

MAINE MEDICAL CENTER

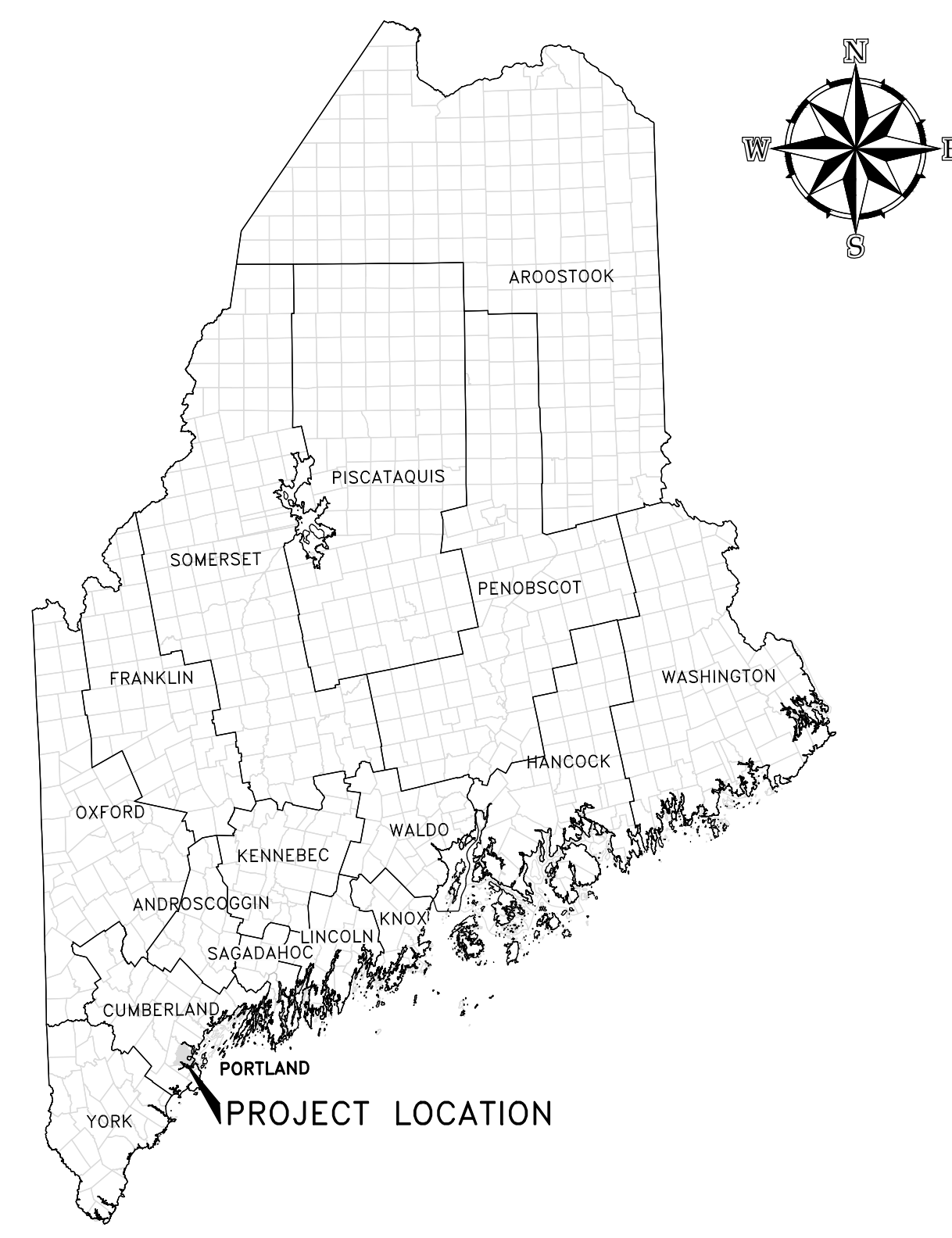
PORTLAND, ME 04102

ST. JOHN STREET EMPLOYEE PARKING GARAGE

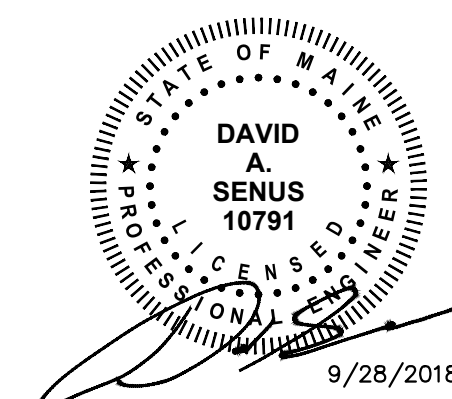
W&C PROJECT NO. 0231158.00

SEPTEMBER 28, 2018

PERMIT SET



PROJECT LOCATION MAP

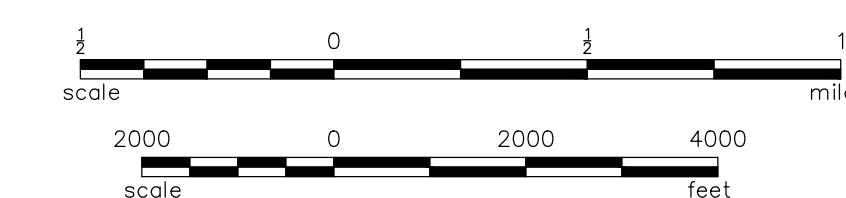


41 Hutchins Drive | Portland, Maine 04102
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COMMITMENT & INTEGRITY DRIVE RESULTS



SOURCE: USGS TOPOGRAPHIC MAP
SITE LOCATION MAP



GENERAL NOTES:

- 1. EXISTING CONDITIONS, TOPOGRAPHIC INFORMATION, UTILITY LOCATIONS & PROPERTY LINE INFORMATION SHOWN HEREON HAVE BEEN PROVIDED FROM A FIELD SURVEY PREPARED BY OWEN HASKELL, INC., DATED NOV. 16, 2016 & UPDATED MARCH 26, 2018.

- 19. WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH APPLICABLE CITY OF PORTLAND AND STATE REQUIREMENTS.

DEMOLITION NOTES:

- 1. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE CITY OF PORTLAND, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.

GRADING AND DRAINAGE NOTES:

- 1. CASTINGS FOR EXISTING STRUCTURES TO REMAIN AND PROPOSED STRUCTURES SHALL BE SET TO THE PROPOSED ELEVATIONS SHOWN ON THE DRAWINGS.

UTILITIES NOTES:

- 1. ALL PROPOSED UTILITIES (WATER, ELECTRIC, SANITARY, STORM SEWER, ETC.) AND THEIR CONNECTIONS, DISCONNECTION AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, and Notes. Includes entries like A.G. ABOVE GROUND, BC BOTTOM OF CURB, CB CATCH BASIN, etc.

LAYOUT AND MATERIALS NOTES:

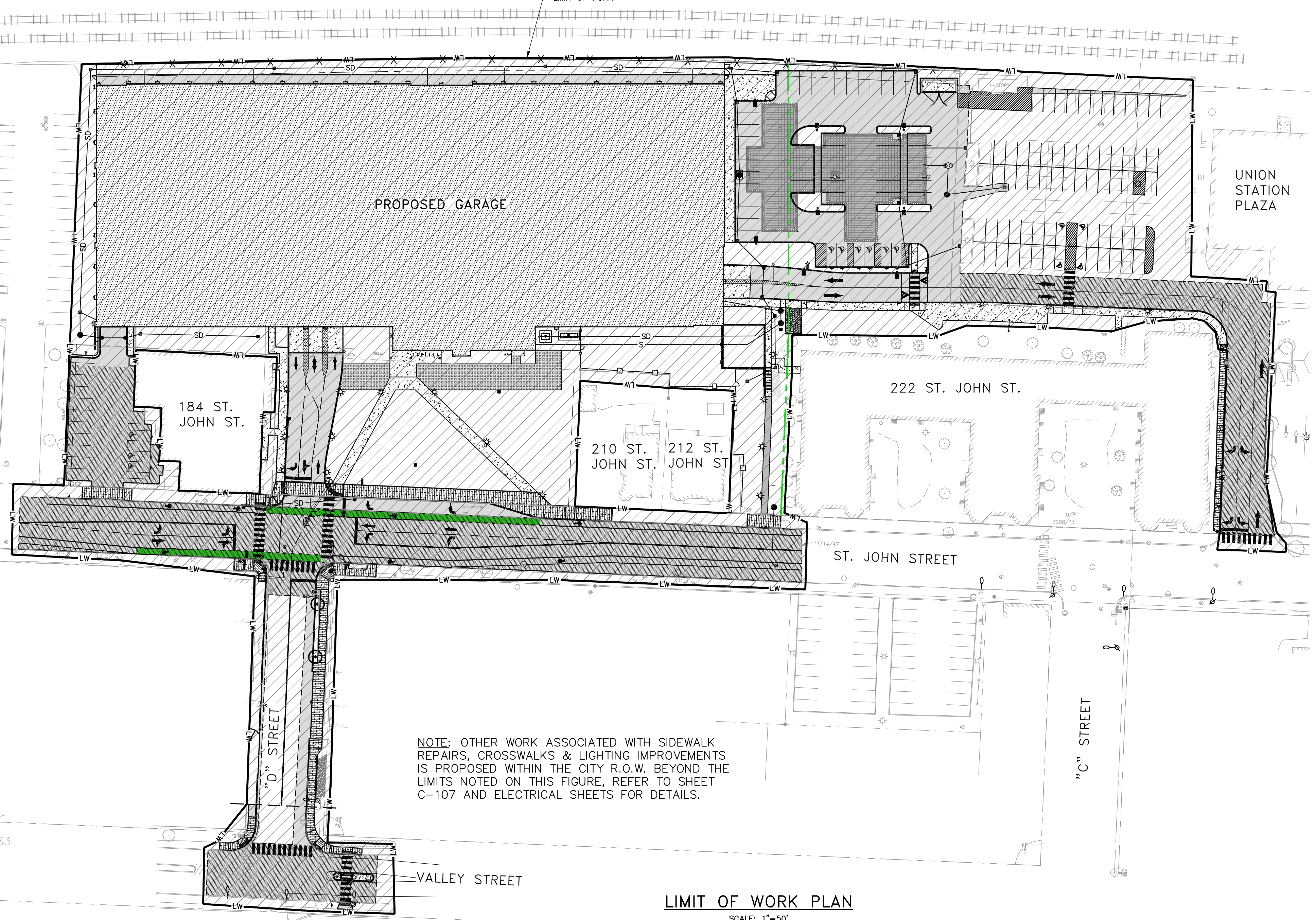
- 1. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

LEGEND

Legend table for existing and proposed features. Existing includes Contour, Sanitary Sewer, Storm Drain, etc. Proposed includes Sanitary Sewer Manhole, Clean Out, etc.

LEGEND

Legend table for existing and proposed features. Existing includes Sanitary Sewer Manhole, Clean Out, etc. Proposed includes Sanitary Sewer Manhole, Clean Out, etc.



NOTE: OTHER WORK ASSOCIATED WITH SIDEWALK REPAIRS, CROSSWALKS & LIGHTING IMPROVEMENTS IS PROPOSED WITHIN THE CITY R.O.W. BEYOND THE LIMITS NOTED ON THIS FIGURE, REFER TO SHEET C-107 AND ELECTRICAL SHEETS FOR DETAILS.

LIMIT OF WORK PLAN SCALE: 1"=50'

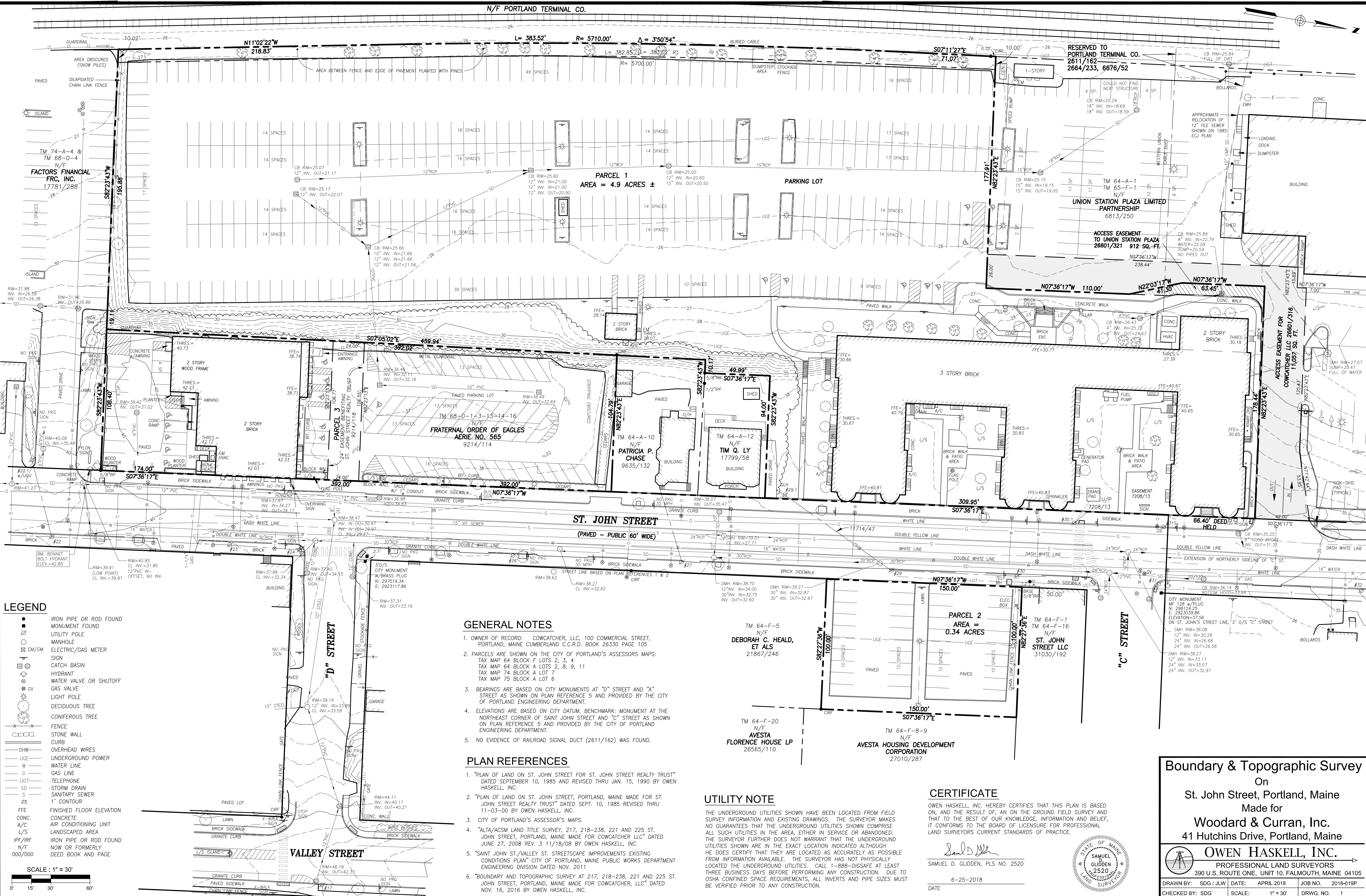
CIVIL DRAWING INDEX

Table with 3 columns: Sheet Number, Sheet Title, Sheet Description. Lists sheets from G-000 to G-206.

Professional seal and title block for David Senius, P.E., License No. 10000, State of Maine. Includes company name: WOODARD & CURRAN.

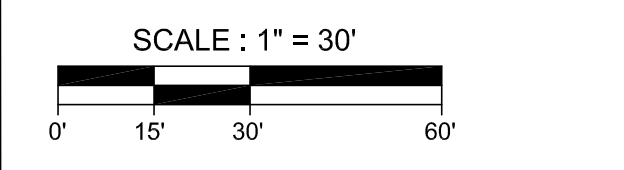
Revision table with columns: No., Description, Date, and Initials. Shows revision history for the drawing.

General Notes, Legend, Sheet Index & Abbreviations. Includes project name: MAINE MEDICAL CENTER 222 BRAMHALL STREET PORTLAND, ME 04102. Drawing title: 222 ST. JOHN STREET EMPLOYEE PARKING GARAGE.



LEGEND

●	IRON PIPE OR ROD FOUND
■	MONUMENT FOUND
○	UTILITY POLE
○	MANHOLE
⊕	ELECTRIC/GAS METER
⊕	SIGN
⊕	CATCH BASIN
⊕	HYDRANT
⊕	WATER VALVE OR SHUTOFF
⊕	GAS VALVE
⊕	LIGHT POLE
⊕	DECIDUOUS TREE
⊕	CONIFEROUS TREE
⊕	FENCE
⊕	STONE WALL
⊕	CURB
—	OVERHEAD WIRES
—	UNDERGROUND POWER
—	WATER LINE
—	GAS LINE
—	TELEPHONE
—	STORM DRAIN
—	SANITARY SEWER
—	1' CONTOUR
—	FINISHED FLOOR ELEVATION
—	CONCRETE
—	A/C AIR CONDITIONING UNIT
—	LANDSCAPED AREA
—	IRON PIPE OR ROD FOUND
—	NOW OR FORMERLY
—	DEED BOOK AND PAGE



GENERAL NOTES

- OWNER OF RECORD: COWCATCHER, LLC, 100 COMMERCIAL STREET, PORTLAND, MAINE CUMBERLAND C.C.R.D. BOOK 26330 PAGE 105
- PARCELS ARE SHOWN ON THE CITY OF PORTLAND'S ASSESSORS MAPS: TAX MAP 64 BLOCK F LOTS 2, 3, 4 TAX MAP 64 BLOCK A LOTS 2, 8, 9, 11 TAX MAP 74 BLOCK A LOT 7 TAX MAP 75 BLOCK A LOT 6
- BEARINGS ARE BASED ON CITY MONUMENTS AT "D" STREET AND "A" STREET AS SHOWN ON PLAN REFERENCE 5 AND PROVIDED BY THE CITY OF PORTLAND ENGINEERING DEPARTMENT.
- ELEVATIONS ARE BASED ON CITY DATUM. BENCHMARK: MONUMENT AT THE NORTHEAST CORNER OF SAINT JOHN STREET AND "C" STREET AS SHOWN ON PLAN REFERENCE 5 AND PROVIDED BY THE CITY OF PORTLAND ENGINEERING DEPARTMENT.
- NO EVIDENCE OF RAILROAD SIGNAL DUCT (2611/162) WAS FOUND.

PLAN REFERENCES

- "PLAN OF LAND ON ST. JOHN STREET FOR ST. JOHN STREET REALTY TRUST" DATED SEPTEMBER 10, 1985 AND REVISED THRU JAN. 15, 1990 BY OWEN HASKELL, INC.
- "PLAN OF LAND ON ST. JOHN STREET, PORTLAND, MAINE MADE FOR ST. JOHN STREET REALTY TRUST" DATED SEPT. 10, 1985 REVISED THRU 11-03-00 BY OWEN HASKELL, INC.
- CITY OF PORTLAND'S ASSESSOR'S MAPS.
- "ALTA/ACSM LAND TITLE SURVEY, 217, 218-238, 221 AND 225 ST. JOHN STREET, PORTLAND, MAINE MADE FOR COWCATCHER LLC" DATED JUNE 27, 2008 REV. 3 11/18/08 BY OWEN HASKELL, INC.
- "SAINT JOHN ST./VALLEY ST. STREETScape IMPROVEMENTS EXISTING CONDITIONS PLAN" CITY OF PORTLAND, MAINE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DATED NOV. 2011
- "BOUNDARY AND TOPOGRAPHIC SURVEY AT 217, 218-238, 221 AND 225 ST. JOHN STREET, PORTLAND, MAINE MADE FOR COWCATCHER, LLC" DATED NOV. 16, 2016 BY OWEN HASKELL, INC.

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION. DUE TO OSHA CONFINED SPACE REQUIREMENTS, ALL INVERTS AND PIPE SIZES MUST BE VERIFIED PRIOR TO ANY CONSTRUCTION.

CERTIFICATE

OWEN HASKELL, INC. HEREBY CERTIFIES THAT THIS PLAN IS BASED ON, AND THE RESULT OF, AN ON THE GROUND FIELD SURVEY AND THAT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, IT CONFORMS TO THE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS CURRENT STANDARDS OF PRACTICE.

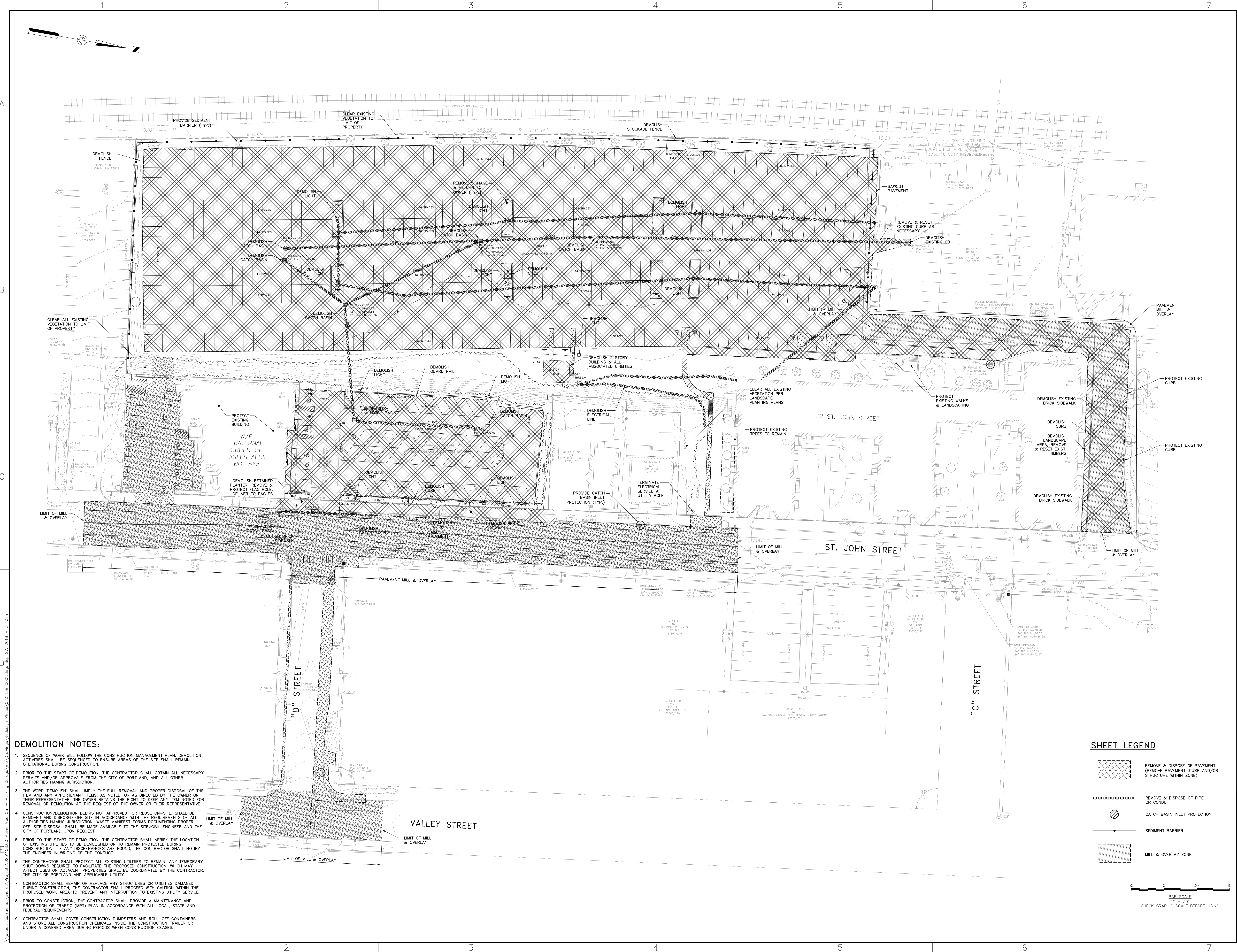
Samuel D. Glidden
 SAMUEL D. GLIDDEN, PLS NO. 2520
 6-25-2018
 DATE



Boundary & Topographic Survey
 On
 St. John Street, Portland, Maine
 Made for
Woodard & Curran, Inc.
 41 Hutchins Drive, Portland, Maine

OWEN HASKELL, INC.
 PROFESSIONAL LAND SURVEYORS
 390 U.S. ROUTE ONE, UNIT 10, FALMOUTH, MAINE 04105

DRAWN BY: SDG/JLW DATE: APRIL 2018 JOB NO. 2018-019P
 CHECKED BY: SDG SCALE: 1" = 30' DRWG. NO. 1

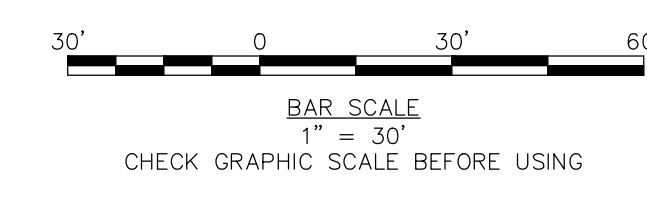


DEMOLITION NOTES:

1. SEQUENCE OF WORK WILL FOLLOW THE CONSTRUCTION MANAGEMENT PLAN. DEMOLITION ACTIVITIES SHALL BE SEQUENCED TO ENSURE AREAS OF THE SITE REMAIN OPERATIONAL DURING CONSTRUCTION.
2. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE CITY OF PORTLAND, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
3. THE WORD "DEMOLISH" SHALL IMPLY THE FULL REMOVAL AND PROPER DISPOSAL OF THE ITEM AND ANY APPURTENANT ITEMS, AS NOTED, OR AS DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE. THE OWNER RETAINS THE RIGHT TO KEEP ANY ITEM NOTED FOR REMOVAL OR DEMOLITION AT THE REQUEST OF THE OWNER OR THEIR REPRESENTATIVE.
4. CONSTRUCTION/DEMOLITION DEBRIS NOT APPROVED FOR REUSE ON-SITE, SHALL BE REMOVED AND DISPOSED OFF-SITE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. WASTE MANIFEST FORMS DOCUMENTING PROPER OFF-SITE DISPOSAL SHALL BE MADE AVAILABLE TO THE SITE/CIVIL ENGINEER AND THE CITY OF PORTLAND UPON REQUEST.
5. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES TO BE DEMOLISHED OR TO REMAIN PROTECTED DURING CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF THE CONFLICT.
6. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. ANY TEMPORARY SHUT DOWNS REQUIRED TO FACILITATE THE PROPOSED CONSTRUCTION, WHICH MAY AFFECT USES ON ADJACENT PROPERTIES SHALL BE COORDINATED BY THE CONTRACTOR, THE CITY OF PORTLAND AND APPLICABLE UTILITY.
7. CONTRACTOR SHALL REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CAUTION WITHIN THE PROPOSED WORK AREA TO PREVENT ANY INTERRUPTION TO EXISTING UTILITY SERVICE.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) PLAN IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
9. CONTRACTOR SHALL COVER CONSTRUCTION DUMPSTERS AND ROLL-OFF CONTAINERS, AND STORE ALL CONSTRUCTION CHEMICALS INSIDE THE CONSTRUCTION TRAILER OR UNDER A COVERED AREA DURING PERIODS WHEN CONSTRUCTION CEASES.

