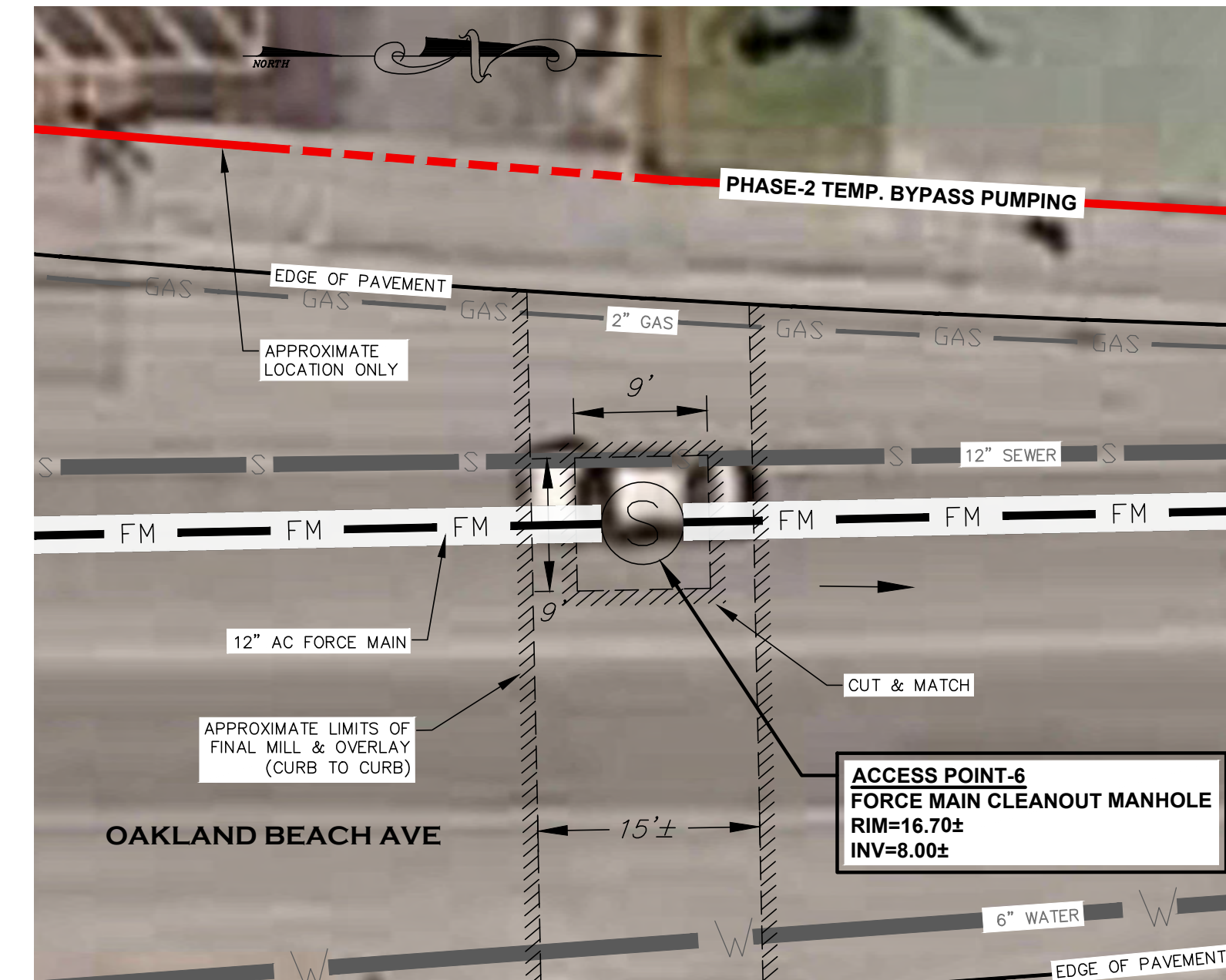


ACCESS POINT-4 & 5 AERIAL VIEW

SCALE: 1"=10'



ACCESS POINT-6 AERIAL VIEW

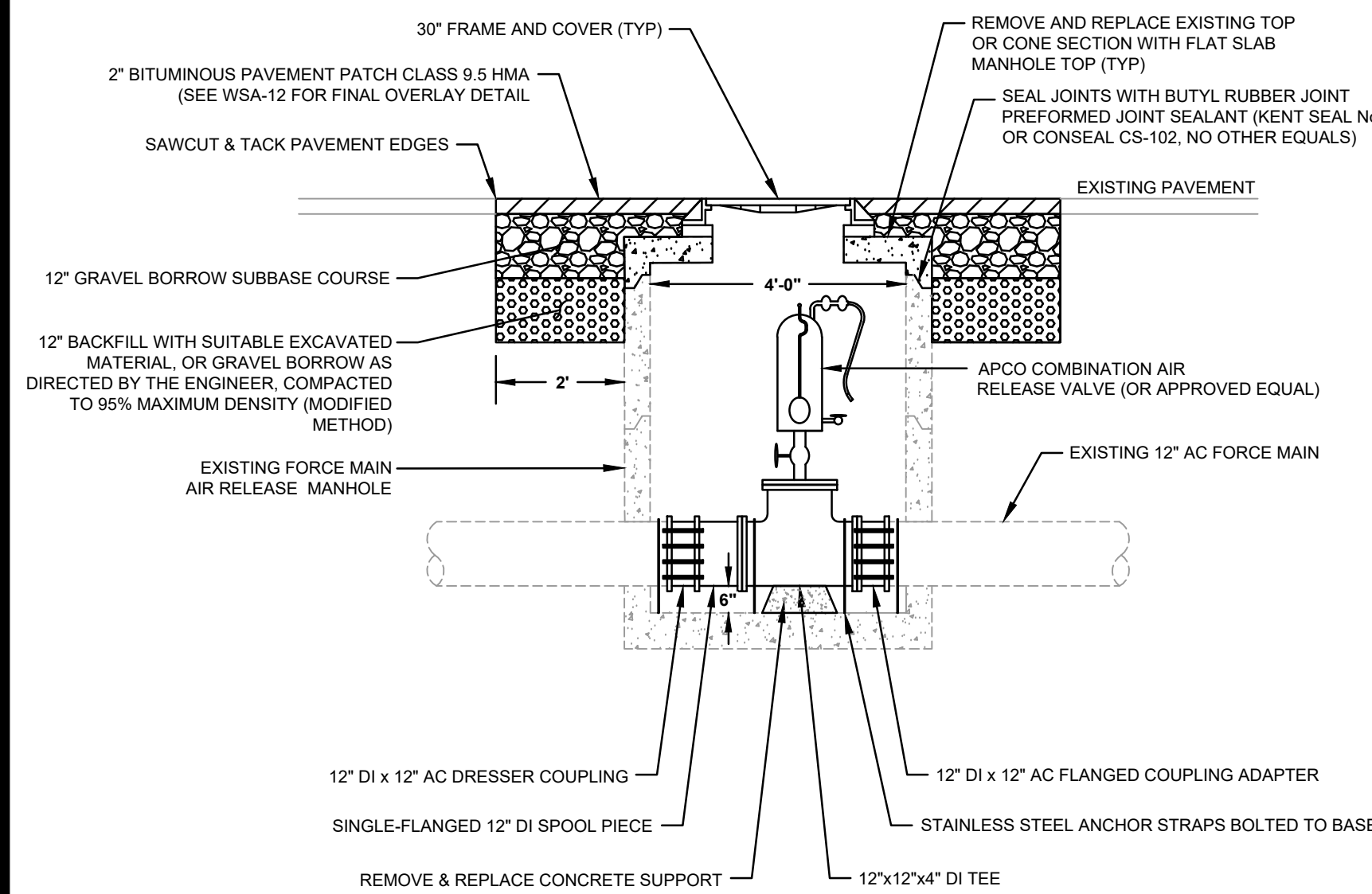
SCALE: 1"=10'



ACCESS POINT-4 INSPECTION PHOTO



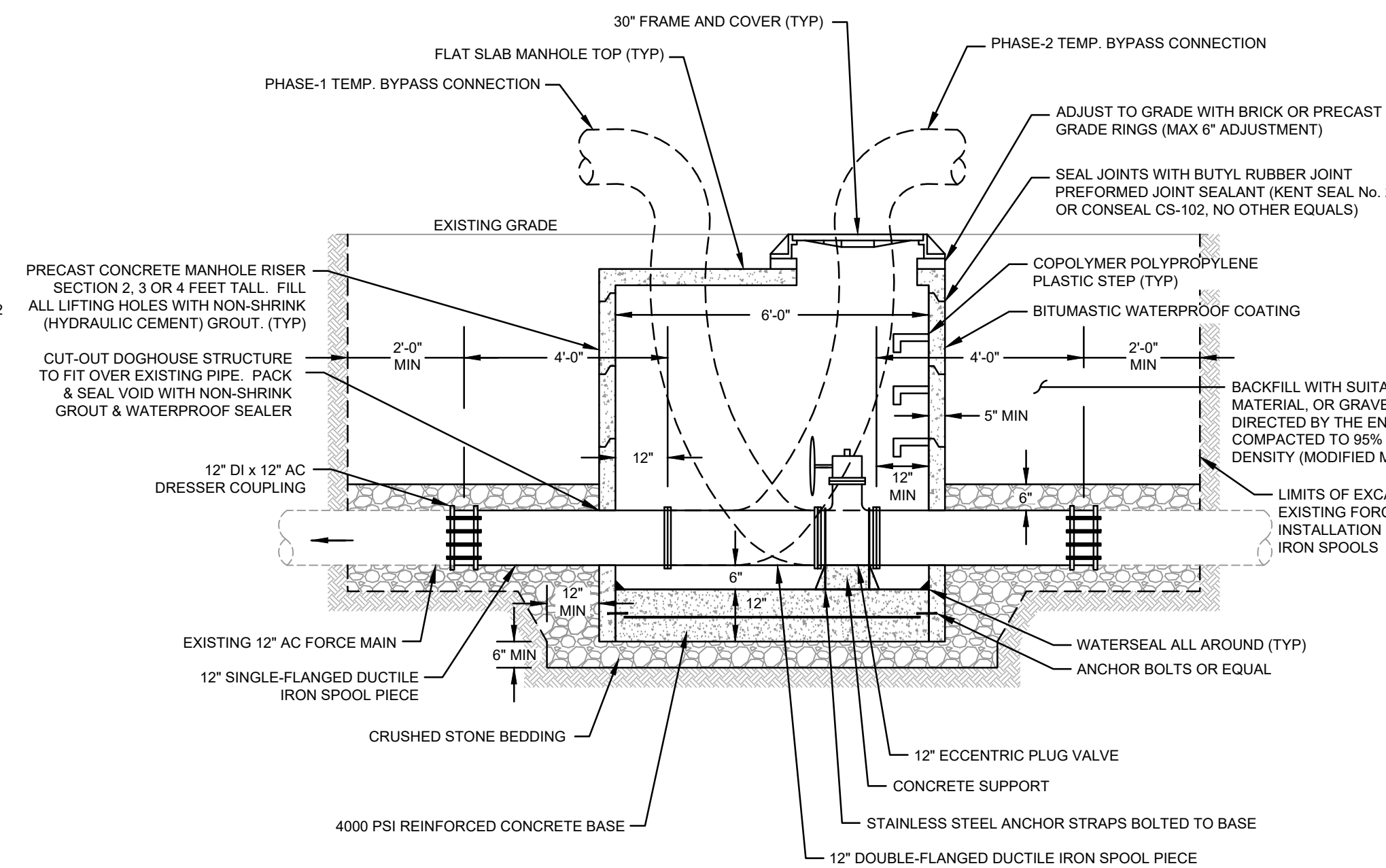
ACCESS POINT-6 INSPECTION PHOTO



ACCESS POINT-4 PROFILE VIEW

SCALE: NTS

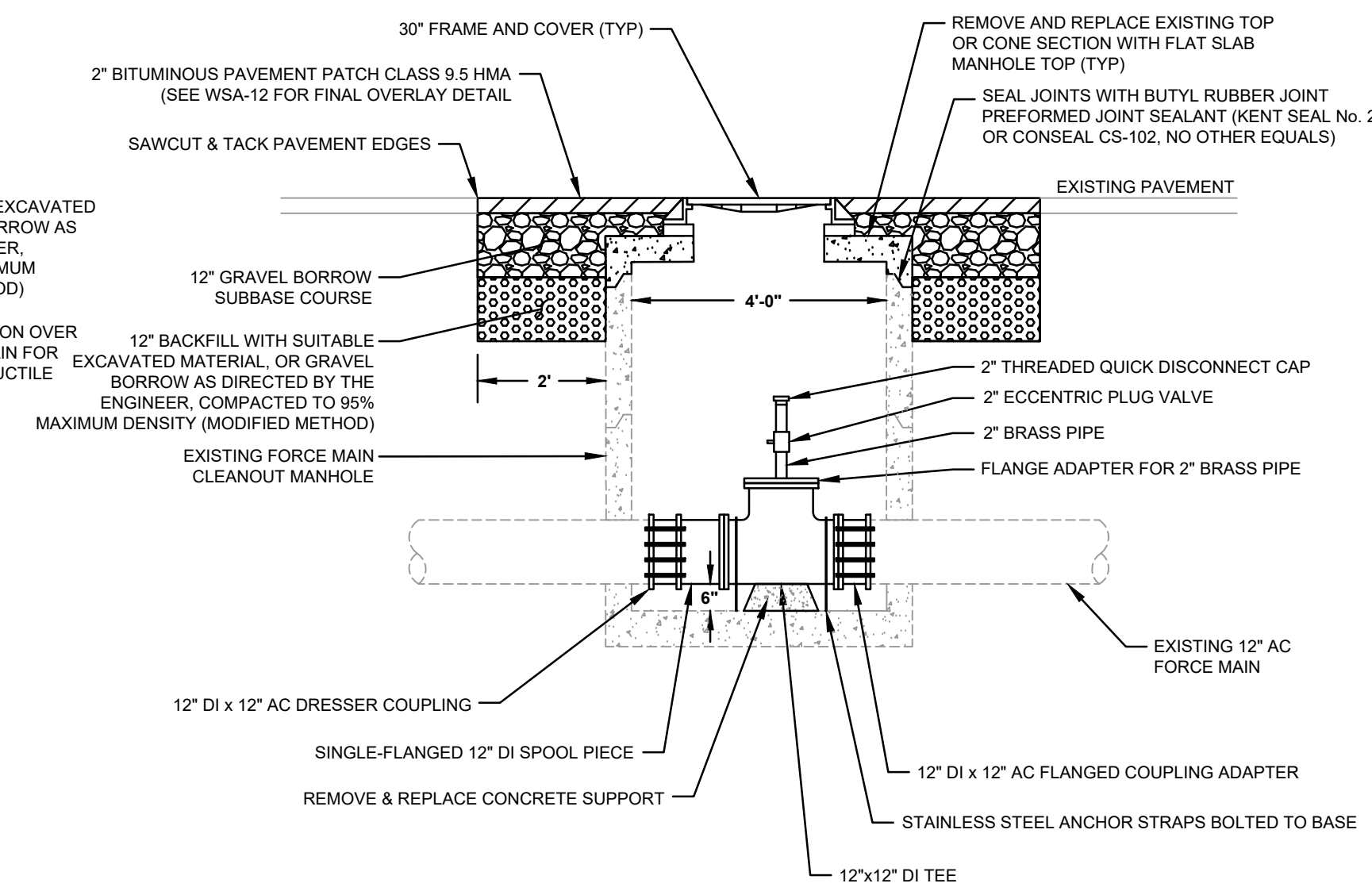
- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



PROPOSED ACCESS MANHOLE-1 PROFILE VIEW

SCALE: NTS

- NOTES:
1. MANHOLE CONSTRUCTION SHALL CONFORM TO LATEST ASTM C478 SPECIFICATION FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AND THE RI STANDARD DETAILS.
  2. SERVICE SHALL BE MAINTAINED WITHIN EXISTING FORCE MAIN DURING CONSTRUCTION OF THE MANHOLE STRUCTURE.
  3. GATE VALVE AND DUCTILE IRON SPOOL SEGMENTS WILL BECOME PERMANENT FIXTURES UNDER FINAL CONDITIONS AS SHOWN, HOWEVER SPOOL SEGMENT/VALVE ASSEMBLY WITHIN STRUCTURE SHALL BE REMOVED AS NEEDED TO FACILITATE TEMPORARY BYPASS PUMPING AND CURED-IN-PLACE PIPE LINING OPERATIONS.
  4. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  5. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  6. INSTALL STAINLESS STEEL ANCHOR STRAPS
  7. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



ACCESS POINT-6 PROFILE VIEW

SCALE: NTS

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-3  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE

**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project and site shown. They are not to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

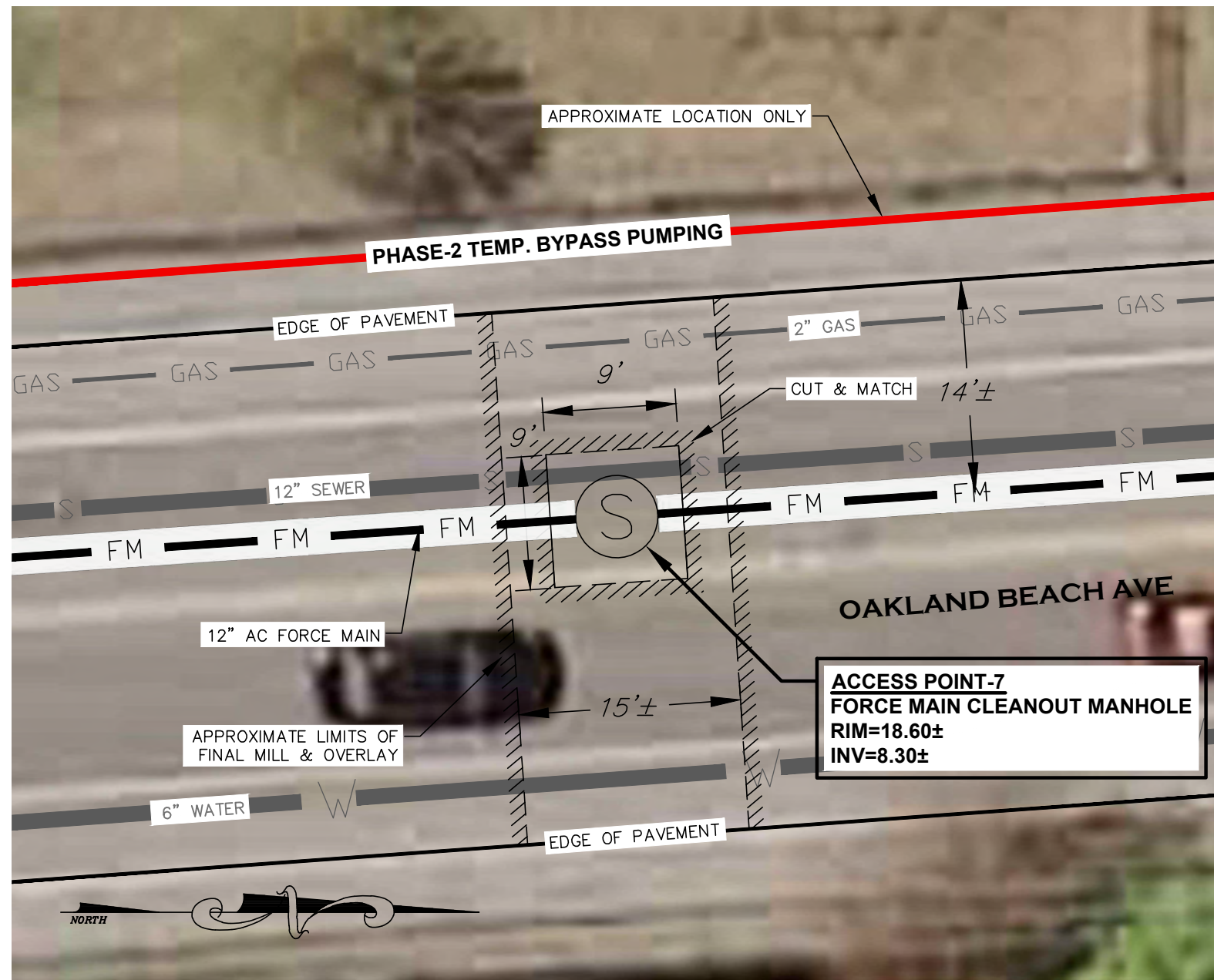
SHEET

12

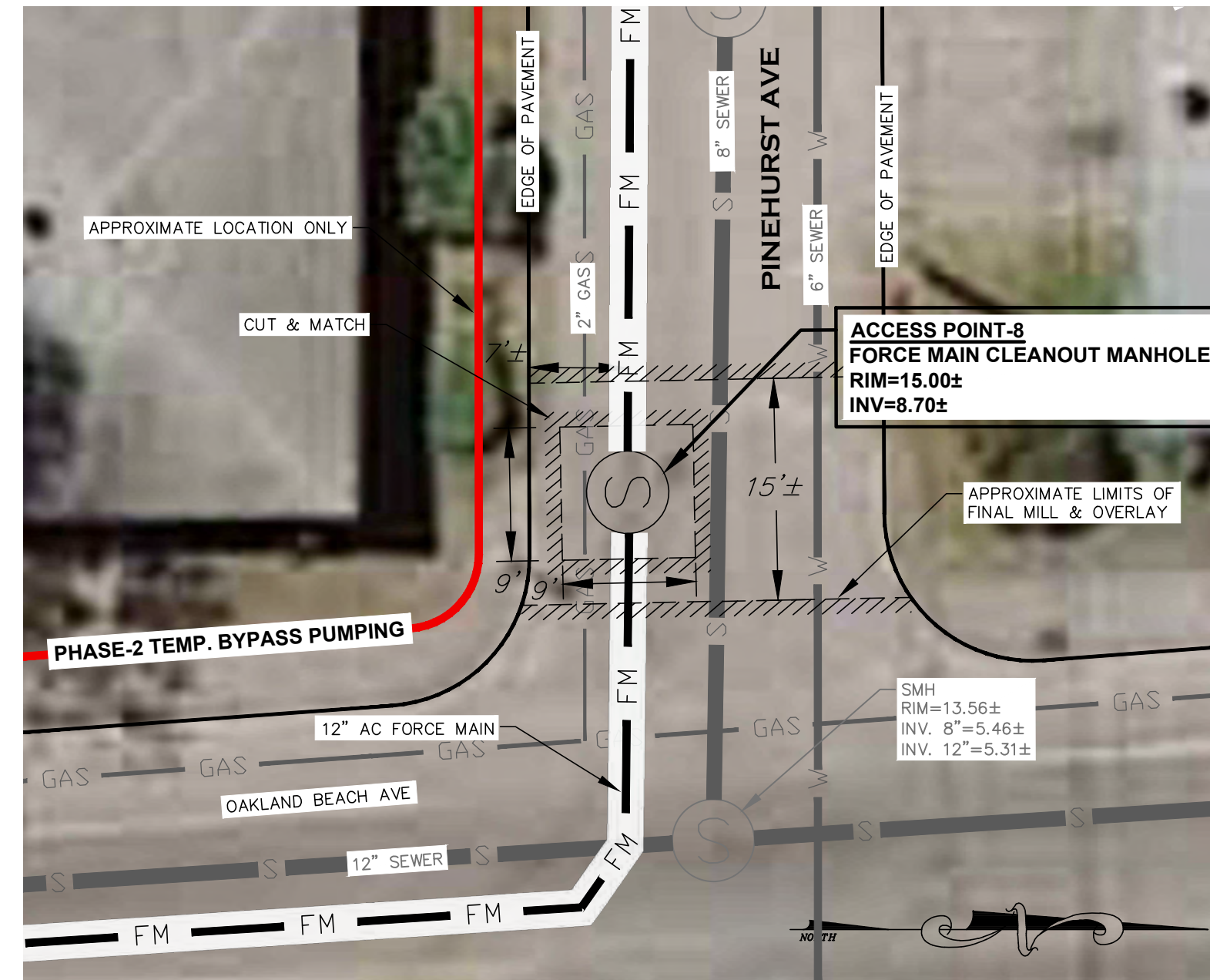
12 OF 22 SHEETS

L:\7279-00\_Oakland Beach (WSA) - Warwick, RI\img\01-Current\7279-00-Base.dwg 07/23/2024, revision 15:22

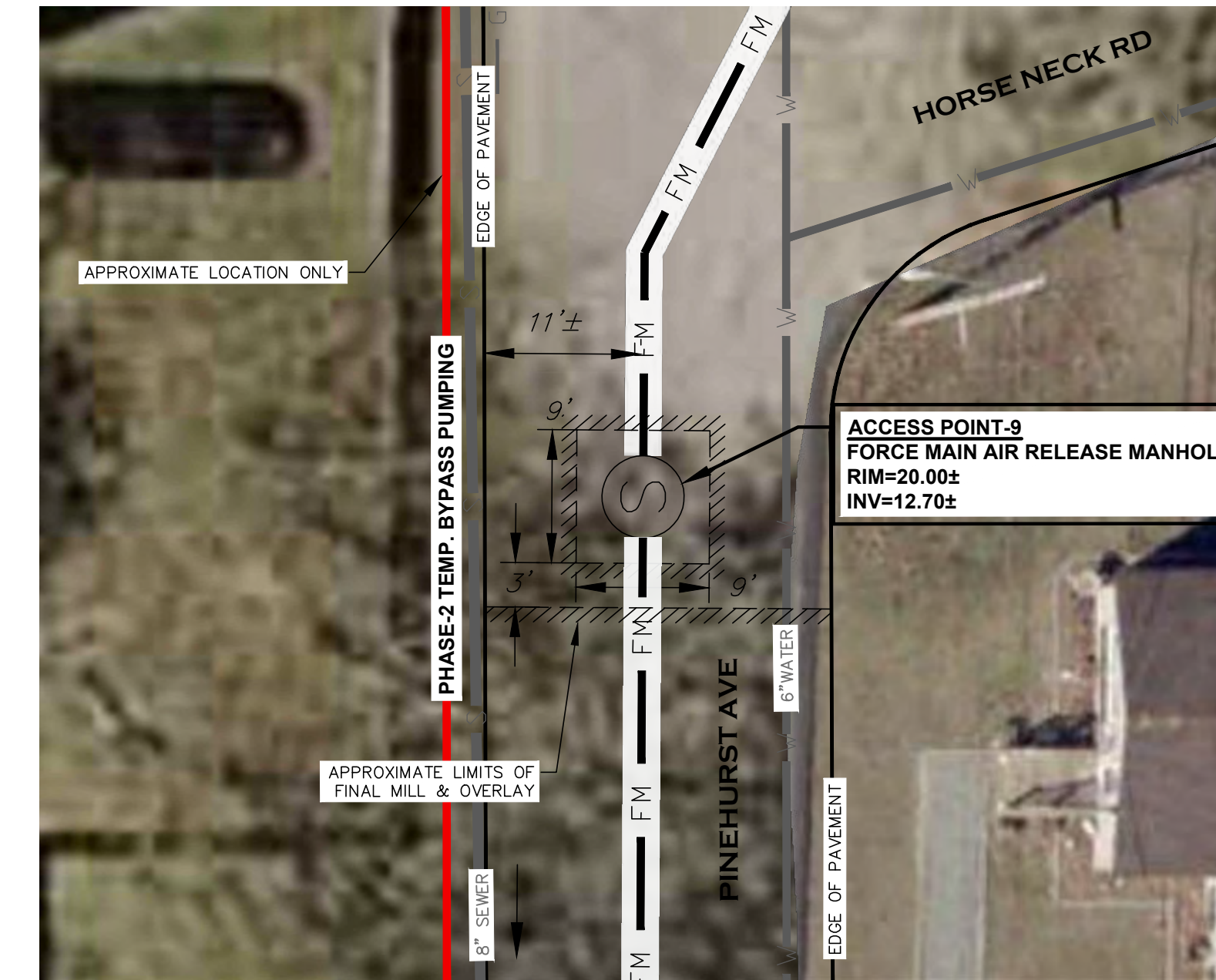




**ACCESS POINT-7 AERIAL VIEW**  
SCALE: 1"=10'



**ACCESS POINT-8 AERIAL VIEW**  
SCALE: 1"=10'



**ACCESS POINT-9 AERIAL VIEW**  
SCALE: 1"=10'



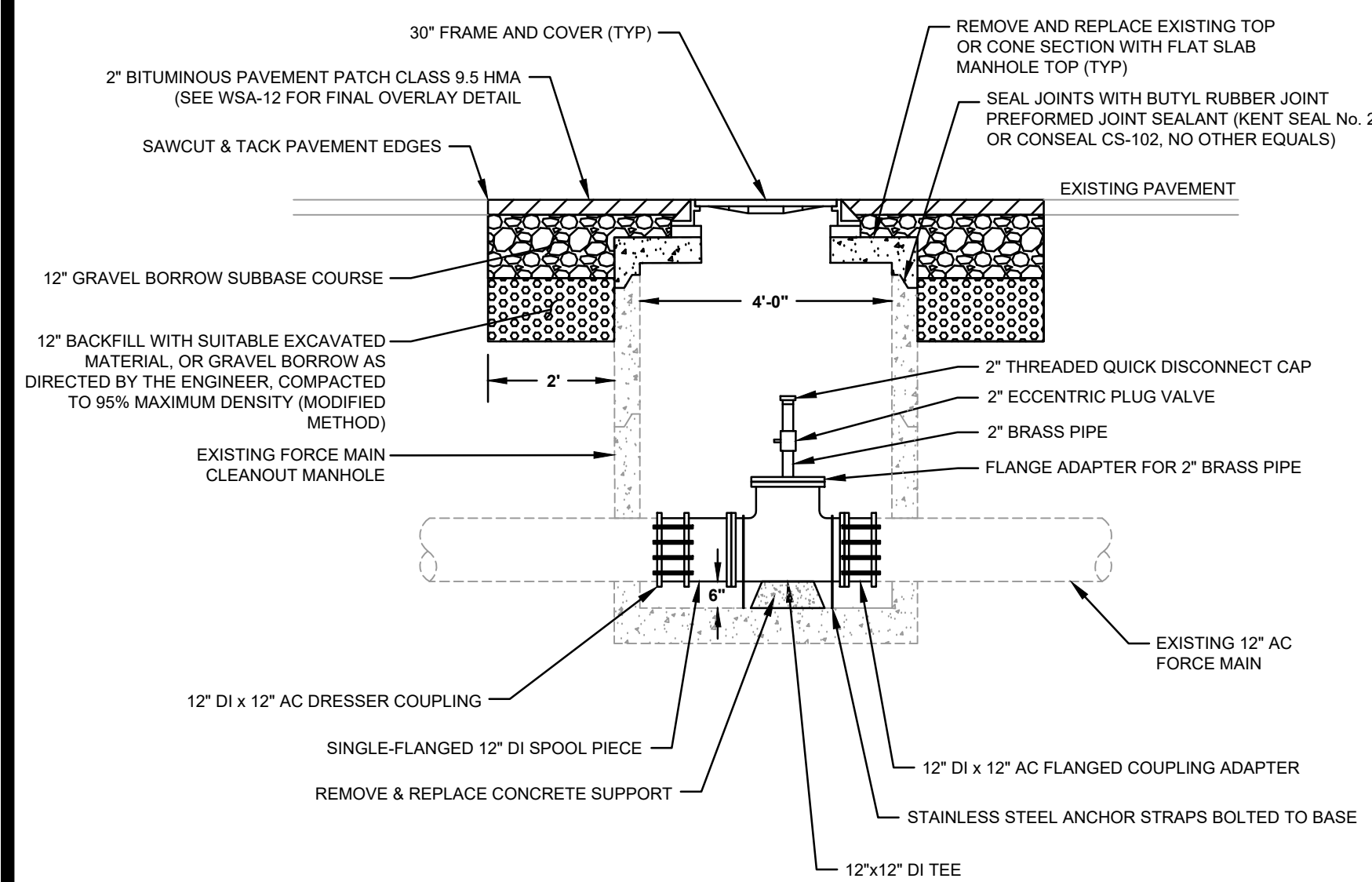
**ACCESS POINT-7 INSPECTION PHOTO**



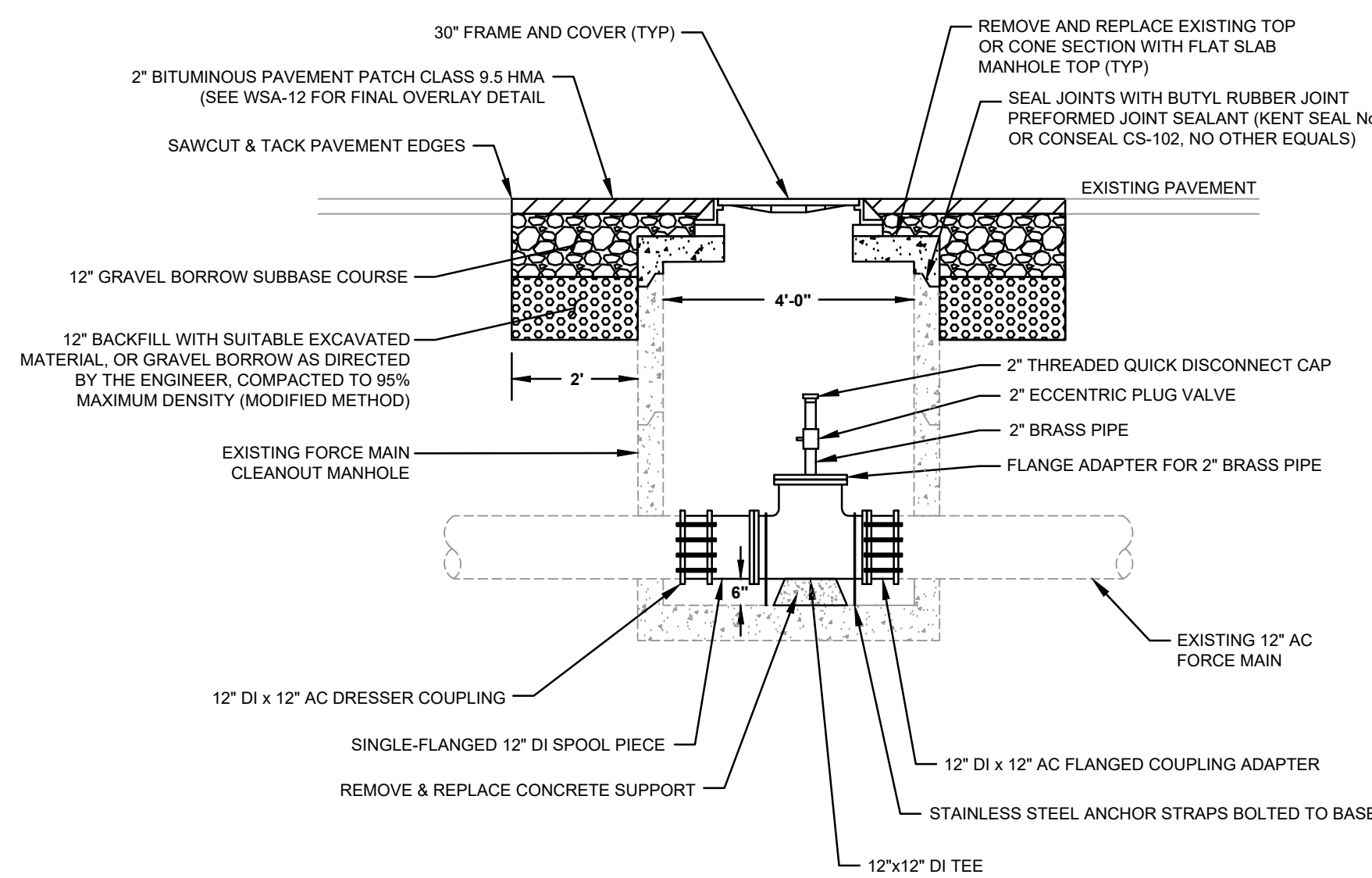
**ACCESS POINT-8 INSPECTION PHOTO**



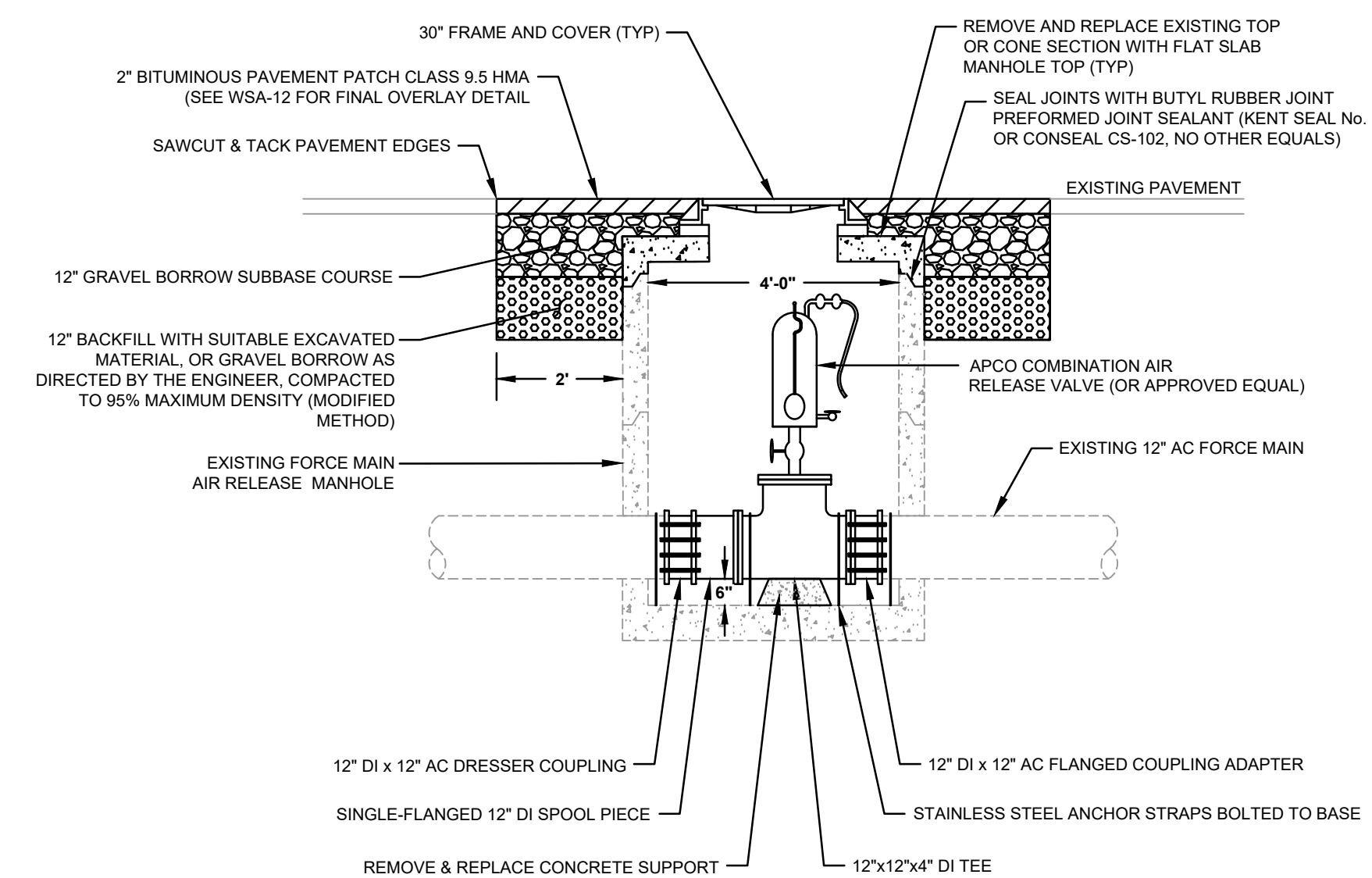
**ACCESS POINT-9 INSPECTION PHOTO**



**ACCESS POINT-7 PROFILE VIEW**  
SCALE: NTS



**ACCESS POINT-8 PROFILE VIEW**  
SCALE: NTS



**ACCESS POINT-9 PROFILE VIEW**  
SCALE: NTS

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-4  
FOR  
**OAKLAND BEACH FORCE MAIN  
REHABILITATION**  
SITUATED AT  
**OAKLAND BEACH  
WARWICK, RI**  
PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE

**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

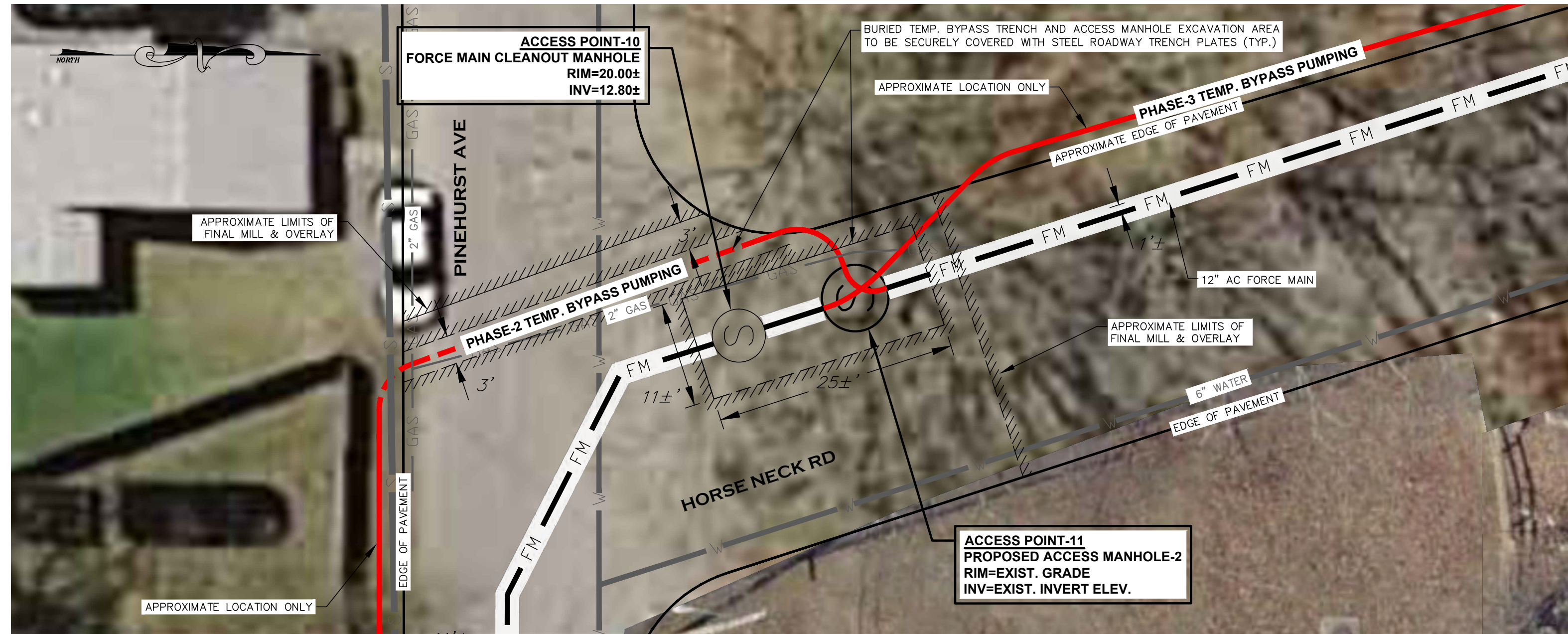
Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project. No part of this drawing is to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

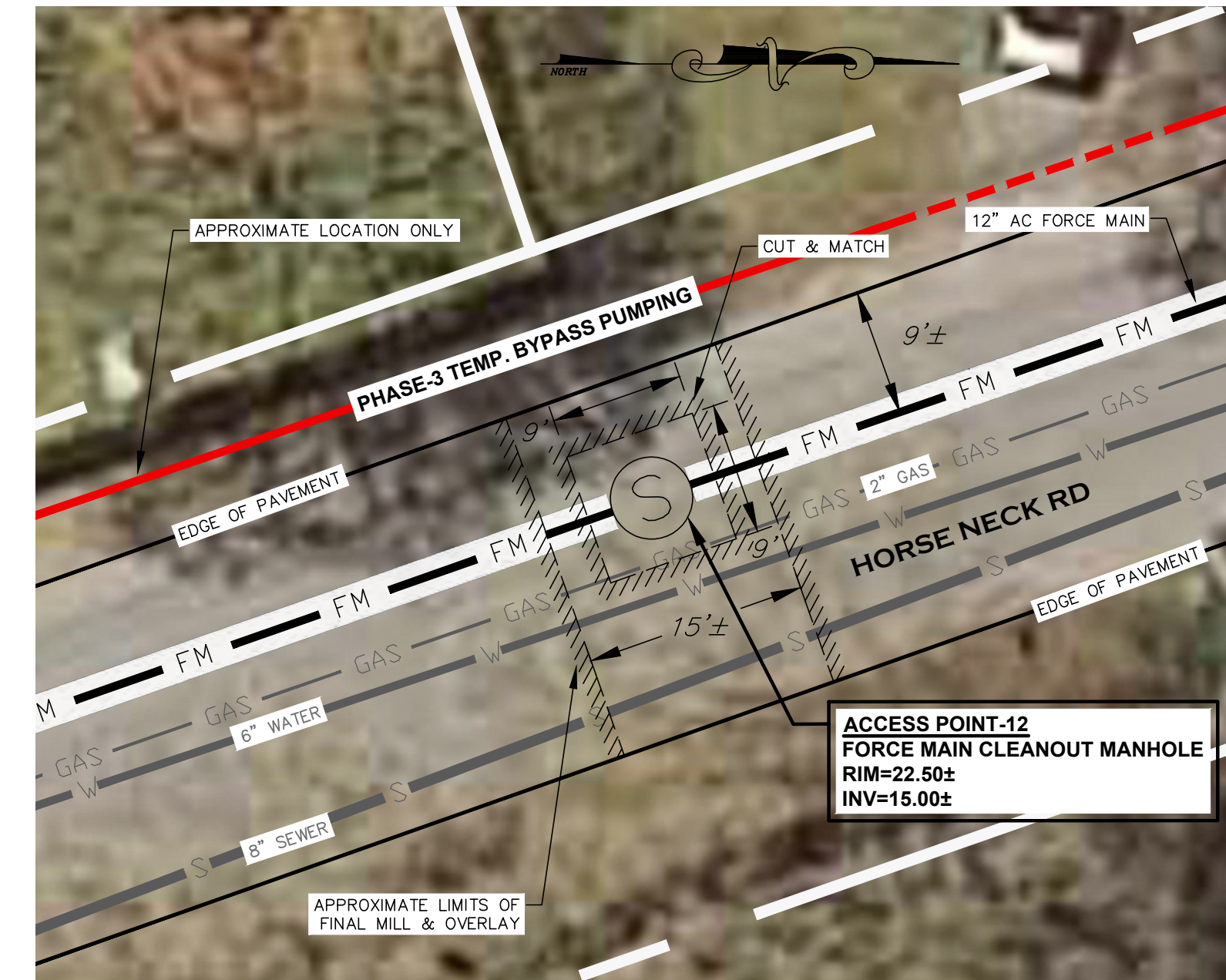
SHEET  
**13**  
13 OF 22 SHEETS

L:\7279-00 Oakland Beach (WSA) - Warwick, RI\img\01-Current\7279-00-Base.dwg 07/23/2024, revision 15:22





ACCESS POINT-10 & 11 AERIAL VIEW  
SCALE: 1"=10'



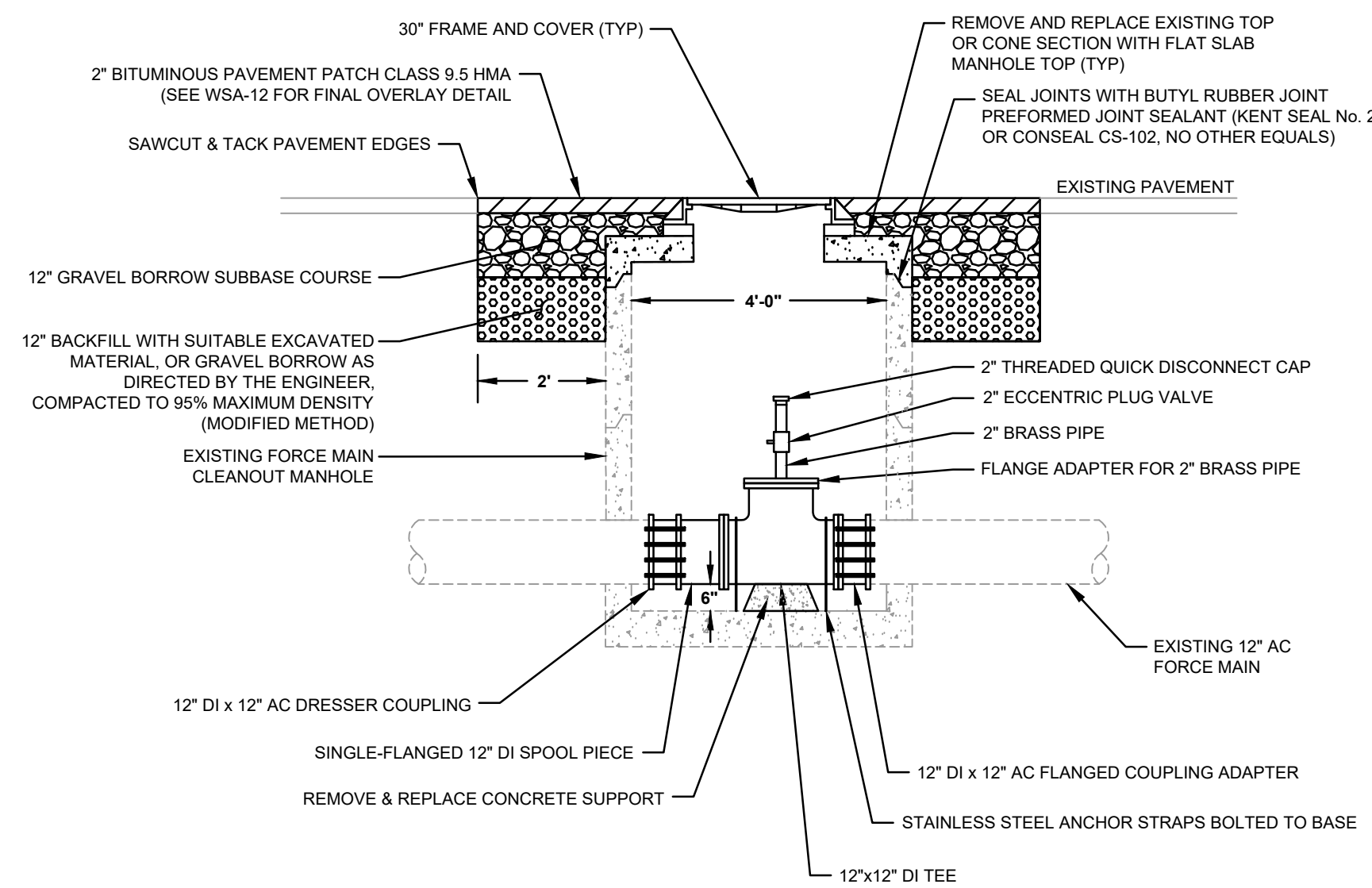
ACCESS POINT-12 AERIAL VIEW  
SCALE: 1"=10'



ACCESS POINT-10 INSPECTION PHOTO

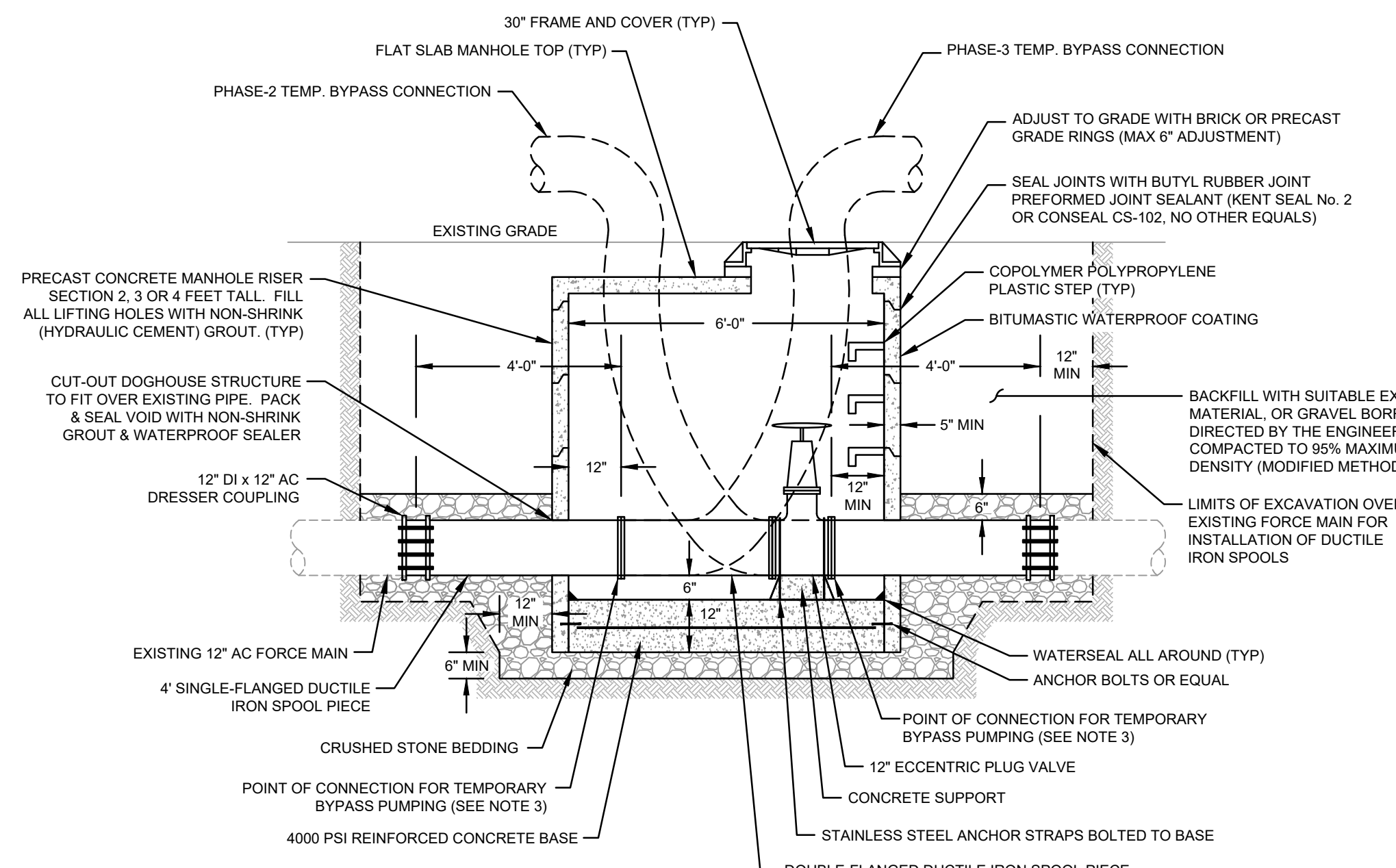


ACCESS POINT-12 INSPECTION PHOTO



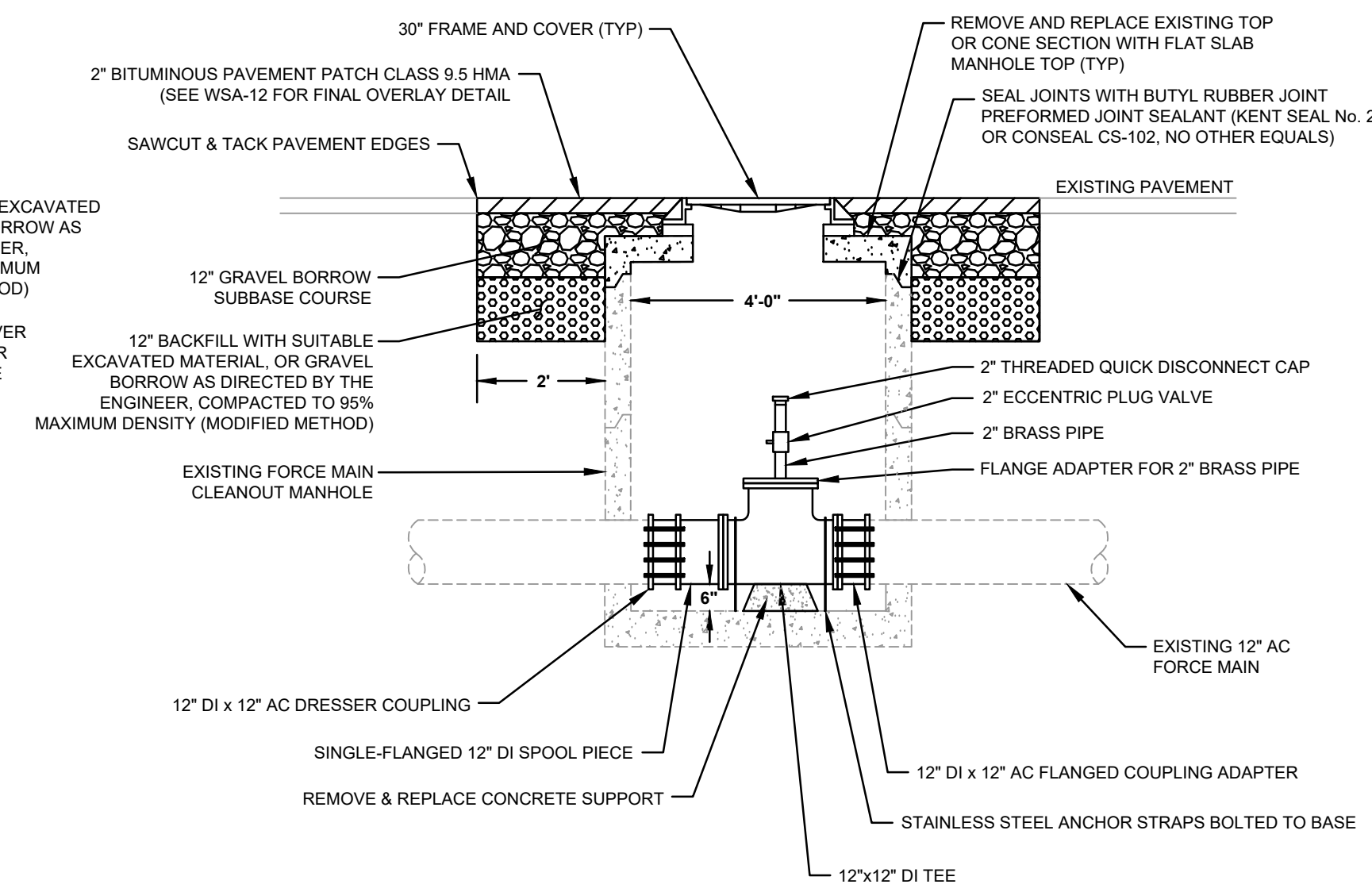
ACCESS POINT-10 PROFILE VIEW  
SCALE: NTS

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



PROPOSED ACCESS MANHOLE-2 PROFILE VIEW  
SCALE: NTS

- NOTES:
1. MANHOLE CONSTRUCTION SHALL CONFORM TO LATEST ASTM C478 SPECIFICATION FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AND THE RI STANDARD DETAILS.
  2. SERVICE SHALL BE MAINTAINED WITHIN EXISTING FORCE MAIN DURING CONSTRUCTION OF THE MANHOLE STRUCTURE.
  3. GATE VALVE AND DUCTILE IRON SPOOL SEGMENTS WILL BECOME PERMANENT FIXTURES UNDER FINAL CONDITIONS AS SHOWN, HOWEVER SPOOL SEGMENT/VALVE ASSEMBLY WITHIN STRUCTURE SHALL BE REMOVED AS NEEDED TO FACILITATE TEMPORARY BYPASS PUMPING AND CURED-IN-PLACE PIPE LINING OPERATIONS.
  4. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  5. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  6. INSTALL STAINLESS STEEL ANCHOR STRAPS
  7. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



ACCESS POINT-12 PROFILE VIEW  
SCALE: NTS

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-5  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE

**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

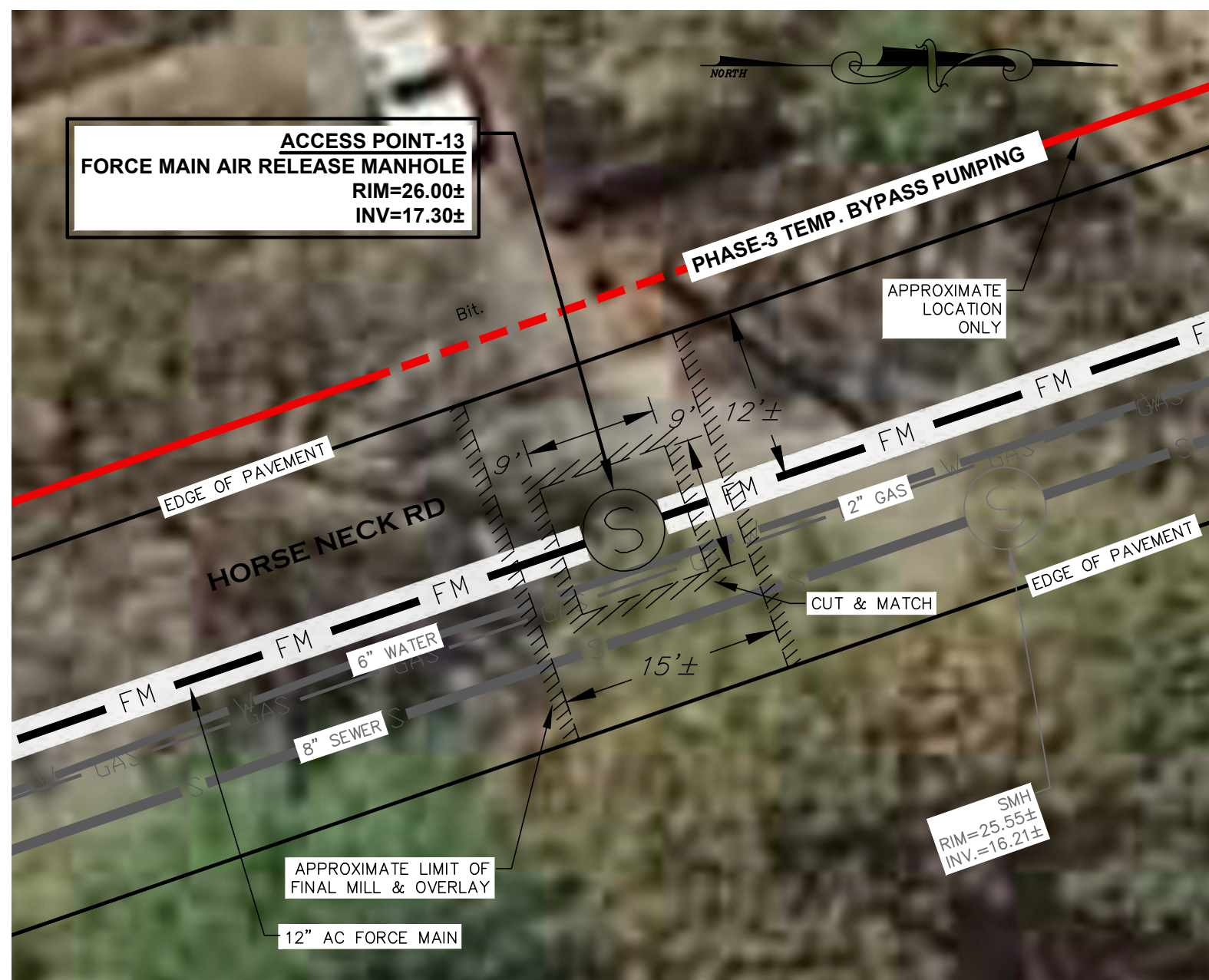
85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project at this site and are not to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
DATE: OCTOBER 22, 2021	

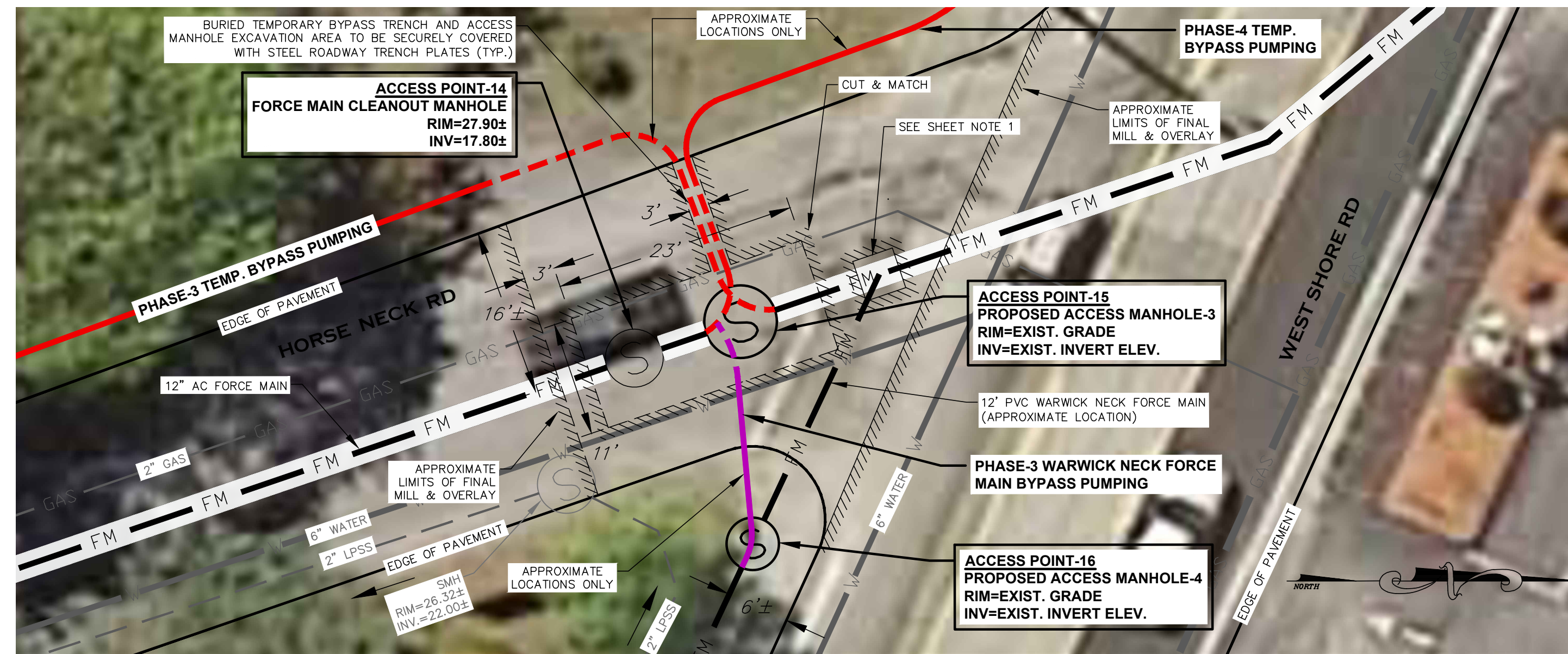
L:\7279-00 Oakland Beach (WSA) - Warwick, RI\img\01-Current\7279-00-Base.dwg 07/23/2024, revisions 15:23





ACCESS POINT-13 AERIAL VIEW

SCALE: 1"=10'



ACCESS POINTS 14-16 AERIAL VIEW

SCALE: 1"=10'

**SHEET NOTES:**

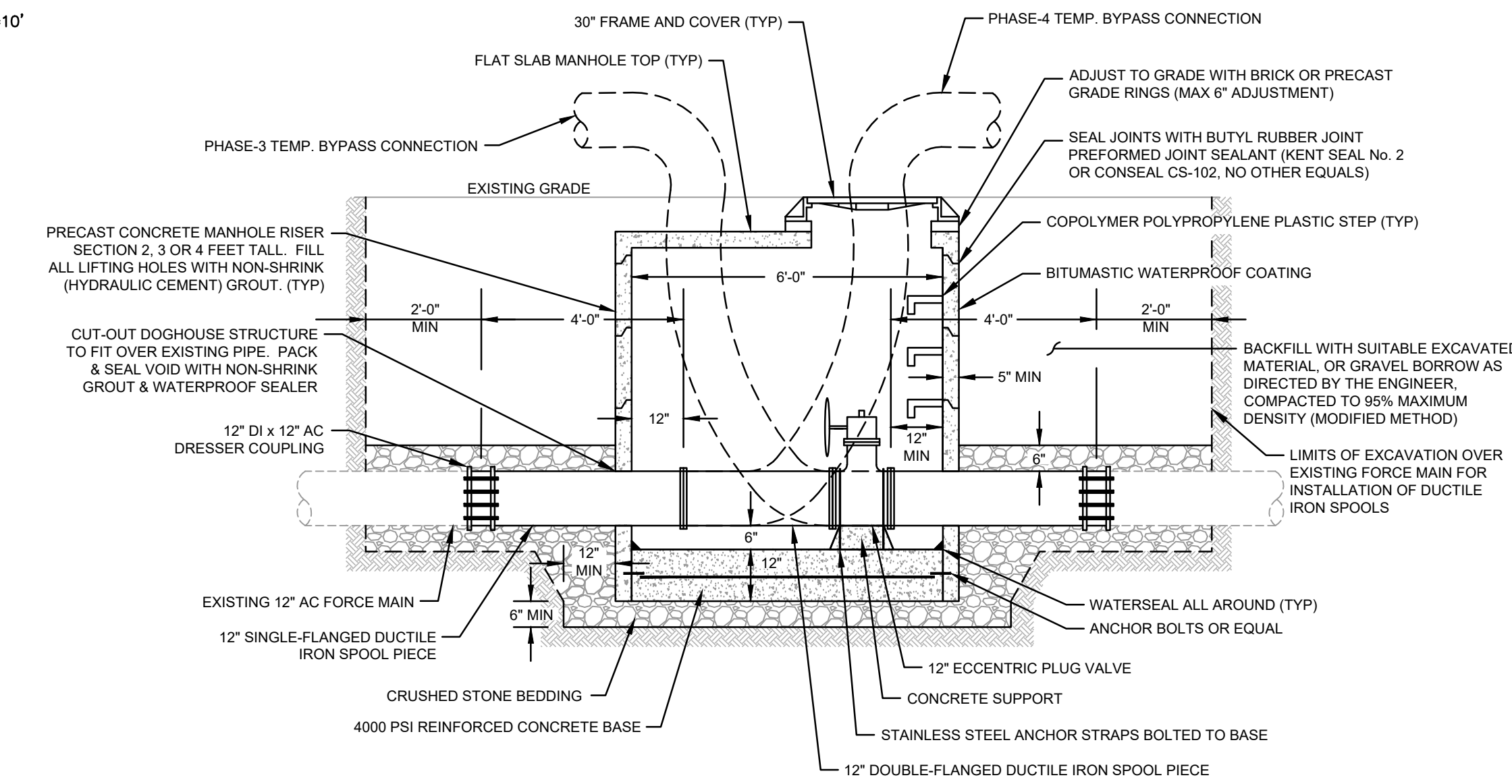
1. PRIOR TO LINING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE WARWICK NECK FORCE MAIN CONNECTION, AND SHALL INSPECT TO DETERMINE THE CONNECTION TYPE AND CONDITION. IF IT IS DETERMINED THAT LINING OPERATIONS CANNOT BE SAFELY PERFORMED THROUGH THIS CONNECTION, OR THE NEW LINING MAY NOT INTERFACE PROPERLY WITH THE EXISTING FITTING(S) FOR ANY REASON, THEN THE CONNECTION SHALL FIRST BE REPLACED IN A MANNER ACCEPTABLE TO THE ENGINEER AND LINING CONTRACTOR.