SHEET LEGEND

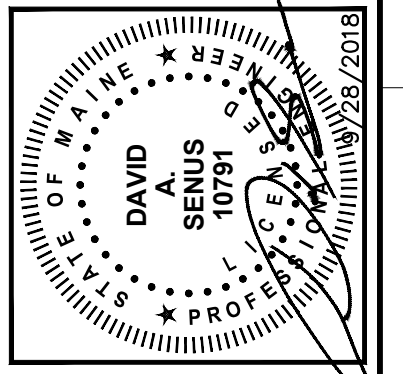
- REMOVE & DISPOSE OF PAVEMENT (REMOVE PAVEMENT, CURB AND/OR STRUCTURE WITHIN ZONE)
- REMOVE & DISPOSE OF PIPE OR CONDUIT
- CATCH BASIN INLET PROTECTION
- SEDIMENT BARRIER
- MILL & OVERLAY ZONE



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WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS



NO.	REVISION	DATE	DESCRIPTION
1	PERMIT SET	8/28/2018	
2	DESIGNED BY: DAS		
3	DRAWN BY: BEW		

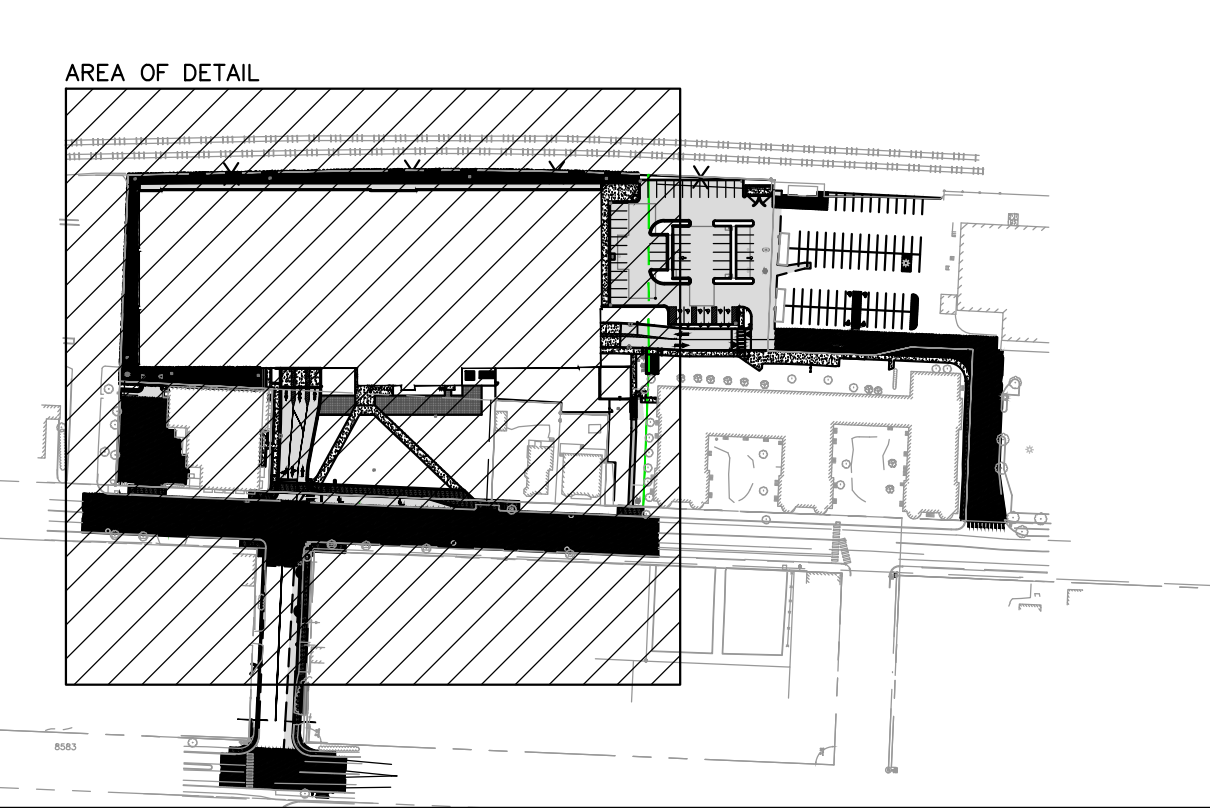
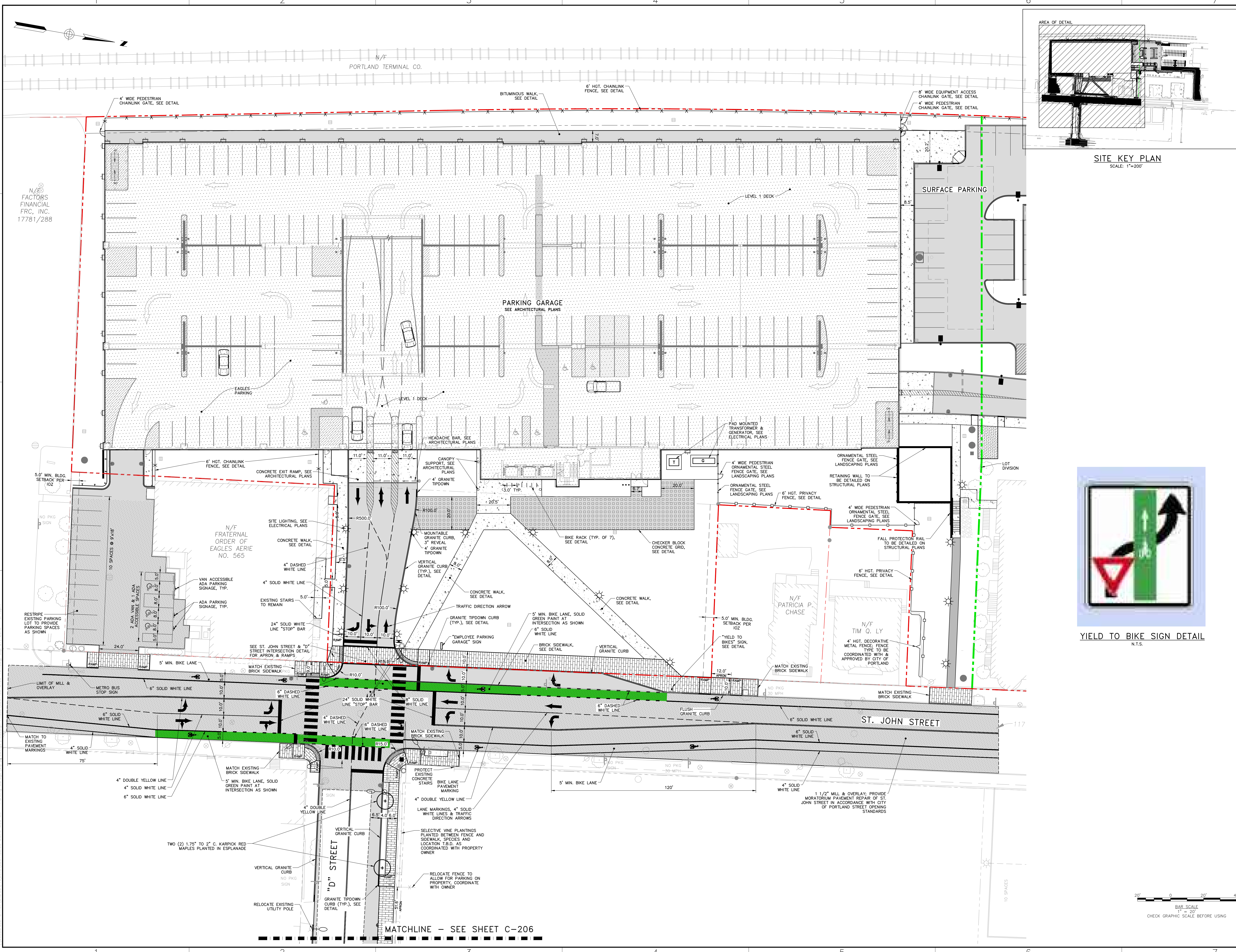
EXISTING CONDITIONS & DEMOLITION PLAN

MAINE MEDICAL CENTER
BRANHALL STREET
PORTLAND, ME 04102

MVC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=30'
SHEET: 3 OF 18

C-001



SITE KEY PLAN
SCALE: 1"=200'



YIELD TO BIKE SIGN DETAIL
N.T.S.

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COMMITMENT & INTEGRITY DRIVE RESULTS

PROFESSIONAL SEAL OF DAVID A. SENEZ, P.E., PROFESSIONAL ENGINEER, LICENSE NO. 10001, EXPIRES 12/31/2018

NO.	PERMIT SET	DATE	DESCRIPTION	BY	DATE
1	1	8/28/2018	DESIGN	DAVID A. SENEZ	
2	2		REVISION		
3	3		REVISION		
4	4		REVISION		
5	5		REVISION		
6	6		REVISION		
7	7		REVISION		
8	8		REVISION		
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12	12		REVISION		
13	13		REVISION		
14	14		REVISION		
15	15		REVISION		
16	16		REVISION		
17	17		REVISION		
18	18		REVISION		
19	19		REVISION		
20	20		REVISION		

DESIGNED BY: DAS
DRAWN BY: BDA
CHECKED BY: DAS

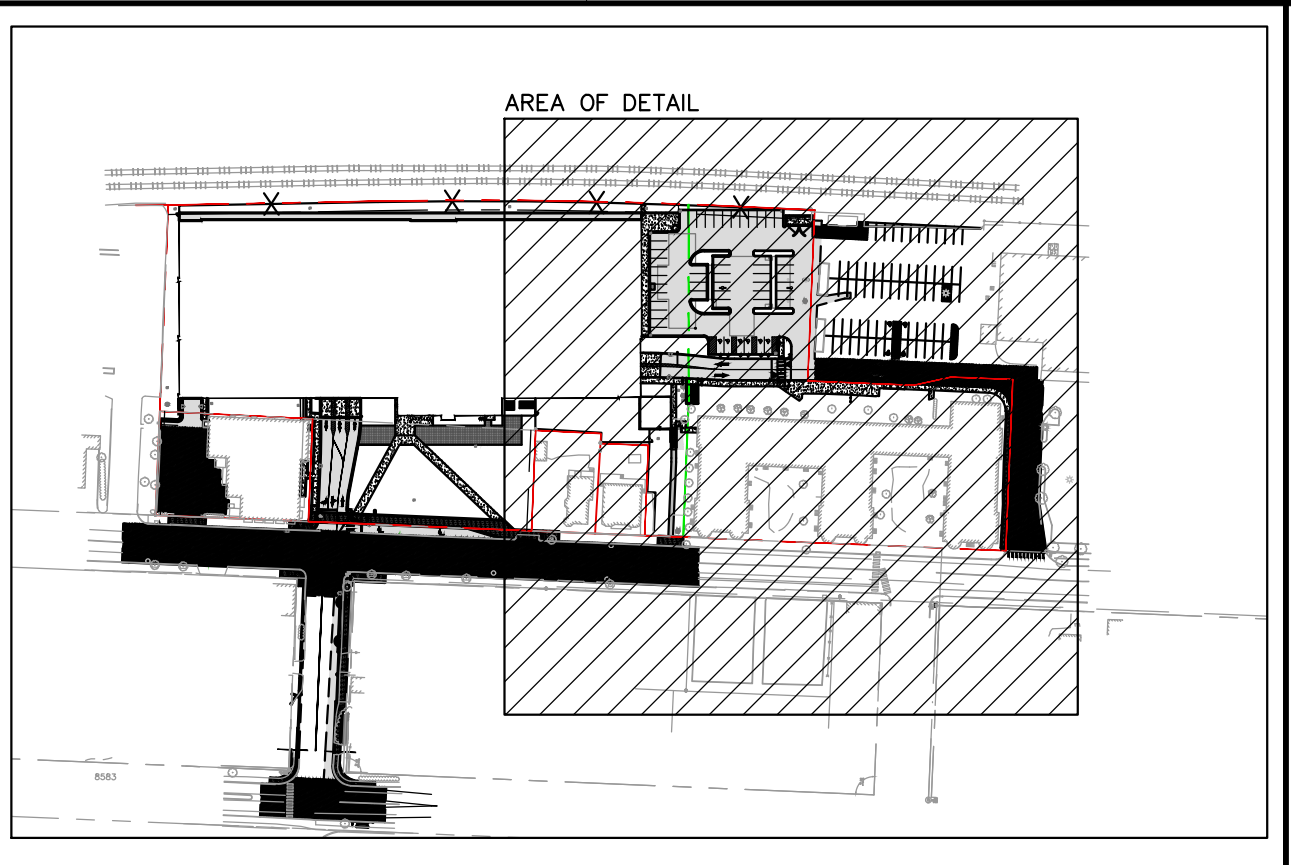
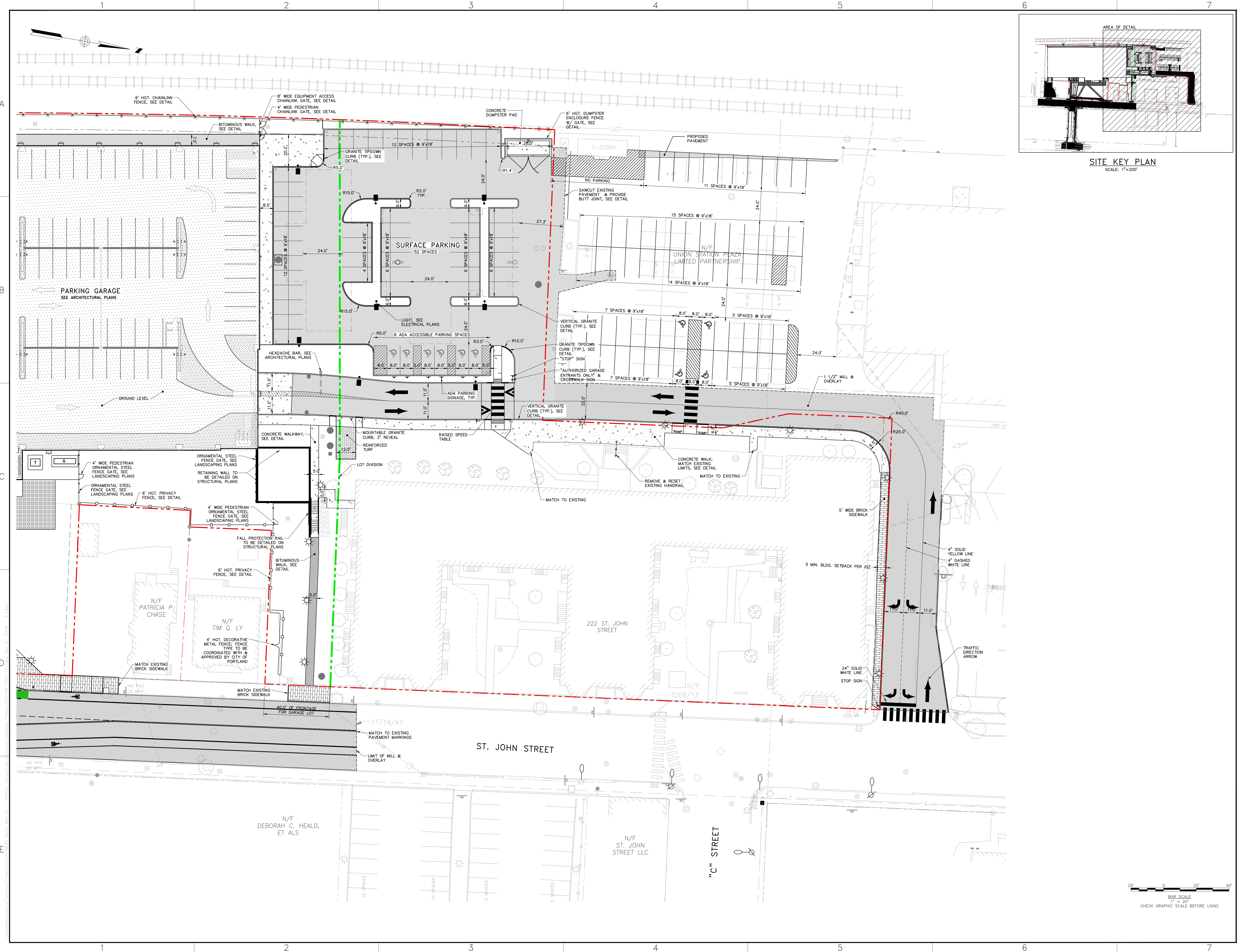
SITE LAYOUT & MATERIALS PLAN - 1

MAINE MEDICAL CENTER
BRANCHHALL STREET
PORTLAND, ME 04102

**MVC ST. JOHN STREET
EMPLOYEE PARKING GARAGE**

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 4 OF 18

C-100

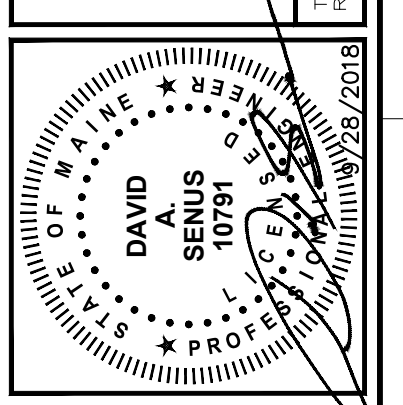


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WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS

PROFESSIONAL SEAL OF DAVID A. SENUS, P.E., PROFESSIONAL ENGINEER, LICENSE NO. 10001, STATE OF MAINE, EXPIRES 12/31/2018



NO.	PERMIT SET	DATE	DESCRIPTION	BY	CHKD BY
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2	REVISED BY: DAS				

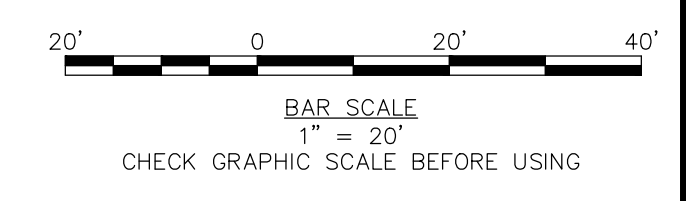
NO.	PERMIT SET	DATE	DESCRIPTION	BY	CHKD BY
1	PERMIT SET	8/28/2018			
2	REVISED BY: DAS				

MAINE MEDICAL CENTER
BRANFALL STREET
PORTLAND, ME 04102

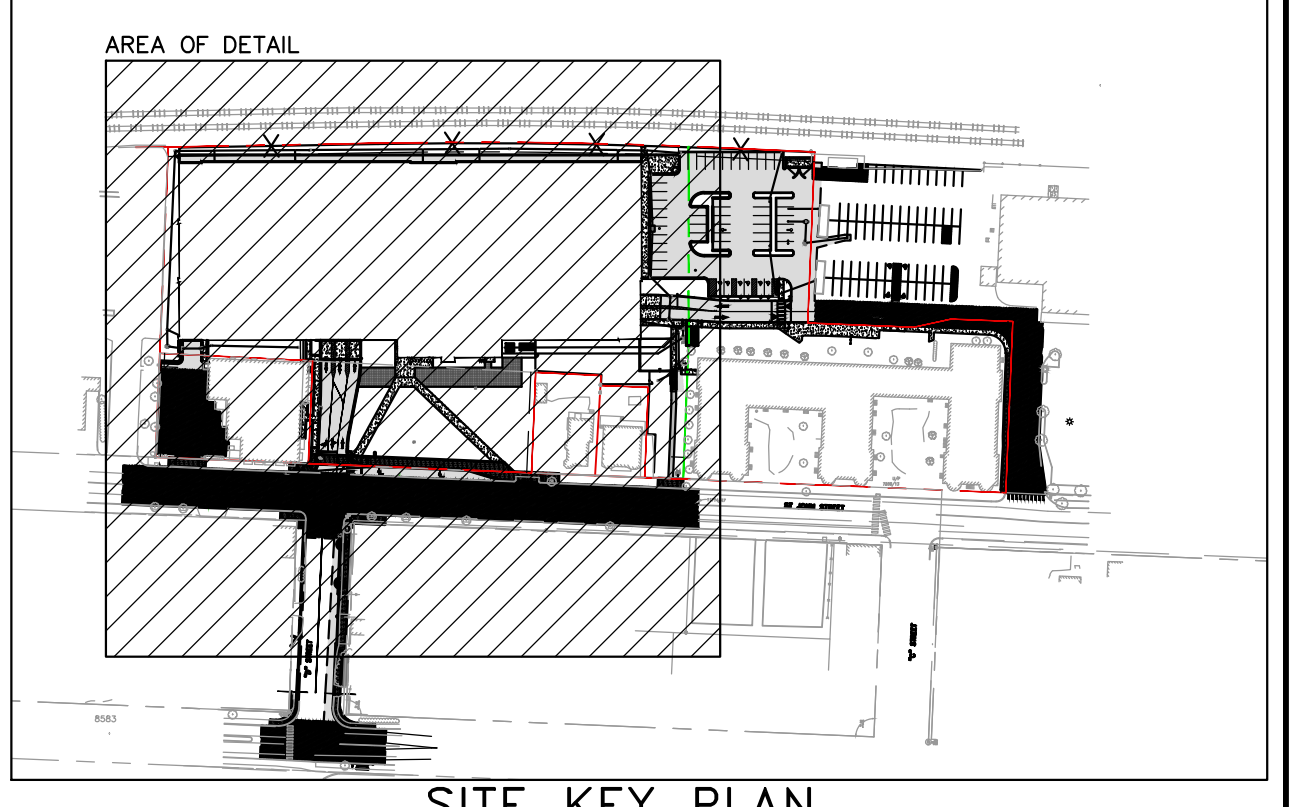
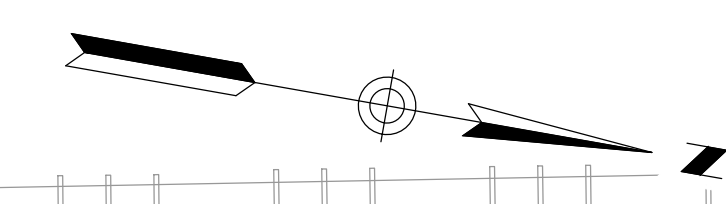
**MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE**

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 5 OF 18

C-101



PORTLAND TERMINAL CO.