ACCESS POINT-13 INSPECTION PHOTO

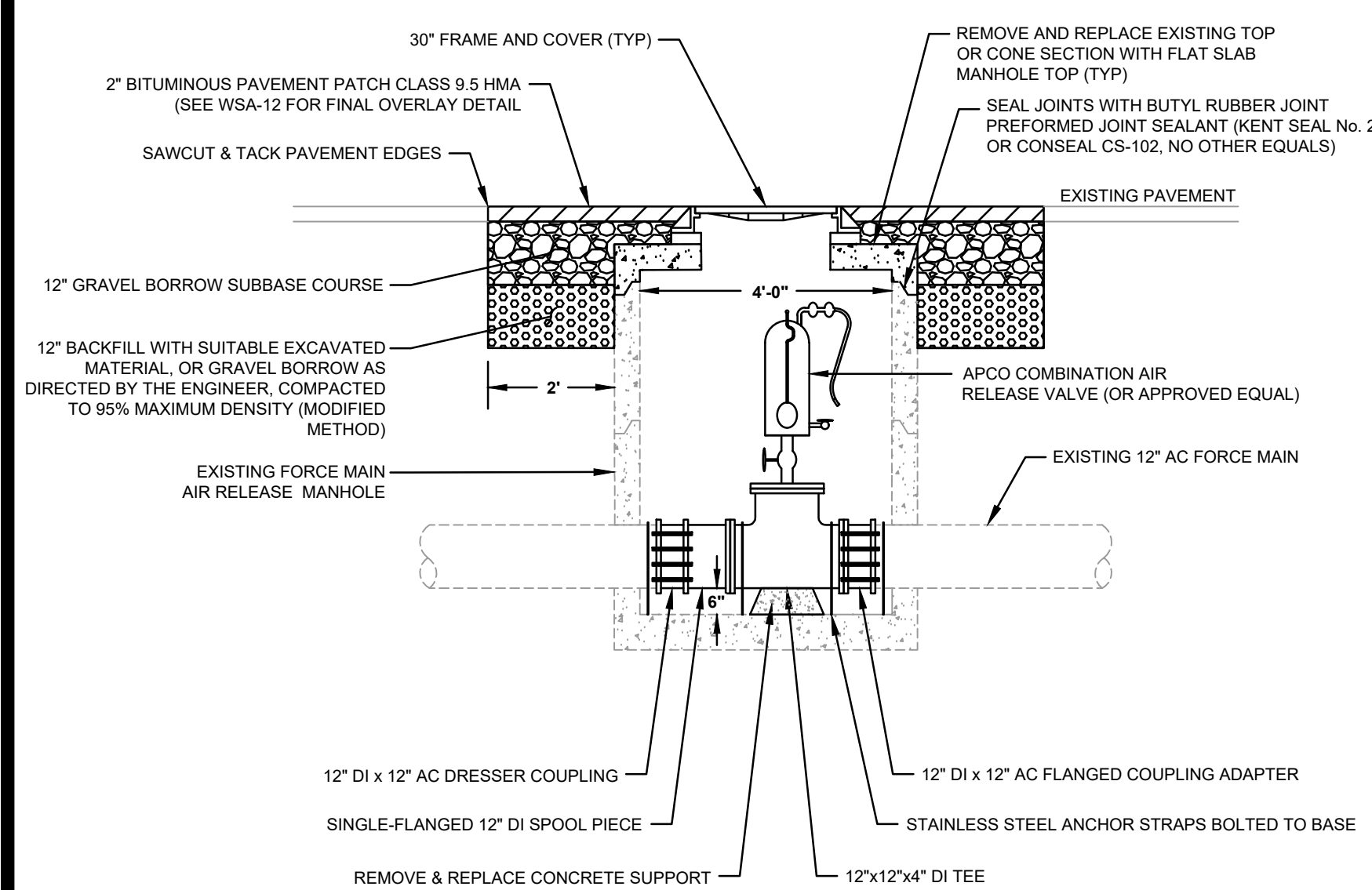


ACCESS POINT-14 INSPECTION PHOTO



PROPOSED ACCESS MANHOLE-3 PROFILE VIEW

SCALE: NTS

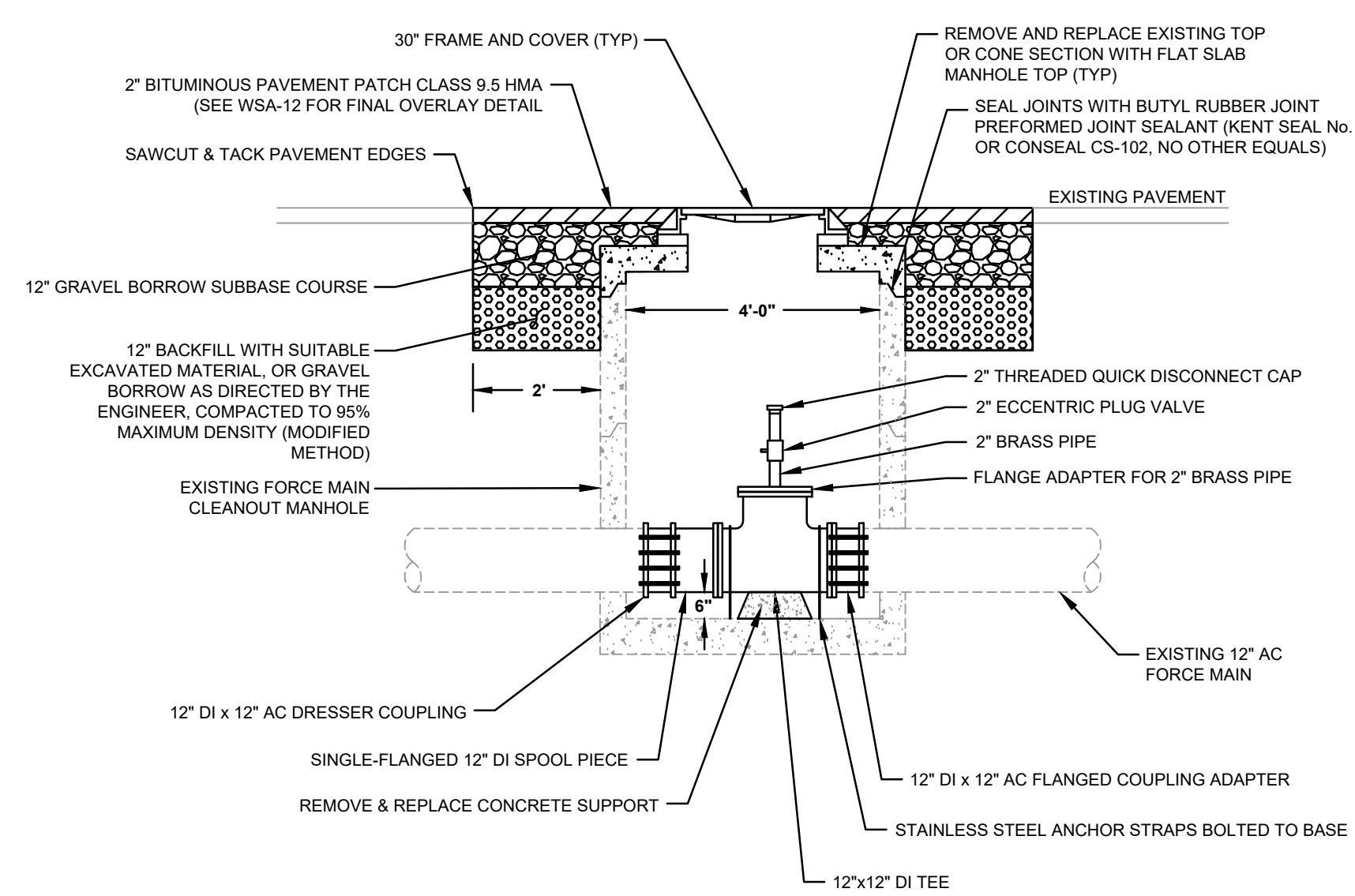


ACCESS POINT-13 PROFILE VIEW

SCALE: NTS

**NOTES:**

1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
3. INSTALL STAINLESS STEEL ANCHOR STRAPS
4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

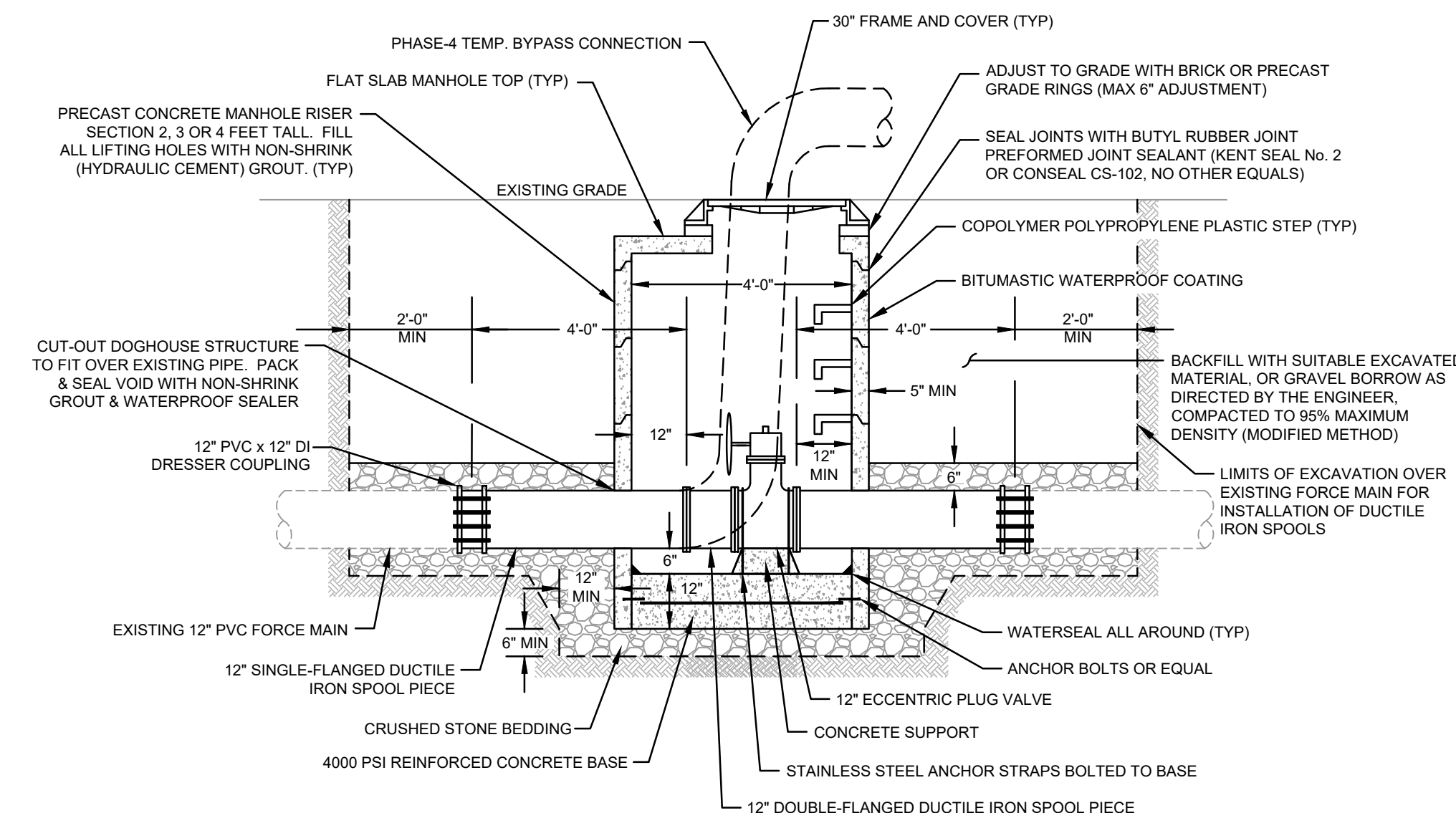


ACCESS POINT-14 PROFILE VIEW

SCALE: NTS

**NOTES:**

1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
3. INSTALL STAINLESS STEEL ANCHOR STRAPS
4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



PROPOSED ACCESS MANHOLE-4 PROFILE VIEW

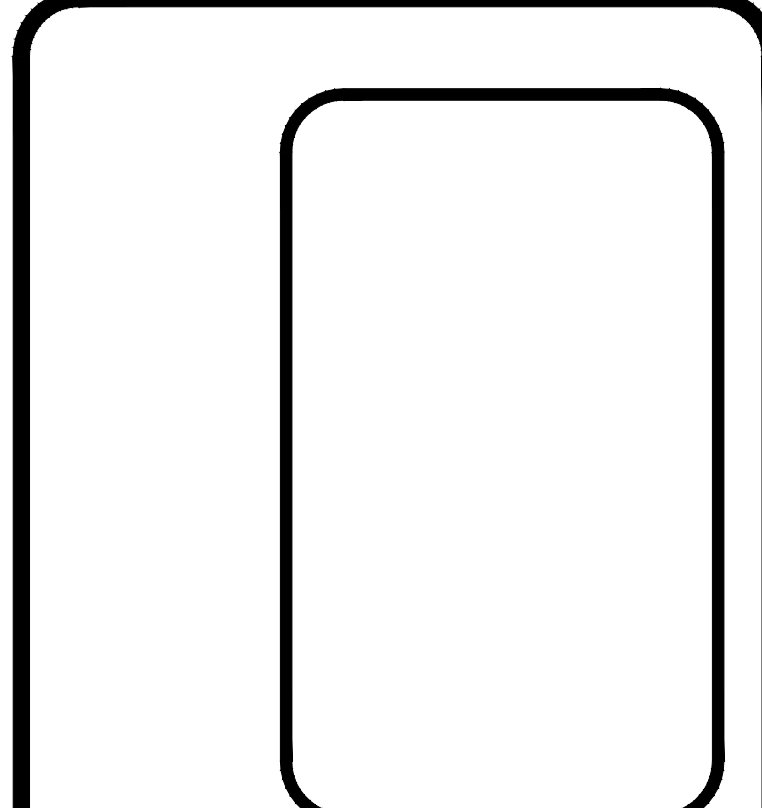
SCALE: NTS

**NOTES (PROPOSED ACCESS MANHOLE-3 & 4):**

1. MANHOLE CONSTRUCTION SHALL CONFORM TO LATEST ASTM C478 SPECIFICATION FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AND THE RI STANDARD DETAILS.
2. SERVICE SHALL BE MAINTAINED WITHIN EXISTING FORCE MAIN DURING CONSTRUCTION OF THE MANHOLE STRUCTURE.
3. GATE VALVE AND DUCTILE IRON SPOOL SEGMENTS WILL BECOME PERMANENT FIXTURES UNDER FINAL CONDITIONS AS SHOWN, HOWEVER SPOOL SEGMENT/VALVE ASSEMBLY WITHIN STRUCTURE SHALL BE REMOVED AS NEEDED TO FACILITATE TEMPORARY BYPASS PUMPING AND CURED-IN-PLACE PIPE LINING OPERATIONS.
4. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
5. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
6. INSTALL STAINLESS STEEL ANCHOR STRAPS
7. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE "ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS" AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-6  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, RI 02940  
TEL. 401-273-6000

Corofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project of this site and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

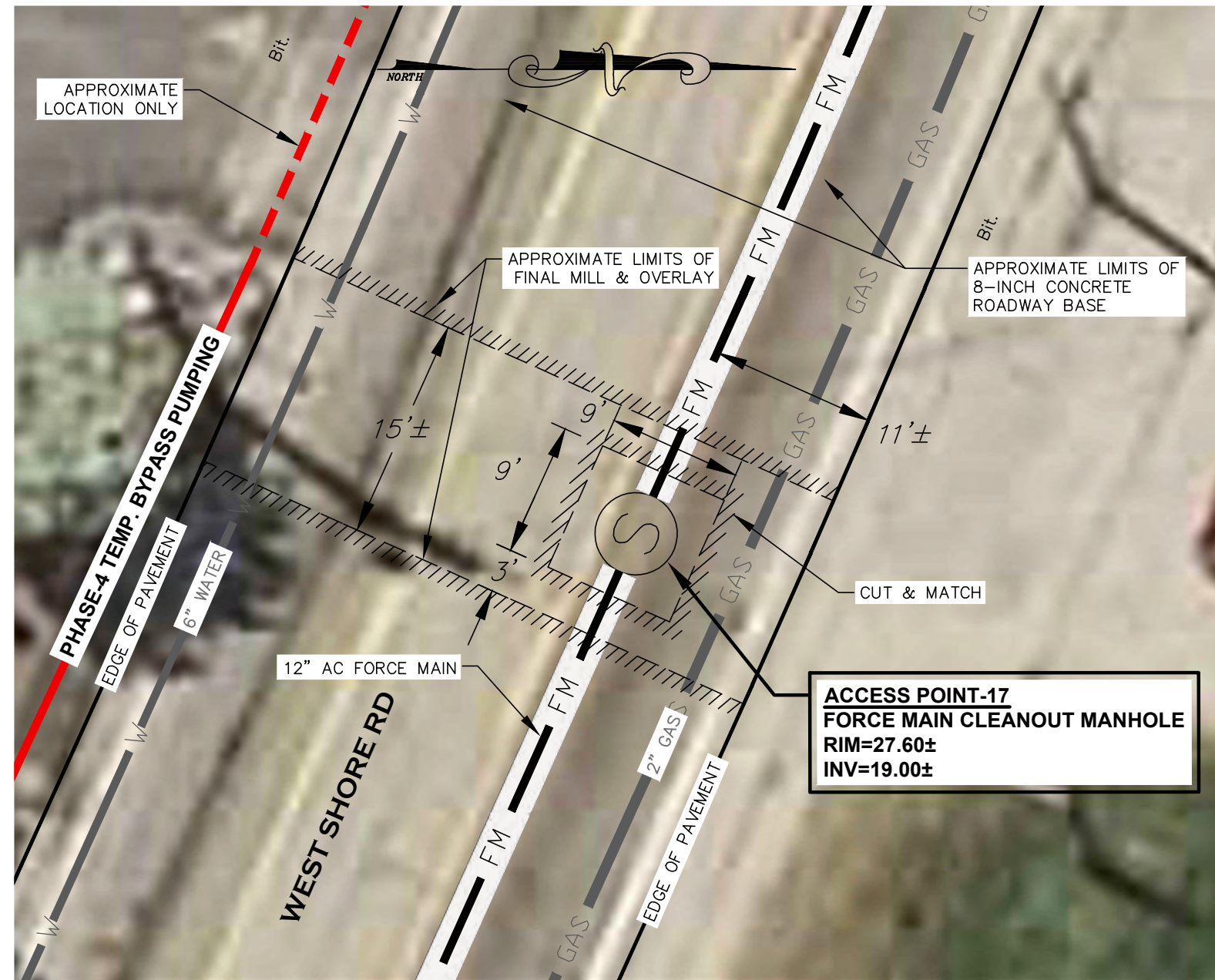
SHEET

**15**

15 OF 22 SHEETS

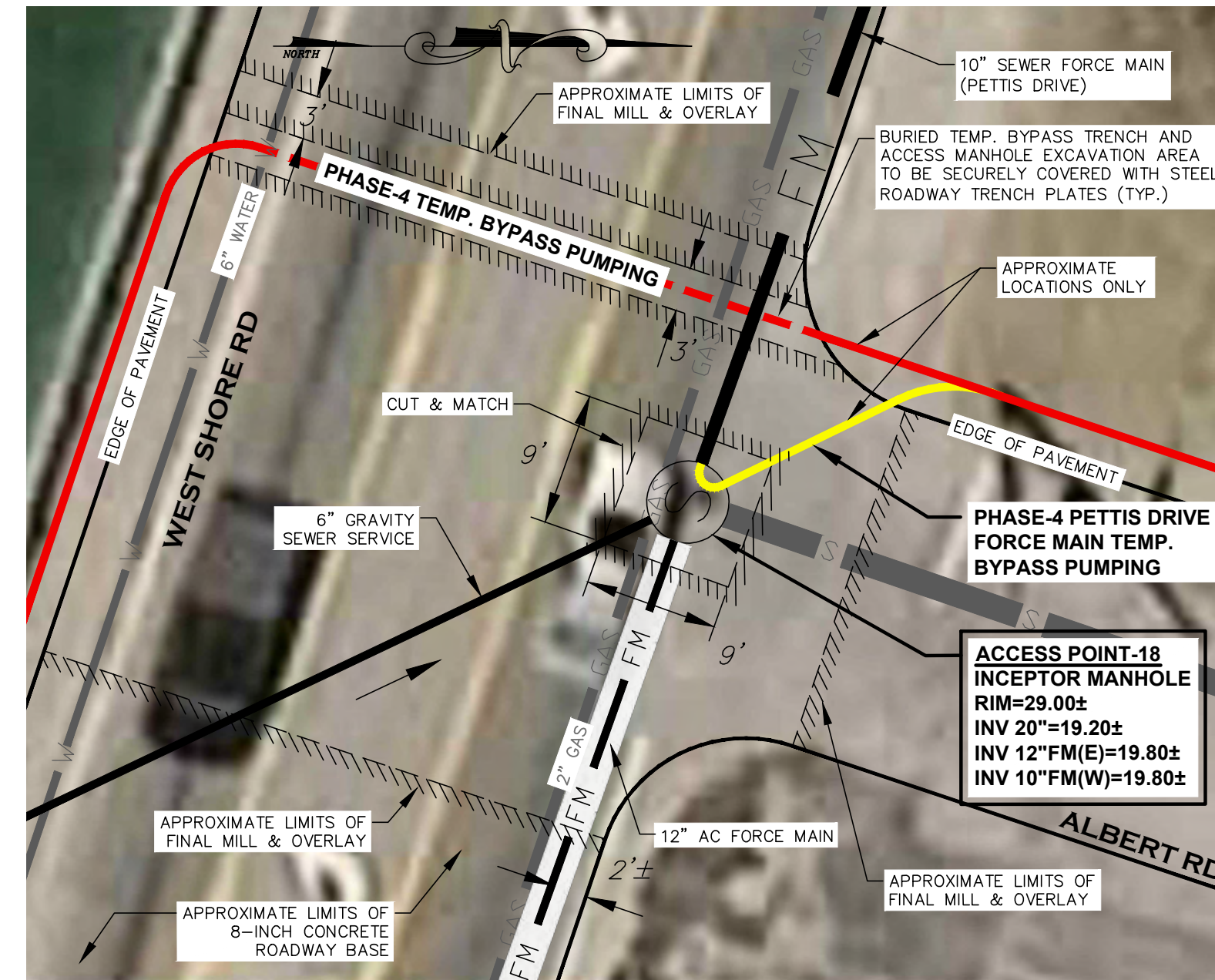
L:\7279-00 Oakland Beach (WSA) - Warwick, RI\img\01-Current\7279-00-Base.dwg 07/23/2024, revisions 15:23





ACCESS POINT-17 AERIAL VIEW

SCALE: 1"=10'



ACCESS POINT-18 AERIAL VIEW

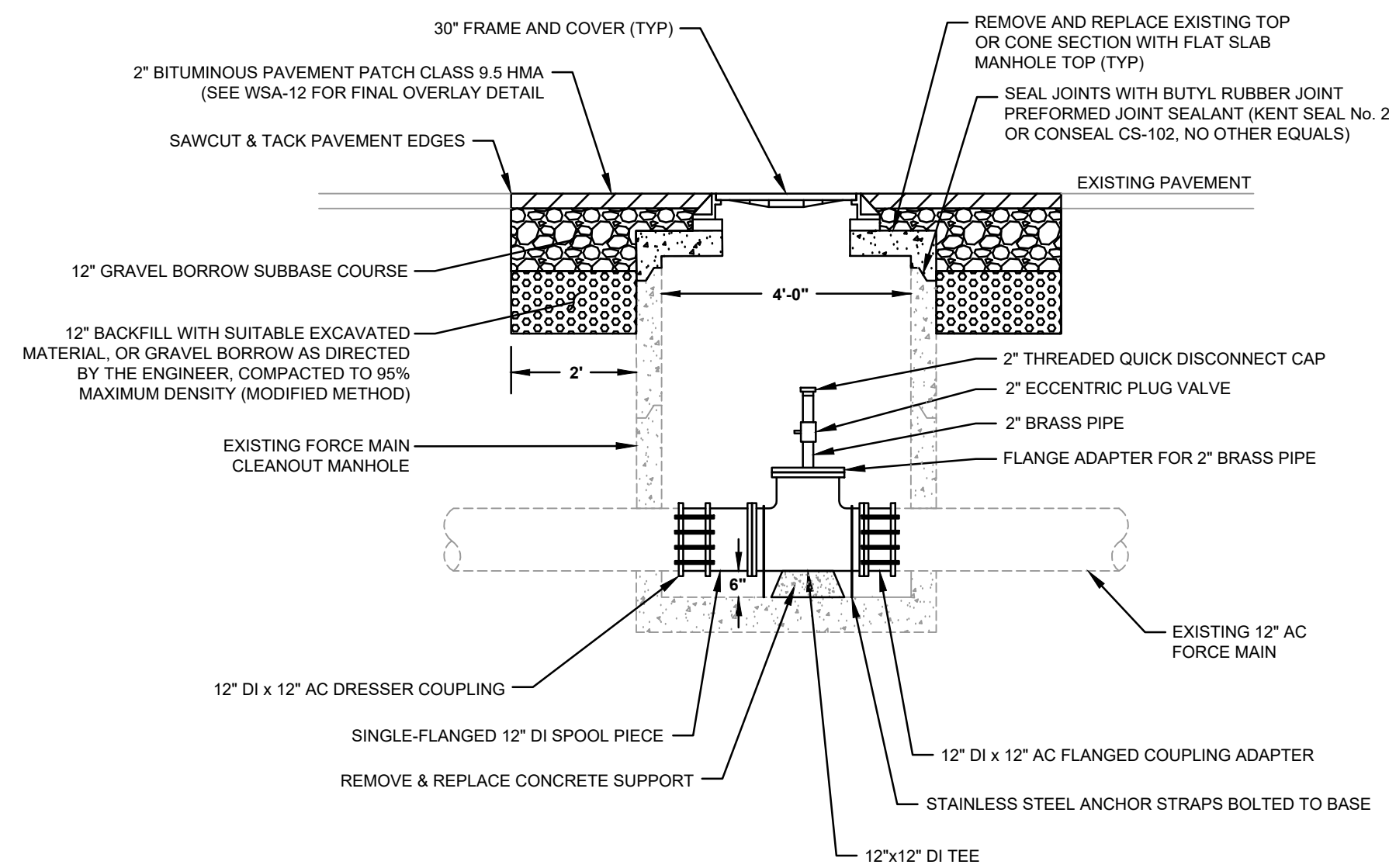
SCALE: 1"=10'



ACCESS POINT-17 INSPECTION PHOTO



ACCESS POINT-18 INSPECTION PHOTO



ACCESS POINT-17 PROFILE VIEW

SCALE: NTS

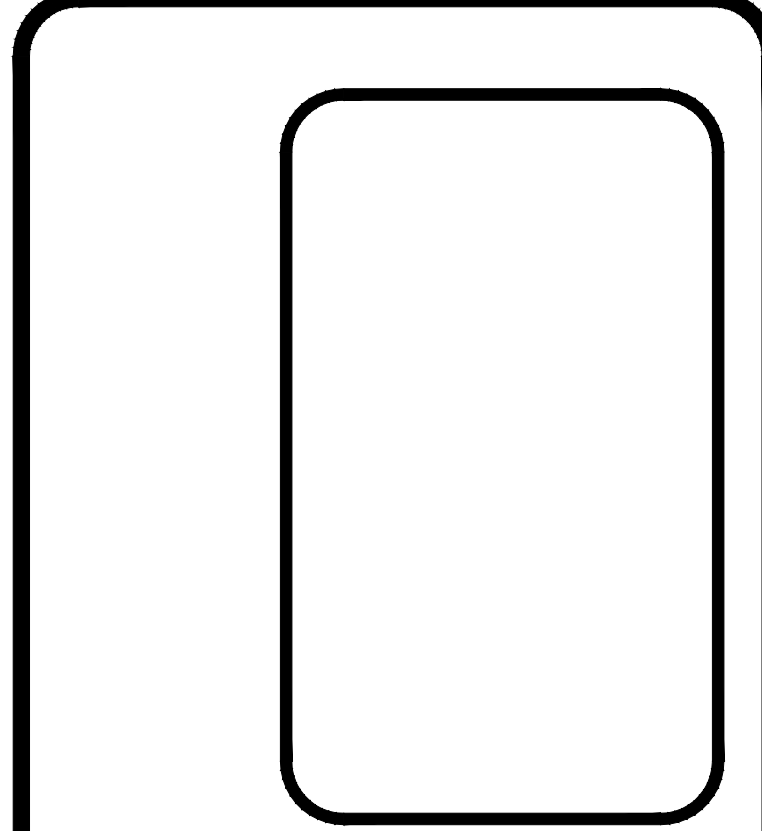
NOTES:

1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
3. INSTALL STAINLESS STEEL ANCHOR STRAPS

4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-7  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project at this site and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

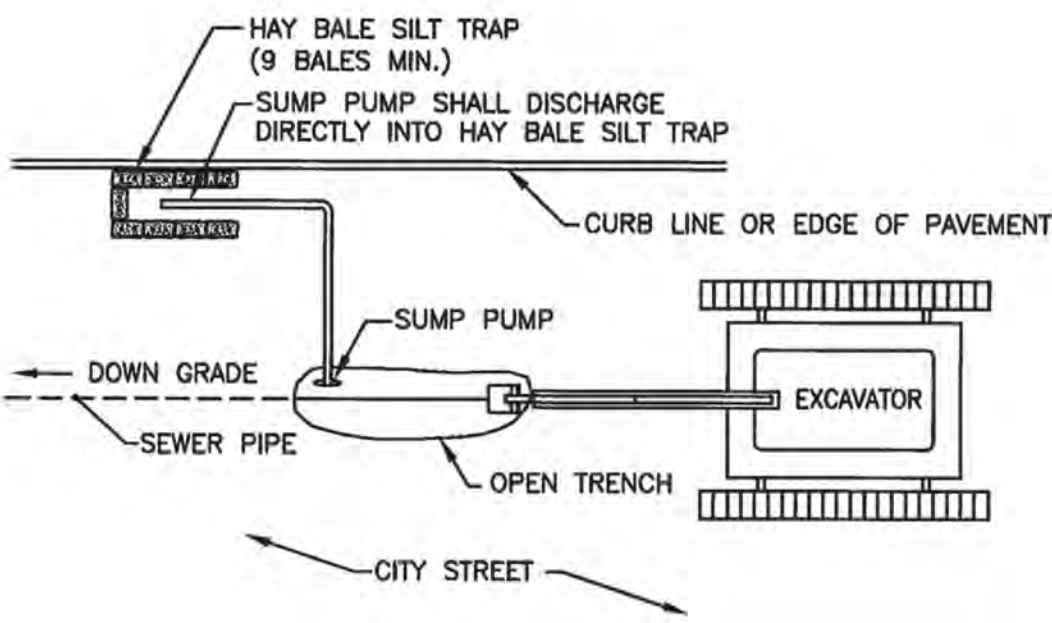
JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
DATE: OCTOBER 22, 2021	

SHEET

**16**

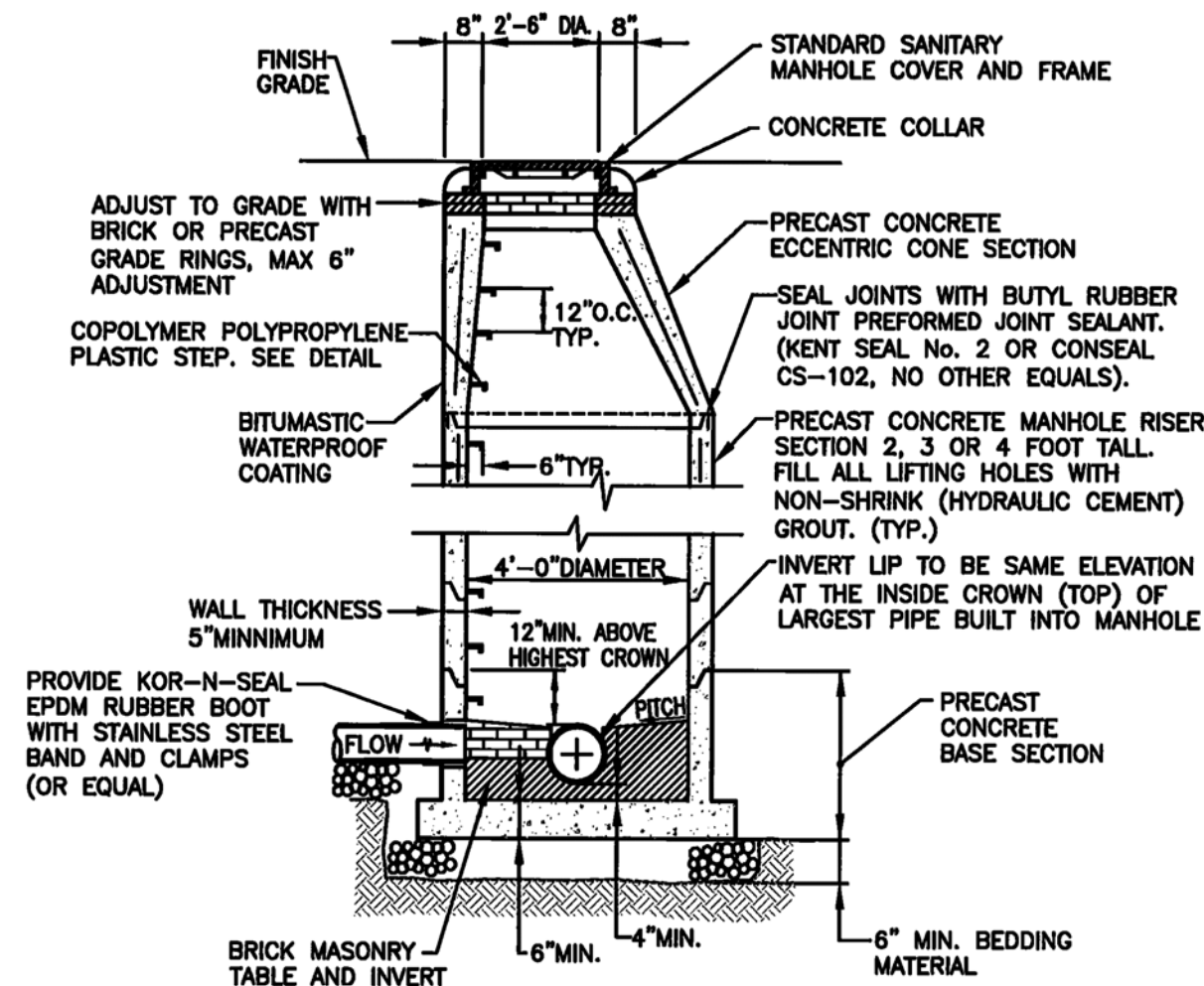
16 OF 22 SHEETS





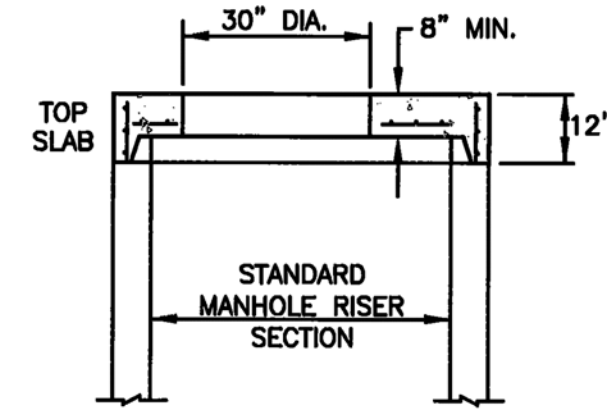
- NOTES:
- HAY BALE SILT TRAPS SHALL BE INSTALLED AND MAINTAINED AT THE DISCHARGE OF ALL SUMP PUMPS USED FOR DEWATERING OF TRENCHES.
  - SILT TRAPS SHALL BE MAINTAINED AND CLEANED AS OFTEN AS NECESSARY TO EFFECTIVELY CONTAIN SILT.
  - SILT REMOVED FROM SILT TRAP SHALL BE DISPOSED BY THE CONTRACTOR. RE-USE BY MIXING WITH MATERIAL EXCAVATED FROM TRENCH AND USED AS BACKFILL IS SUBJECT TO CONFORMANCE WITH MATERIAL SPECIFICATIONS.

Detail No. WSA - 1  
 Hay Bale Silt Trap  
 Contract DD  
 Date: May 2017 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889



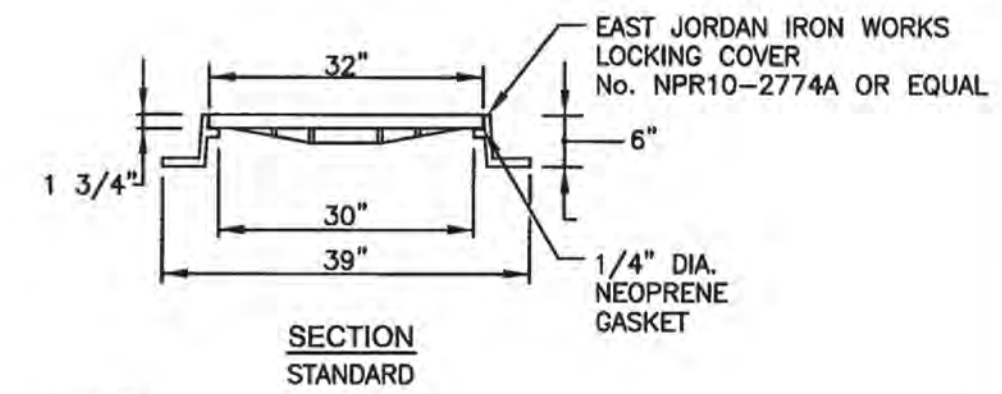
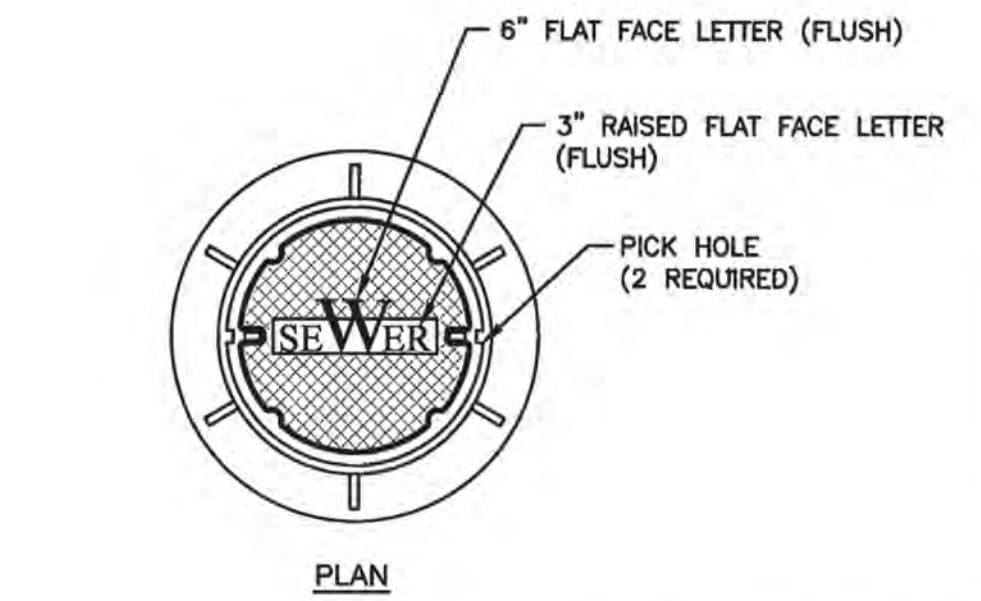
- NOTES:
- ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT PREFORMED SEALANT.
  - ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.

Detail No. WSA - 3  
 Sanitary Manhole  
 Contract BB  
 Date: September 2011 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889



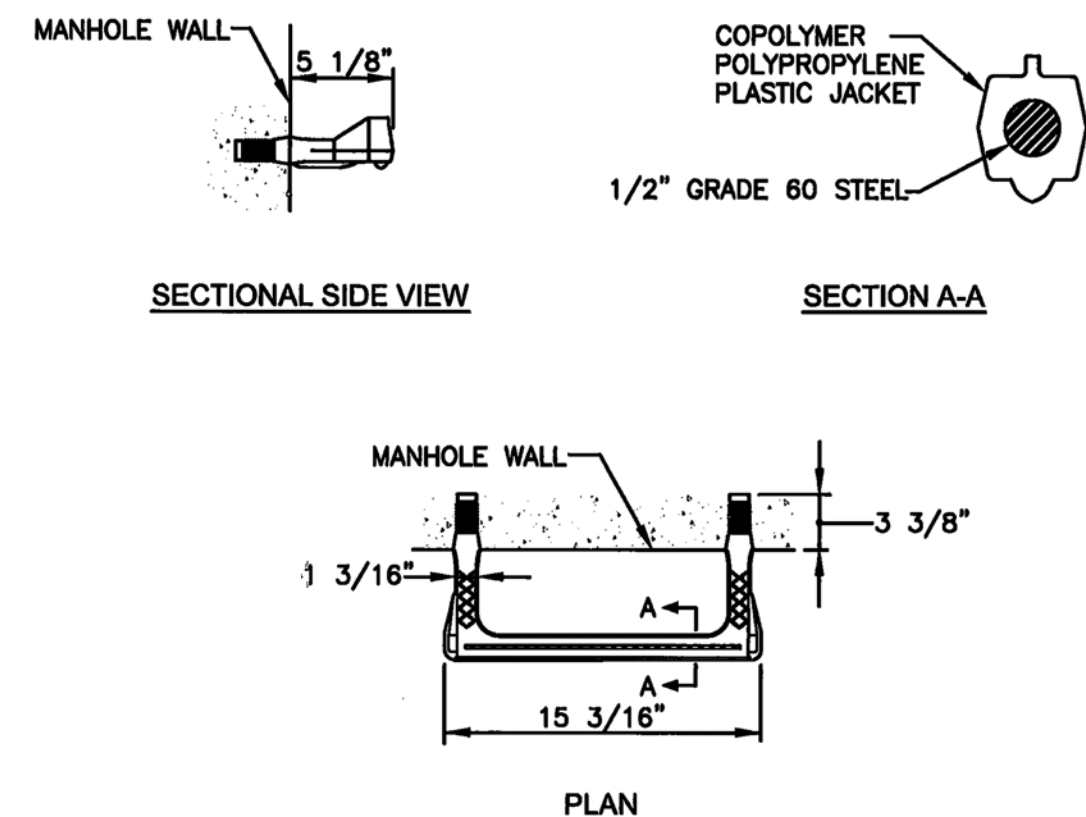
SLAB SHALL BE DESIGNED FOR H-20 HIGHWAY LOADING AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C-478

Detail No. WSA - 4  
 Flat Slab Manhole Top  
 Contract BB  
 Date: September 2011 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889

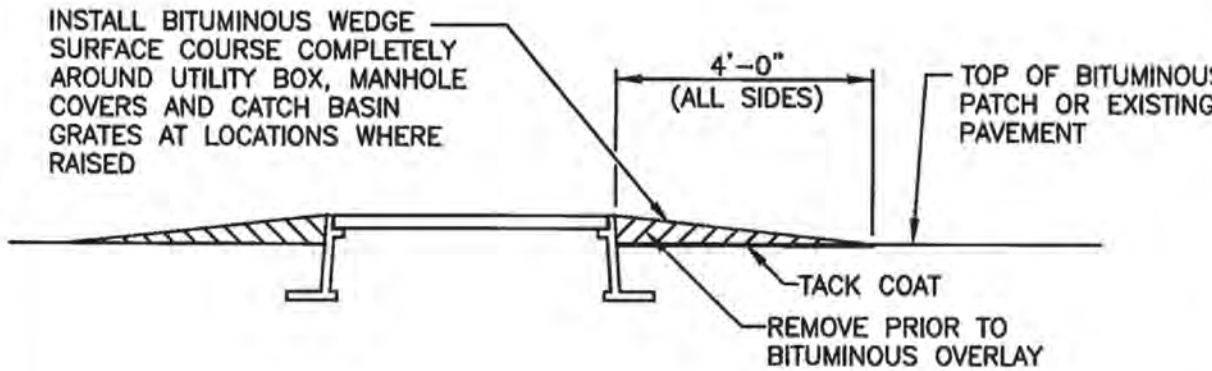


- NOTES:
- ALL MANHOLES SHALL RECEIVE STANDARD COVERS UNLESS OTHERWISE INDICATED ON THE PLANS.
  - COVERS TO HAVE ONE 3/4" VENT HOLE
  - COVER MUST BE SUITABLE FOR H-20 HIGHWAY LOADING.

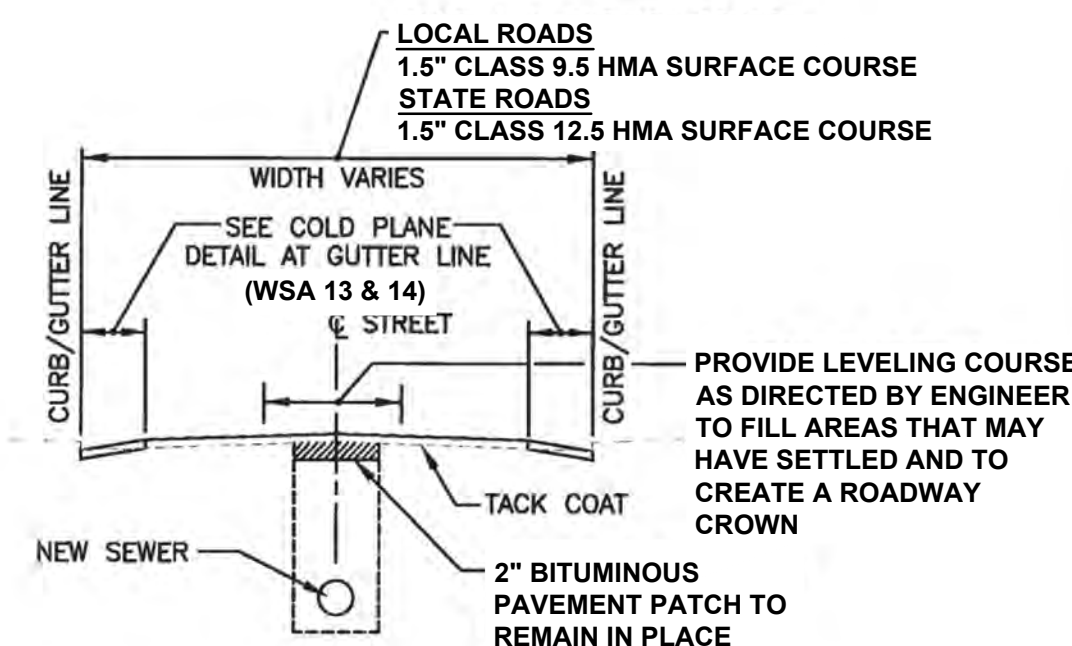
Detail No. WSA - 5 (MODIFIED)  
 Sanitary Manhole Cover  
 Contract DD  
 Date: May 2017 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889



Detail No. WSA - 7  
 Manhole Step  
 Contract BB  
 Date: September 2011 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889

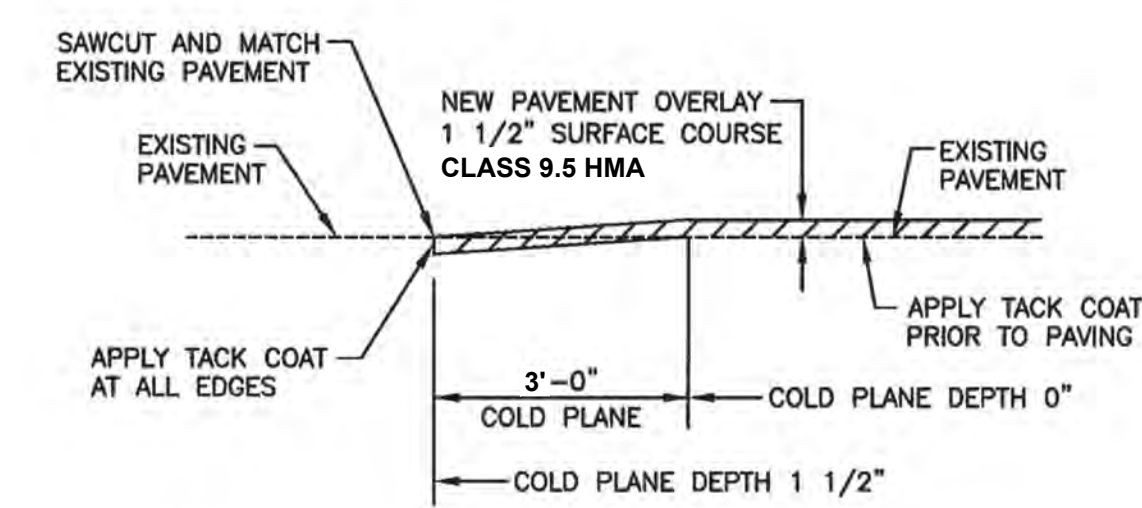


Detail No. WSA - 11  
 Temporary Bituminous Wedge at Structures  
 Contract DD  
 Date: May 2017 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889



- NOTES:
- PAVEMENT MARKINGS TO BE REPLACED IN-KIND, UNLESS OTHERWISE NOTED.
  - PAVEMENT DEPTH TO BE IDENTIFIED IN THE SPECIFICATIONS OR PLANS.

Detail No. WSA - 12  
 Bituminous Overlay  
 Contract DD  
 Date: May 2017 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889

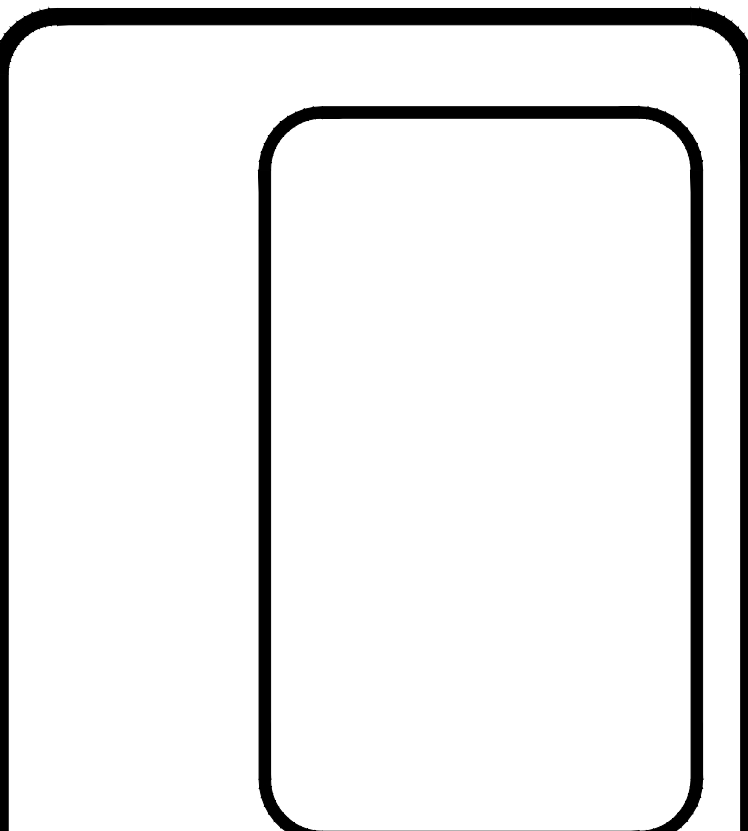


NOTE: COLD PLANE DEPTH WILL INCREASE TO MATCH OVERLAY DEPTH IF MORE THAN 1 1/2" IS CALLED FOR ON PLANS OR SPECIFICATIONS.

Detail No. WSA - 13  
 Cut and Match Pavement - Local Street  
 Contract DD  
 Date: May 2017 Scale: Not to Scale  
**WARWICK SEWER AUTHORITY**  
 125 Arthur Devine Boulevard  
 Warwick, Rhode Island 02889

CONSTRUCTION DETAILS-1  
 FOR  
 OAKLAND BEACH FORCE MAIN  
 REHABILITATION  
 SITUATED AT  
 OAKLAND BEACH  
 WARWICK, RI  
 PREPARED FOR  
 WARWICK SEWER AUTHORITY

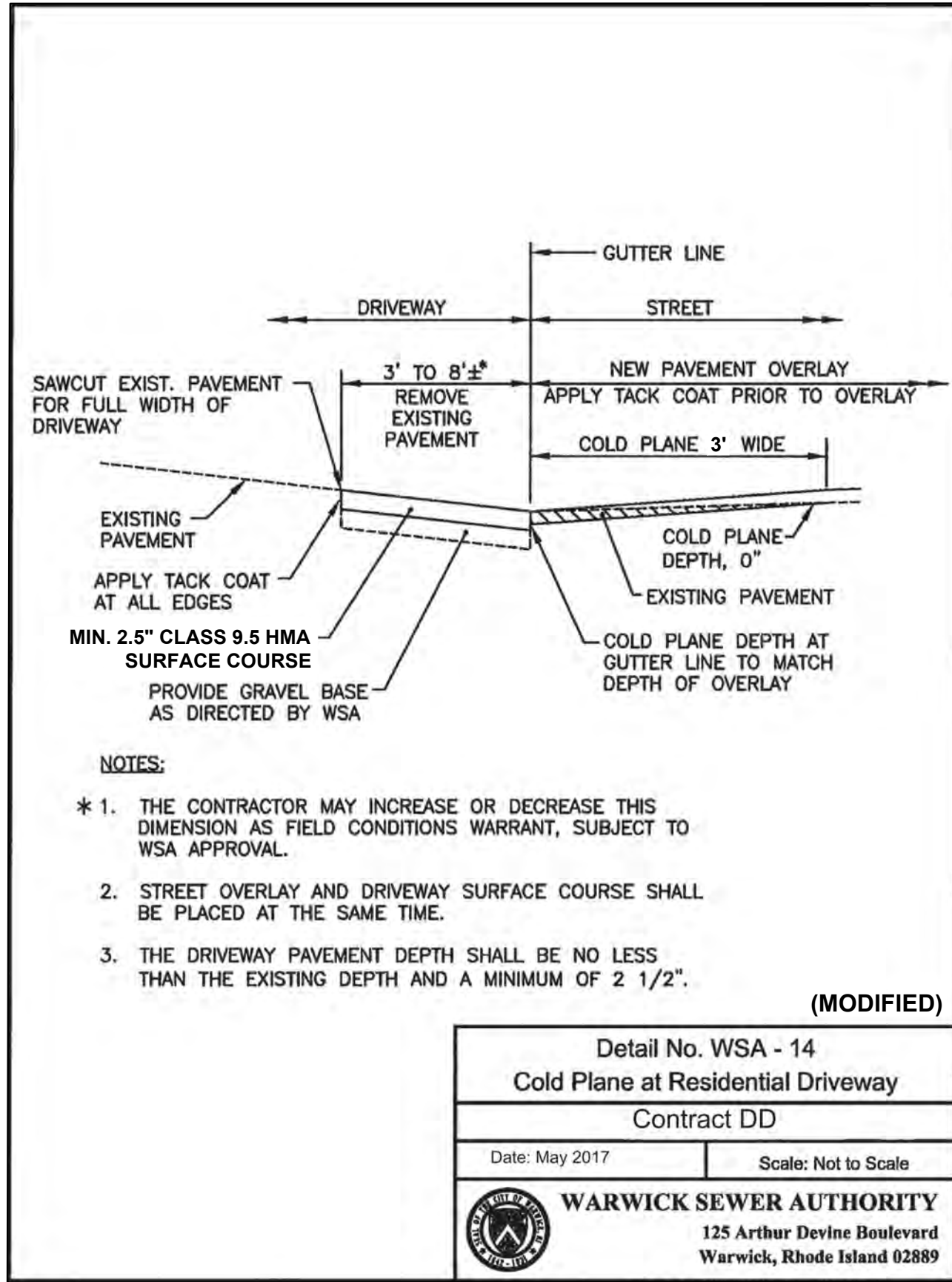
NO.	REVISION	BY	DATE



**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
 85 CORLISS STREET  
 P.O. BOX 6145  
 PROVIDENCE, R.I. 02940  
 TEL. 401-273-6000  
 Garofalo & Associates ©  
 These drawings are the property of the engineer/surveyor and have been prepared for the specific project. This drawing is not to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Det.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
DATE: OCTOBER 22, 2021	



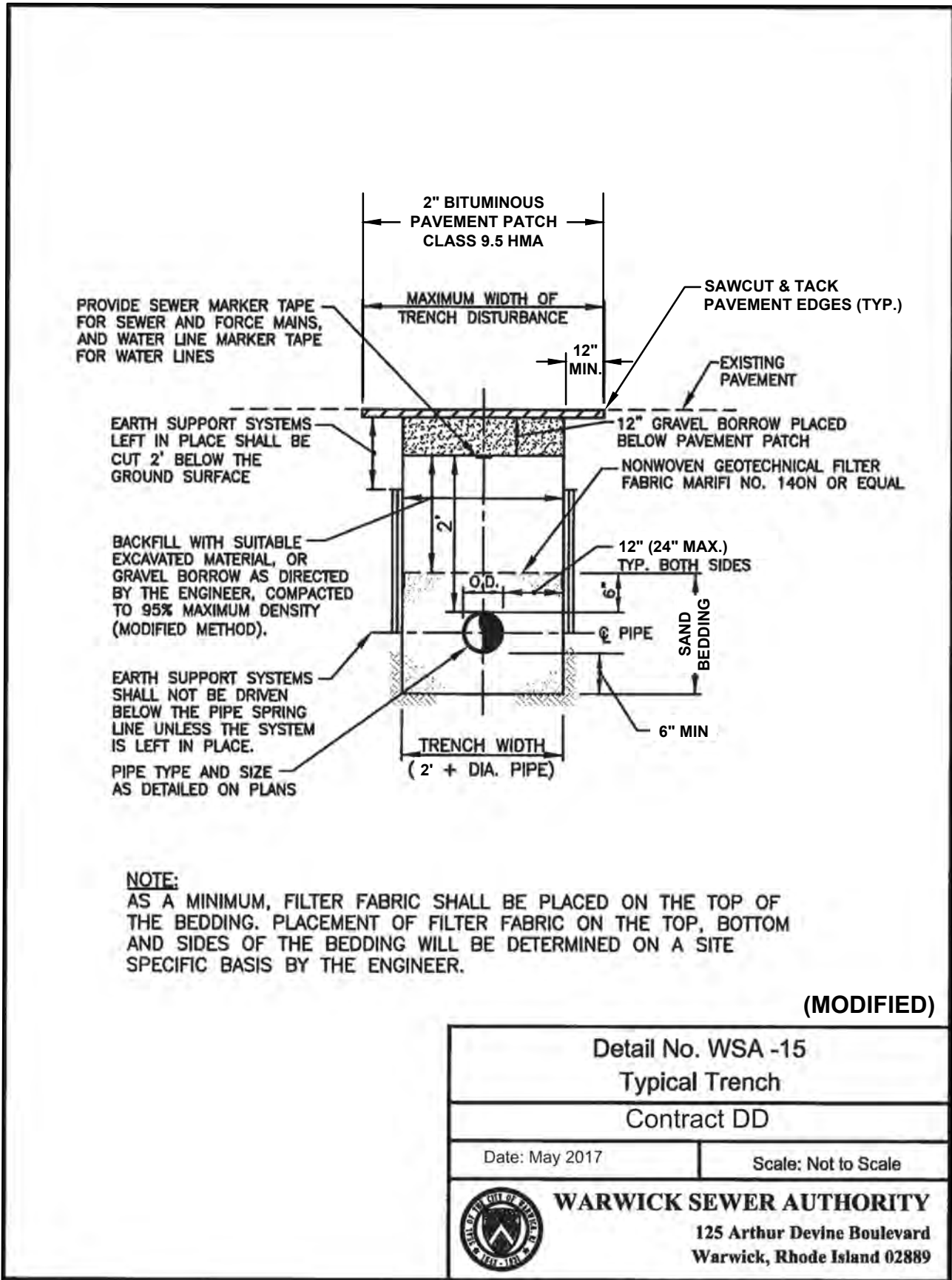


(MODIFIED)

Detail No. WSA - 14  
Cold Plane at Residential Driveway  
Contract DD

Date: May 2017      Scale: Not to Scale

**WARWICK SEWER AUTHORITY**  
125 Arthur Devine Boulevard  
Warwick, Rhode Island 02889

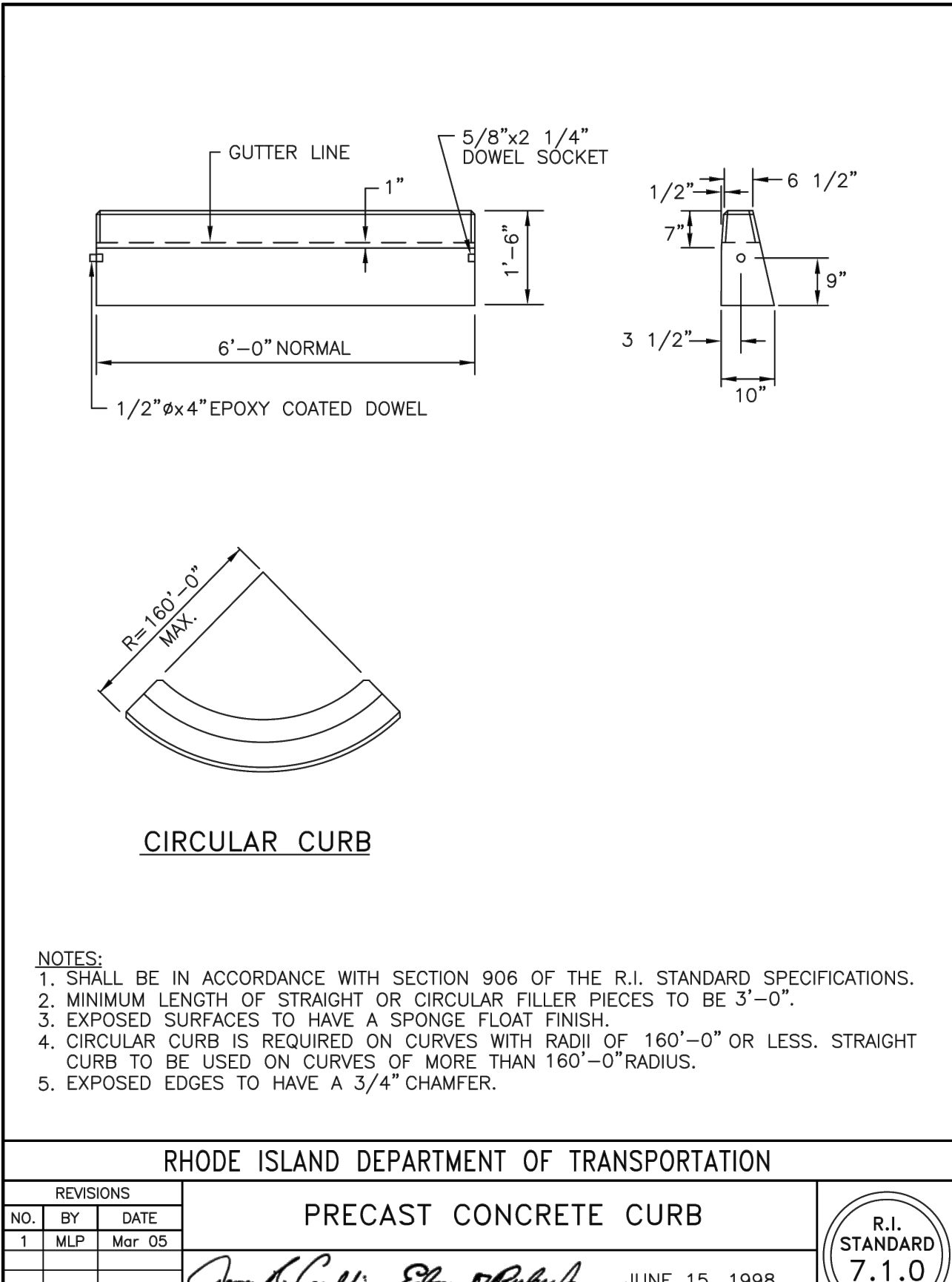


(MODIFIED)