SITE KEY PLAN

SCALE: 1"=200'

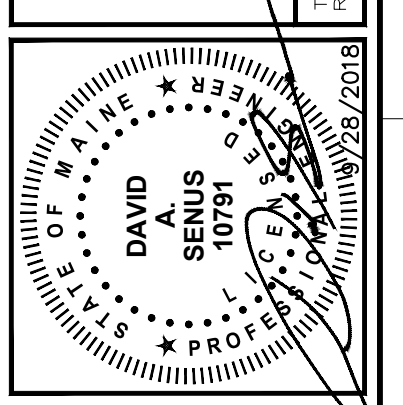
STRUCTURE TABLE						
NAME	DIA.	RIM	SUMP DEPTH	INV. IN./SIZE/FROM	INV. OUT./SIZE/TO	DMH
CB1	4'	37.22	2'	33.42/10"SD/CB2	33.22/12"SD/EXIST.	
CB2	4'	37.20	2'	33.81/10"SD/CB3	33.71/10"SD/CB1	
CB3	4'	39.77	2'	34.15/6"SD/GAR.	34.05/10"SD/CB2	
CB4	4'	27.90	2'	23.00/12"SD/GAR.	22.99/15"SD/CB5	
CB5	4'	27.60	2'	22.18/15"SD/CB4	21.88/15"SD/WYE 5	
CB6	4'	25.80	2'	21.32/18"SD/WYE 2	21.22/18"SD/WYE 1	
CB7	4'	26.00	2'	21.05/18"SD/WYE 1	20.95/18"SD/CB8	
CB8	4'	25.47	2'	20.92/18"SD/CB7	20.82/18"SD/DMH1	
CB9	4'	25.39	2'	21.27/15"SD/CB10	21.17/15"SD/DMH1	
CB10	4'	25.47	2'	21.43/15"SD/CB11	21.33/15"SD/CB9	
CB11	4'	25.48	2'	21.58/10"SD/CB12	21.48/15"SD/CB10	
CB12	4'	29.02	2'	21.73/10"SD/CB13	21.63/10"SD/CB11	
CB13	4'	29.80	2'	24.93/10"SD/CB14	24.83/10"SD/CB12	
CB14	4'	36.50	2'	25.00/10"SD/CB13		
CB22	4'	25.49	2'	21.89/10"SD/CB7		
CB23	4'	26.00	2'	21.67/15"SD/WYE 4	21.57/18"SD/WYE 3	
CB24	4'	38.80	2'	33.20/10"SD/CB25	33.10/10"SD/DMH3	
CB25	4'	38.80	2'	33.35/10"SD/CB26	33.25/10"SD/CB24	
CB26	4'	37.75	2'	33.48/10"SD/CB27	33.38/10"SD/CB25	
CB27	4'	37.75	2'	33.75/10"SD/CB26		
CB28	4'	36.90	2'	34.63/12"SD/CB29		
CB29	4'	37.90	2'	34.27/12"SD/CB28	34.17/12"SD/EXDMH	
DMH1	4'x6'	26.43	2'	21.05/15"SD/CB9	20.75/18"SD/CB8	20.65/18"SD/RTANK 1
DMH3	4'	35.36	2'	30.10/10"SD/CB24	30.00/10"SD/CB4	

PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 1	12" SD	101'	0.0051
PIPE 2	10" SD	99'	0.0028
PIPE 3	10" SD	81'	0.0028
PIPE 4	15" SD	182'	0.0043
PIPE 5	15" SD	39'	0.0015
PIPE 6	18" SD	111'	0.0012
PIPE 7	18" SD	22'	0.0012
PIPE 8	15" SD	45'	0.0022
PIPE 9	15" SD	25'	0.0022
PIPE 10	15" SD	19'	0.0022
PIPE 11	10" SD	13'	0.0028
PIPE 12	10" SD	35'	0.0785
PIPE 13	10" SD	20'	0.0030
PIPE 14	18" SD	51'	0.0012
PIPE 15	10" SD	32'	0.0077
PIPE 16	12" SD	12'	0.1087
PIPE 17	18" SD	5'	0.0000
PIPE 18	15" SD	84'	0.0015
PIPE 19	15" SD	14'	0.0015
PIPE 20	18" SD	11'	0.0022
PIPE 21	18" SD	5'	0.0000
PIPE 22	4" SD	187'	0.0040

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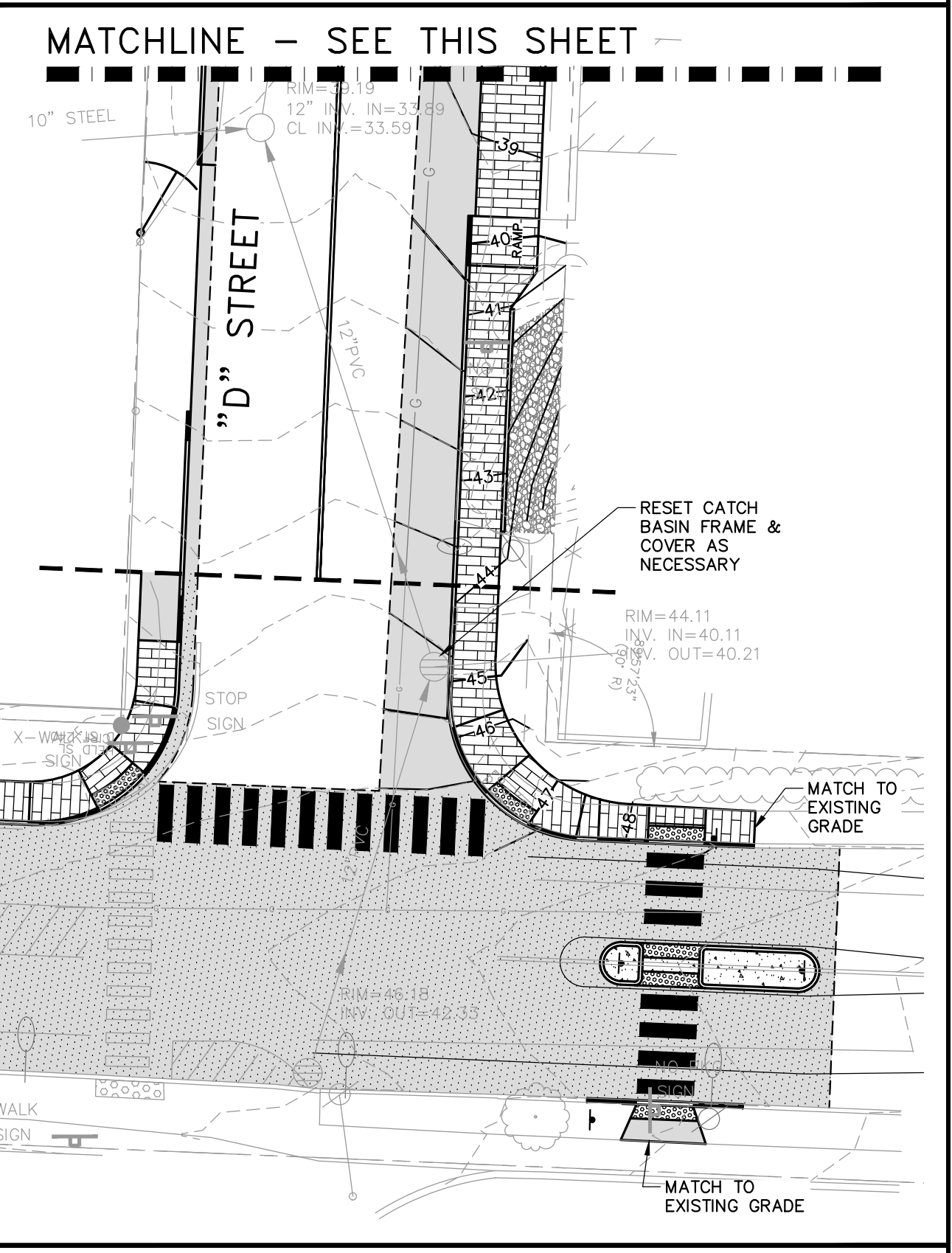
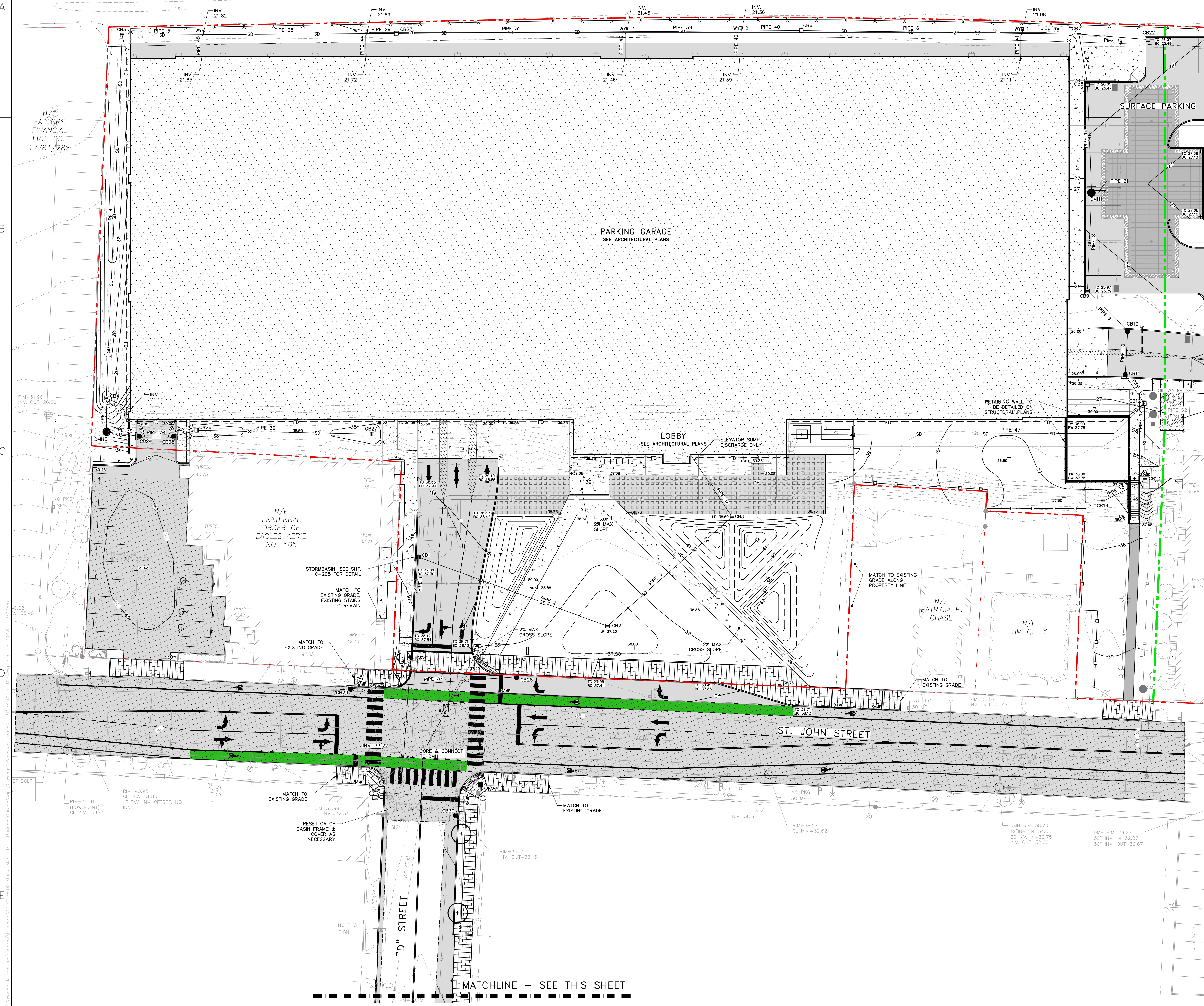
NO.	PERMIT SET	DATE	DESCRIPTION	BY	CHKD BY	APP'D BY
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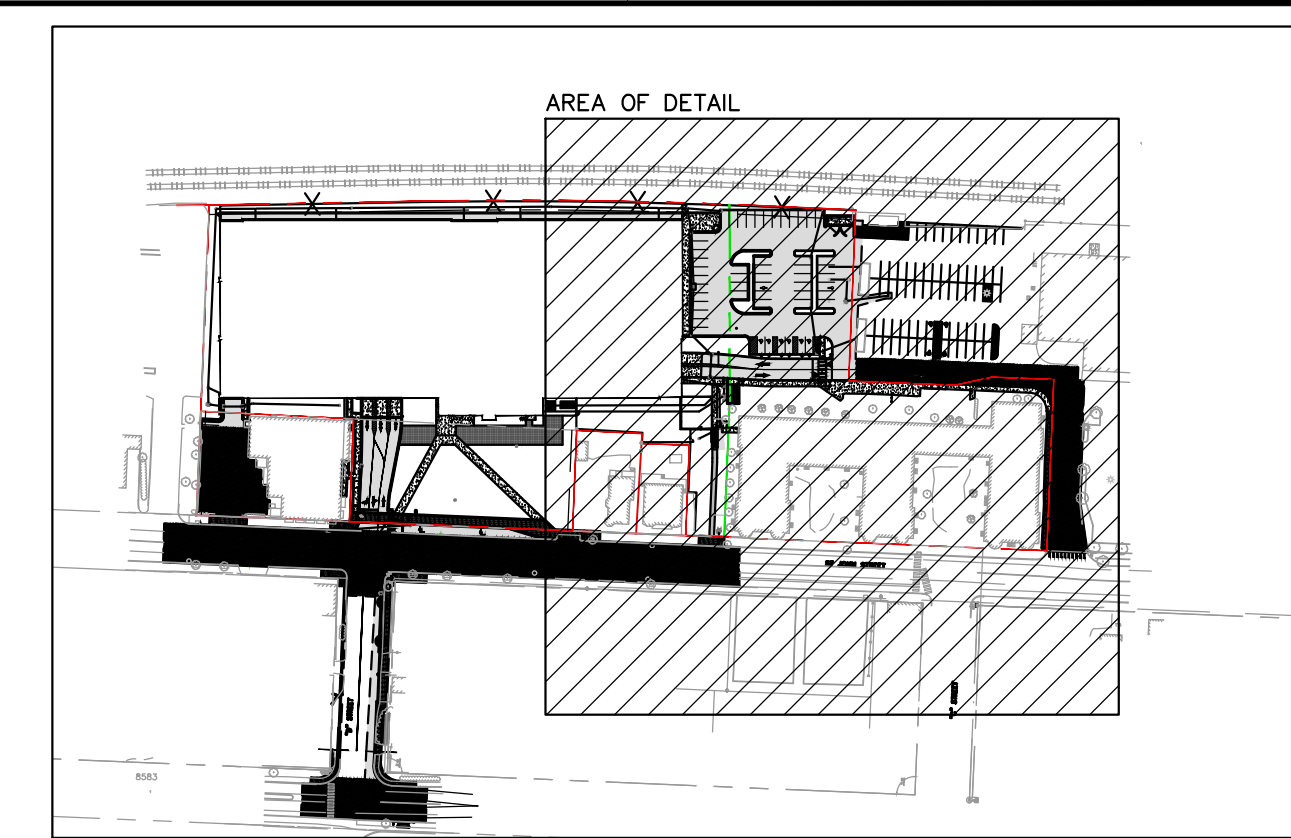
**MVC ST. JOHN STREET
EMPLOYEE PARKING GARAGE**

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 6 OF 18

C-102

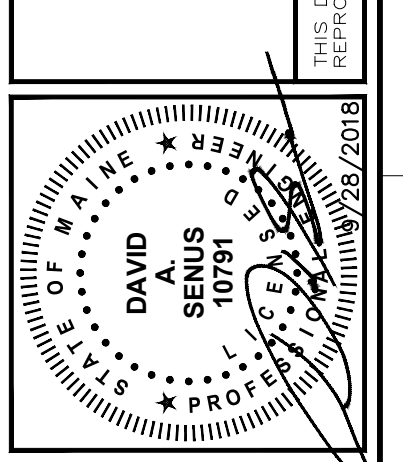


BAR SCALE
1" = 20'
CHECK GRAPHIC SCALE BEFORE USING



SITE KEY PLAN
SCALE: 1"=200'

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Portland, Maine 04102
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NO.	DATE	DESCRIPTION	BY	CHKD
1	07/28/2018	PERMIT SET	DAW	DS
2	08/01/2018	REVISED BY: DAW	DAW	DS

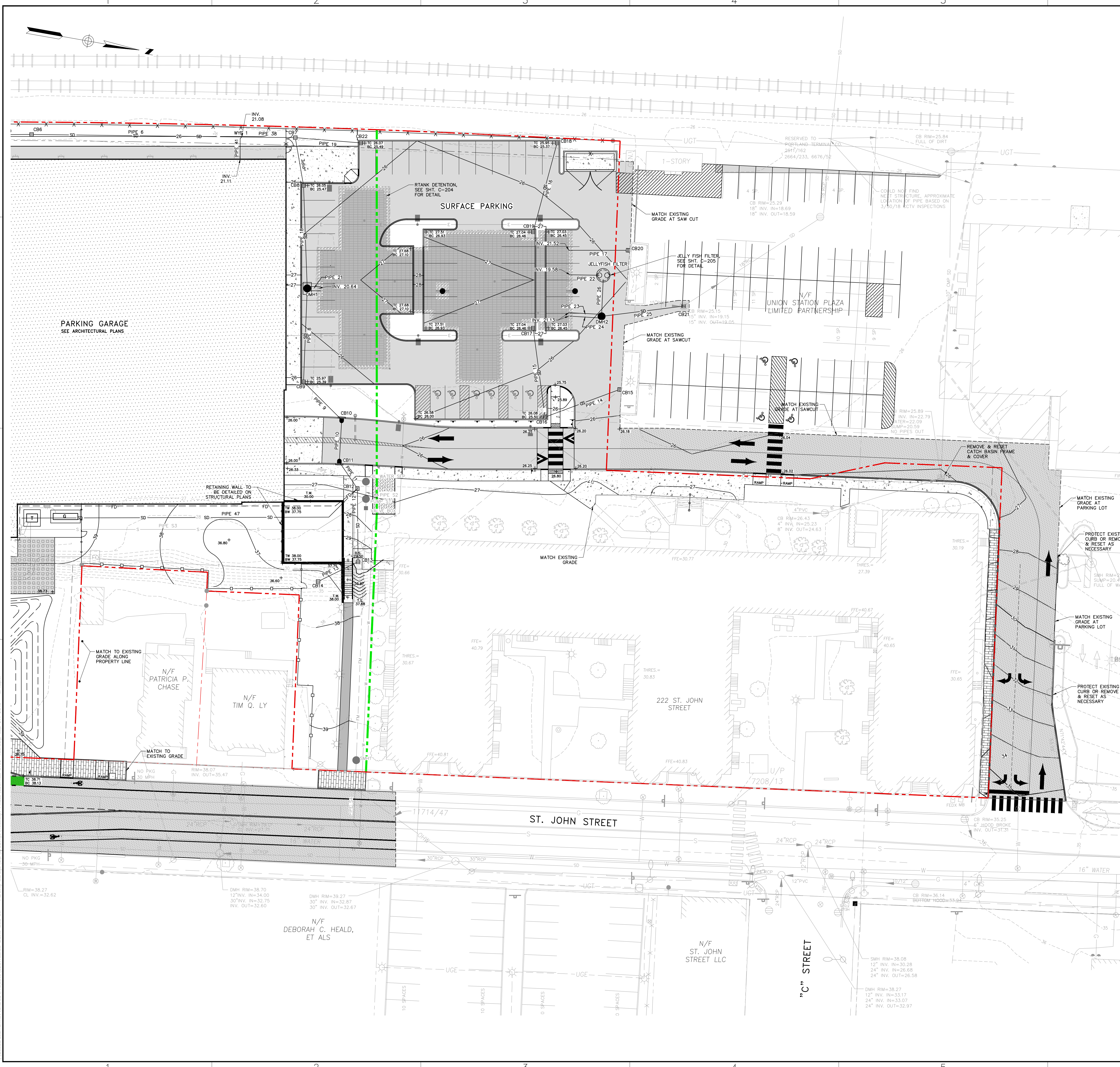
GRADING & DRAINAGE PLAN - 2

MAINE MEDICAL CENTER
220 BRANFALL STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

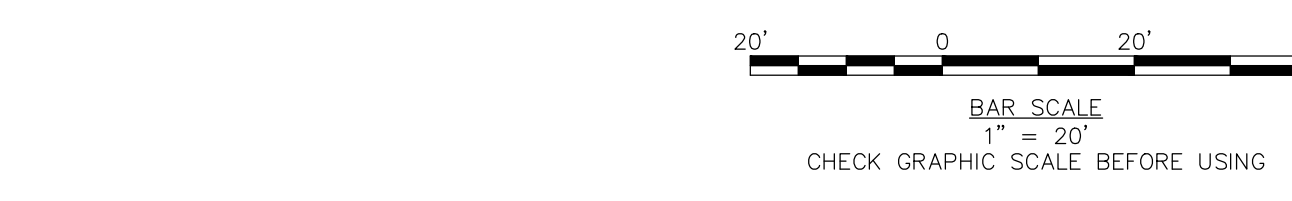
JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 7 OF 18

C-103

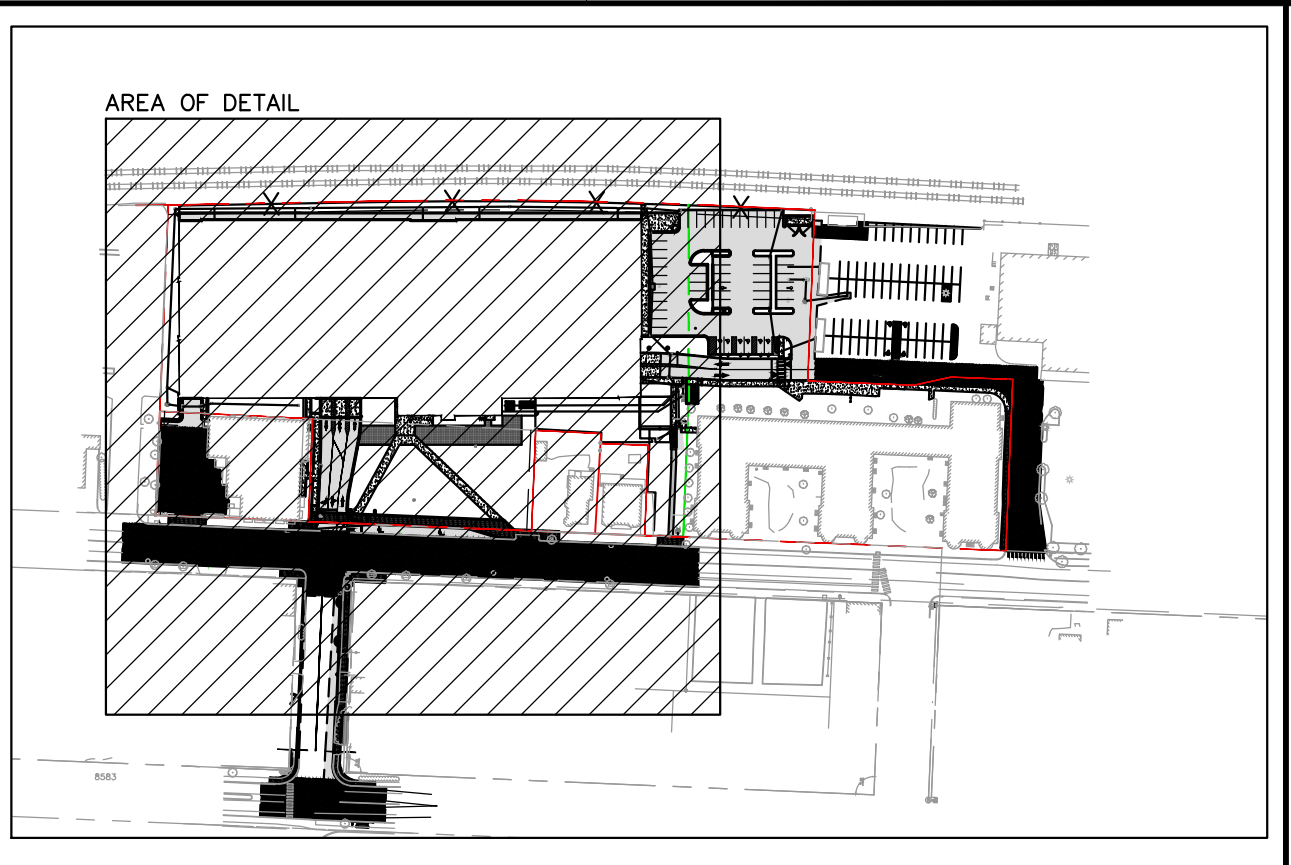
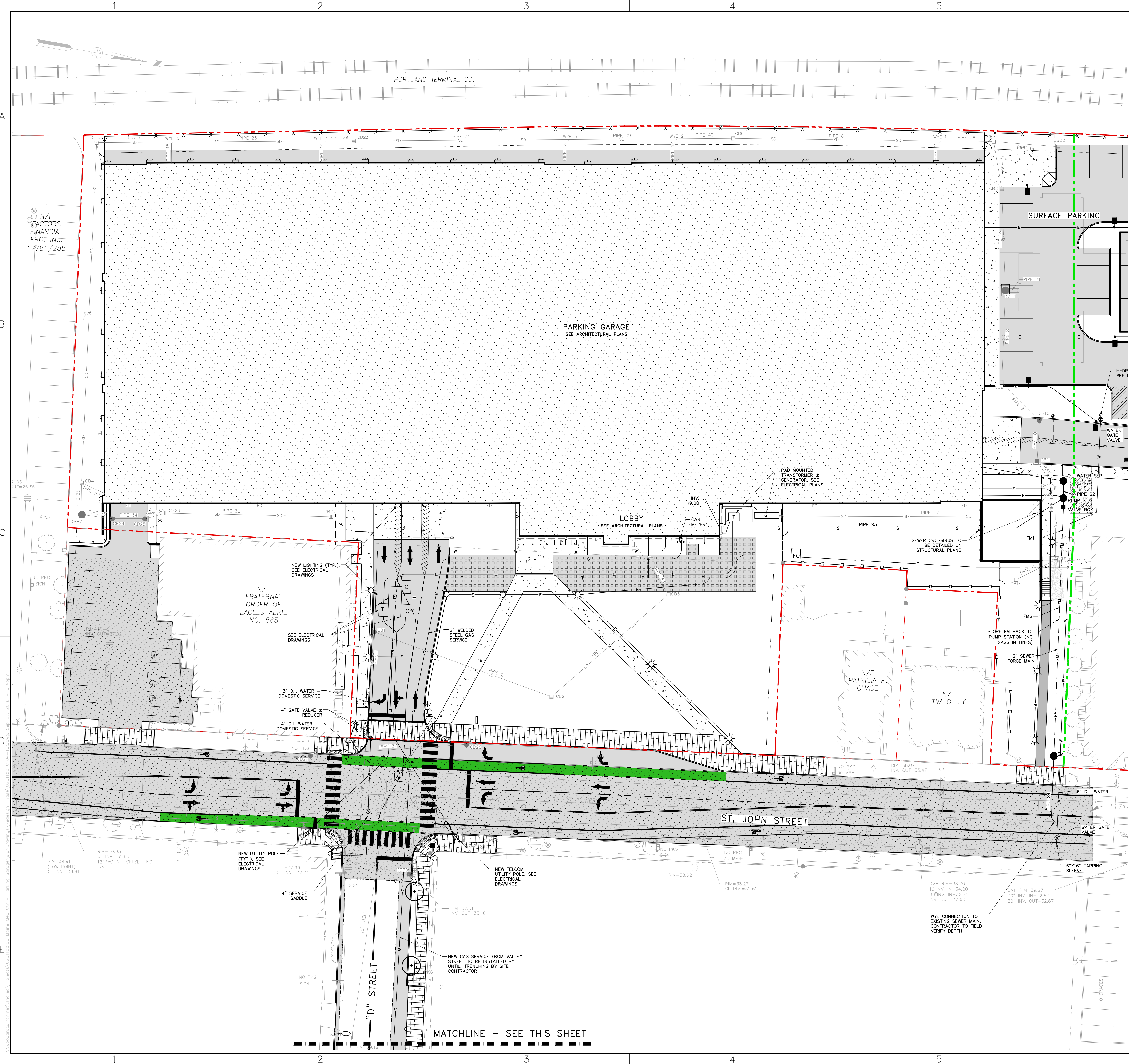