Detail No. WSA - 15  
Typical Trench  
Contract DD

Date: May 2017      Scale: Not to Scale

**WARWICK SEWER AUTHORITY**  
125 Arthur Devine Boulevard  
Warwick, Rhode Island 02889



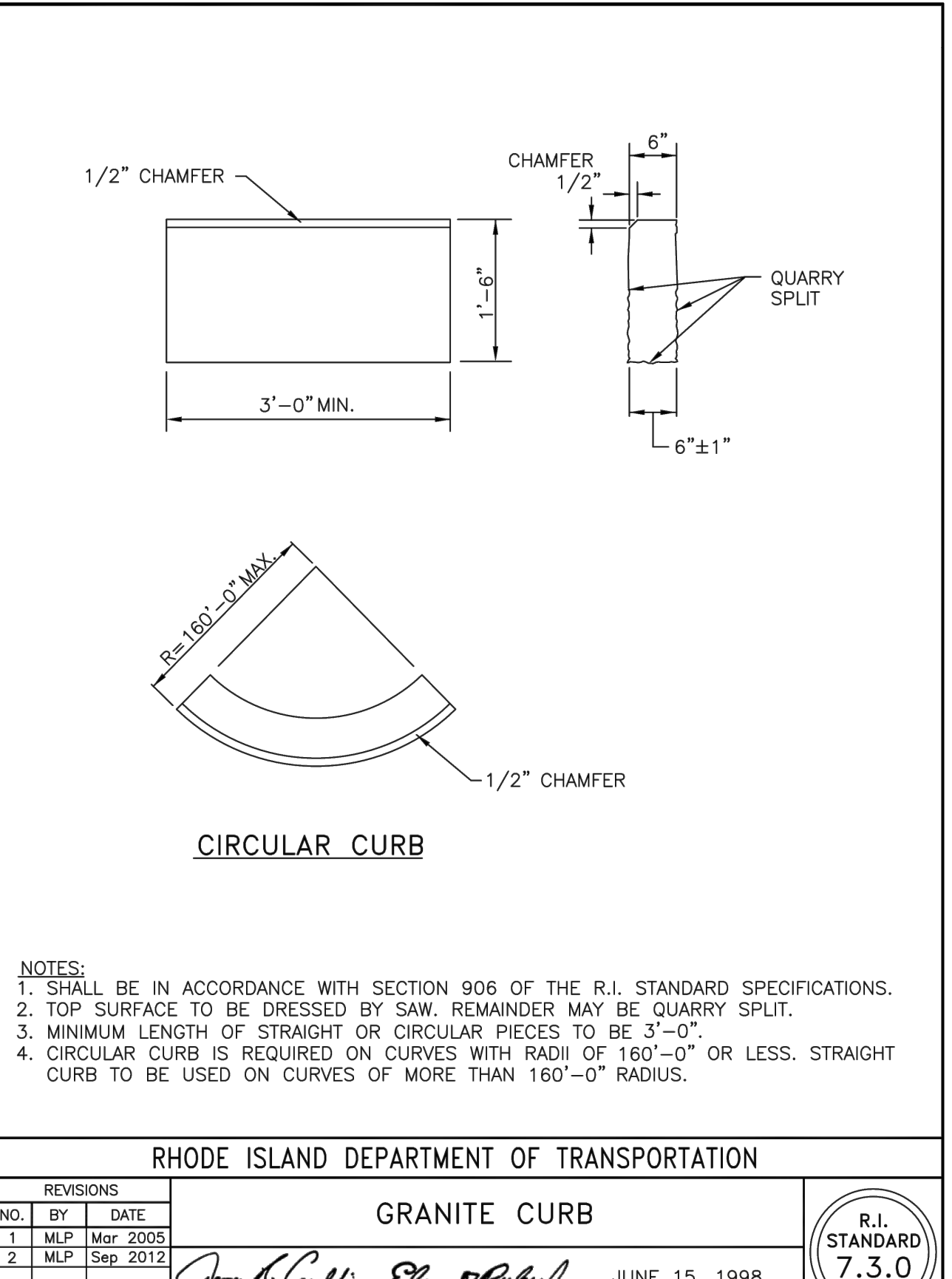
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE CURB

REVISIONS: 1 MLP Mar 05

R.I. STANDARD 7.1.0

JUNE 15, 1998



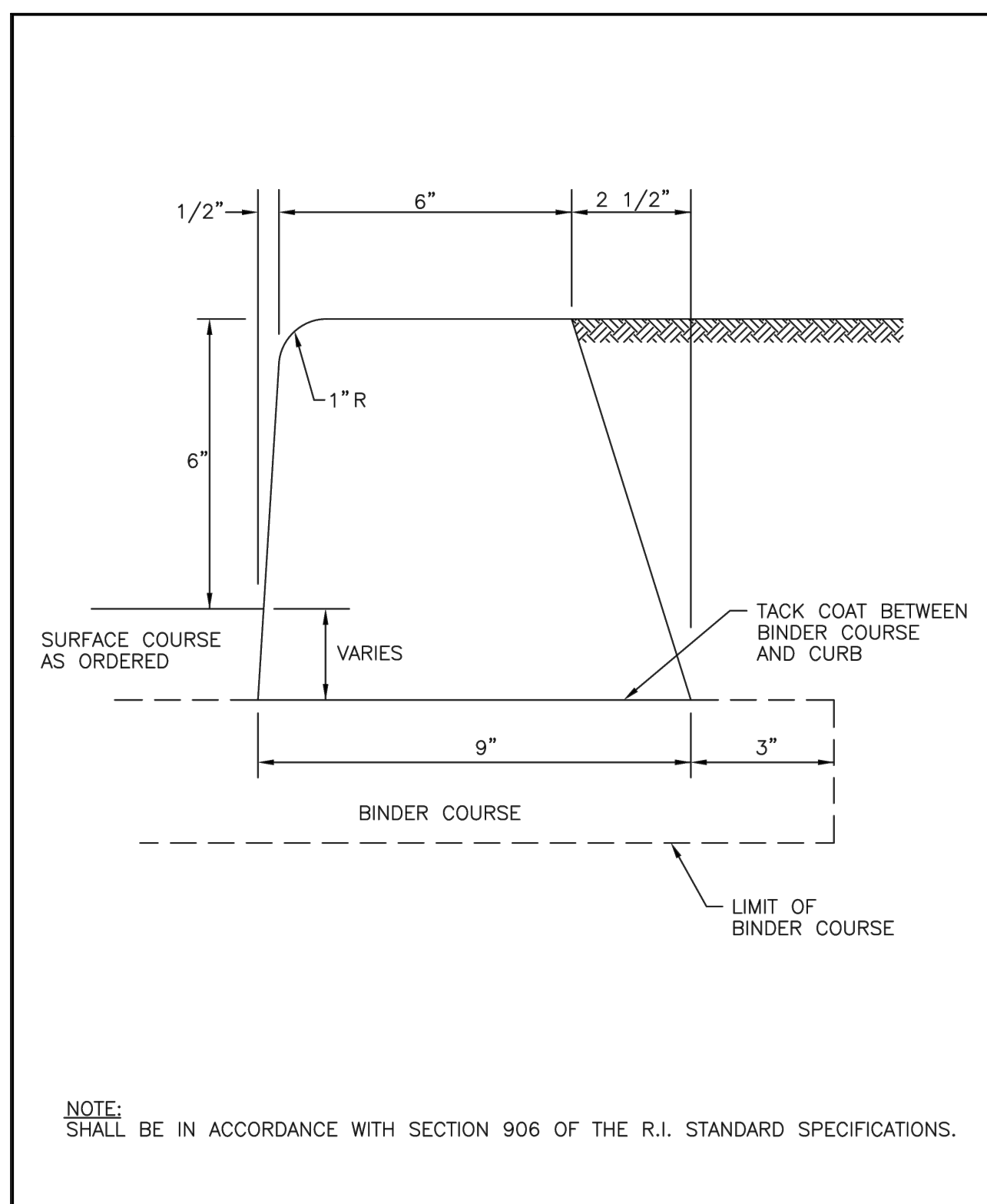
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

GRANITE CURB

REVISIONS: 1 MLP Mar 2005, 2 MLP Sep 2012

R.I. STANDARD 7.3.0

JUNE 15, 1998



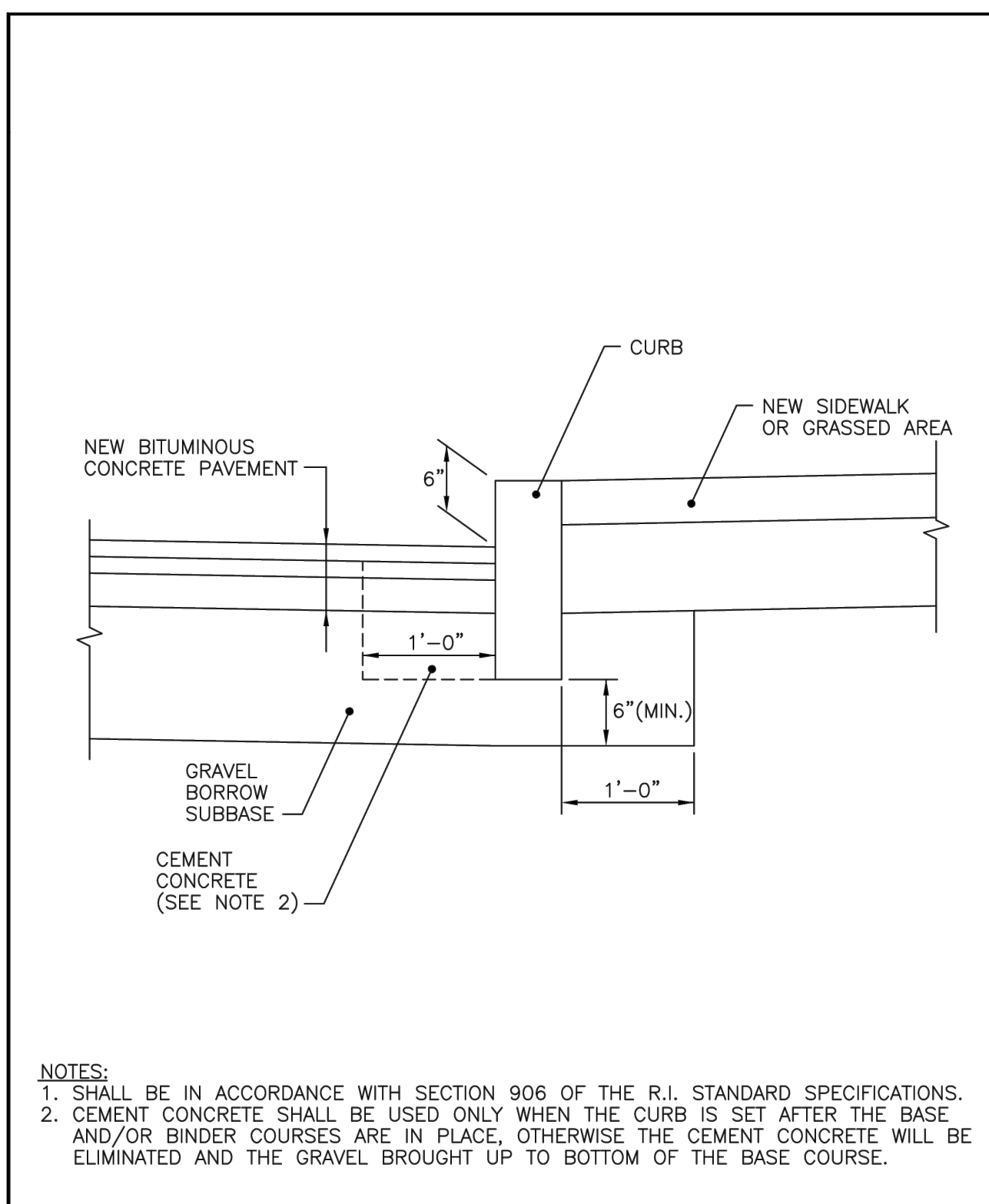
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

BITUMINOUS CONCRETE LIP CURB

REVISIONS: 1 MLP Mar 05

R.I. STANDARD 7.5.0

JUNE 15, 1998



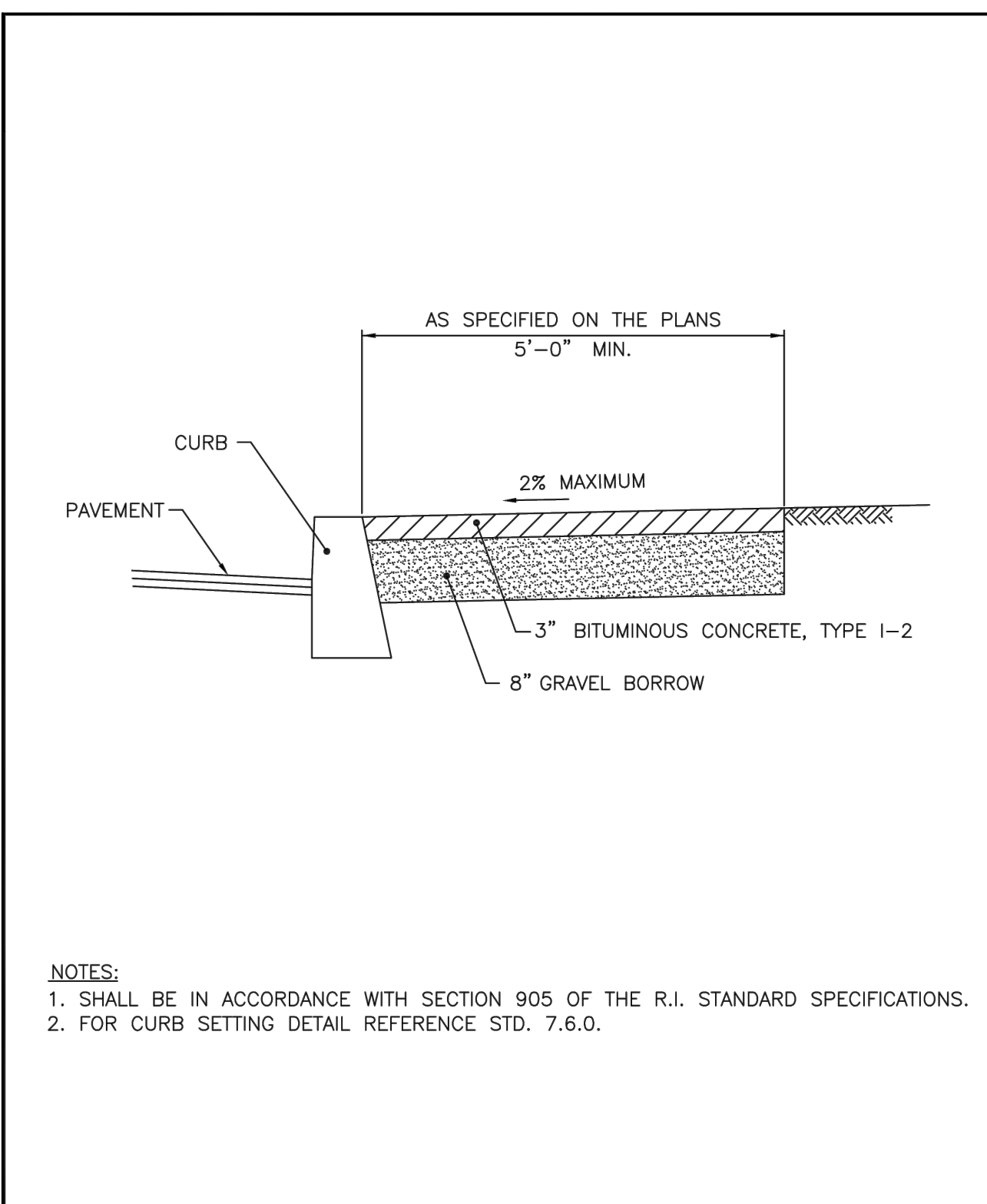
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CURB SETTING DETAIL

REVISIONS: 1 MLP Mar 05

R.I. STANDARD 7.6.0

JUNE 15, 1998



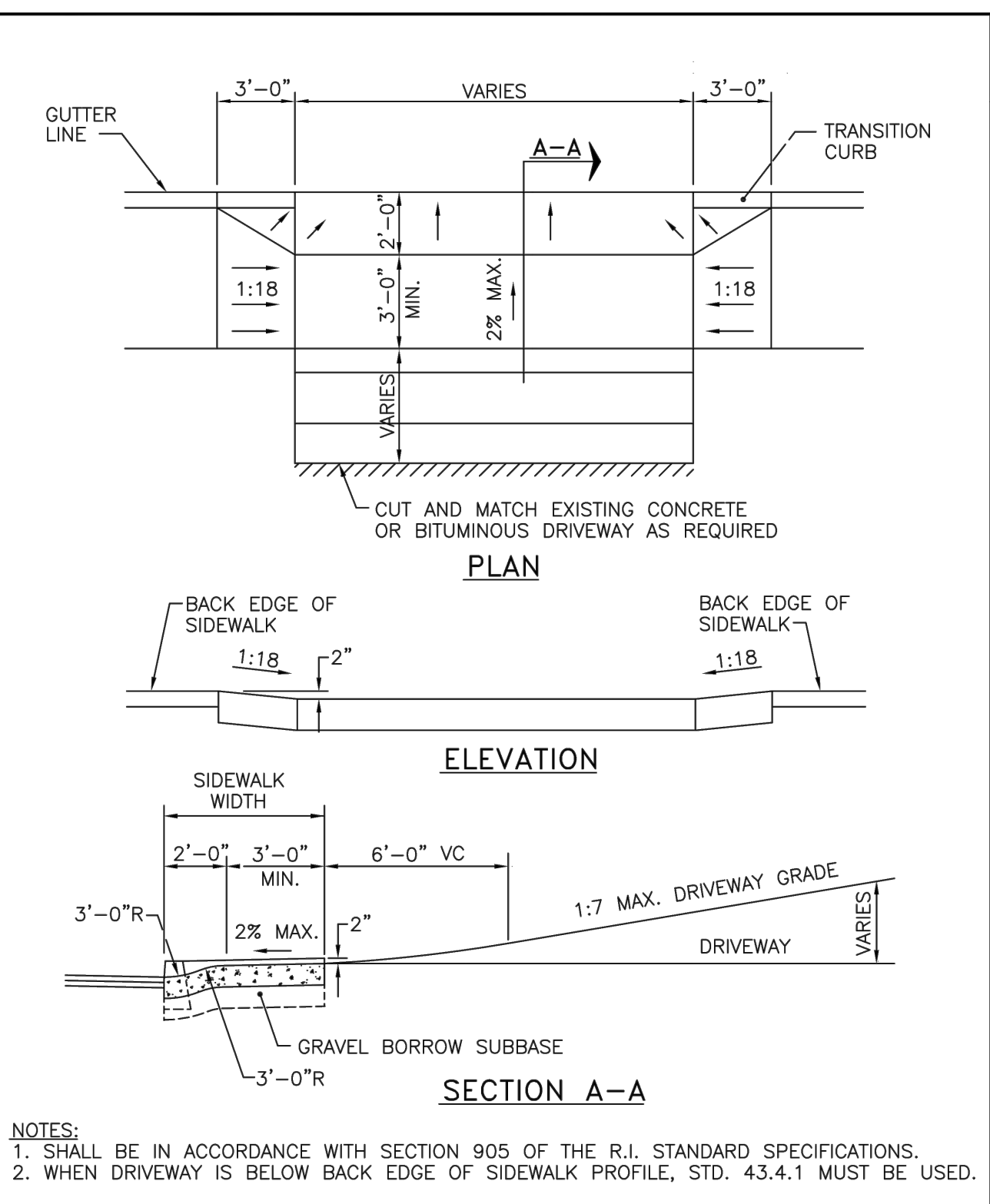
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

BITUMINOUS CONCRETE SIDEWALK

REVISIONS: 1 MLP 3/1/05, 2 MLP 06/01/10

R.I. STANDARD 43.2.0

JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DRIVEWAY DEVELOPMENT FOR 3\"/>

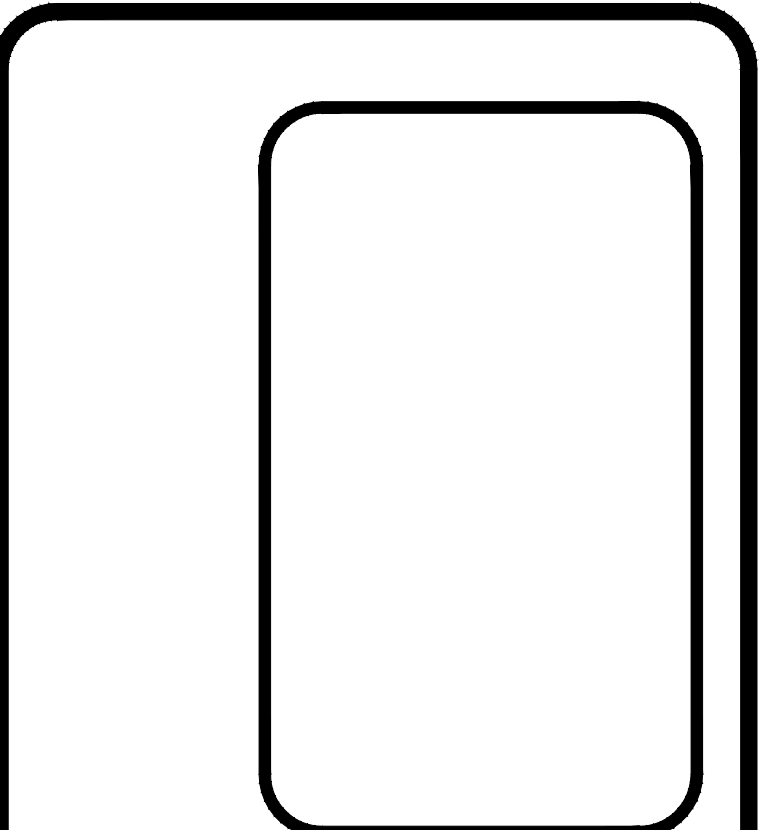
REVISIONS: 1 MLP 3/01/05, 2 MLP 6/27/08, 3 MLP 6/01/10

R.I. STANDARD 43.4.0

JUNE 15, 1998

**CONSTRUCTION DETAILS-2**  
FOR  
**OAKLAND BEACH FORCE MAIN  
REHABILITATION**  
SITUATED AT  
**OAKLAND BEACH  
WARWICK, RI**  
PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project indicated on this sheet and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

JOB NO. 7279-00  
DWG. NO. 7279-00-Det.dwg  
SCALE: AS SHOWN

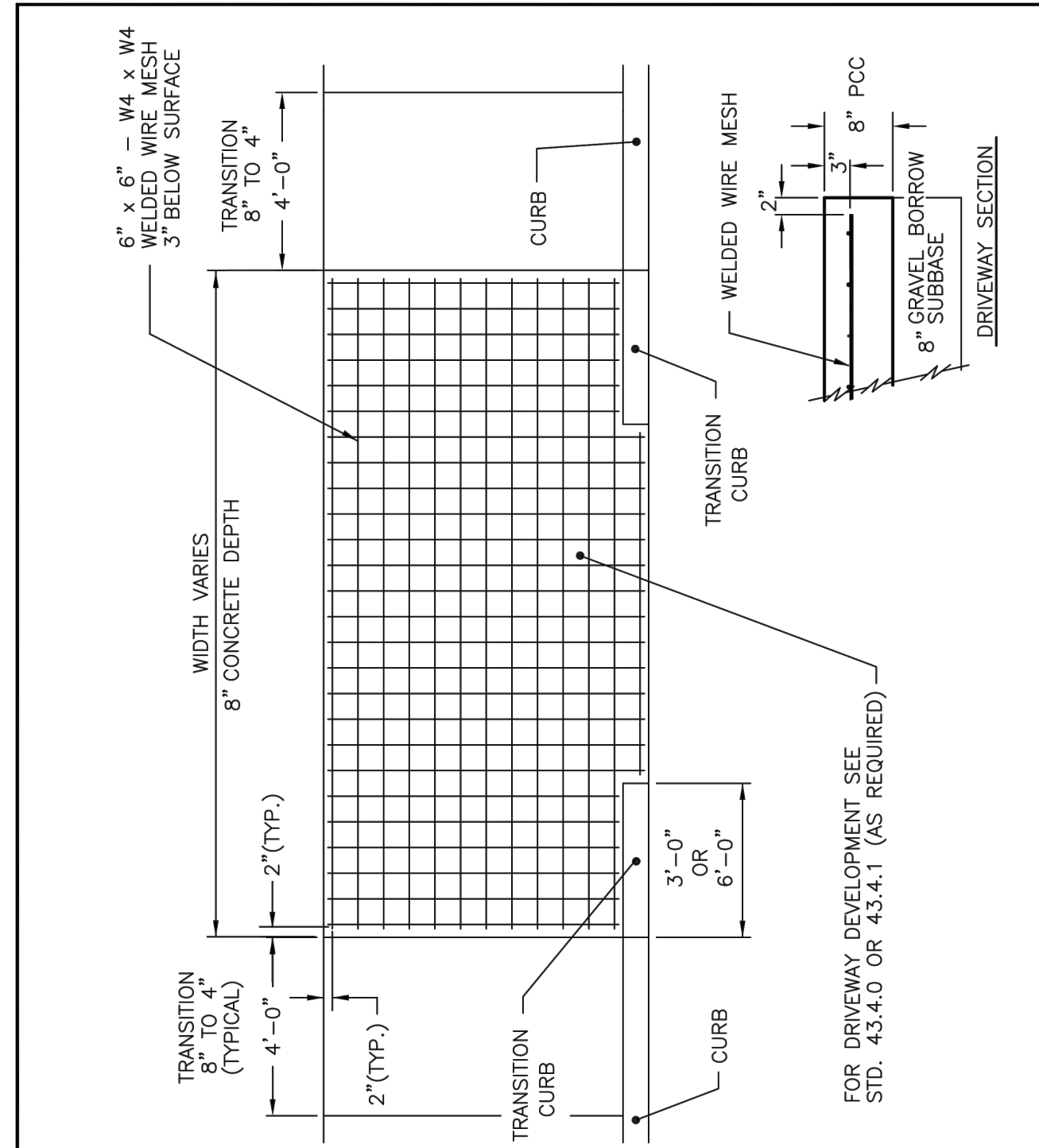
DRAWN BY R.A.S.  
CHECK BY S.S.H.  
APPROVED S.B.G.  
DATE: OCTOBER 22, 2021

SHEET

**18**

18 OF 22 SHEETS





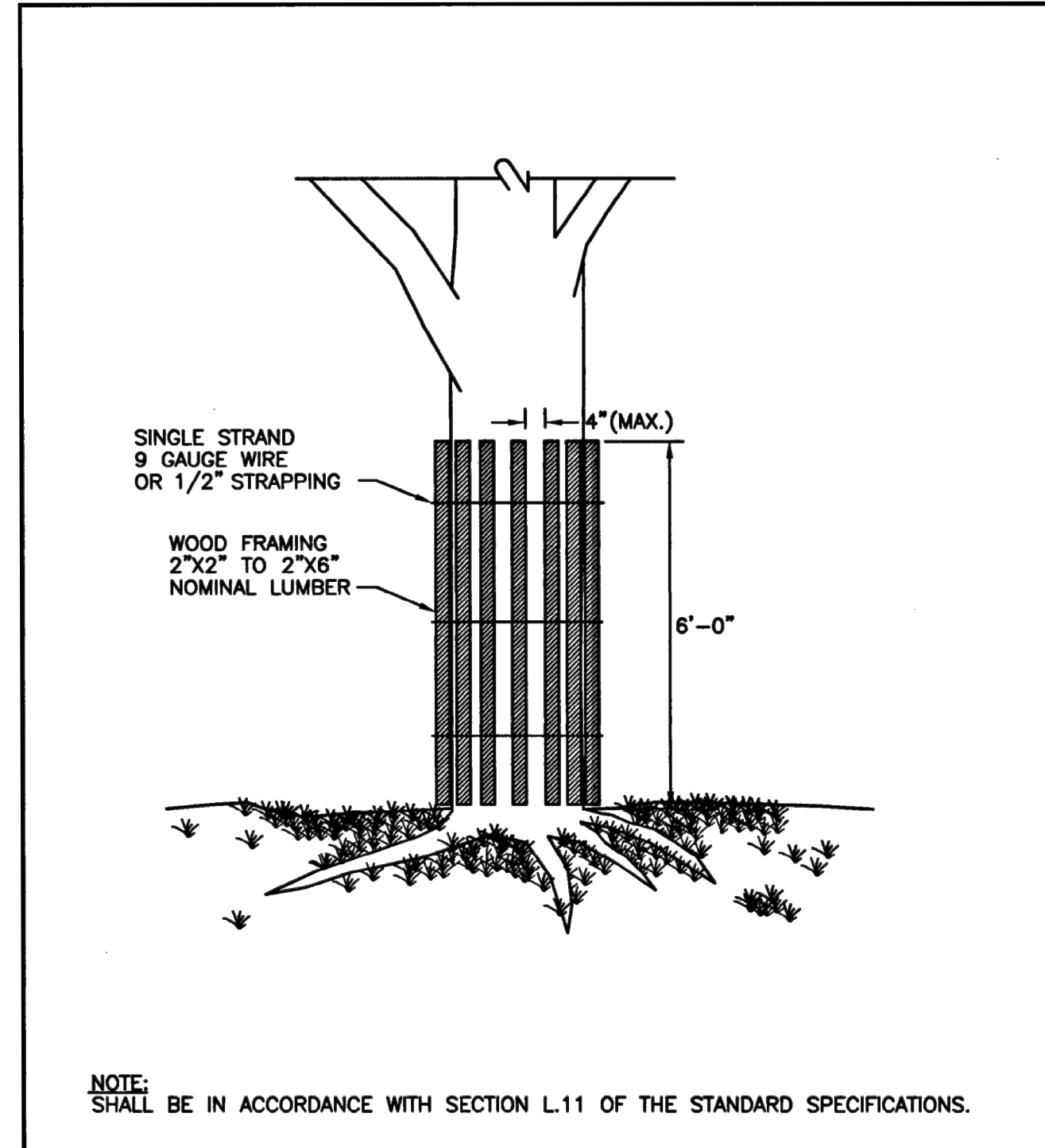
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CEMENT CONCRETE DRIVEWAYS

R.I. STANDARD 43.5.0

NO.	BY	DATE
1	MLP	1/10/05
2	MLP	7/21/06
3	MLP	6/01/10

June 15, 1998



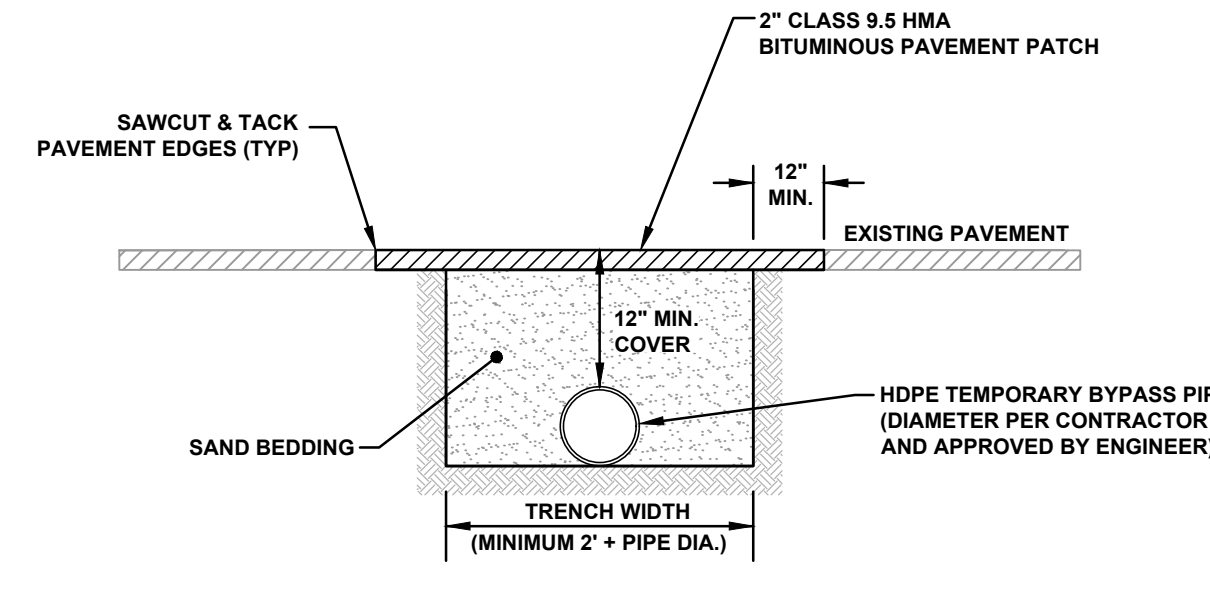
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