STRUCTURE TABLE						
NAME	DIA.	RIM	SUMP DEPTH	INV IN/SIZE/FROM	INV OUT/SIZE/TO	
CB6	4'	25.80	2'	21.32/18"SD/WYE 2	21.22/18"SD/WYE 1	
CB7	4'	26.00	2'	21.05/18"SD/WYE 1 21.62/10"SD/CE22	20.95/18"SD/CE8	
CB8	4'	25.47	2'	20.92/18"SD/CE7	20.82/18"SD/DMH1	
CB9	4'	25.39	2'	21.27/15"SD/CE10	21.17/15"SD/DMH1	
CB10	4'	25.47	2'	21.43/15"SD/CE11	21.33/15"SD/CE9	
CB11	4'	25.48	2'	21.58/10"SD/CE12	21.48/15"SD/CE10	
CB12	4'	29.02	2'	21.73/10"SD/CE13 22.00/6"FD/GAR. 24.00/4"SD/GAR.	21.63/10"SD/CE11	
CB13	4'	29.80	2'	24.93/10"SD/CE14	24.83/10"SD/CE12	
CB14	4'	36.50	2'		25.00/10"SD/CE13	
CB15	4'	25.74	2'		21.97/10"SD/CE16	
* CB16	4'	25.50	2'	21.85/10"SD/CE15	21.75/10"SD/CE17	
CB17	4'	26.46	2'	21.51/10"SD/CE16	21.41/ * /RTANK 3	
* CB18	4'	25.37	2'		21.65/10"SD/CE19	
CB19	4'	26.46	2'	21.50/10"SD/CE18	21.40/ * /RTANK 2	
CB20	4'	25.74	2'		21.74/10"SD/	
CB21	4'	25.15	2'	19.15/18"SD/DMH2	19.05/18"RCP/	
CB22	4'	25.49	2'		21.89/10"SD/CE7	
DMH1	4'x6'	28.43	2'	21.05/15"SD/CE9 20.75/18"SD/CE8	20.65/18"SD/RTANK 1	
DMH2	8'	25.92	2'	19.30/15"SD/JELLYFISH FILTER 19.20/15"SD/RTANK 6 19.20/15"SD/RTANK 5	19.20/18"SD/CE21	
JELLYFISH FILTER	4'	26.24	2'	19.58/15"SD/RTANK 4	19.34/15"SD/DMH2	

PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 6	18" SD	111'	0.0012
PIPE 7	18" SD	22'	0.0012
PIPE 8	15" SD	45'	0.0022
PIPE 9	15" SD	25'	0.0022
PIPE 10	15" SD	19'	0.0022
PIPE 11	10" SD	13'	0.0028
PIPE 12	10" SD	35'	0.0785
PIPE 13	10" SD	20'	0.0030
PIPE 14	10" SD	39'	0.0028
PIPE 15	10" SD	44'	0.0050
PIPE 16	10" SD	46'	0.0030
PIPE 17	10" SD	30'	0.0069
PIPE 18	18" SD	51'	0.0012
PIPE 19	10" SD	32'	0.0077
PIPE 21	18" SD	5'	0.0000
PIPE 22	15" SD	17'	0.0000
PIPE 23	15" SD	14'	0.1082
PIPE 24	15" SD	14'	0.1086
PIPE 25	18" SD	39'	0.0012
PIPE 26	15" SD	16'	0.0015
PIPE 31	18" SD	115'	0.0012
PIPE 38	18" SD	28'	0.0012
PIPE 41	12" SD	12'	0.0022



CHECK GRAPHIC SCALE BEFORE USING



STRUCTURE TABLE

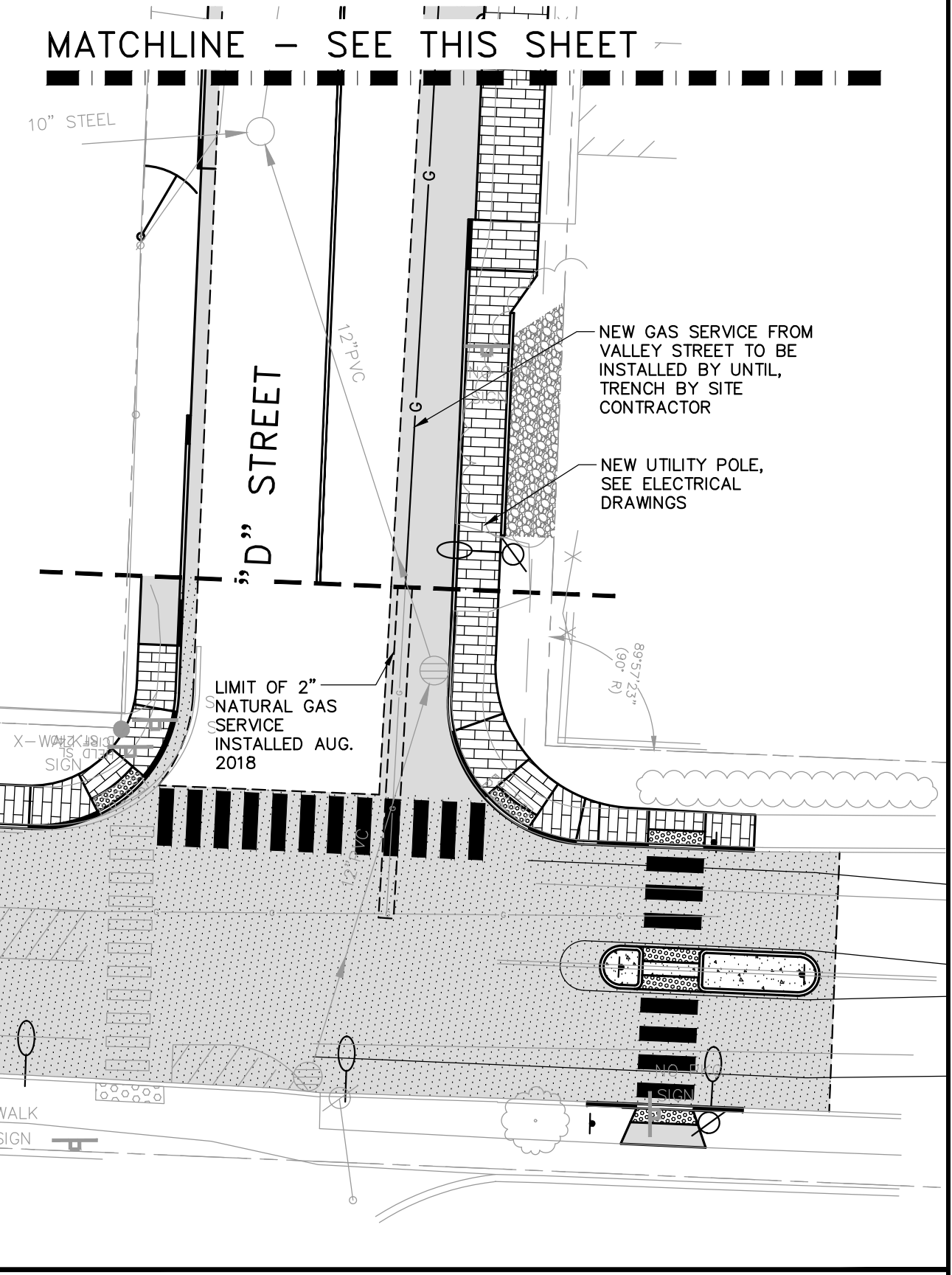
NAME	DIA.	RIM	SUMP DEPTH	INV IN/SIZE/FROM	INV OUT/SIZE/TO
OIL WATER SEP.	4'	26.70	0'	13.44/6\"S/GAR.	13.10/6\"S/PUMP ST.
PUMP ST.	4'	27.20	5'	13.05/6\"S/OIL WATER SEP.	23.00/2\"FM/VALVE BOX
SMH1	4'	38.99	0'	35.00/2\"FM/VALVE BOX	34.90/8\"S/MAIN
VALVE BOX	2'X2'	27.50	0'	23.00/2\"FM/PUMP ST.	23.00/2\"FM/SMH1

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE
FM1	2\" FM	2'	N/A*
FM2	2\" FM	133'	N/A*
PIPE S1	6\" S	42'	0.0050
PIPE S2	6\" S	5'	0.0050
PIPE S3	6\" S	190'	0.0059
PIPE S4	8\" S	32'	0.1157

*SLOPE BACK TO PUMP STATION

NOTE: PROVIDE RESTRAINED GASKETS ON EACH SLIP JOINT ON WATER LINES.



41 Hutchins Drive
Portland, Maine 04102
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WOODWARD & CLURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS

DAVID SENUS
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
LICENSE NO. 10001
EXPIRES 12/31/2018

NO.	DATE	DESCRIPTION	BY	CHKD.
1	8/28/2018	PERMIT SET	BOB	
2				
3				
4				
5				
6				
7				
8				
9				
10				

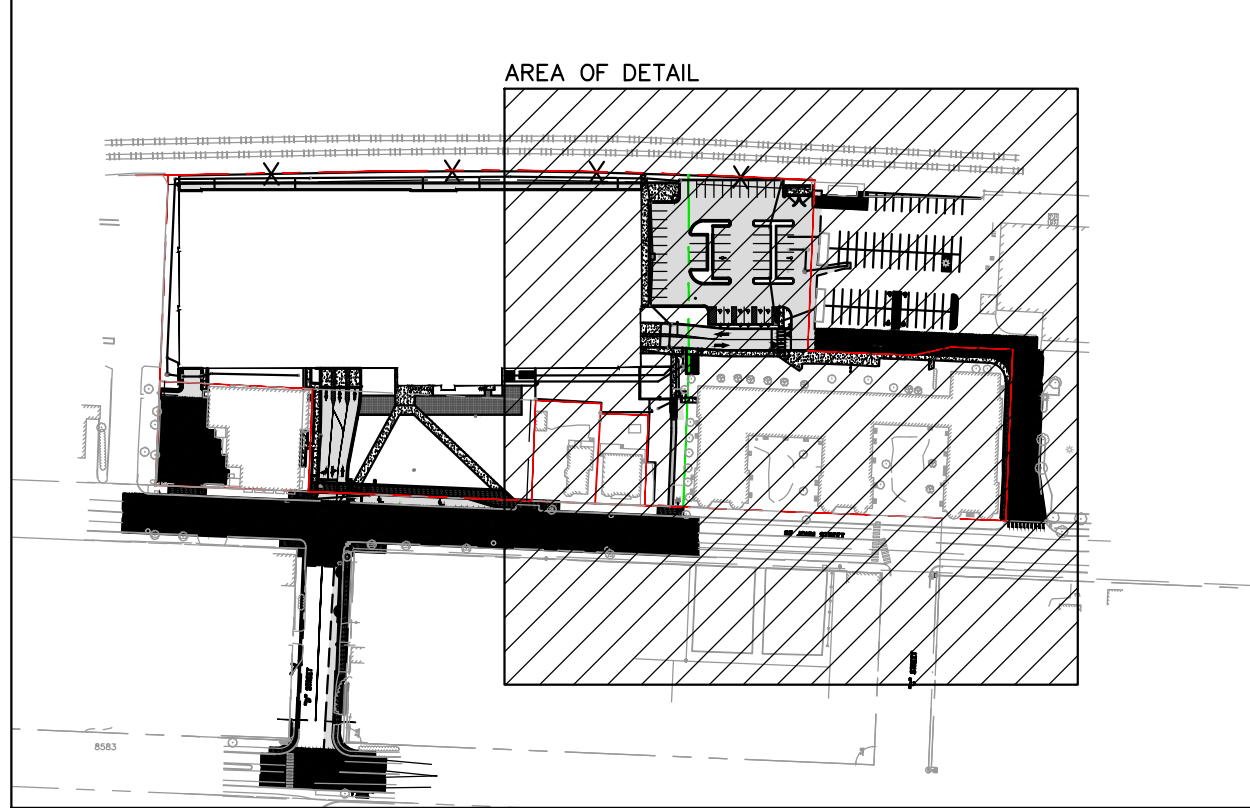
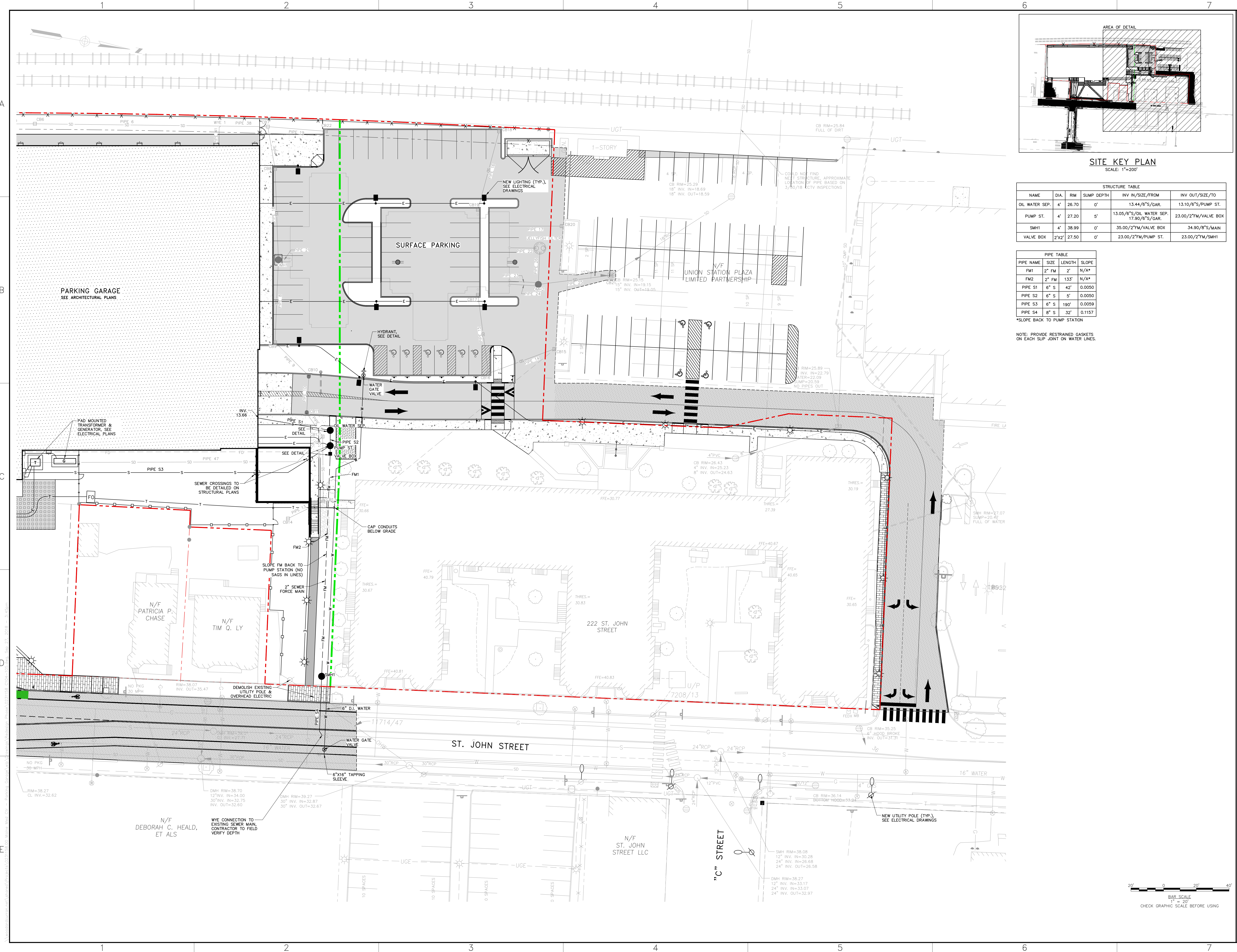
DESIGNED BY: DAS
DRAWN BY: BOB
CHECKED BY: DAS

MAINE MEDICAL CENTER
BRANCHHALL STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 8 OF 18

C-104



STRUCTURE TABLE

NAME	DIA.	RIM	SUMP DEPTH	INV IN/SIZE/FROM	INV OUT/SIZE/TO
OIL WATER SEP.	4'	26.70	0'	13.44/8"/GAR.	13.10/6"/PUMP ST.
PUMP ST.	4'	27.20	5'	13.05/6"/OIL WATER SEP.	23.00/2"/VALVE BOX
SMH1	4'	38.99	0'	35.00/2"/VALVE BOX	34.90/8"/MAIN
VALVE BOX	2'X2'	27.50	0'	23.00/2"/PUMP ST.	23.00/2"/SMH1

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE
FM1	2" FM	2'	N/A*
FM2	2" FM	133'	N/A*
PIPE S1	6" S	42'	0.0050
PIPE S2	6" S	5'	0.0050
PIPE S3	6" S	190'	0.0059
PIPE S4	8" S	32'	0.1157

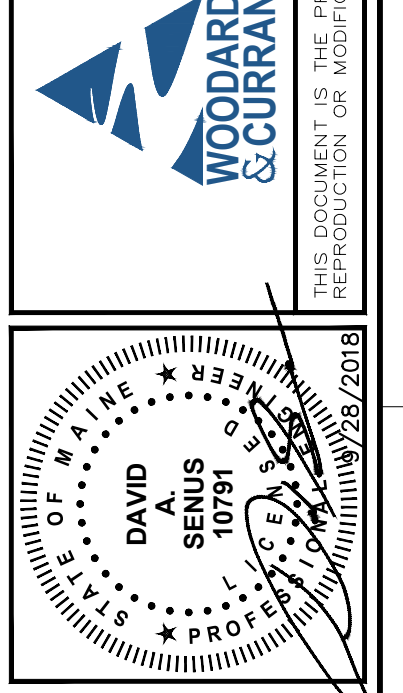
*SLOPE BACK TO PUMP STATION

NOTE: PROVIDE RESTRAINED GASKETS ON EACH SLP JOINT ON WATER LINES.

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COMMITMENT & INTEGRITY DRIVE RESULTS



NO.	DESCRIPTION	DATE	BY	CHKD BY
1	DESIGNED BY: DAS	02/28/2018		
2	PERMIT SET			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			

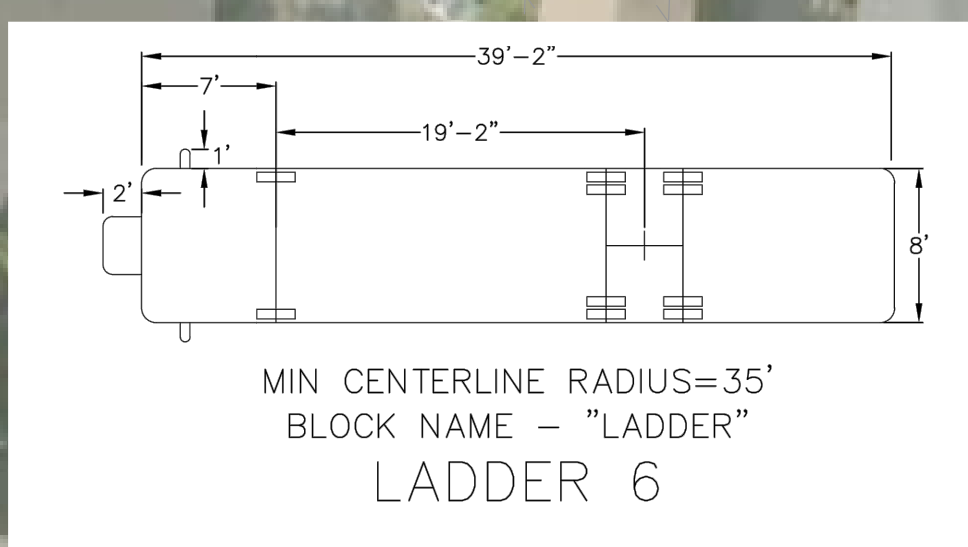
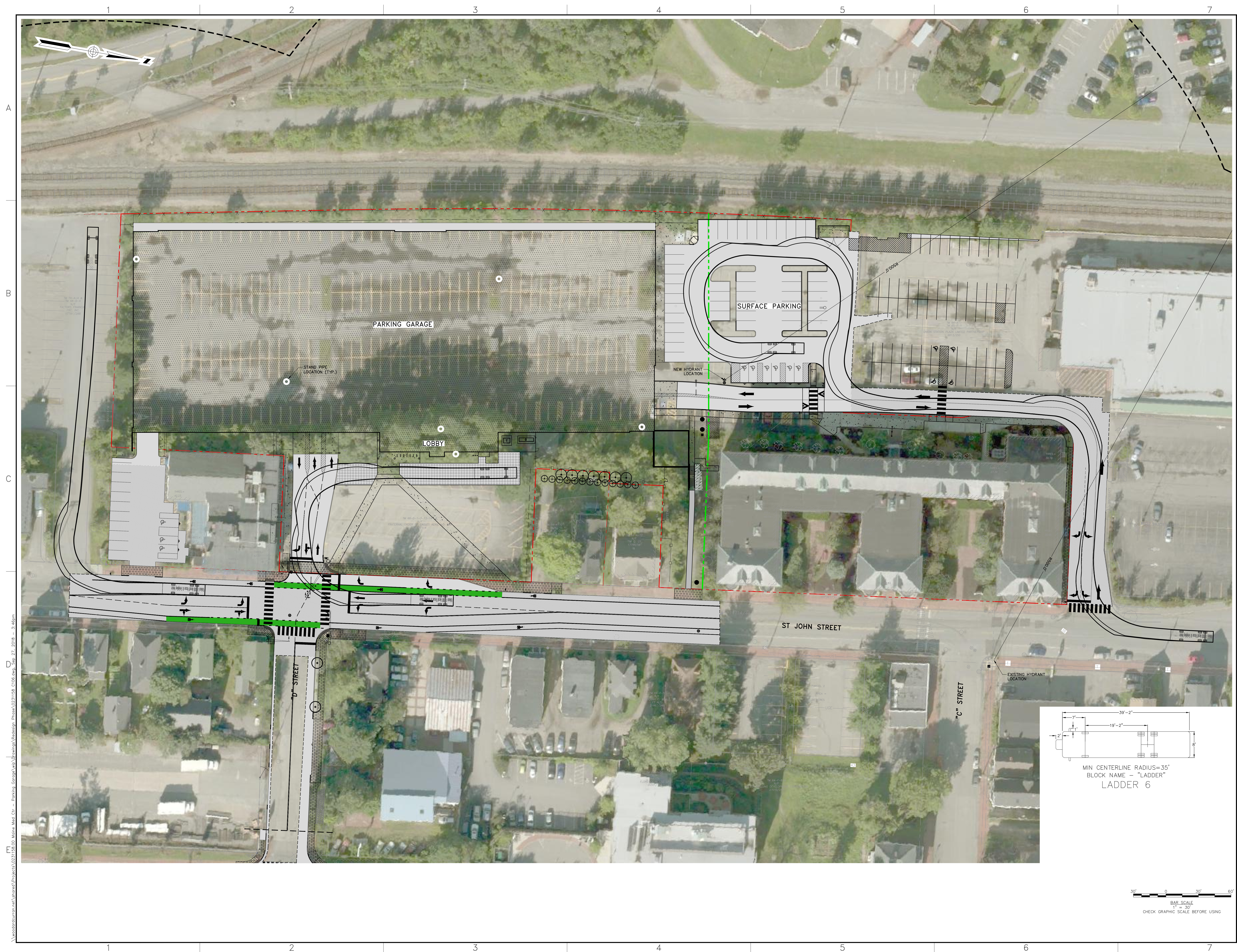
UTILITY PLAN - 2

MAINE MEDICAL CENTER
BRANFALL STREET
PORTLAND, ME 04102

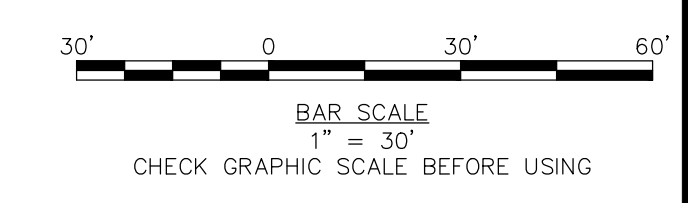
MHC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=20'
SHEET: 9 OF 18

C-105

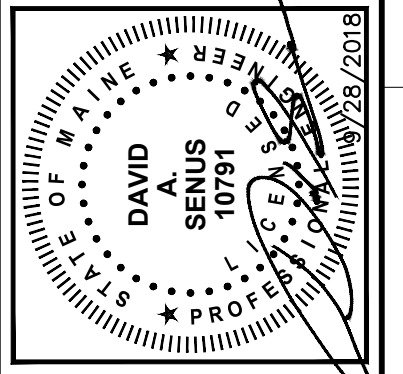


MIN CENTERLINE RADIUS=35'
 BLOCK NAME - "LADDER"
 LADDER 6



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NO.	PERMIT SET	DESCRIPTION	DATE	BY	CHECKED BY	DATE
1	00198	00198	09/28/2018	SENUS	SENUS	09/28/2018

FIRE TRUCK MOVEMENT PLAN

MAINE MEDICAL CENTER
 22 BRANHALL STREET
 PORTLAND, ME 04102

MWC ST. JOHN STREET
 EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
 DATE: SEPTEMBER 28, 2018
 SCALE: 1" = 30'
 SHEET: 10 OF 18

C-106

W:\woodardcurran.com\Users\David.Senus\Projects\0231158-00\Maine_Med_Ctr - Parking_Garage\Map_Drawings\Woodard_Phase\0231158-00.dwg, Sep 27, 2018, 3:46pm



A
B
C
D
E

1 2 3 4 5 6 7

1 2 3 4 5 6 7

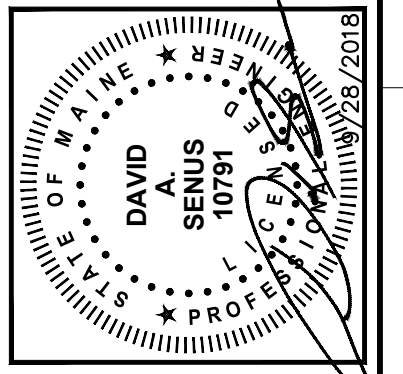
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NO.	DESCRIPTION	DATE	BY
1	PERMIT SET	8/28/2018	
2	REVISED BY: DAS		
3	DESIGNED BY: DAS		
4	DRAWN BY: BOA		

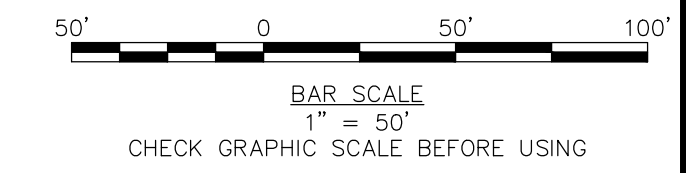
SIDEWALK IMPROVEMENT PLAN

MAINE MEDICAL CENTER
BRANCHALL STREET
PORTLAND, ME 04102

MHC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158.00
DATE: SEPTEMBER 28, 2018
SCALE: 1"=50'
SHEET: 11 OF 18

C-107



EROSION AND SEDIMENT CONTROL NOTES

Temporary Erosion Control

Table with 4 columns: Measure, Dates For Use, Timing, Activity, and Location. Includes rows for Sedimentation Barrier, Up-slope Diversion, Catch Basin Protection, Dust Control, Temporary Seeding, Mulch, Winter Mulch, and Inspections.

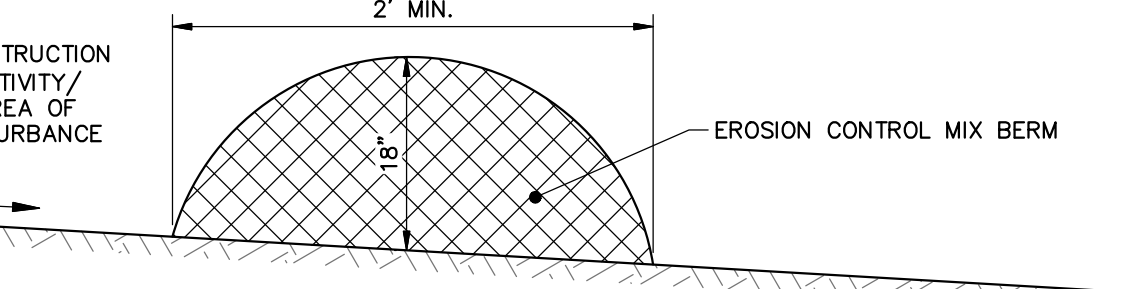
EROSION AND SEDIMENTATION CONTROL NOTES
TEMPORARY EROSION CONTROL MEASURES MAY INCLUDE THE USE OF STABILIZED CONSTRUCTION ENTRANCES, HYDRAULIC MULCH, HAY AND STRAW MULCH, EROSION CONTROL BLANKET, TURF REINFORCED MATING, RIPRAP AND TEMPORARY SEEDING.

Permanent Erosion Control:

Table with 4 columns: Measure, Dates For Use, Timing, Activity, and Location. Includes rows for Pavement - Base Course - Final Course, Permanent Seeding, Dormant Seeding, Ground Cover, Trees, Shrubs, and Permanent Mulch.

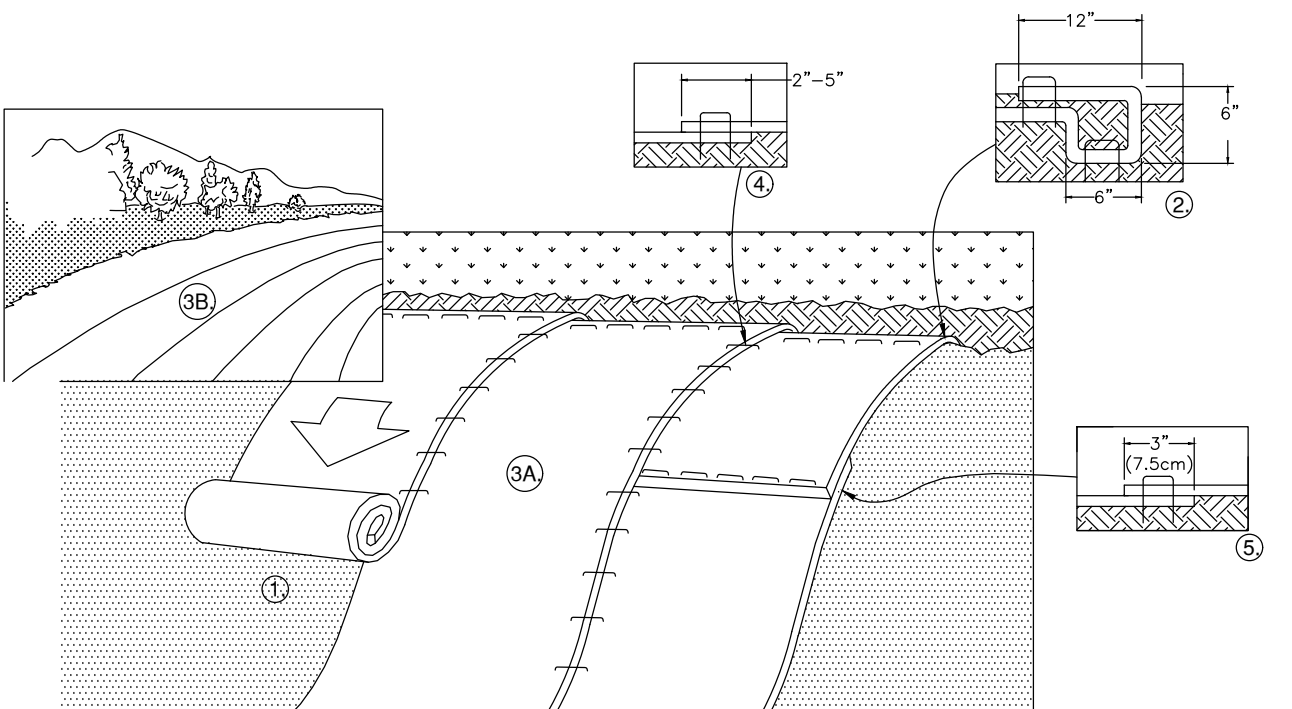
Inspections:

Table with 2 columns: Inspected Item, Look For. Lists items like Mulched Surfaces, Seeded Surfaces, Sediment Barrier, Perimeter Diversion, Catch Basin Protection, Dewatering Filter, and Construction Entrance.



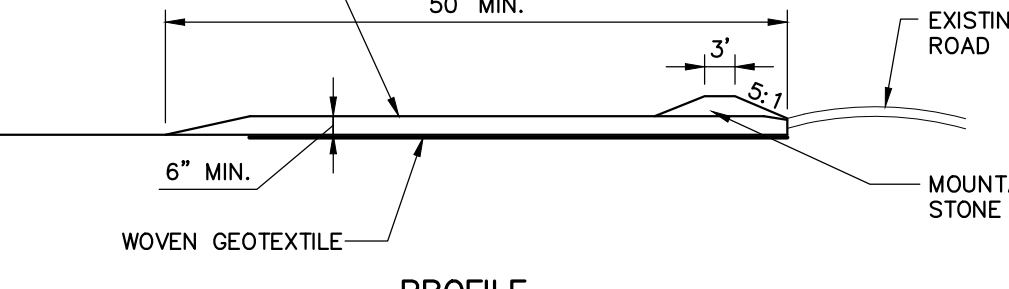
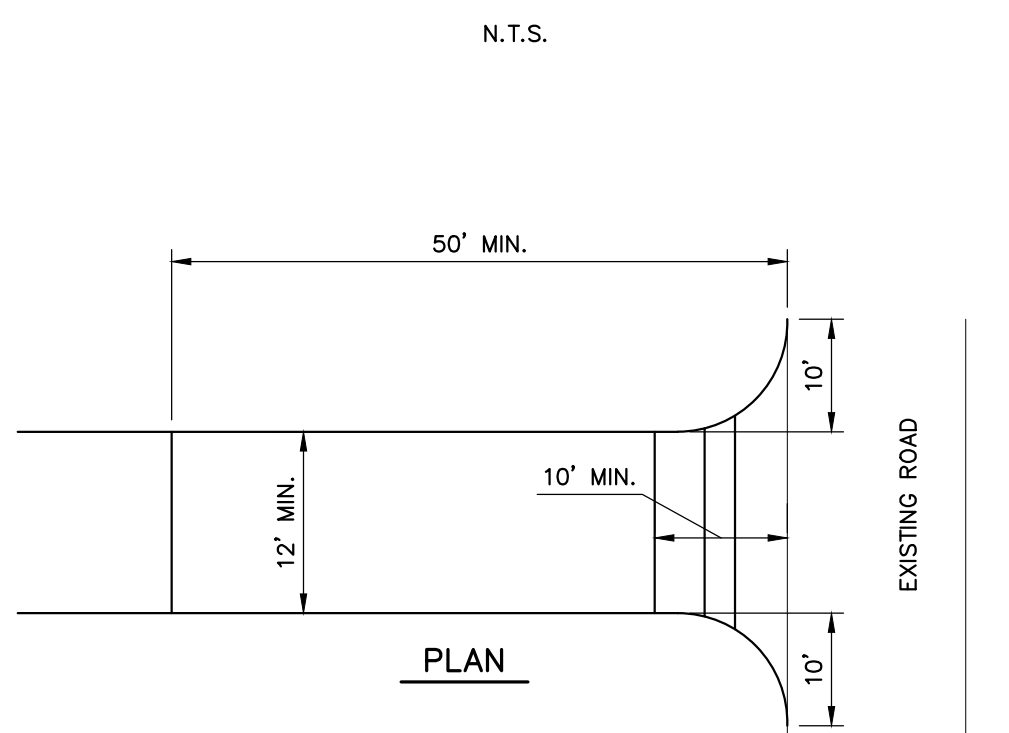
- NOTES:
1. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL...
2. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER...

EROSION CONTROL MIX BERM



- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S)...
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 4" WIDE TRENCH...
3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE...

ROLLED EROSION CONTROL MATTING



- NOTES:
• CONSTRUCTION ENTRANCES MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
• WHEEL WASH PITS MAY ALSO BE USED, IF APPROVED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

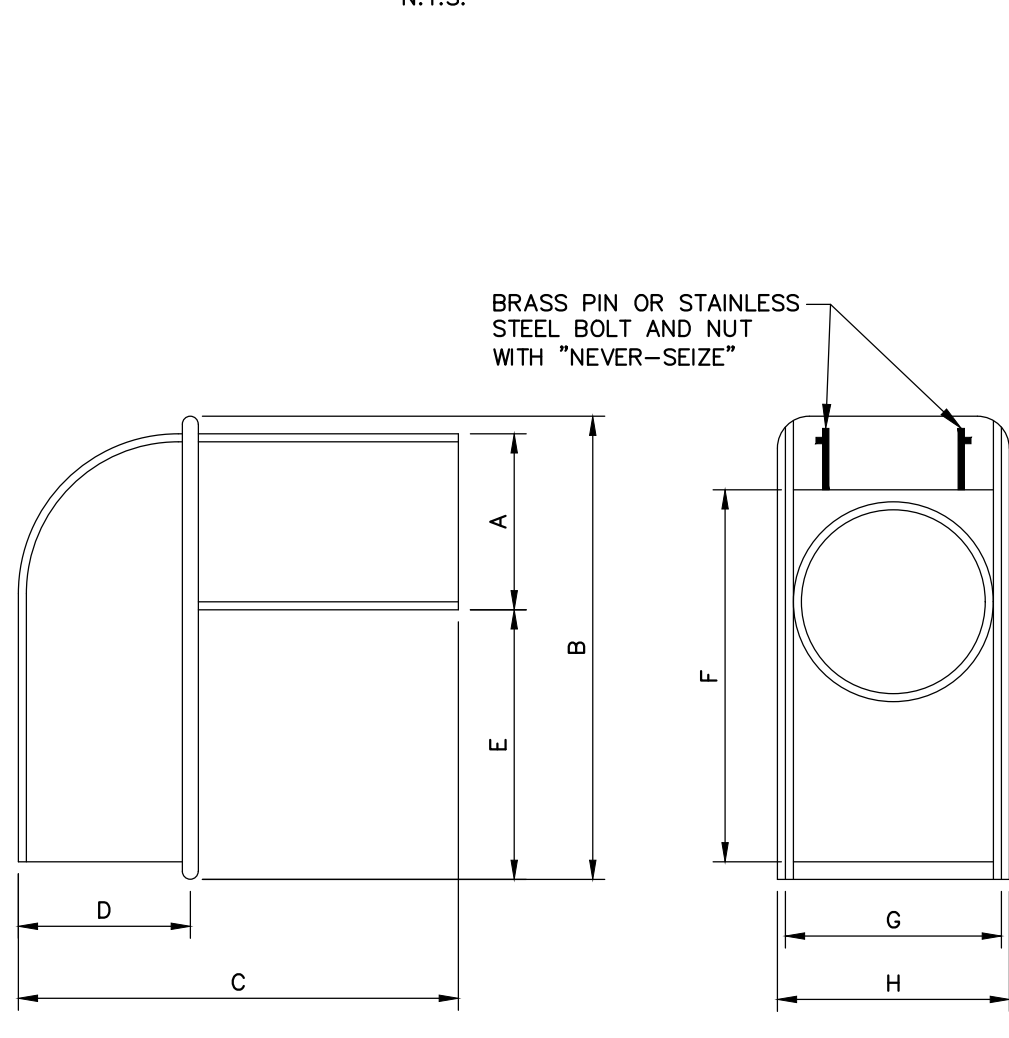
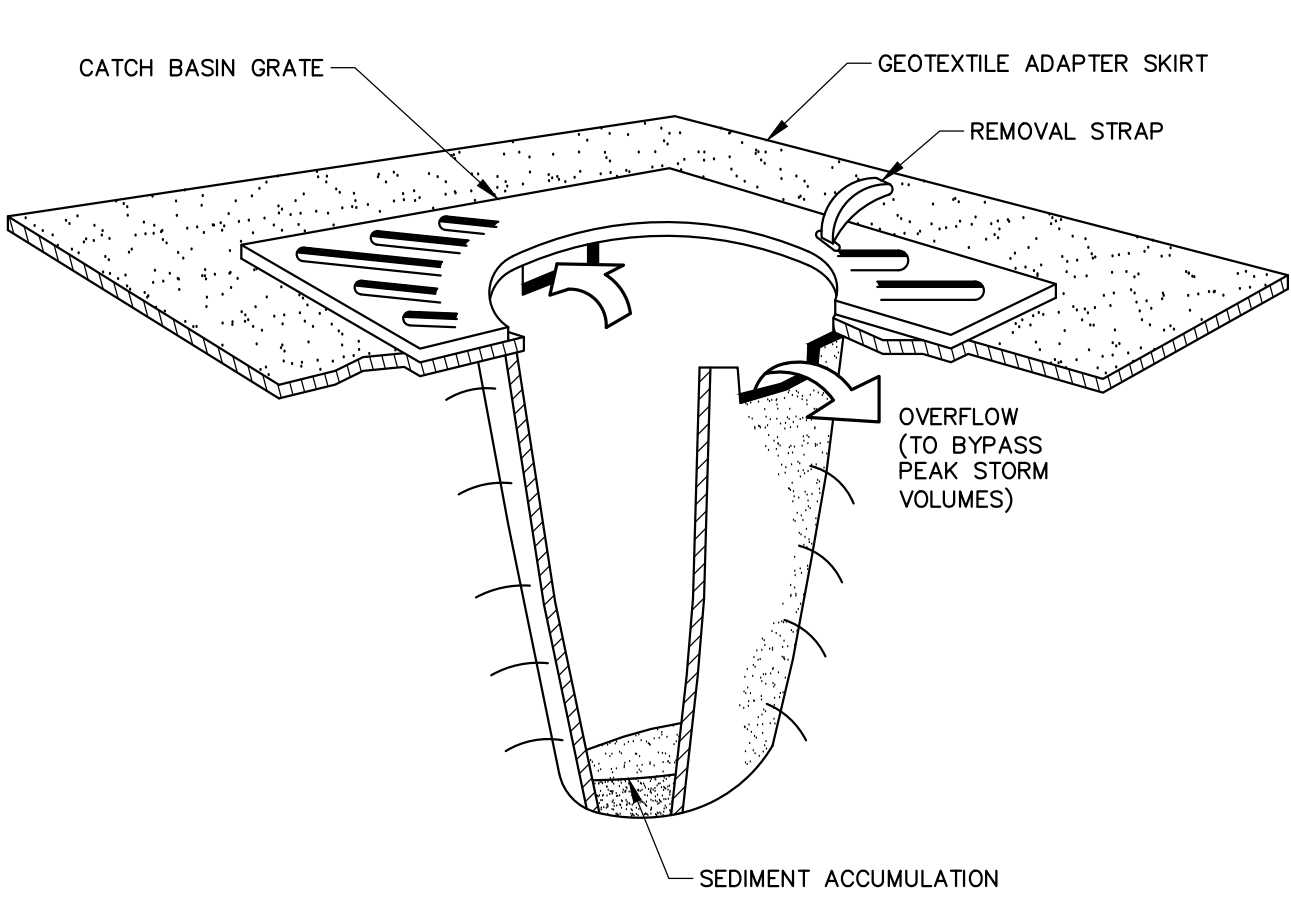


Table with 9 columns: SIZE, A, B, C, D, E, F, G, H. Lists sizes 10", 15", and 15' with corresponding dimensions.

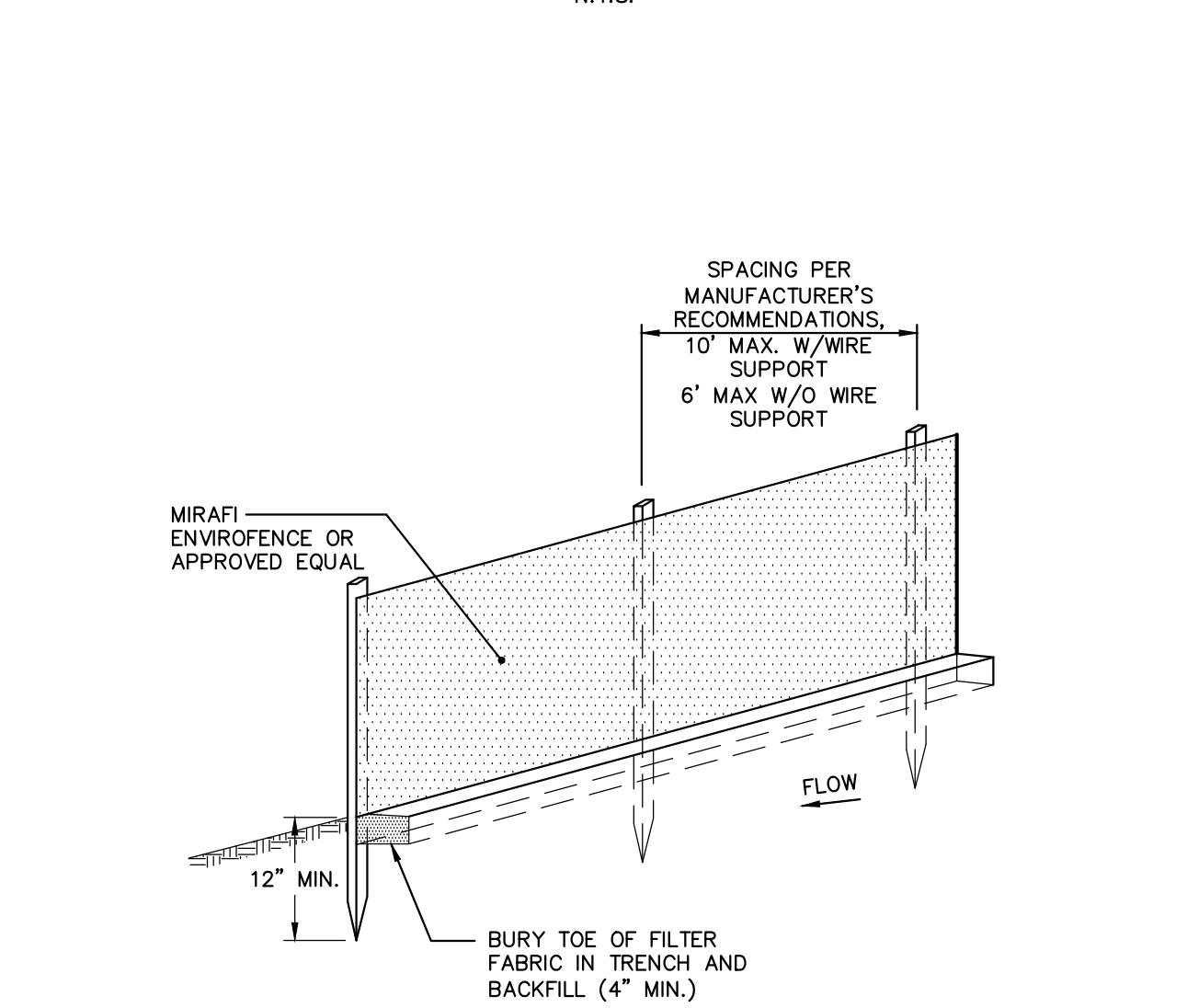
- 1. CASCO TRAP SHALL BE CAST IRON CASCO TRAP BY ETHERIDGE...
2. BOLT AND NUT REQUIRED WHERE HOOD WILL NOT OPEN COMPLETELY.