TREE PROTECTION DEVICE

R.I. STANDARD 51.1.0

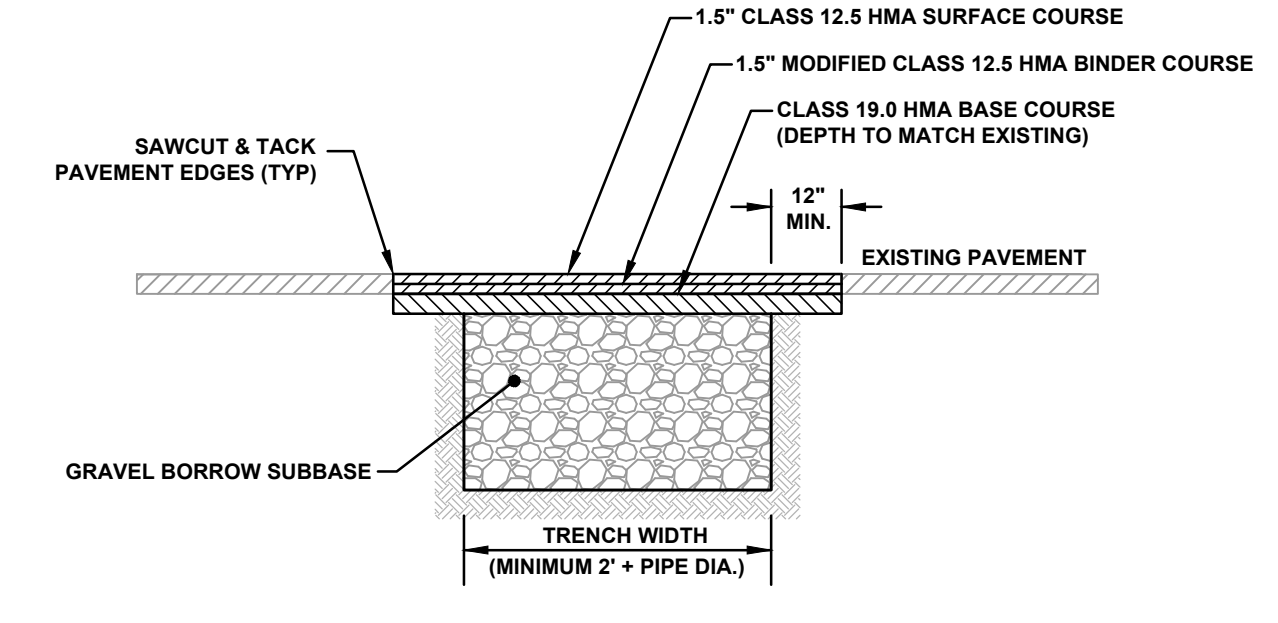
NO.	BY	DATE
1	MLP	1/10/05
2	MLP	7/21/06
3	MLP	6/01/10

June 15, 1998



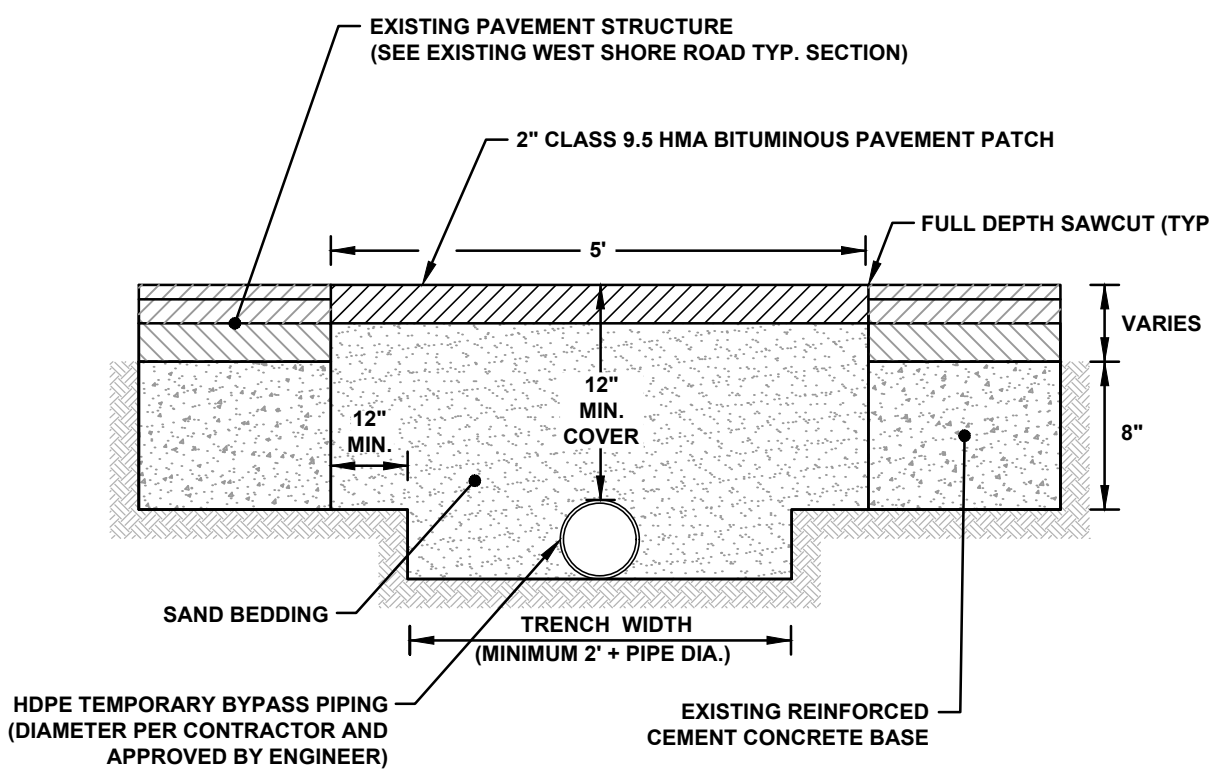
BYPASS PIPE TRENCH WITHIN STATE ROADWAY WITHOUT CONCRETE BASE

NOT TO SCALE



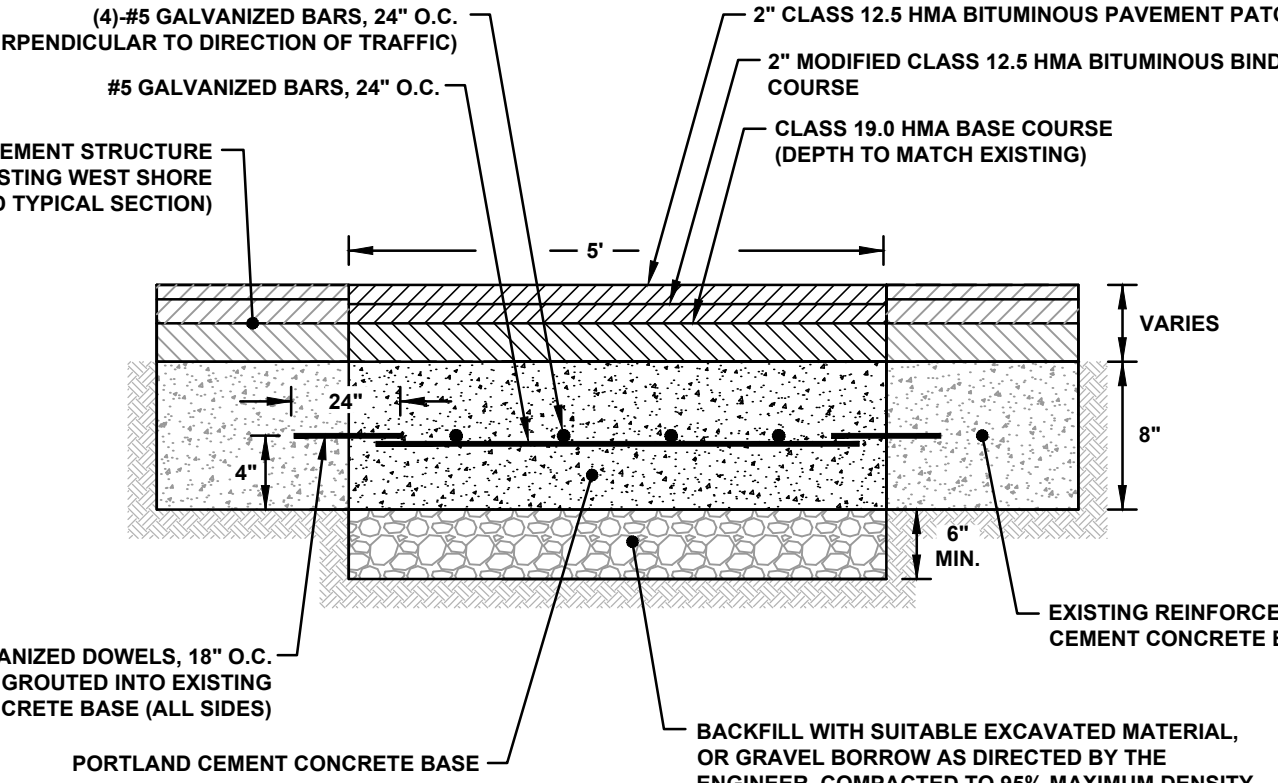
TRENCH RESTORATION WITHIN STATE ROADWAY WITHOUT CONCRETE BASE

NOT TO SCALE



BYPASS PIPE TRENCH WITHIN STATE ROADWAY WITH CONCRETE BASE

NOT TO SCALE



REINFORCED CONCRETE ROADWAY BASE RESTORATION

NOT TO SCALE

NOTES:

1. ALL METHODS USED FOR THE REMOVAL AND DISPOSAL OF EXISTING REINFORCED CONCRETE ROADWAY BASE WITHIN WEST SHORE ROAD PRIOR TO TEMPORARY BYPASS PIPE INSTALLATION SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED.

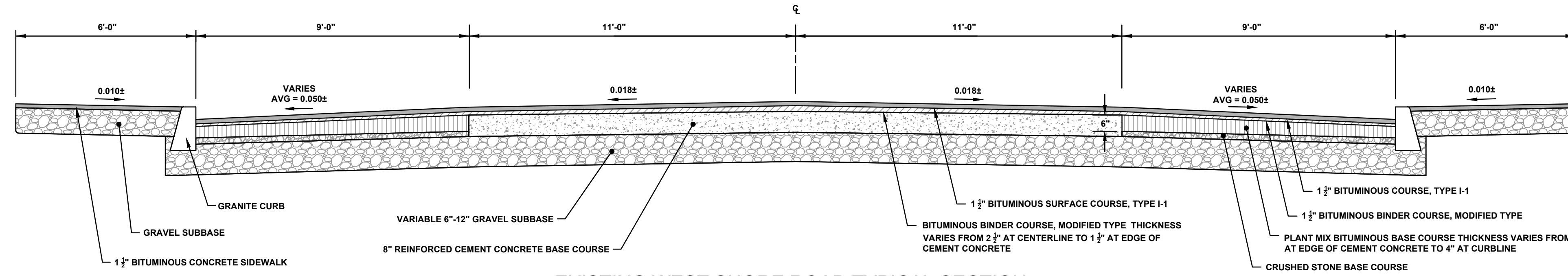
NOTES:

1. ALL METHODS AND MATERIALS USED FOR FINAL RESTORATION OF REINFORCED CONCRETE ROADWAY BASE WITHIN WEST SHORE ROAD SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED.

2. SEE BITUMINOUS OVERLAY DETAIL FOR FINAL PAVEMENT RESTORATION (DETAIL NO. WSA-12).

TEMPORARY BYPASS FLOW DATA

TEMPORARY BYPASS	LENGTH (FT)	ESTIMATED FLOW (GPM)
PRIMARY (PHASE-1)	2,330±	1,500±
PRIMARY (PHASE-2)	2,340±	1,500±
PRIMARY (PHASE-3)	2,300±	1,500±
PRIMARY (PHASE-4)	1,950±	1,500±
WARWICK NECK	25±	1,000±
PETTIS DRIVE	25±	TBD

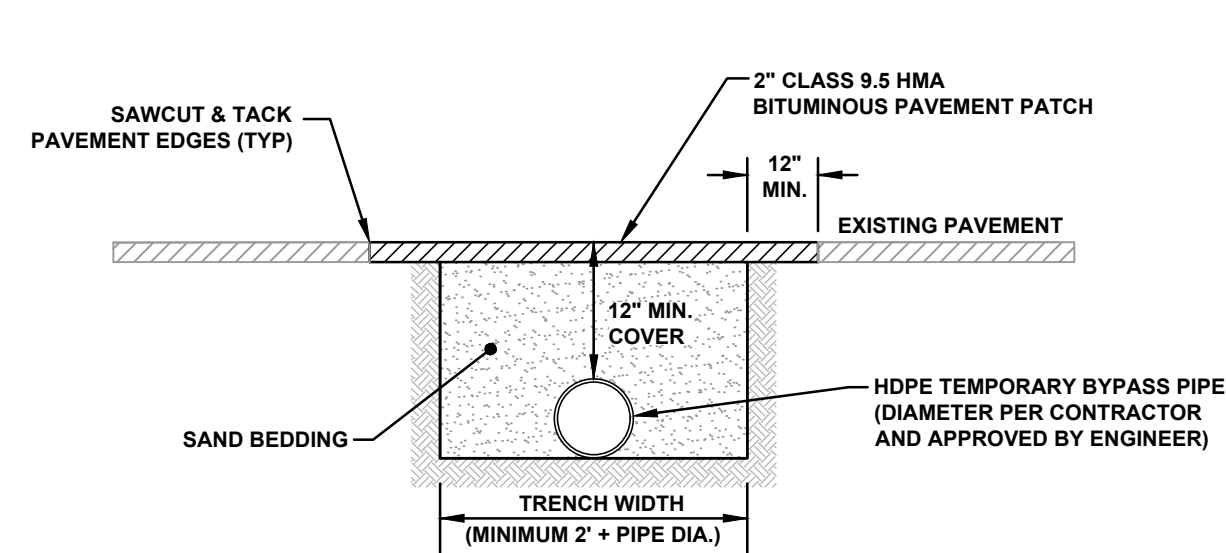


EXISTING WEST SHORE ROAD TYPICAL SECTION

NOT TO SCALE

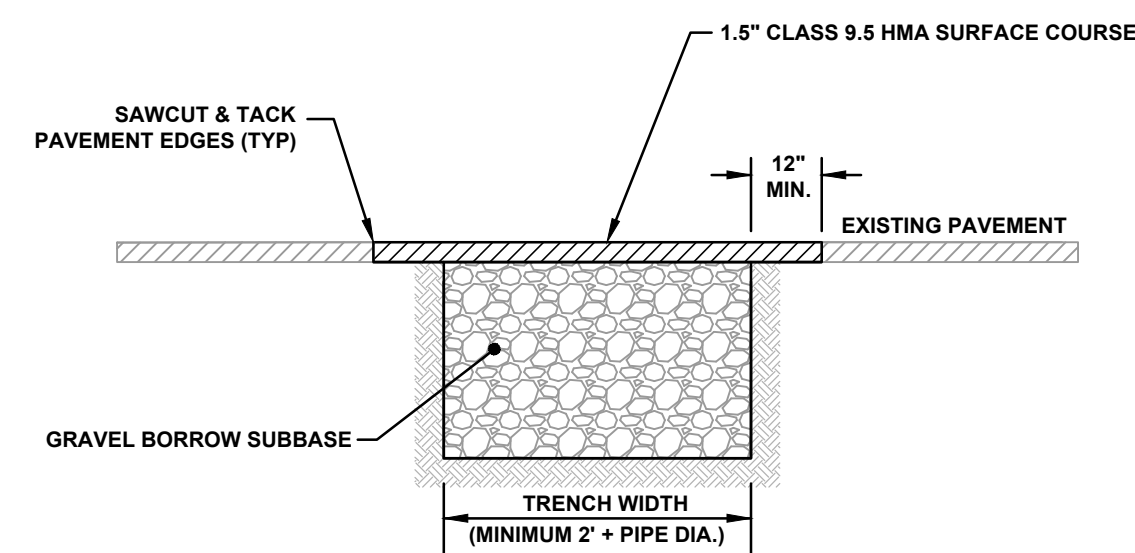
NOTES:

1. THE EXISTING WEST SHORE ROAD TYPICAL SECTION ABOVE IS BASED ON THE CONSTRUCTION PLAN SET ENTITLED "PLAN, PROFILE AND SECTIONS OF STATE HIGHWAY RESURFACING WEST SHORE ROAD FROM OAKLAND BEACH AVENUE TO SPRING GROVE AVENUE, WARWICK, RHODE ISLAND," PREPARED FOR THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION DIVISION OF PUBLIC WORKS, PREPARED BY CE MAGUIRE, INC., DATED MAY 1979.



BYPASS PIPE TRENCH WITHIN LOCAL ROADWAY

NOT TO SCALE

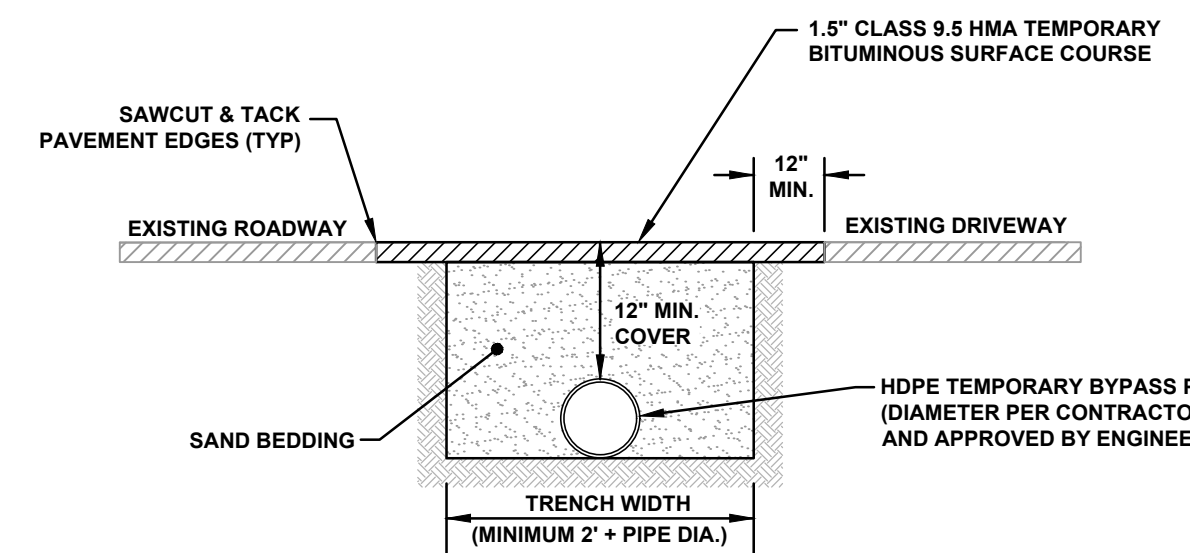


TRENCH RESTORATION WITHIN LOCAL ROADWAY

NOT TO SCALE

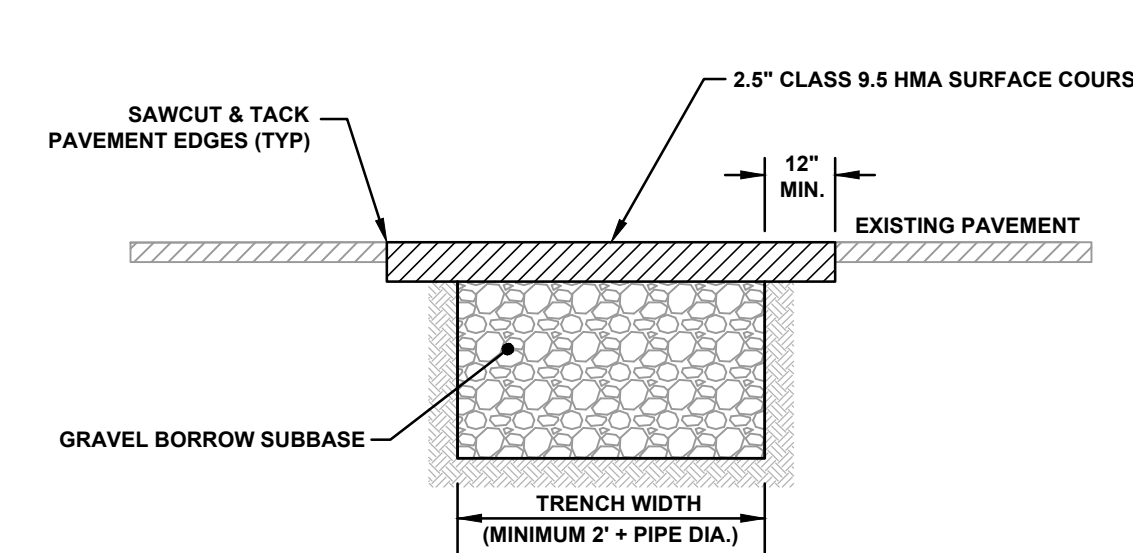
NOTES:

1. SEE BITUMINOUS OVERLAY DETAIL FOR FINAL PAVEMENT RESTORATION (DETAIL NO. WSA-12).



BYPASS PIPE TRENCH WITHIN ASPHALT DRIVEWAY

NOT TO SCALE



TRENCH RESTORATION WITHIN ASPHALT DRIVEWAY

NOT TO SCALE

NOTES:

1. THE PERMANENT DRIVEWAY PAVEMENT DEPTH SHALL BE NO LESS THAN THE EXISTING PAVEMENT DEPTH AND A MINIMUM OF 2 1/2".

CONSTRUCTION DETAILS-3

FOR

OAKLAND BEACH FORCE MAIN REHABILITATION

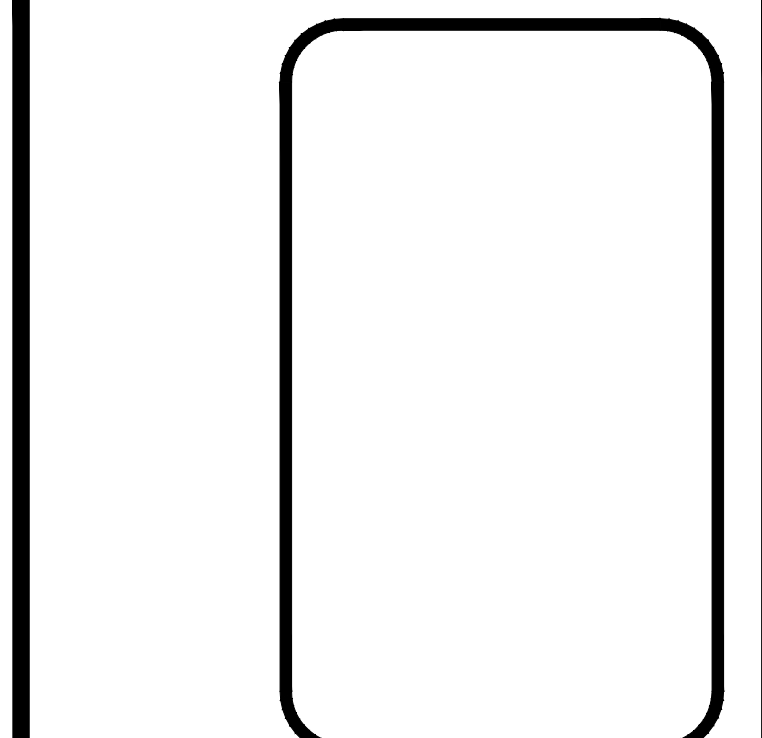
SITUATED AT

OAKLAND BEACH WARWICK, RI

PREPARED FOR

WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE



GAROFALO

GAROFALO & ASSOCIATES, INC.

CIVIL & STRUCTURAL ENGINEERS/SURVEYORS

LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET

P.O. BOX 6145

PROVIDENCE, R.I. 02940

TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project and site shown. They are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

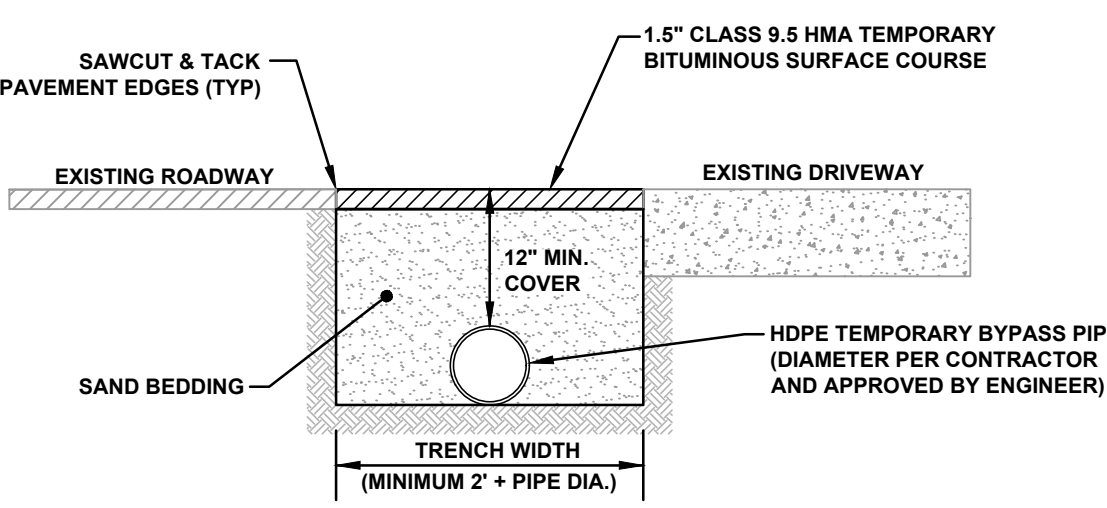
JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Det.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