CASCO TRAP DETAIL



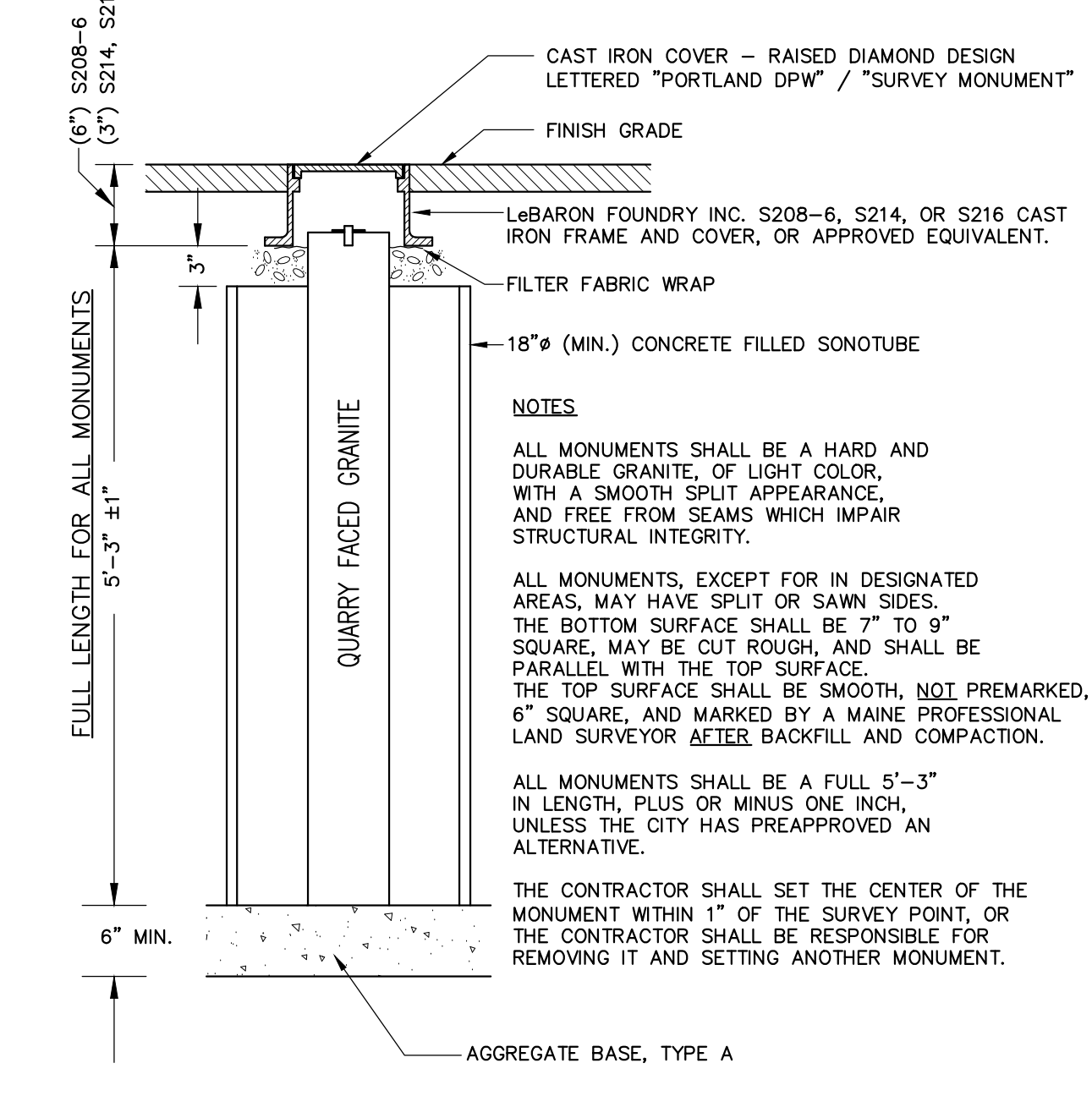
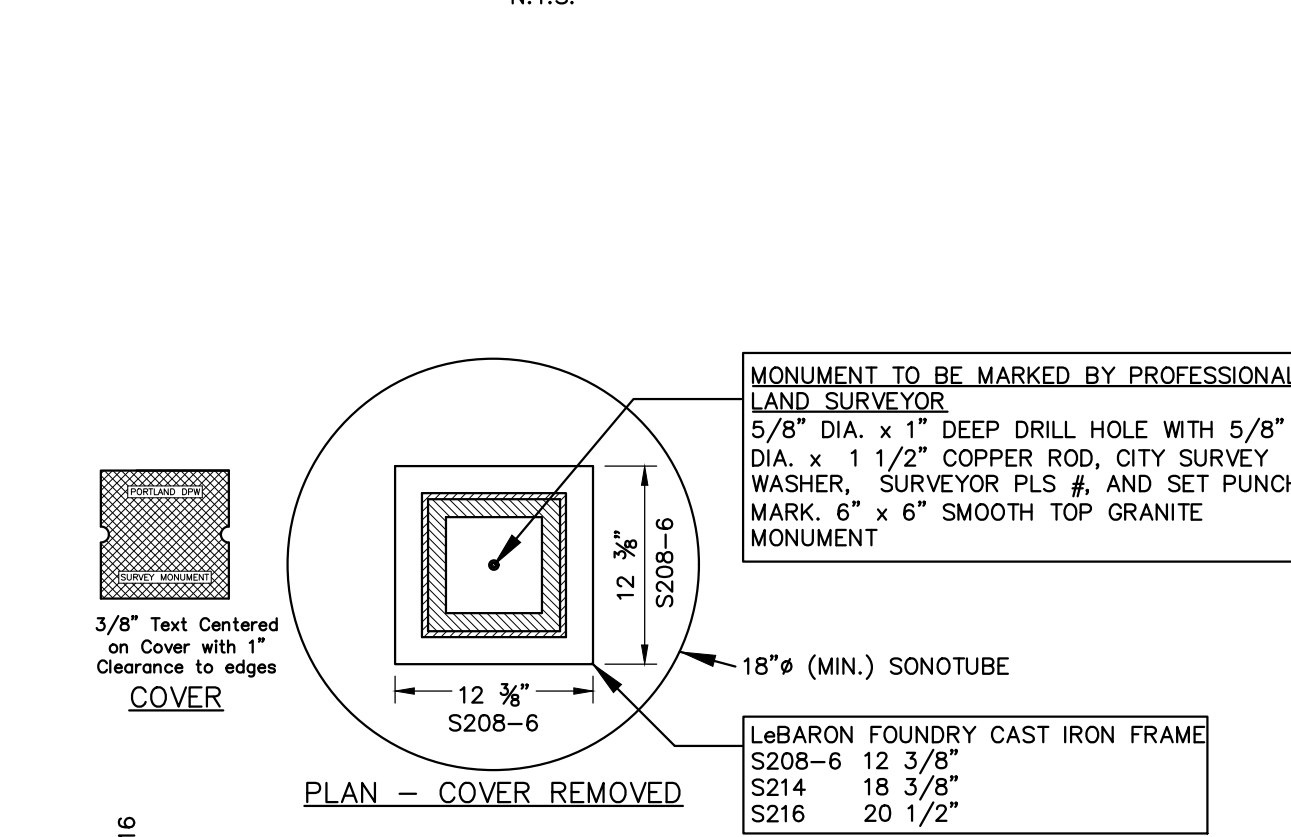
NOTES:
CATCH BASIN PROTECTION TO BE "SILT-SACK" (BY ACF ENVIRONMENTAL) OR "STREAM GUARD" (BY FOSS ENVIRONMENTAL SERVICES).

TEMPORARY INLET PROTECTION



- NOTES:
• INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS
• INSTALL SILT FENCE ACROSS SLOPES

SEDIMENT BARRIER - SILTATION FENCE DETAIL



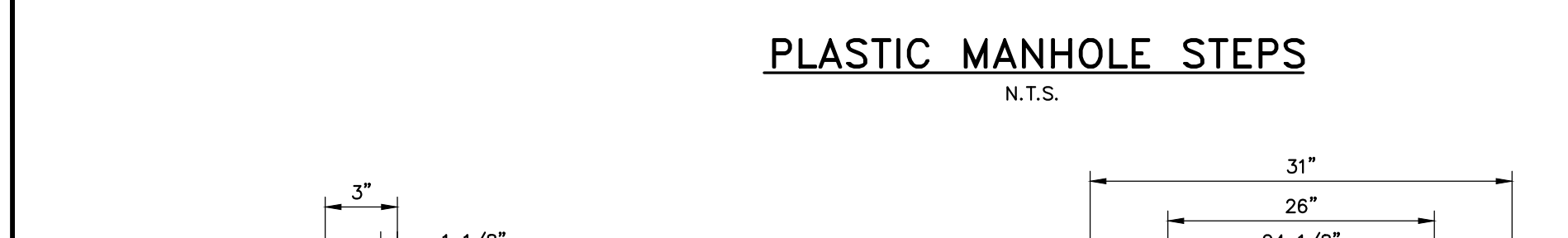
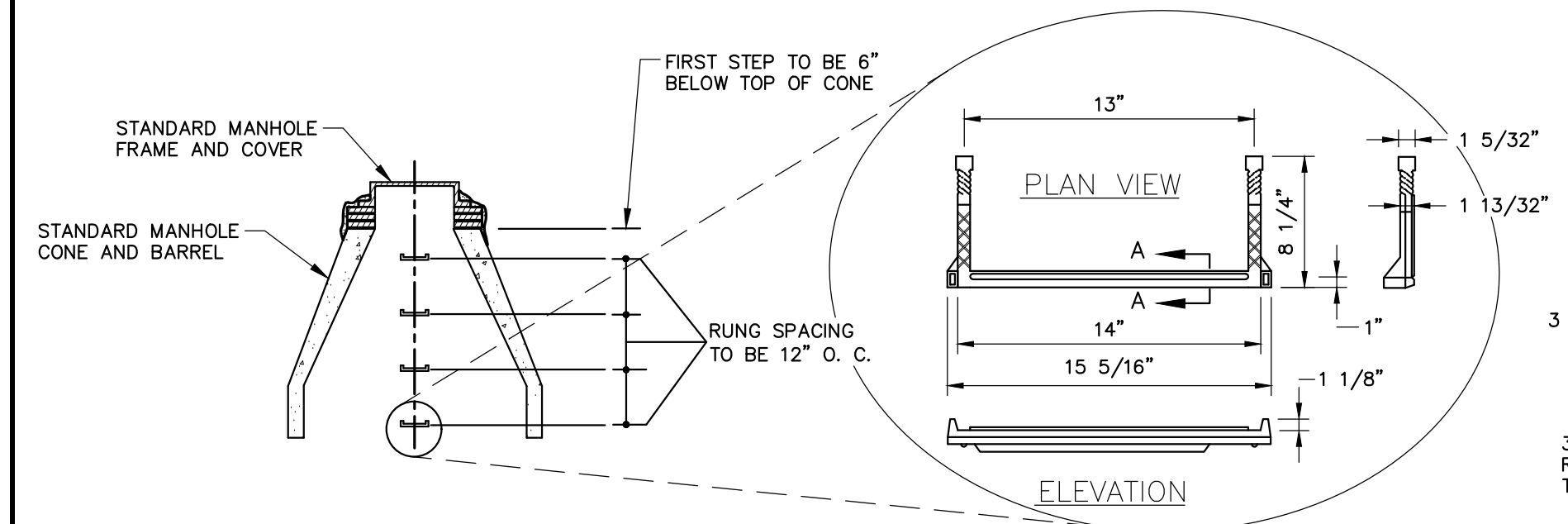
GRANITE STREET MONUMENT

Professional seal and stamp for David A. Sinus, P.E., License No. 11802, State of Maine.

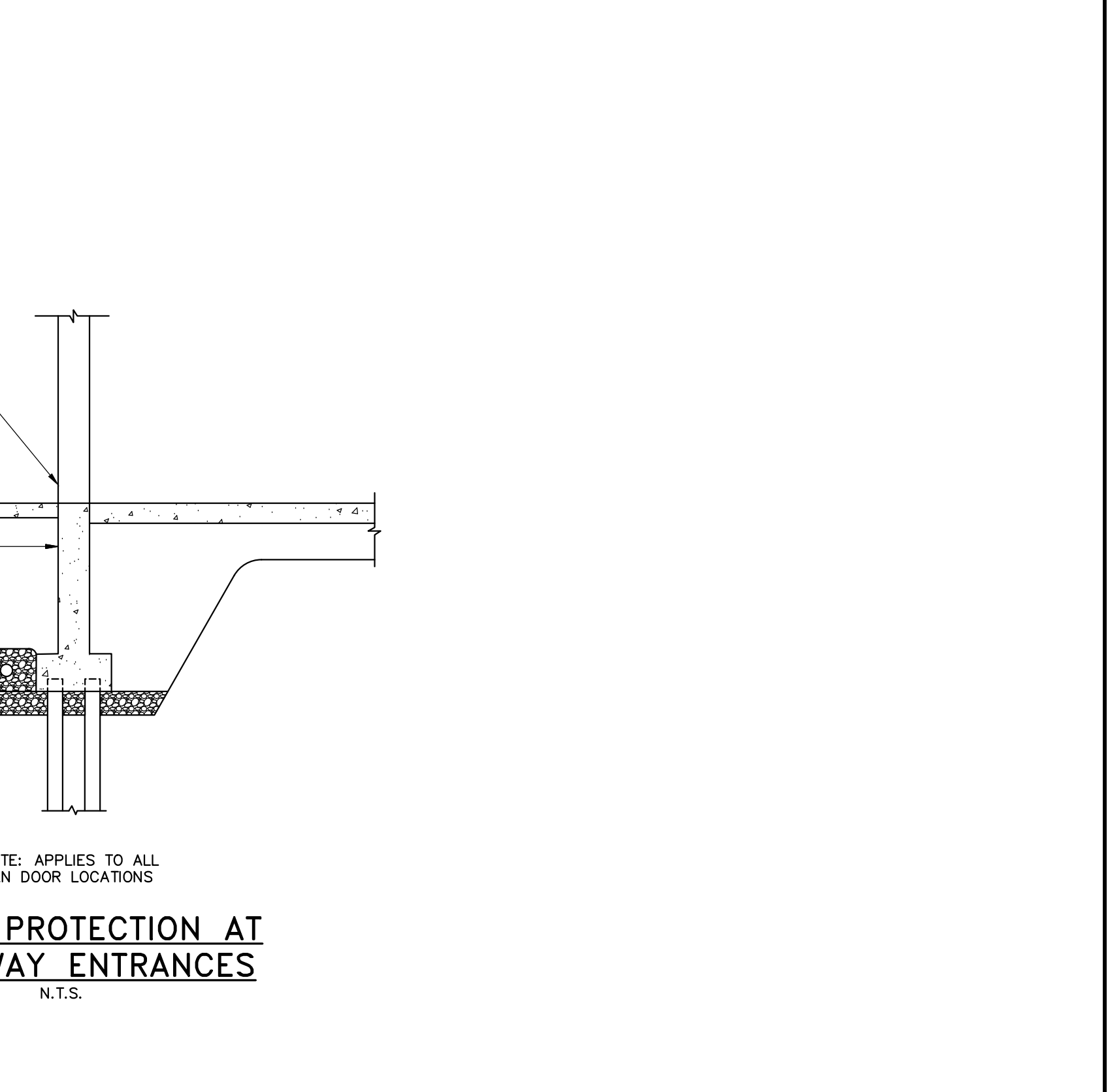
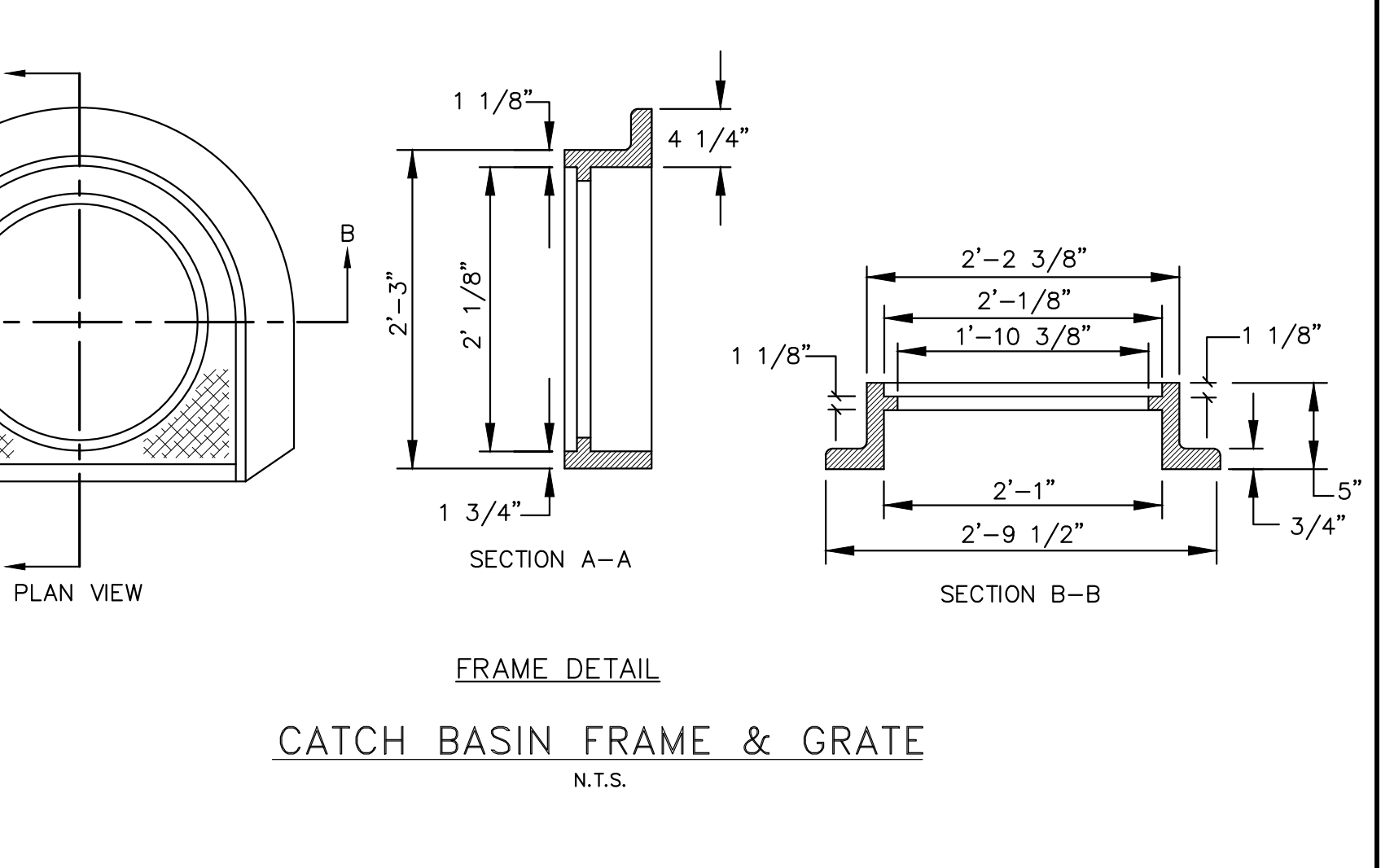
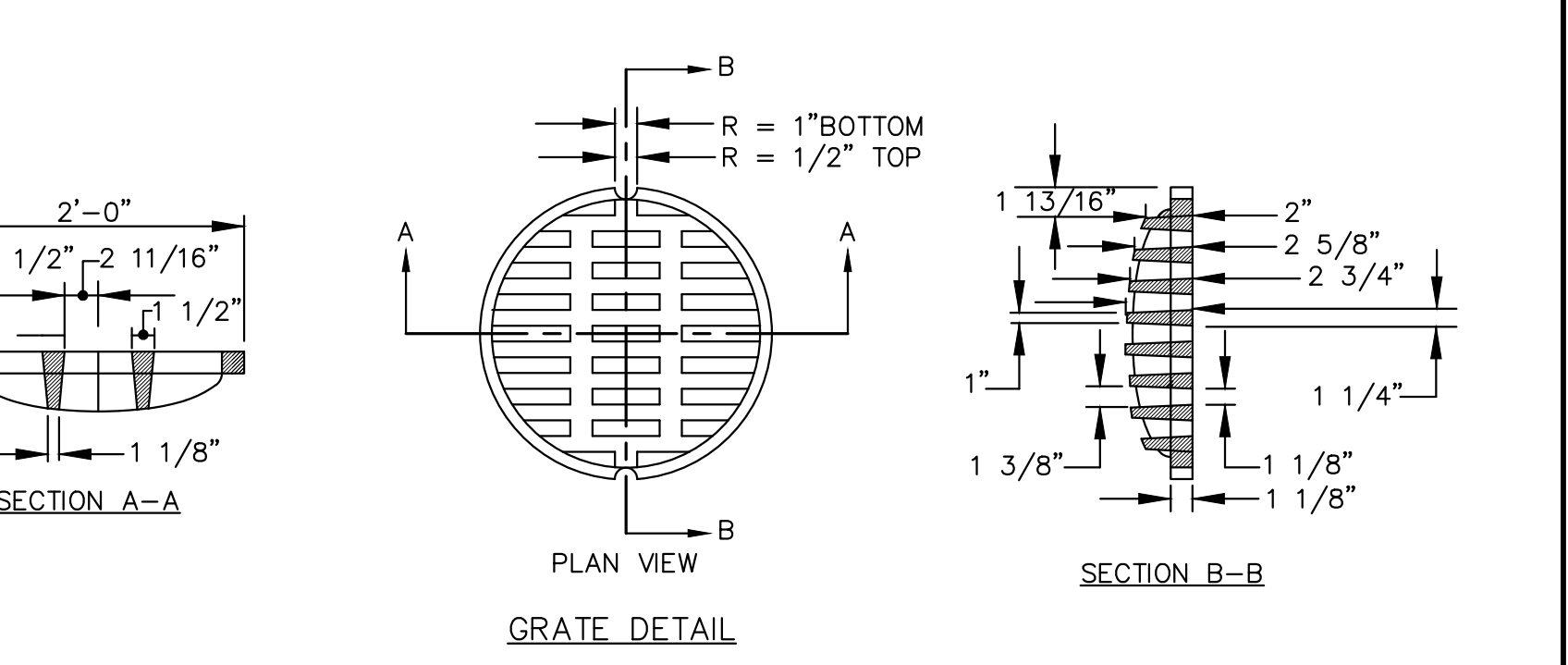
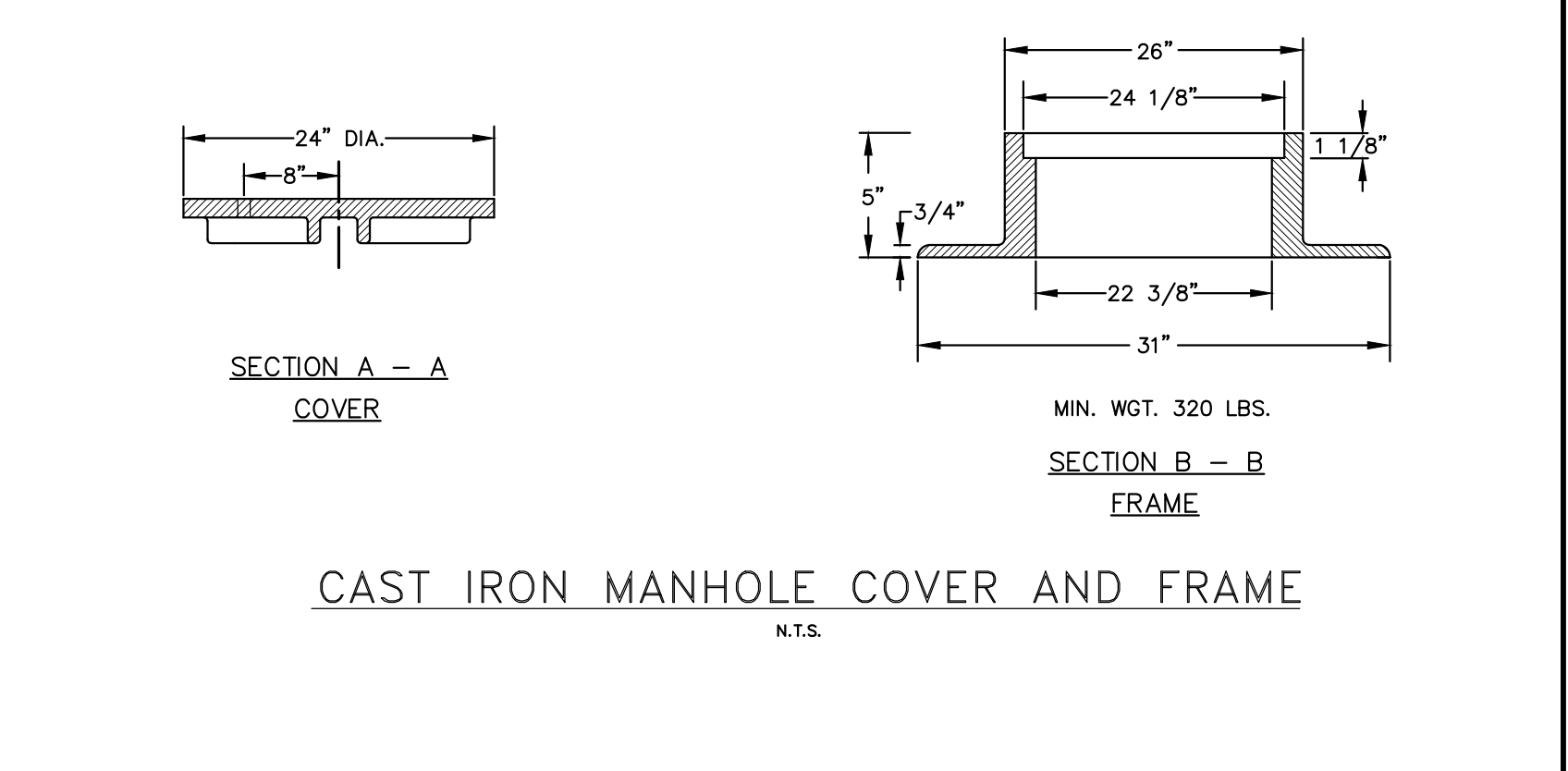
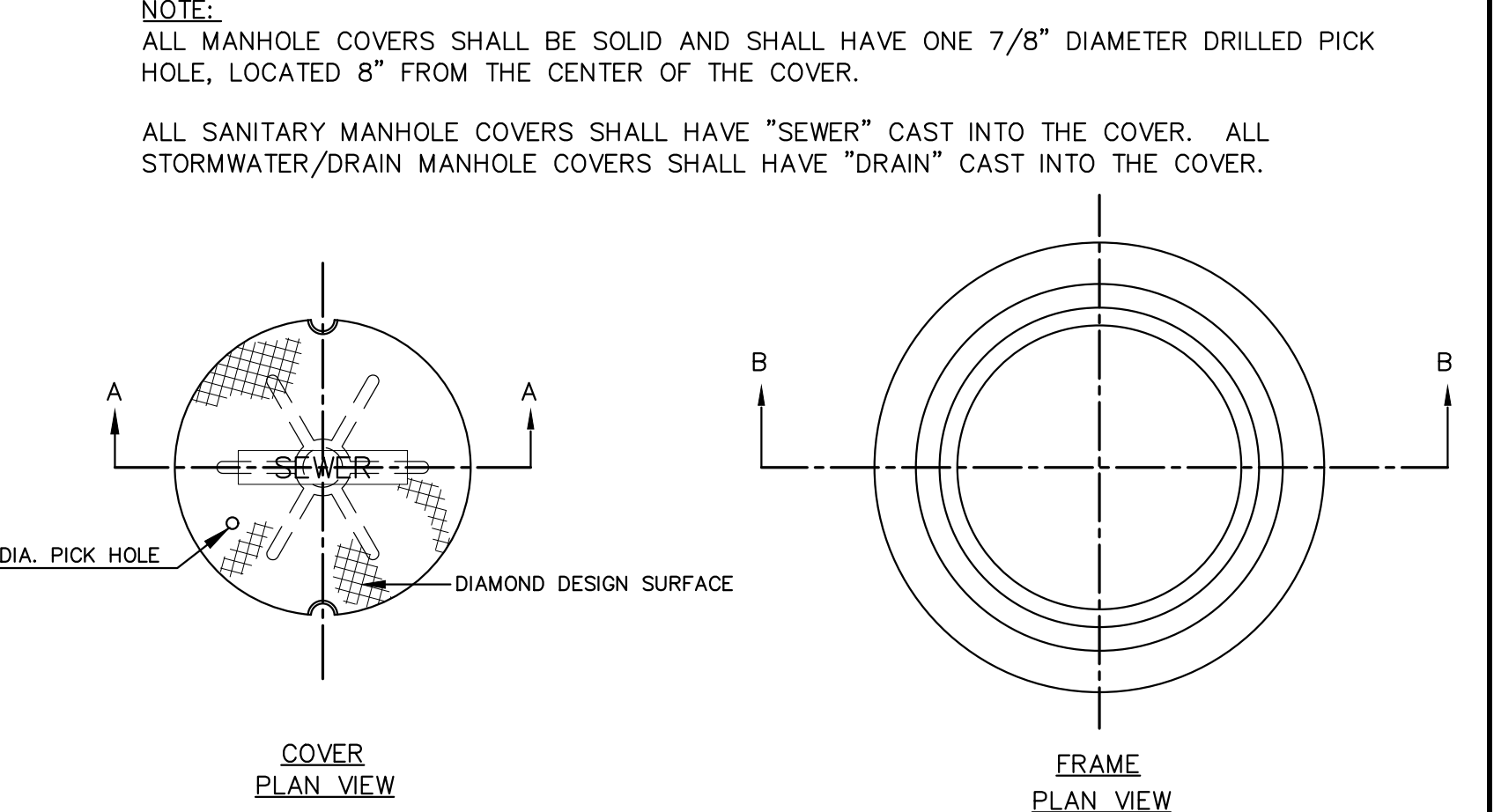
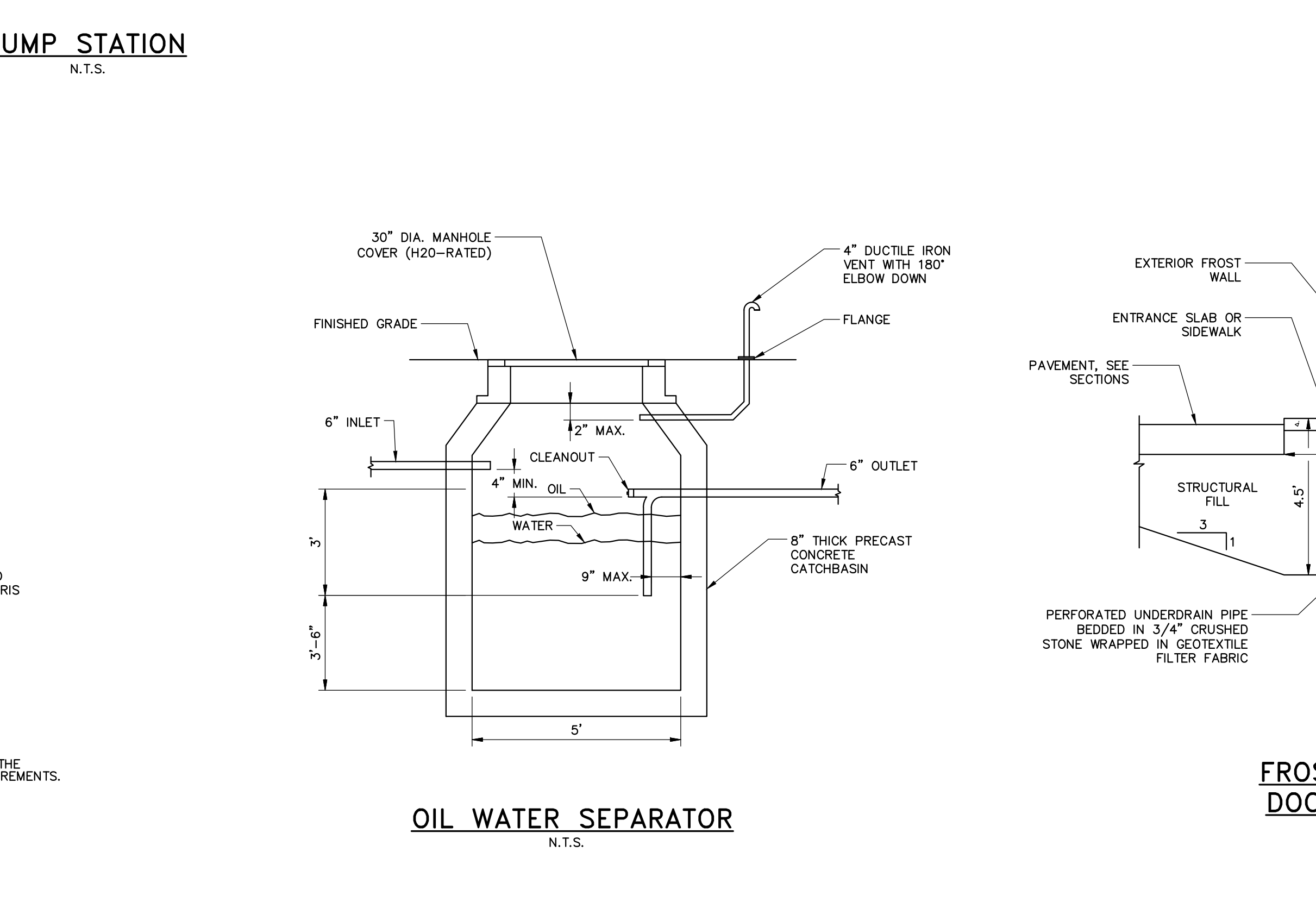
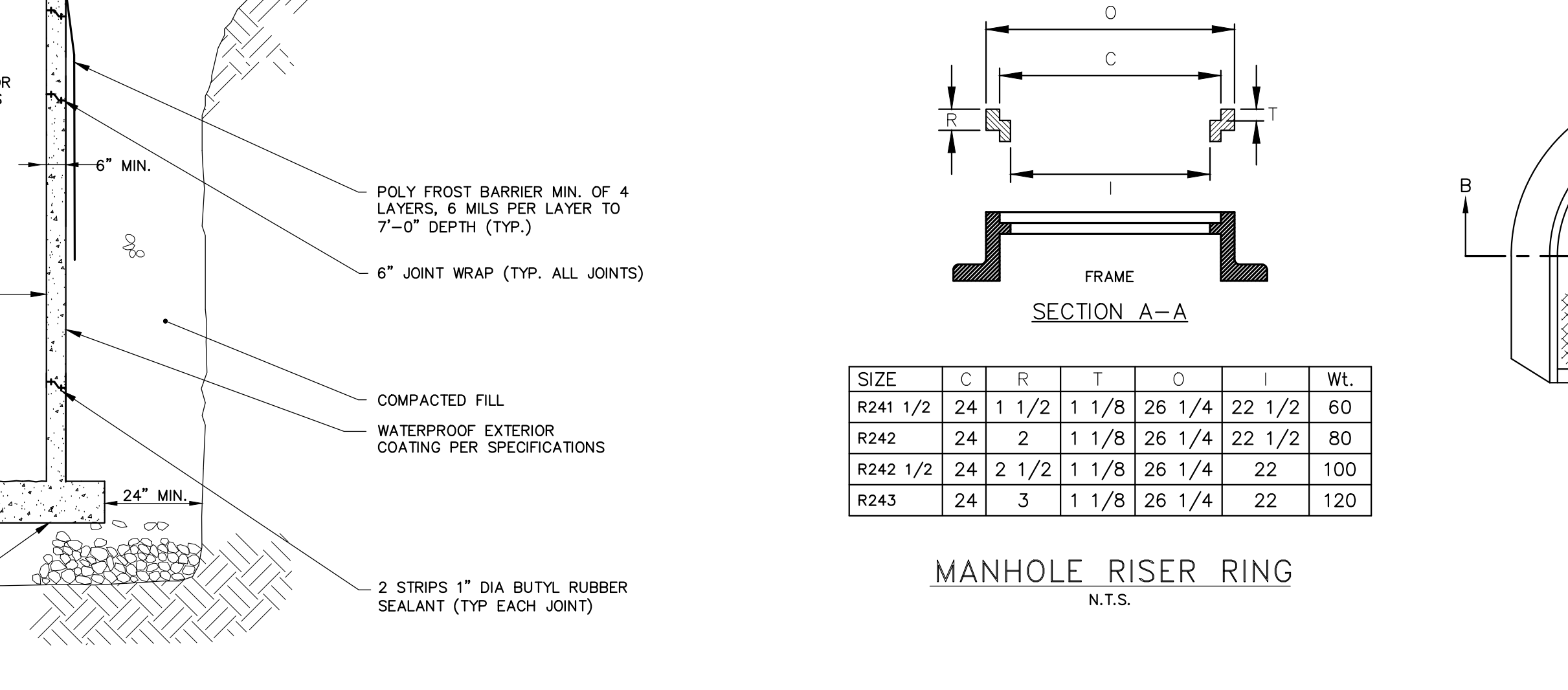
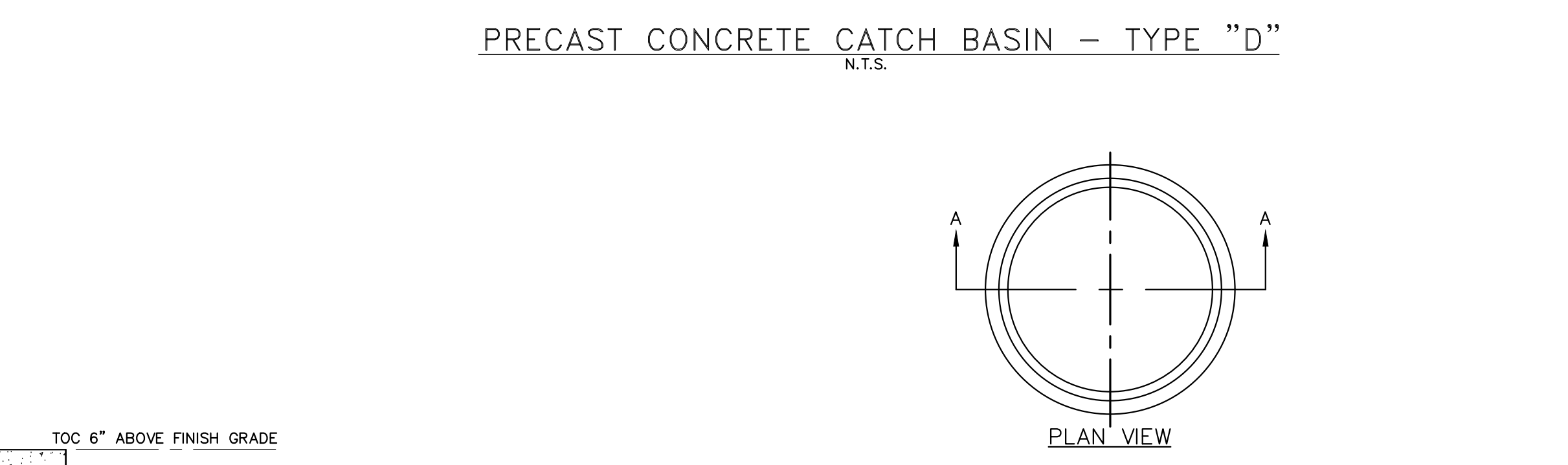
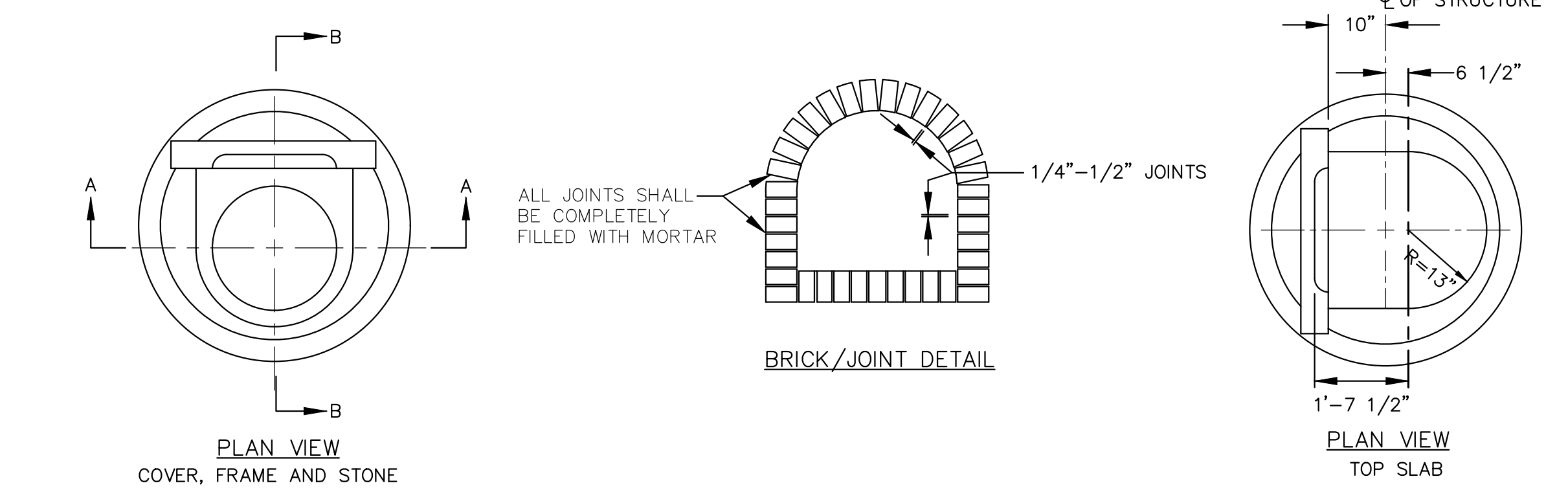
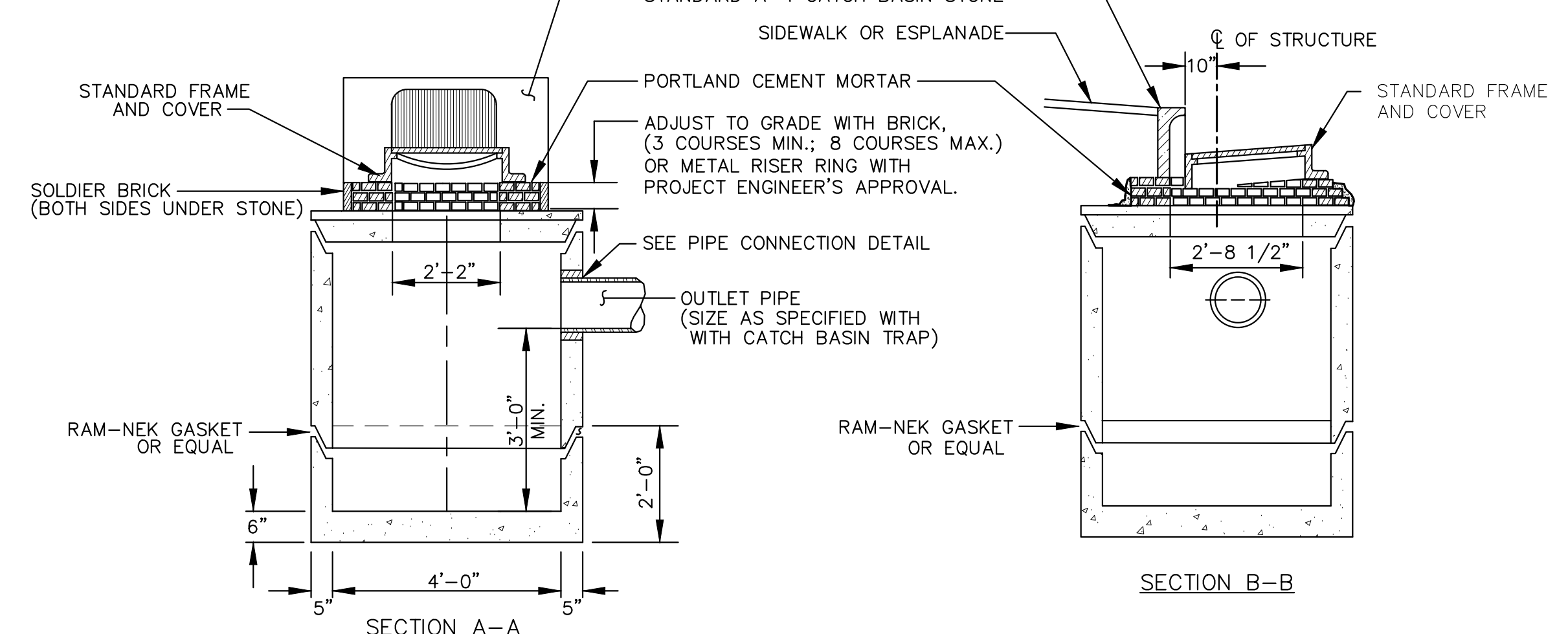
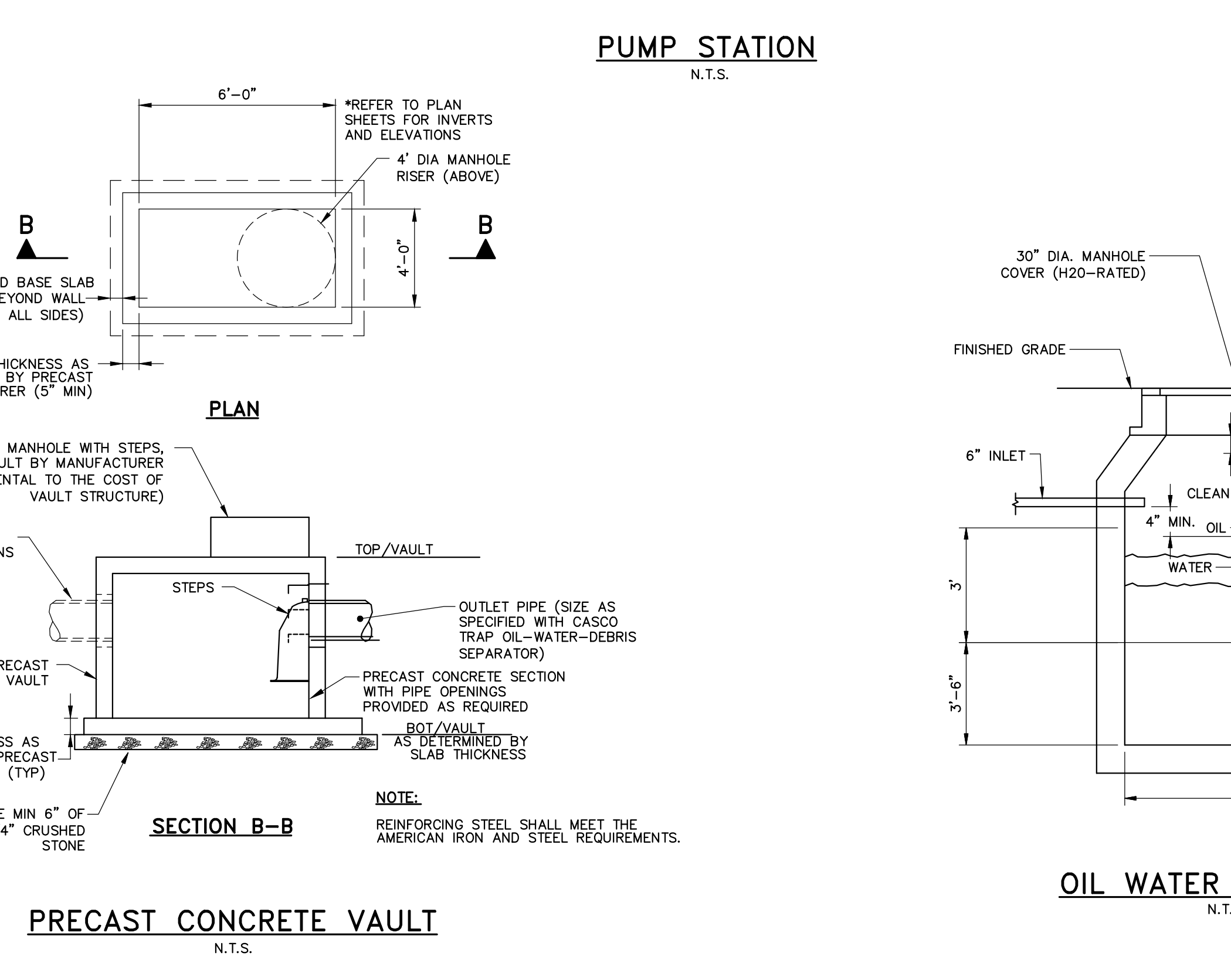
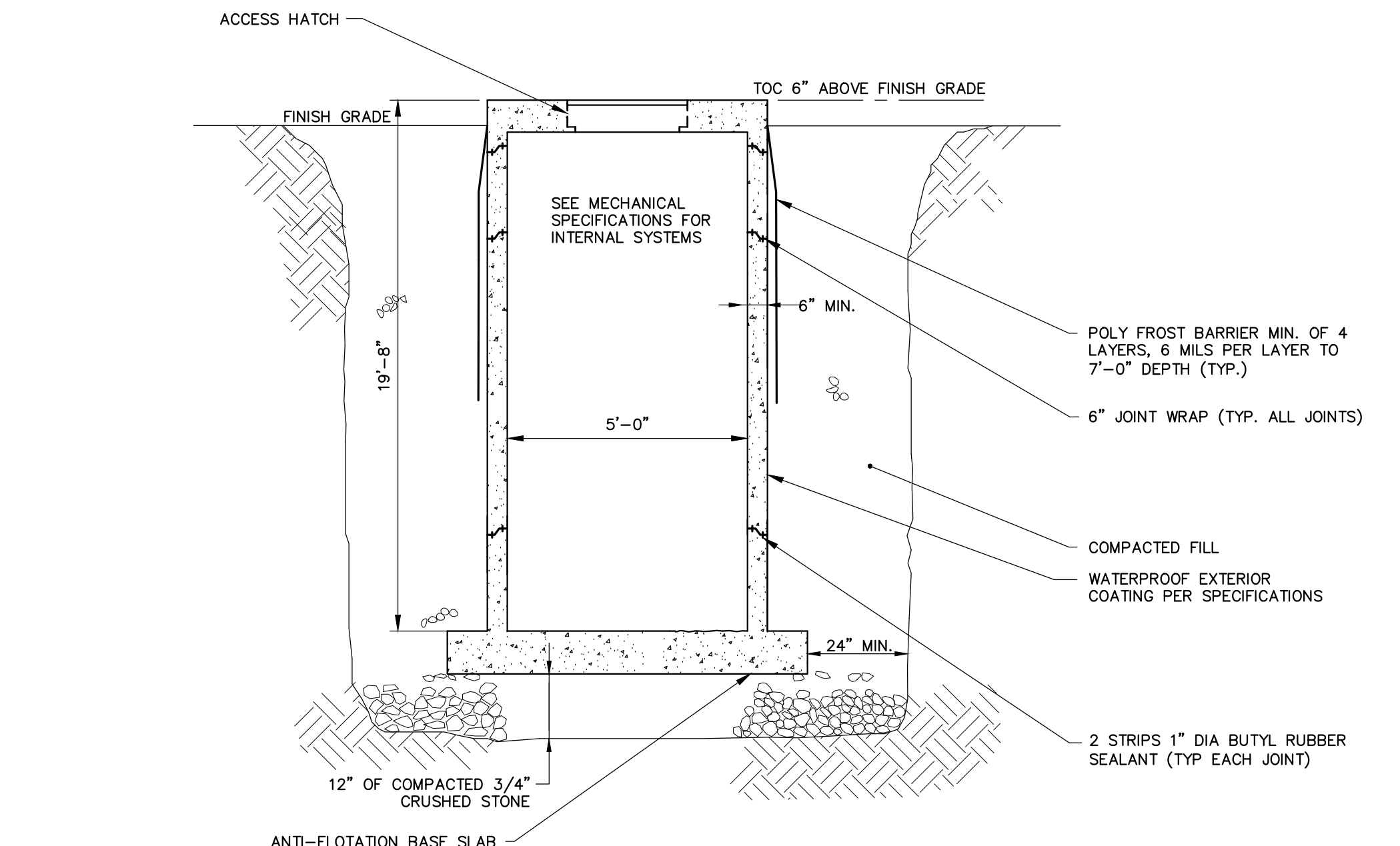
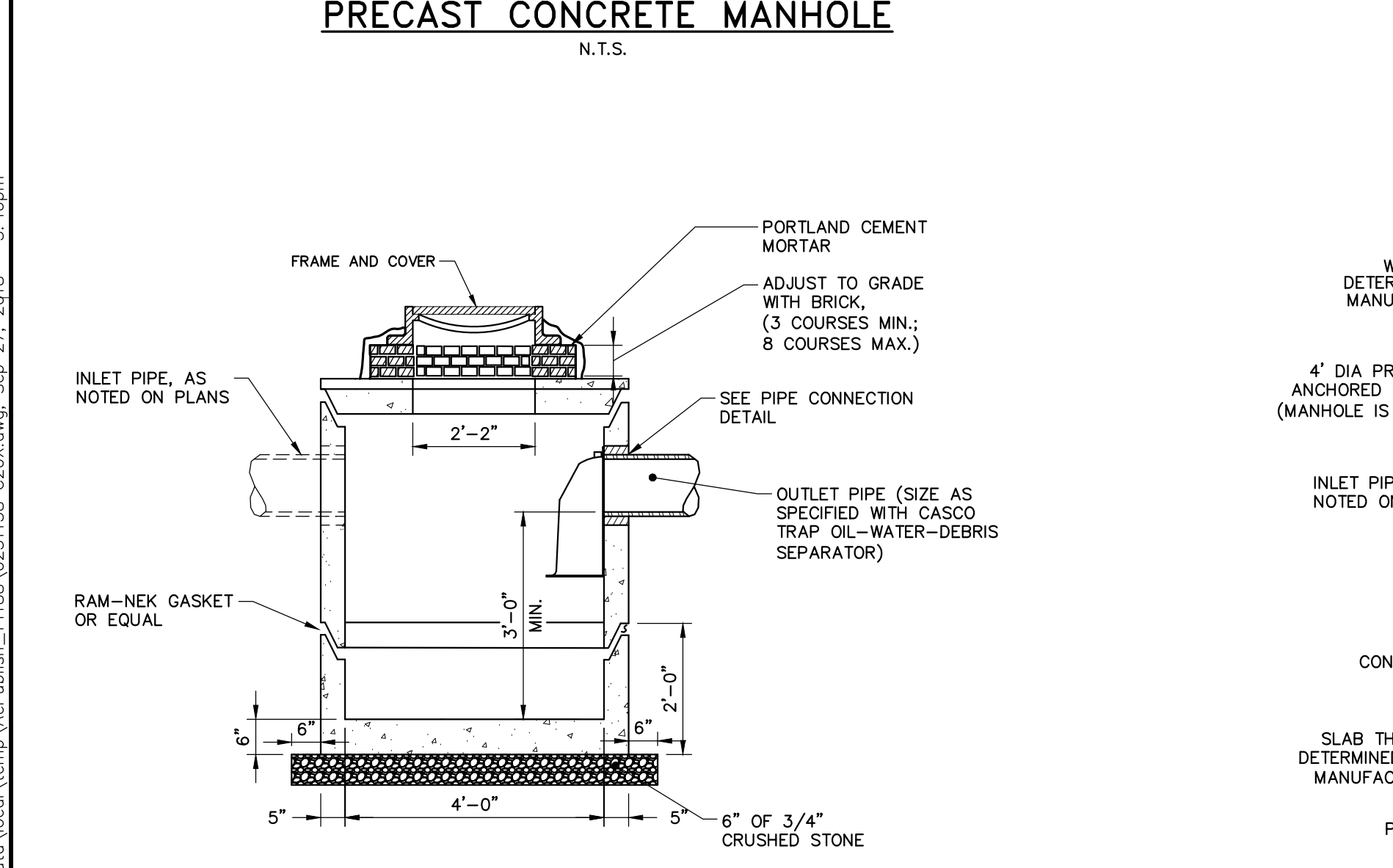
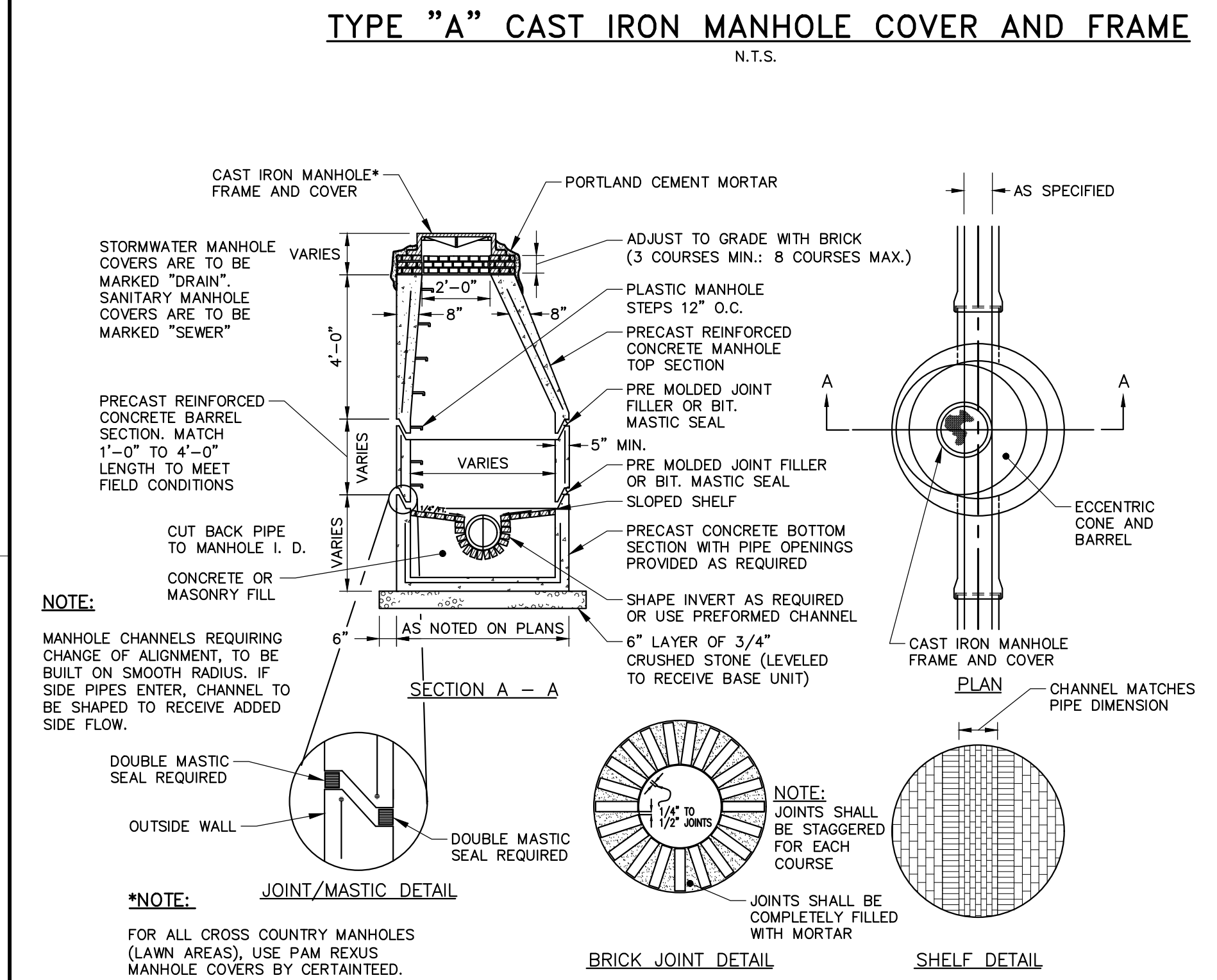
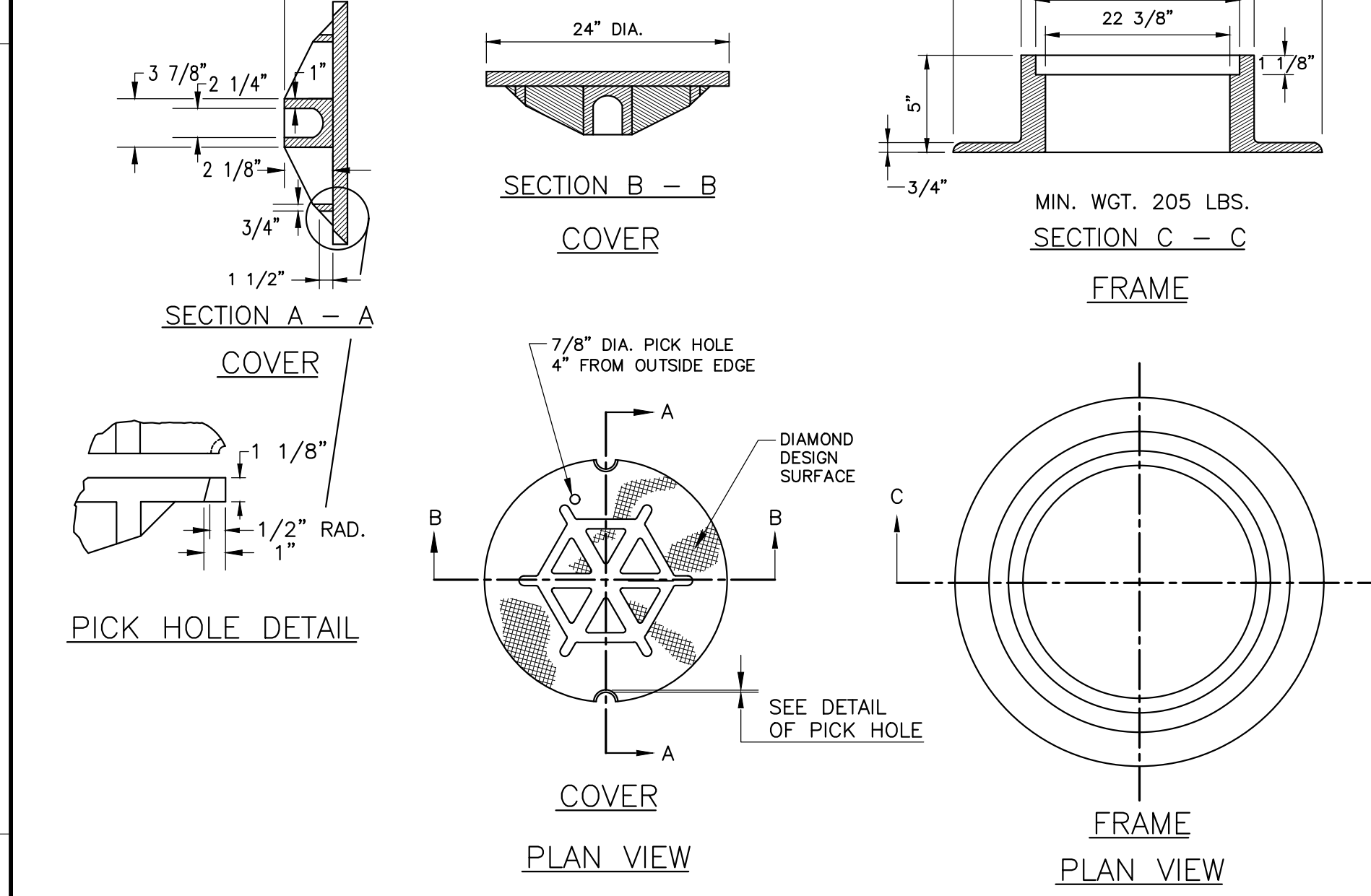
Table with columns: NO., DATE, DESCRIPTION, REV. Includes revision history for the drawing.