SHEET

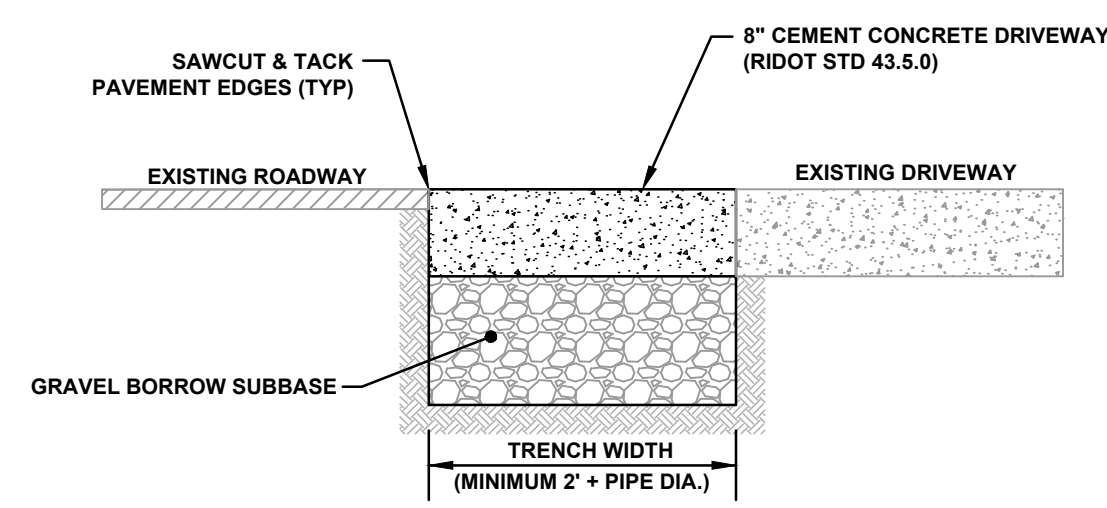
19

19 OF 22 SHEETS

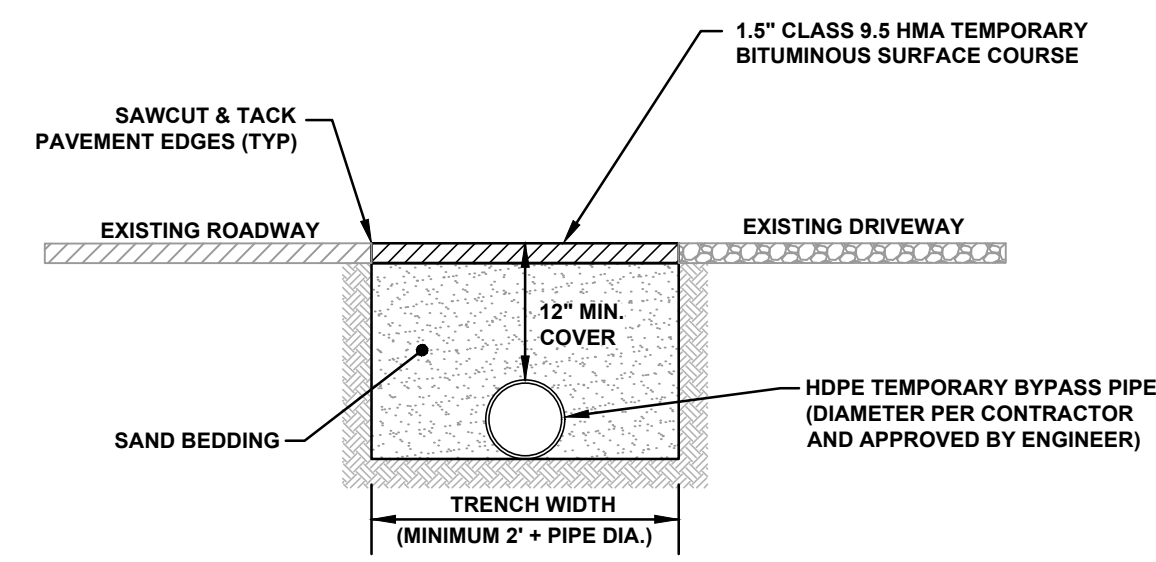




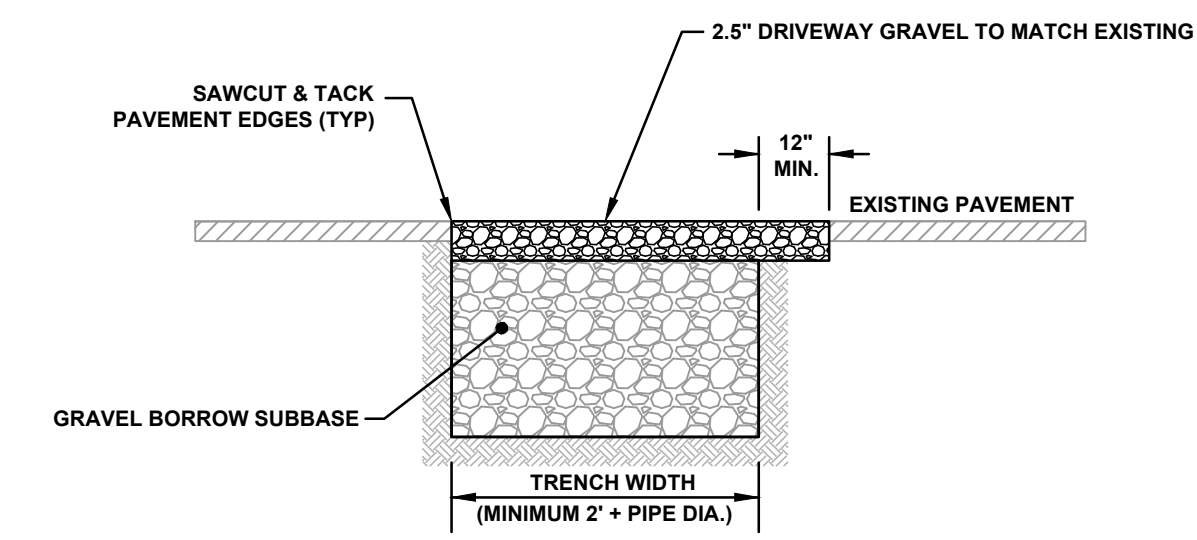
**BYPASS PIPE TRENCH WITHIN CEMENT CONCRETE DRIVEWAY**  
NOT TO SCALE



**PERMANENT TRENCH RESTORATION WITHIN CEMENT CONCRETE DRIVEWAY**  
NOT TO SCALE

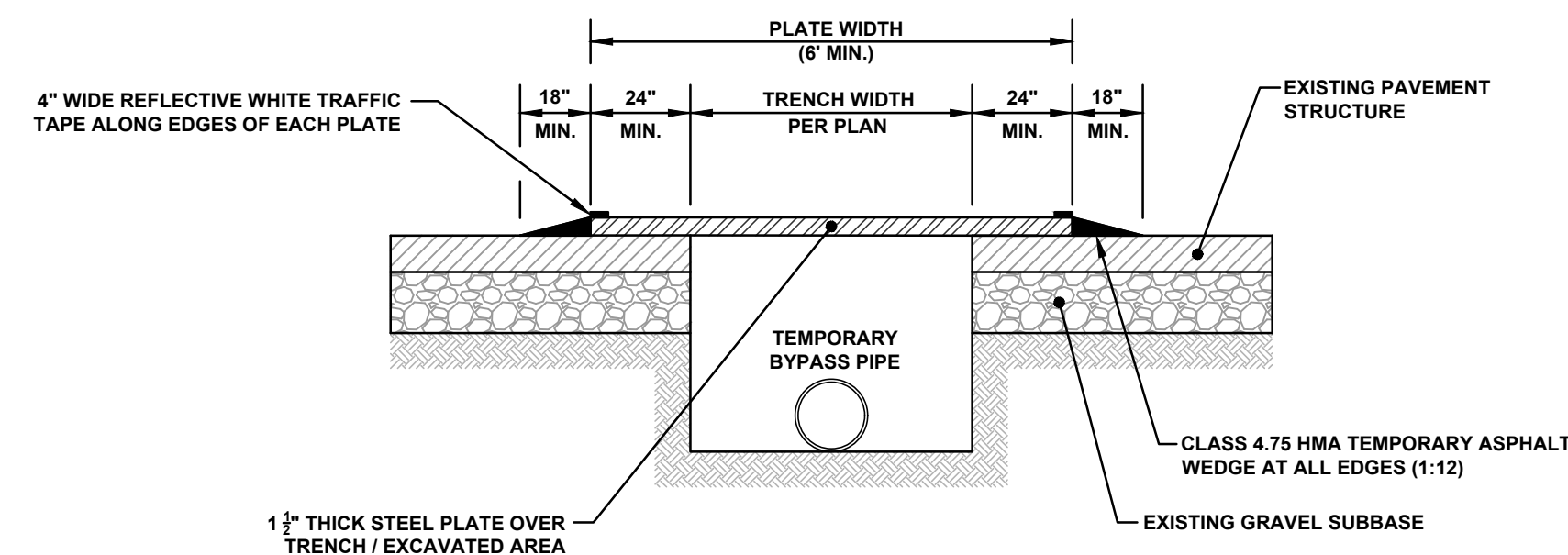


**BYPASS PIPE TRENCH WITHIN GRAVEL DRIVEWAY**  
NOT TO SCALE



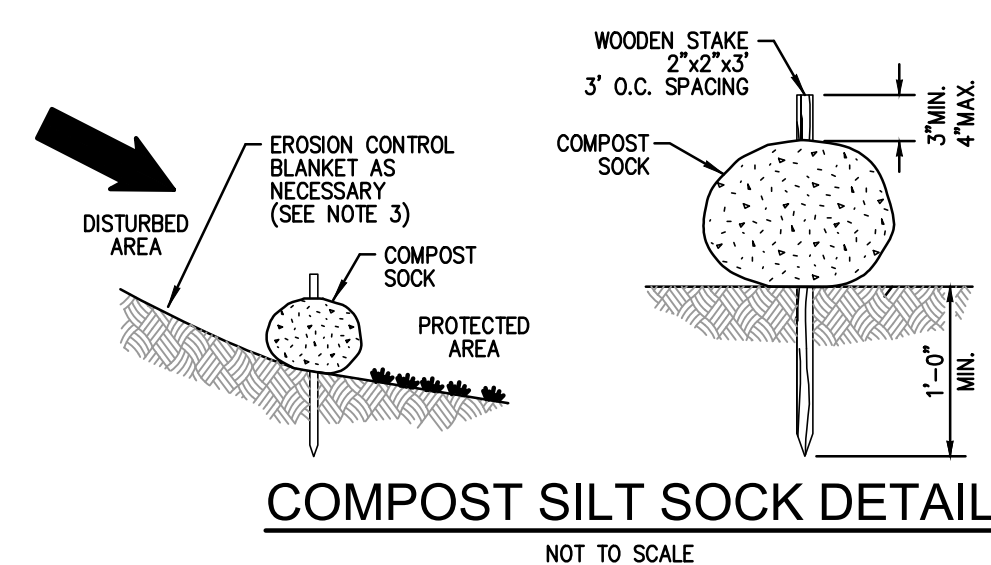
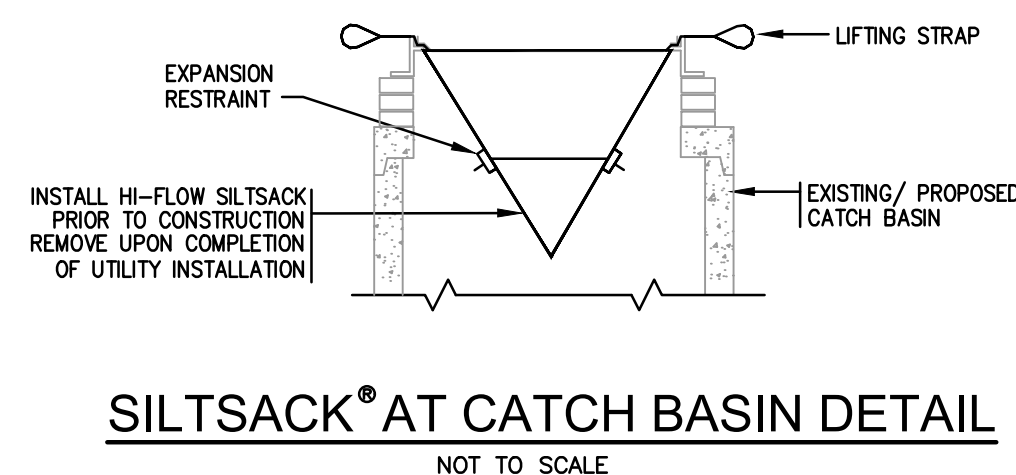
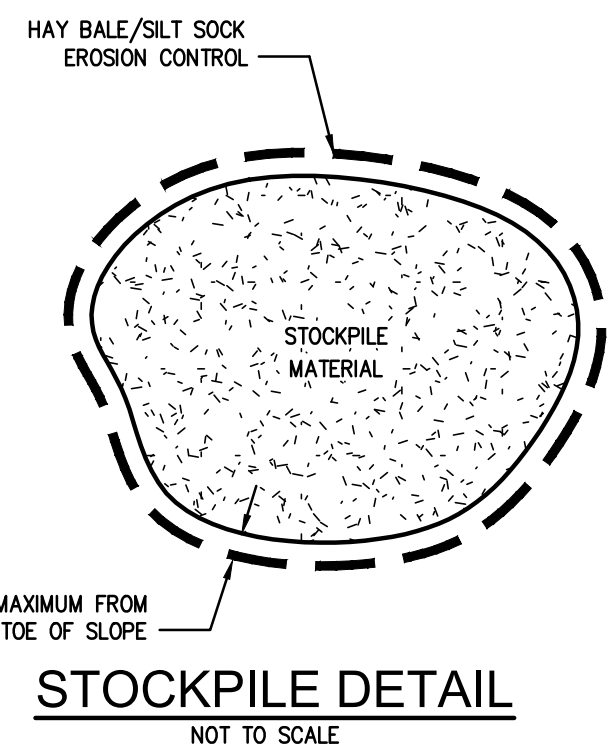
**PERMANENT TRENCH RESTORATION WITHIN GRAVEL DRIVEWAY**  
NOT TO SCALE

NOTES:  
1. THE PERMANENT DRIVEWAY GRAVEL PAVEMENT DEPTH SHALL BE NO LESS THAN THE EXISTING GRAVEL DEPTH AND A MINIMUM OF 2". AGGREGATE MATERIAL SHALL MATCH EXISTING AND SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED.

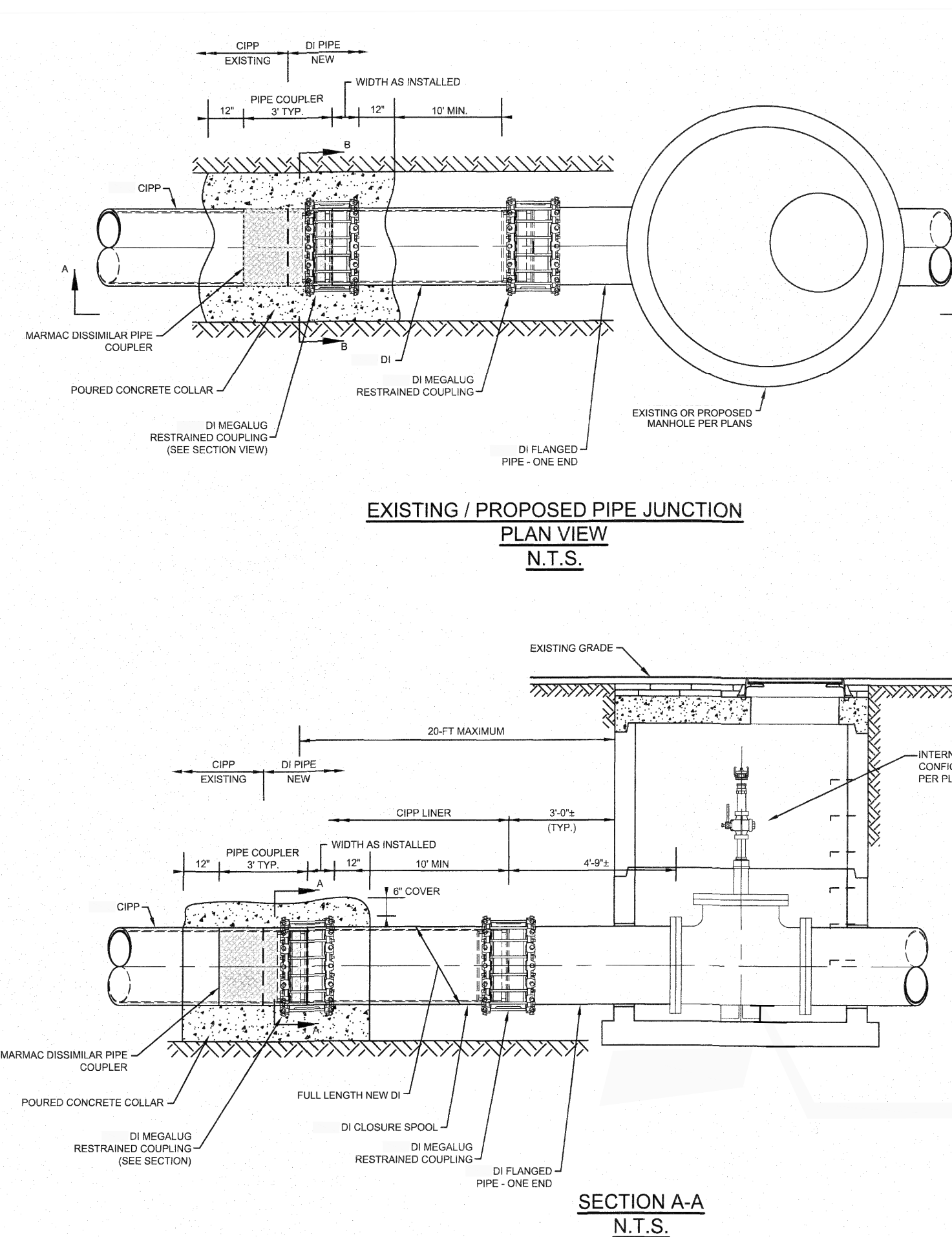


**TEMPORARY STEEL PLATE OVER TEMP. BYPASS TRENCH (RAMP METHOD)**  
NOT TO SCALE

NOTES:  
1. STEEL PLATES SHALL HAVE A SKID RESISTANT SURFACE AND SHALL BE PINNED WITH REMOVABLE SPIKES 6" x 1/2" INSTALLED FLUSH TO THE PLATE.



NOTES:  
1. COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 6" IN DIAMETER.  
2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.  
3. WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET IF SPECIFIED ON PLANS.  
4. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.  
5. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.



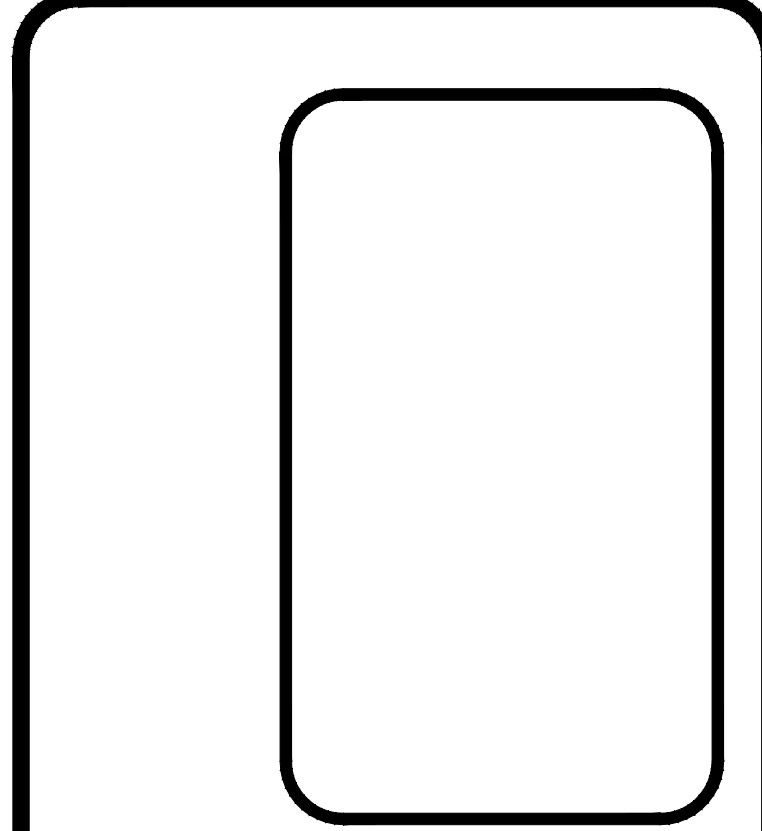
**ALTERNATE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS**  
NOT TO SCALE

NOTES:  
1. ANGLE AND POSITION OF REBAR INSERT MAY BE ADJUSTED IN THE FIELD AS APPROVED BY THE RESIDENT ENGINEER AND/OR OWNER

**SECTION B-B N.T.S.**

**CONSTRUCTION DETAILS-4**  
FOR  
**OAKLAND BEACH FORCE MAIN REHABILITATION**  
SITUATED AT  
**OAKLAND BEACH WARWICK, RI**  
PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

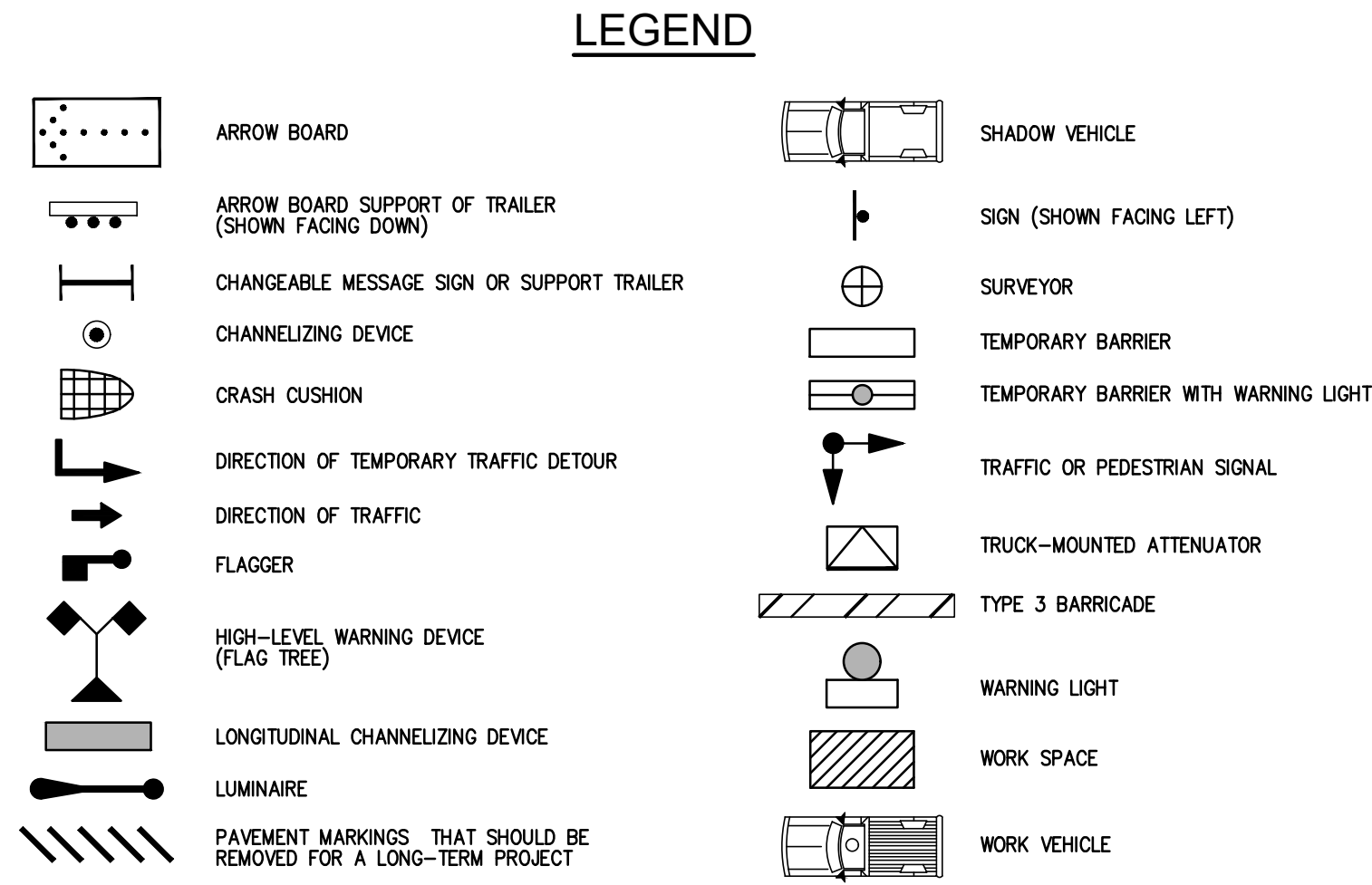
85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

Corofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific use of the project at this site and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Det.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

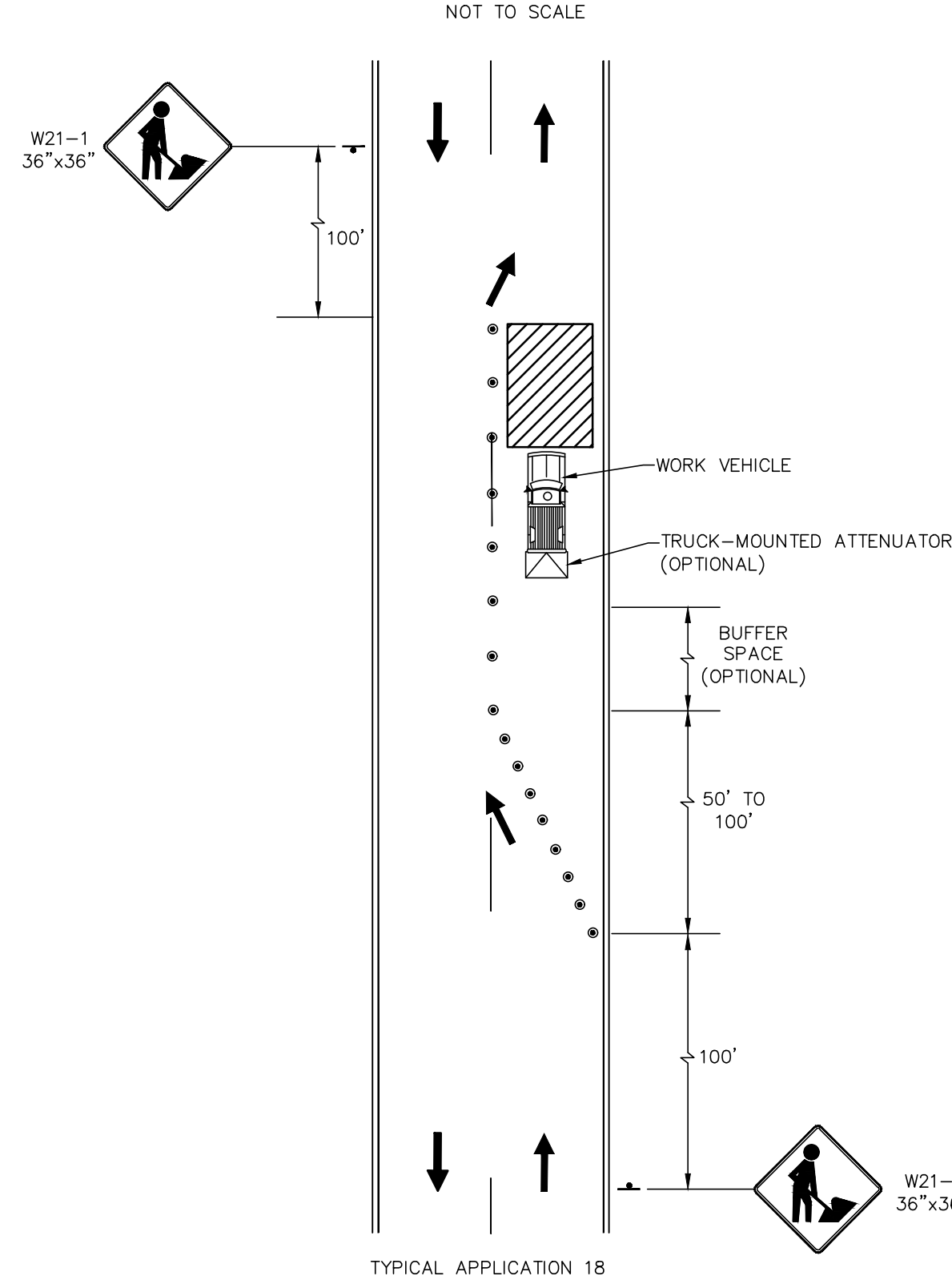
SHEET  
**20**  
20 OF 22 SHEETS



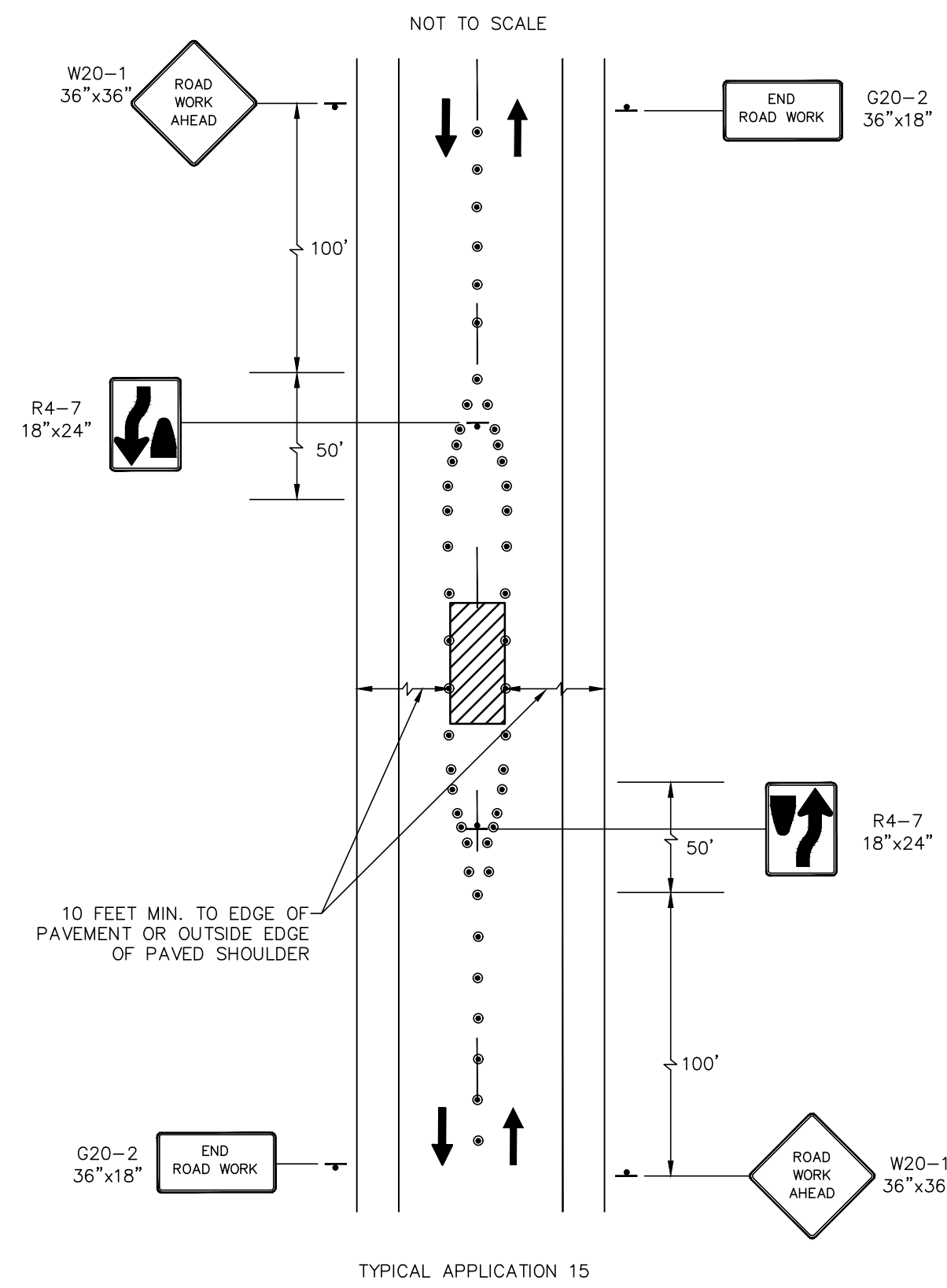


- NOTES:**
1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
  2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PLACED PRIOR TO THE START OF WORK.
  3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICABLE WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
  4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
  5. THE BUFFER SPACES SHOULD BE EXTENDED IF NECESSARY SO THAT THE 100' MAX. TWO-WAY TRAFFIC TAPERS ARE PLACED BEFORE HORIZONTAL (OR CREST VERTICAL) CURVES TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND QUEUES OF STOPPED VEHICLES.
  6. MAXIMUM SPACING OF CHANNELIZING DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
  7. MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
  8. THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
  9. WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
  10. IF THE WORK EXTENDS ACROSS A CROSSWALK, THE CROSSWALK SHOULD BE CLOSED USING THE INFORMATION AND DEVICES SHOWN IN FIGURE 6H-29 OF THE MUTCD (2009 EDITION).
  11. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCED WARNING SIGNS.

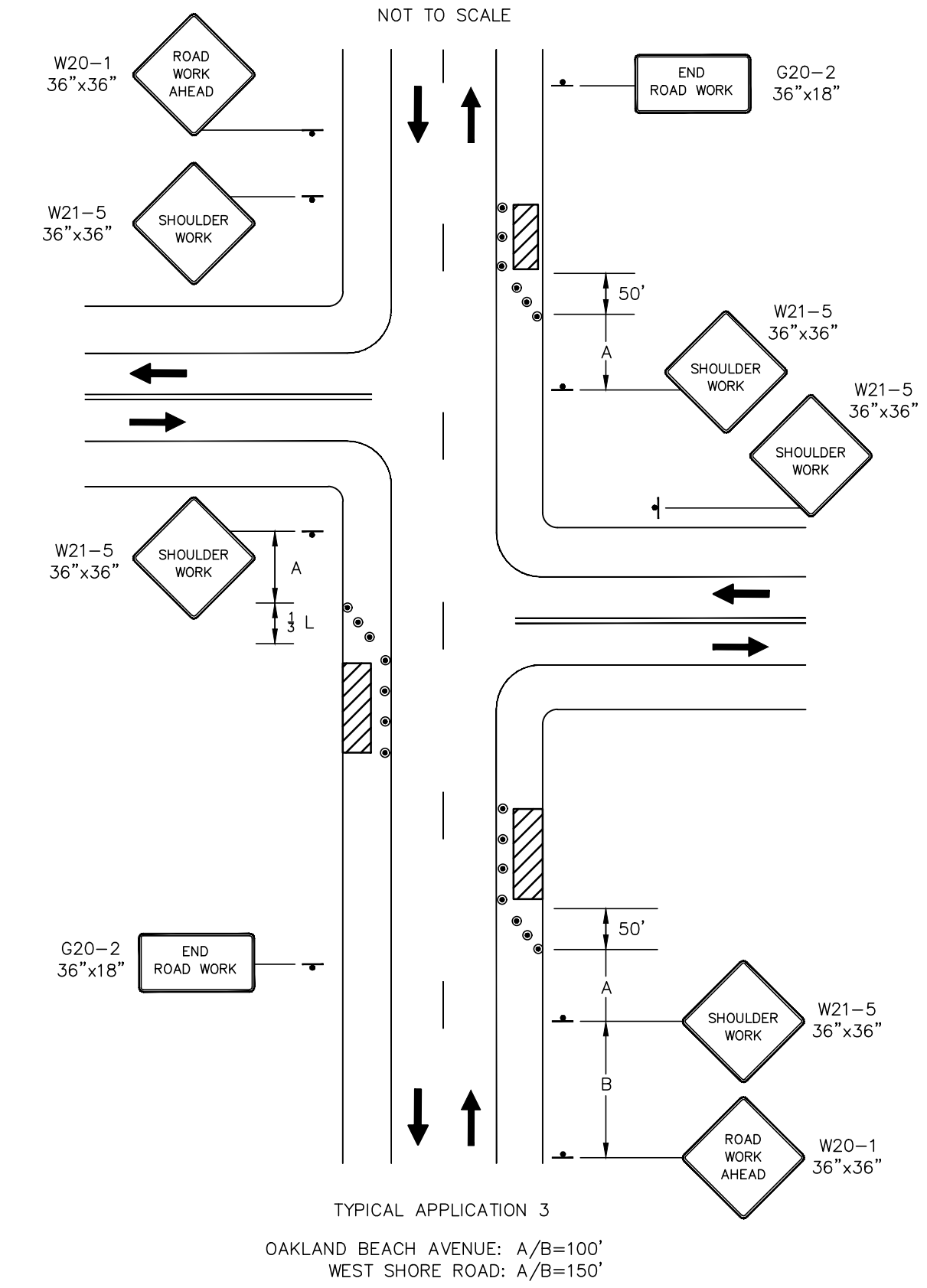
### LANE CLOSURE ON A MINOR STREET



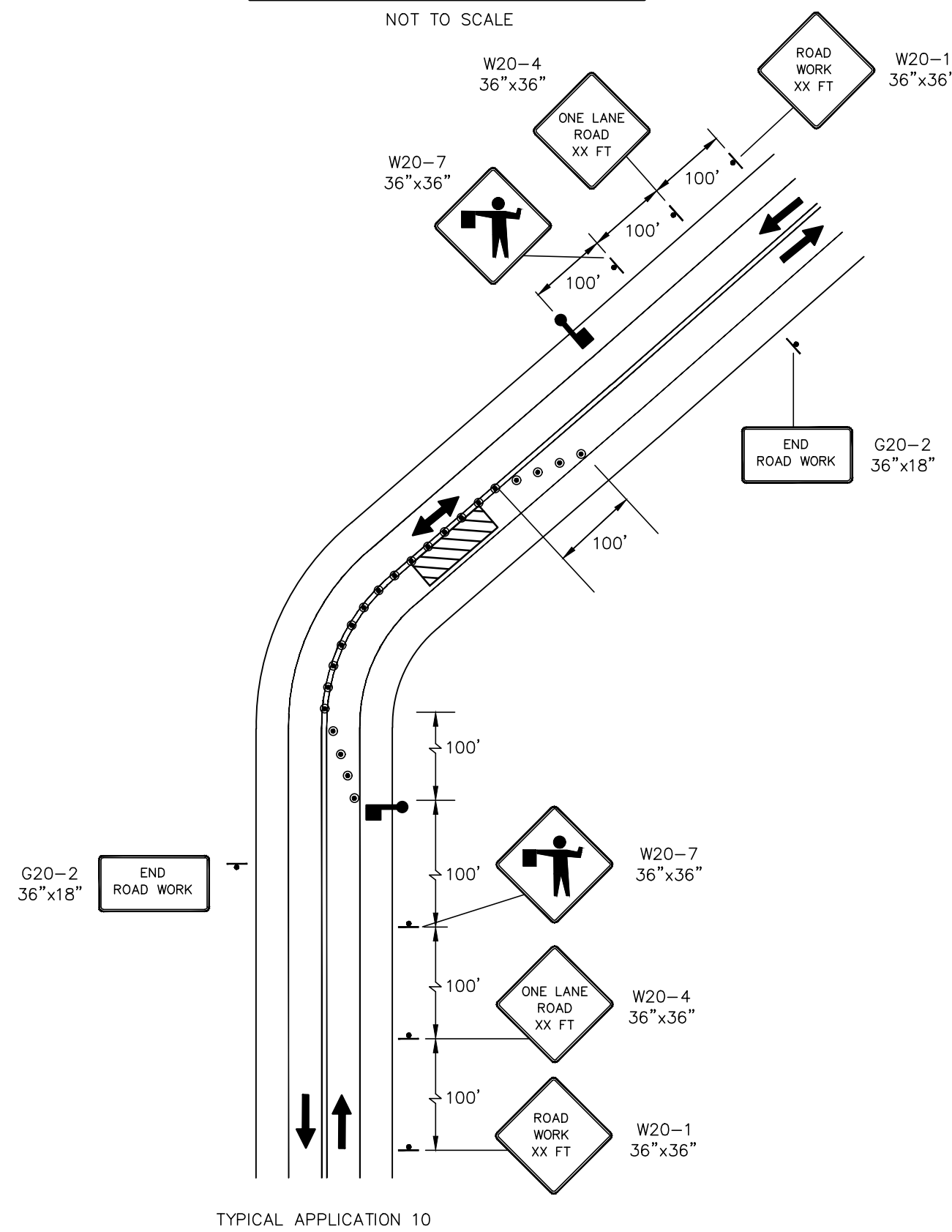
### WORK IN THE CENTER OF A ROAD WITH LOW TRAFFIC VOLUMES



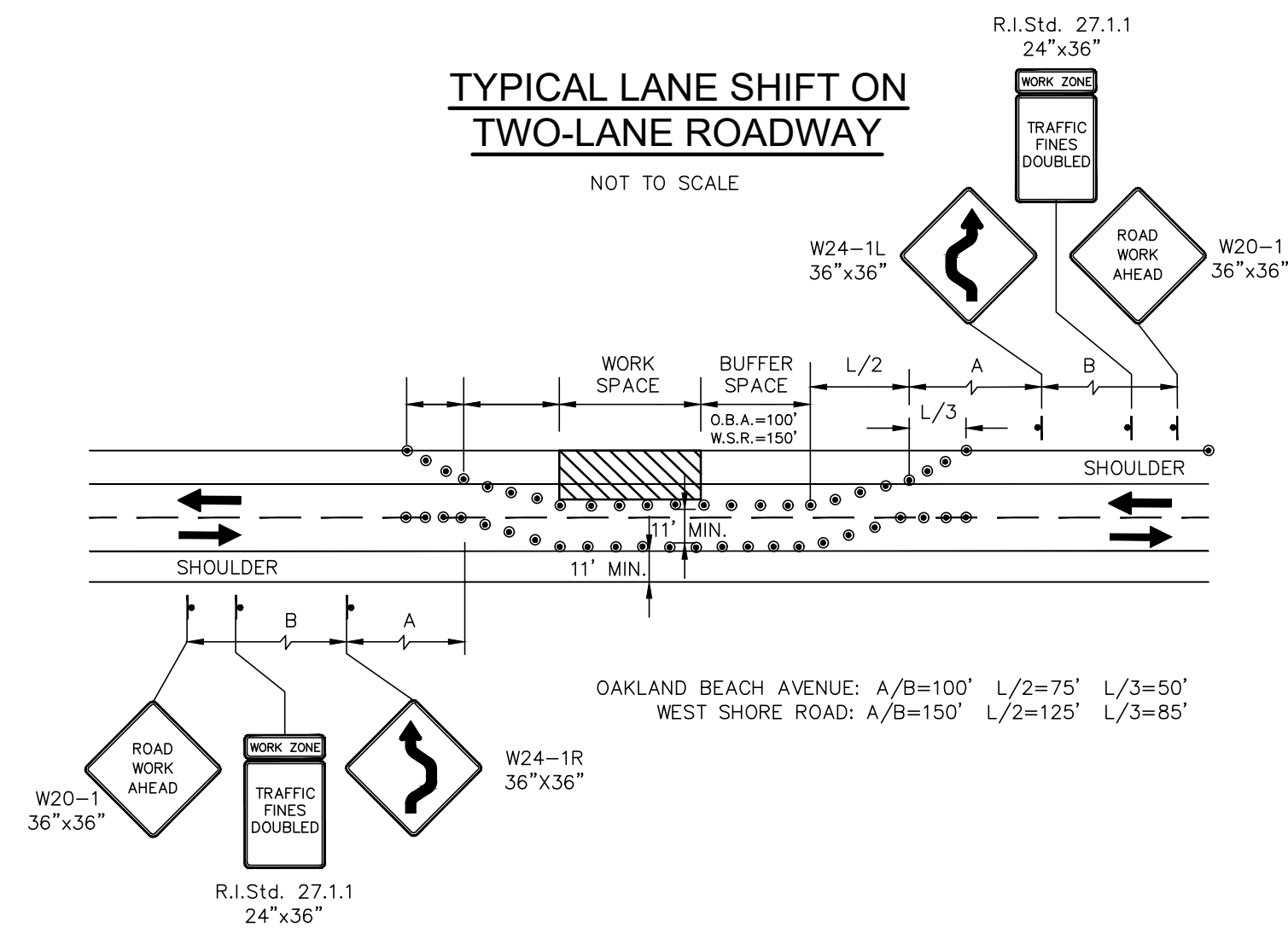
### WORK ON THE SHOULDERS



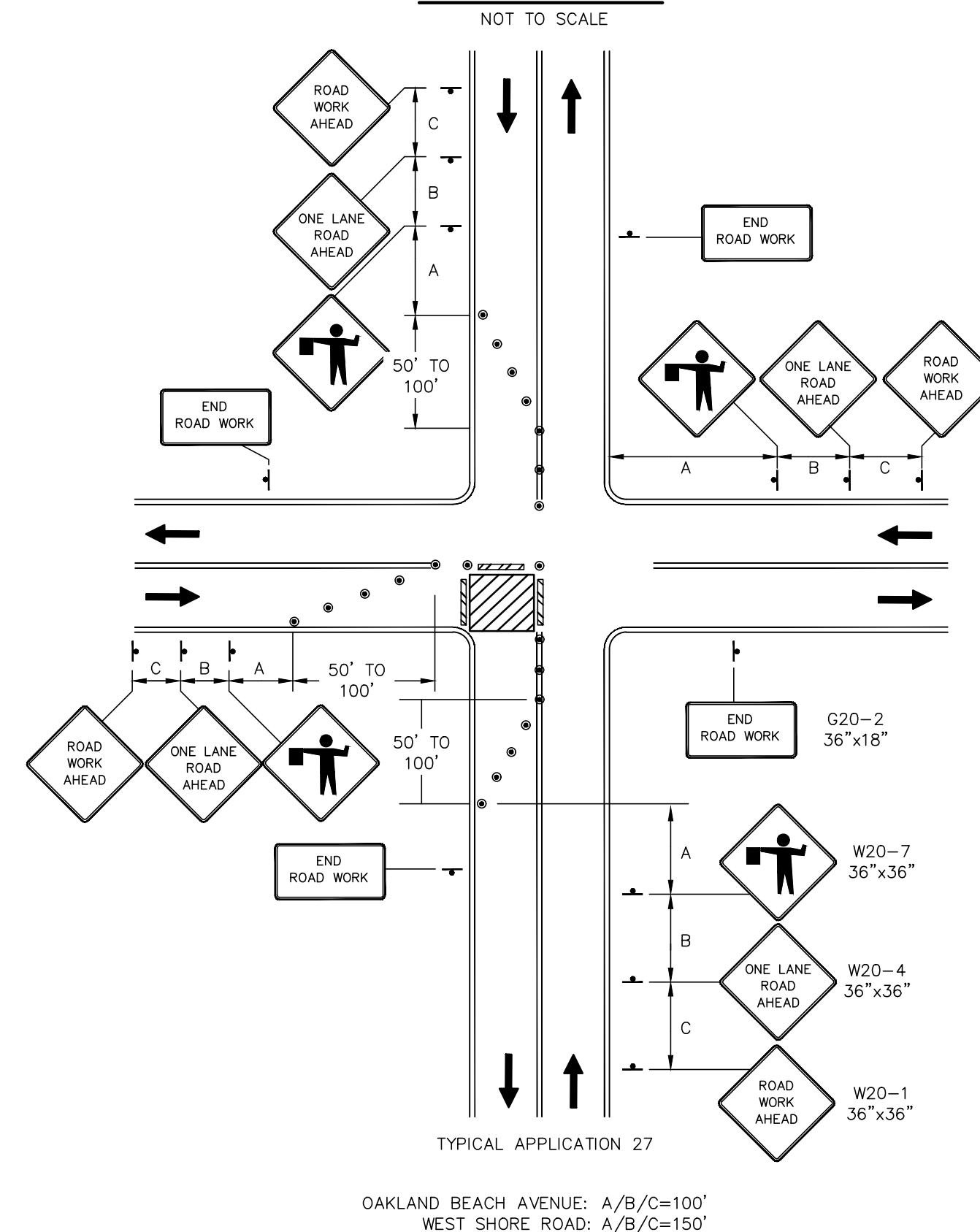
### LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS



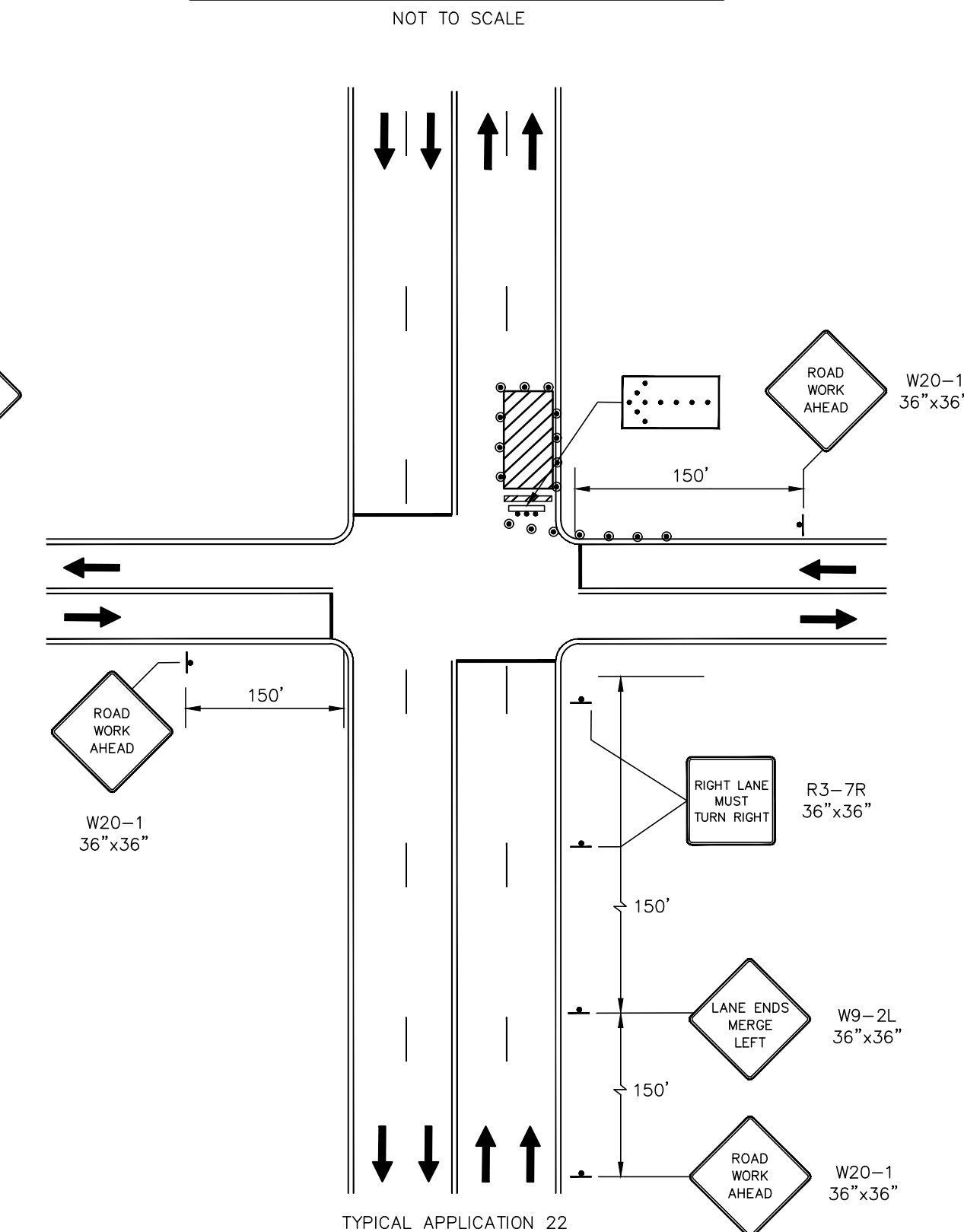
### TYPICAL LANE SHIFT ON TWO-LANE ROADWAY



### CLOSURE ON THE SIDE OF AN INTERSECTION

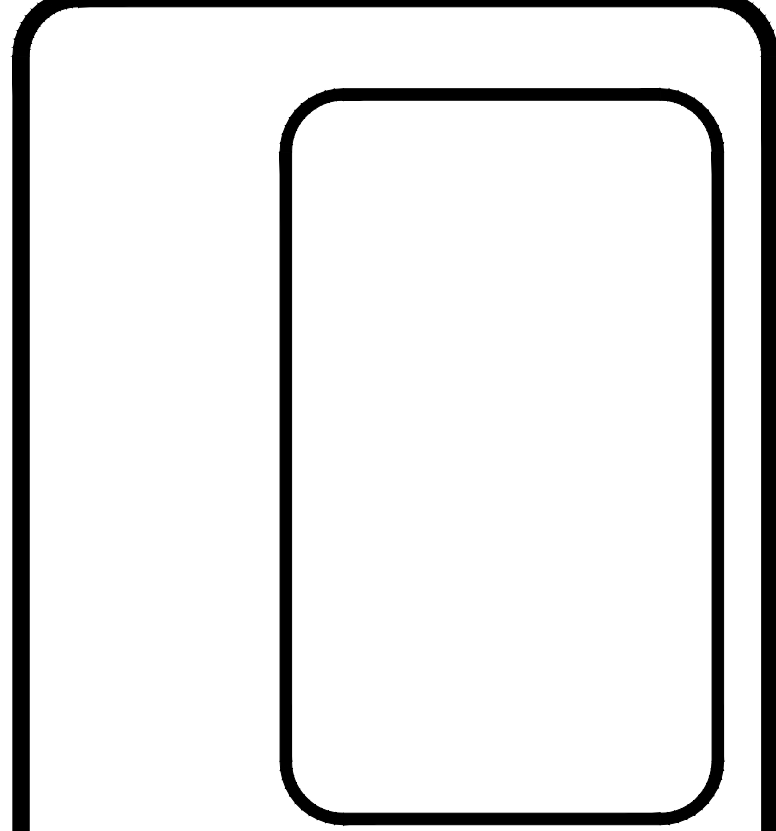


### RIGHT-HAND LANE CLOSURE ON THE FAR SIDE OF AN INTERSECTION



**CONSTRUCTION DETAILS-5**  
FOR  
**OAKLAND BEACH FORCE MAIN REHABILITATION**  
SITUATED AT  
**OAKLAND BEACH WARWICK, RI**  
PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Corofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project. This site plan and not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, RI 02940  
TEL. 401-273-6000

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Det.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

SHEET

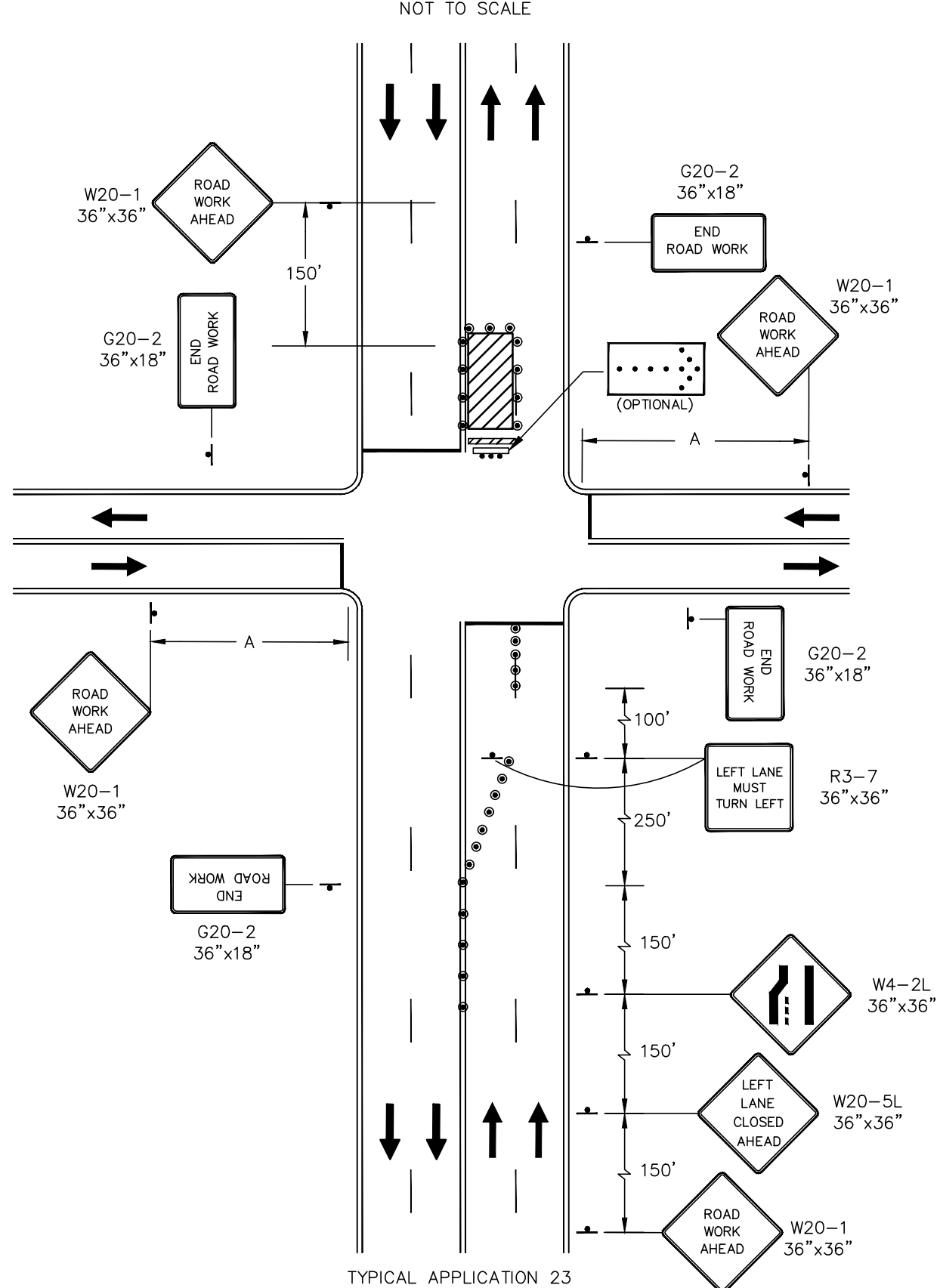
**21**

21 OF 22 SHEETS

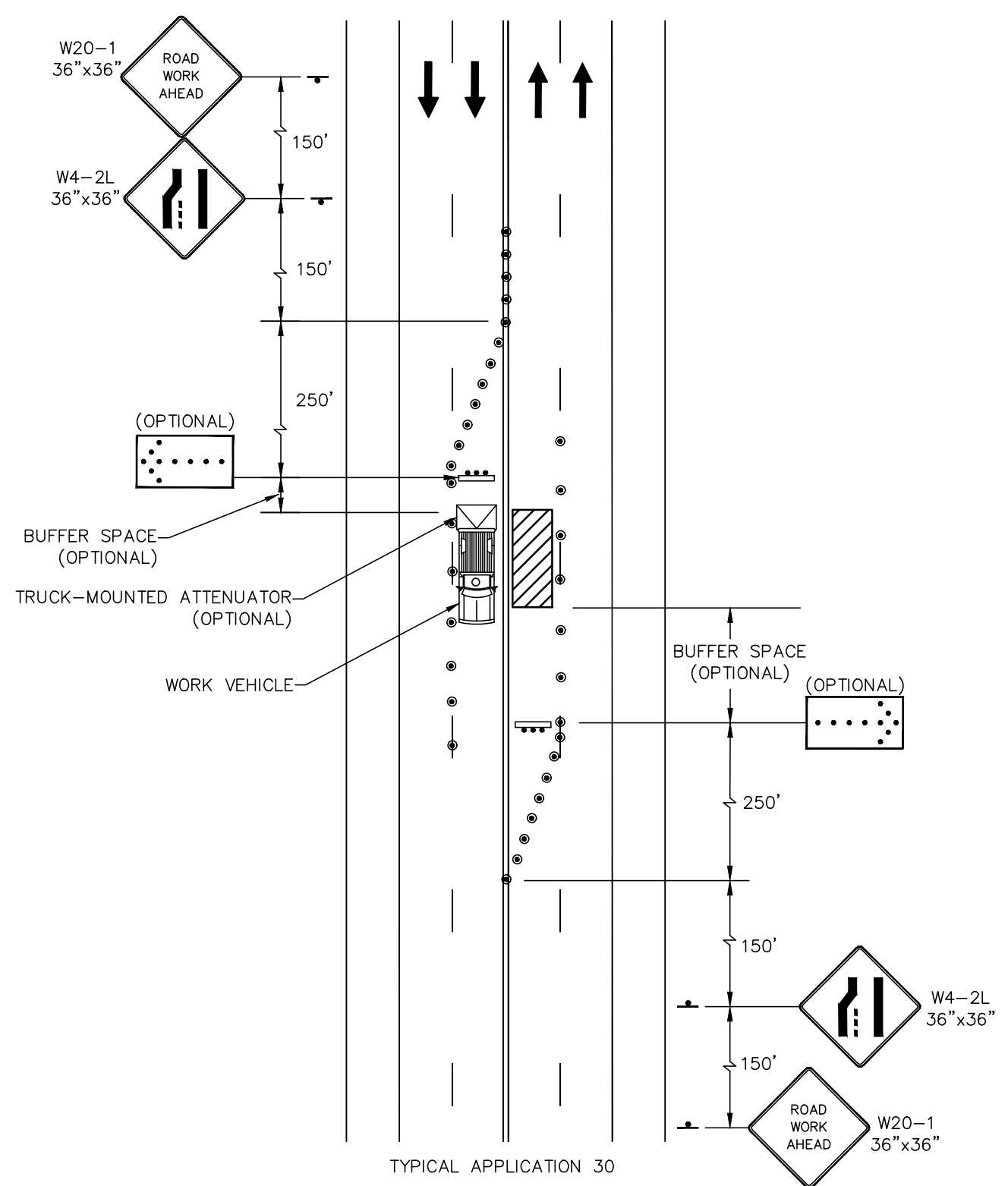


L:\7279-00 Oakland Beach (WSA) - Warwick, RI\img\01-Current\7279-00-Det.dwg 02/17/2022 rstevens 16:48

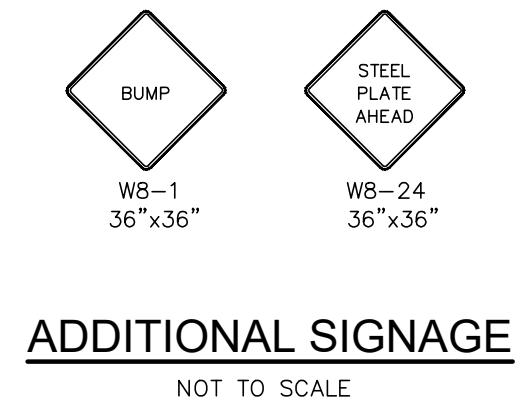
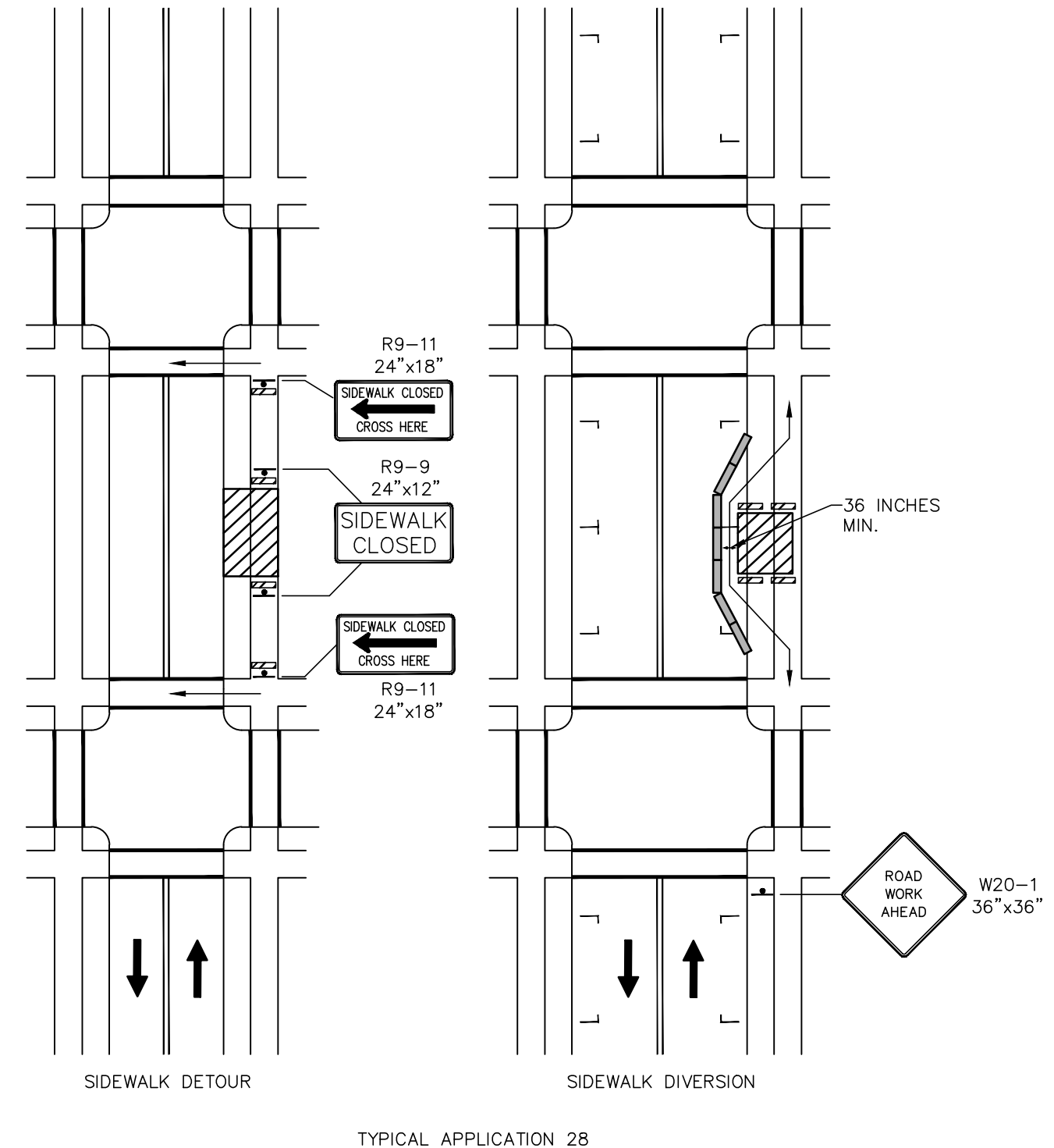
**LEFT-HAND LANE CLOSURE ON THE FAR SIDE OF AN INTERSECTION**  
NOT TO SCALE



**INTERIOR LANE CLOSURE**  
NOT TO SCALE



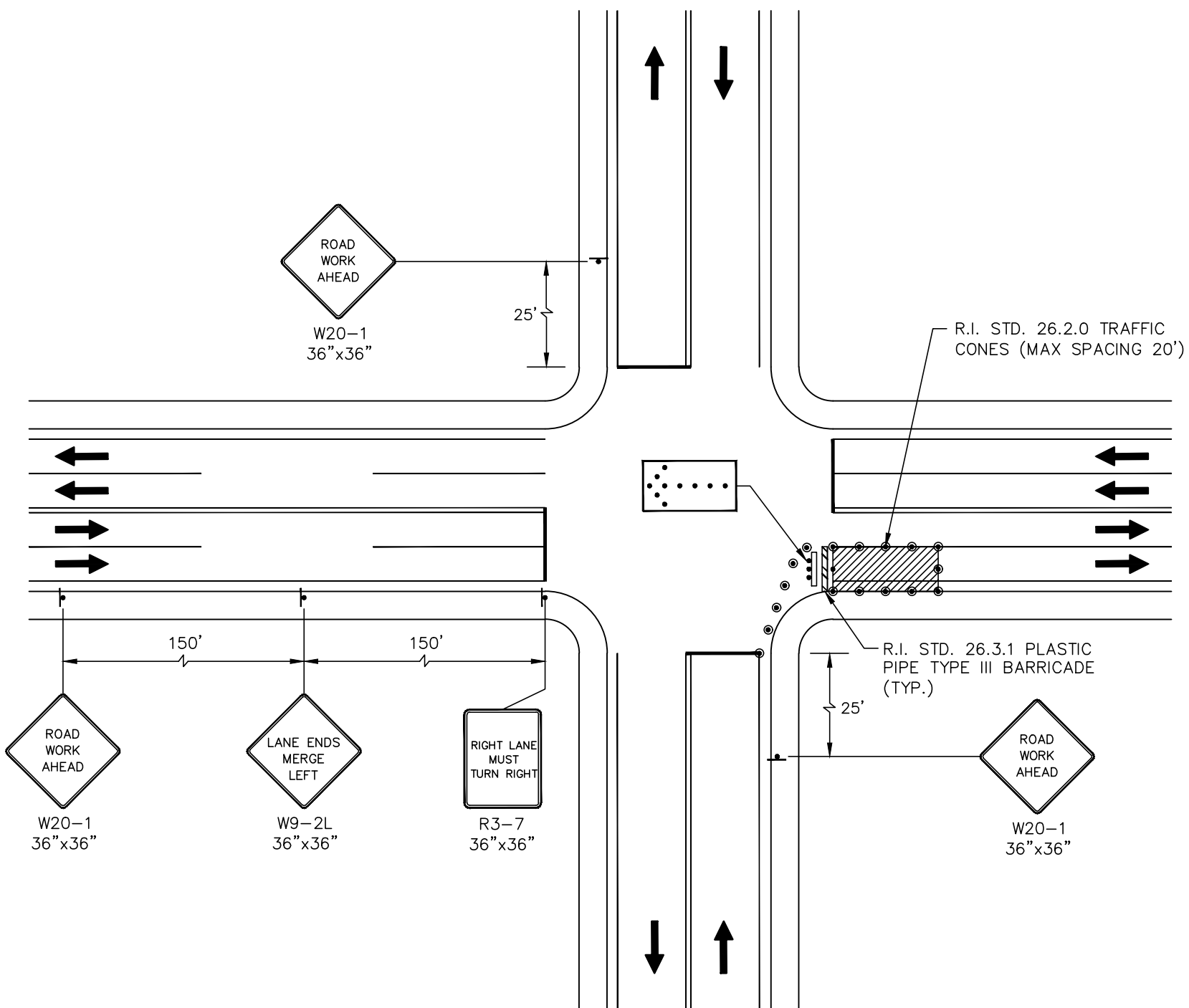
**SIDEWALK DETOUR OR DIVERSION**  
NOT TO SCALE



**ADDITIONAL SIGNAGE**  
NOT TO SCALE

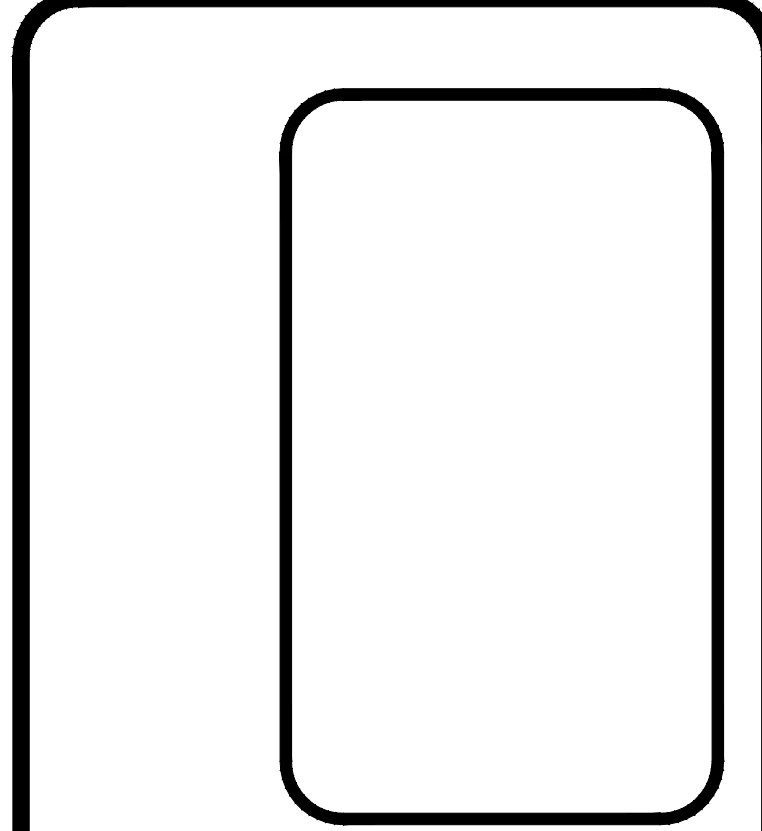
NOTES:  
1. THE ADDITIONAL WARNING SIGNS ABOVE SHALL BE PLACED IN ADVANCE OF ANY TEMPORARY ROADWAY TRENCH COVERED WITH STEEL PLATES AND/OR ANY BUMPY ROADWAY CONDITION CREATED BY CONSTRUCTION ACTIVITIES

**RIGHT HAND LANE CLOSURE ON THE FAR SIDE OF AN INTERSECTION**  
NOT TO SCALE



**CONSTRUCTION DETAILS-6**  
FOR  
**OAKLAND BEACH FORCE MAIN REHABILITATION**  
SITUATED AT  
**OAKLAND BEACH WARWICK, RI**  
PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, RI 02940  
TEL. 401-273-6000

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project at this site and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Det.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

SHEET

**22**

22 OF 22 SHEETS