MAINE MEDICAL CENTER
BRANFILL STREET
PORTLAND, ME 04102
MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2010
SCALE: AS NOTED
SHEET: 12 OF 18
C-200



- GENERAL NOTES FOR MANHOLES AND CATCH BASINS**
- ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
 - PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478.
 - ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTED OF BRICK MASONRY, SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY SUPPLEMENTAL SPECIFICATIONS SECTION 604.
 - CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
 - MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
 - CONTRACTOR SHALL SUBMIT ANTI-FLOATATION CALCULATIONS FOR ALL MANHOLE AND CATCH BASIN STRUCTURES.
 - ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION, OFFSET, AND STRUCTURE ID PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
 - STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED PICK HOLE.
 - EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
 - WHEN THE FLOW CHANGES DIRECTION IN A MANHOLE, THE CHANNEL ALIGNMENT SHALL FOLLOW A SMOOTH RADIUS. CHANNELS SHALL BE FORMED TO ACCEPT ALL INLET PIPES.
 - ON STORM AND SEWER MANHOLES, THE SHELF AND CHANNEL SHALL BE FORMED BY BRICK SET IN CEMENT MORTAR OR BY FACTORY PRE-CAST CONCRETE. SUCH PRE-CAST CONCRETE SHALL BE EPOXY COATED AND THE SHELF SHALL HAVE A PERMANENT NON-SKID SURFACE.



NOTE:
ALL MANHOLE COVERS SHALL BE SOLID AND SHALL HAVE ONE 7/8" DIAMETER DRILLED PICK HOLE, LOCATED 8" FROM THE CENTER OF THE COVER.
ALL SANITARY MANHOLE COVERS SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/RAIN MANHOLE COVERS SHALL HAVE "RAIN" CAST INTO THE COVER.

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WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS

DAVID
SERVIS
PROF.

NO.	DESCRIPTION	DATE	REVISED BY	DATE
1	PERMIT SET	8/28/2018	DAVID SERVIS	
2	REVISED BY: DMS			
3	REVISED BY: DMS			
4	REVISED BY: DMS			
5	REVISED BY: DMS			
6	REVISED BY: DMS			
7	REVISED BY: DMS			
8	REVISED BY: DMS			
9	REVISED BY: DMS			
10	REVISED BY: DMS			

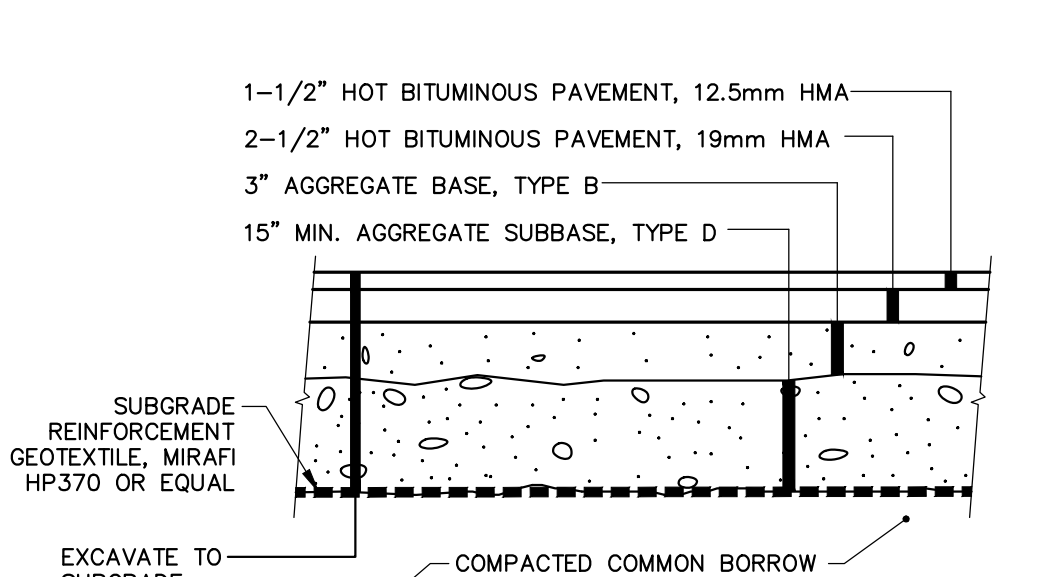
CIVIL DETAILS - 2

MAINE MEDICAL CENTER
BRANFALL STREET
PORTLAND, ME 04102

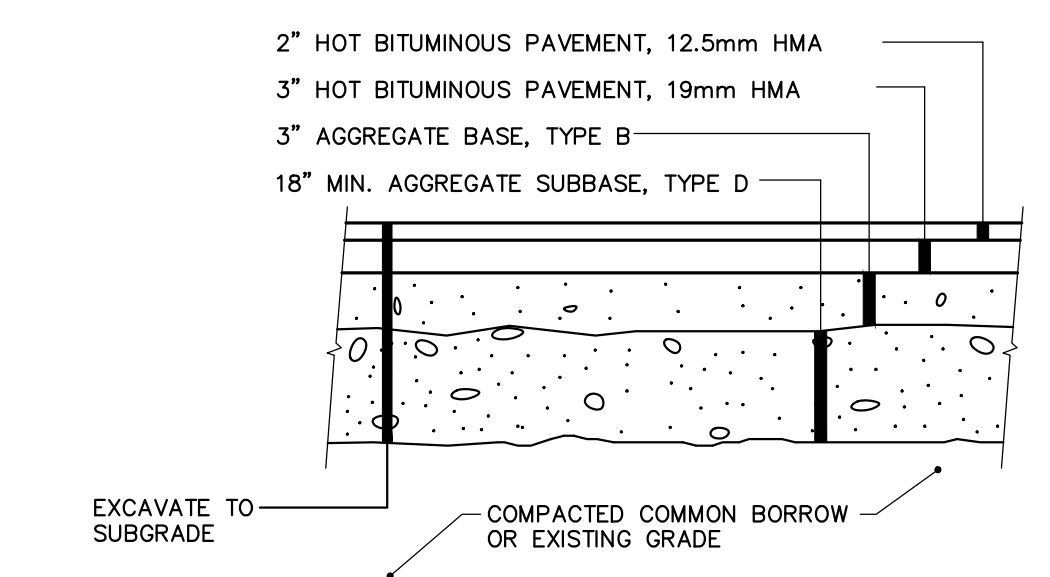
MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 13 OF 18

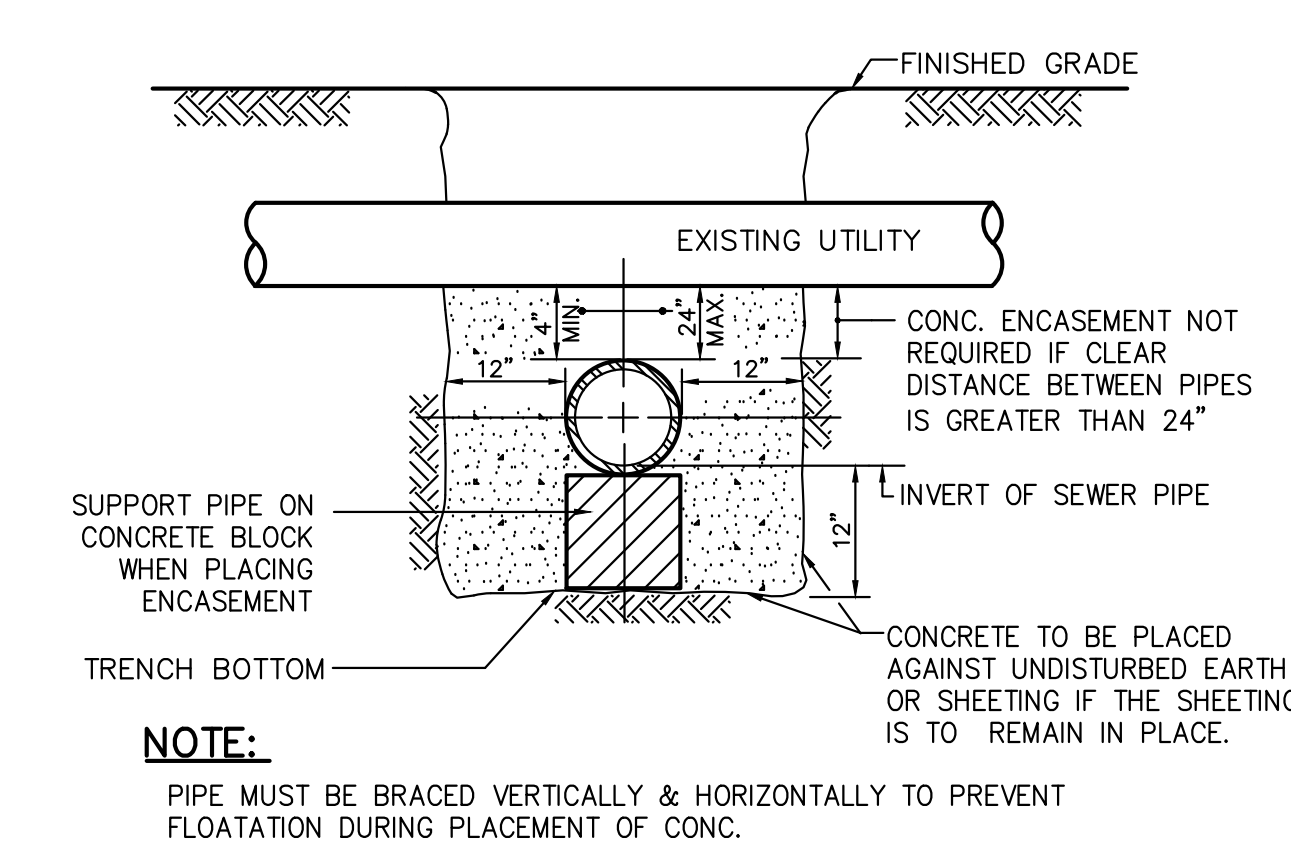
C-201



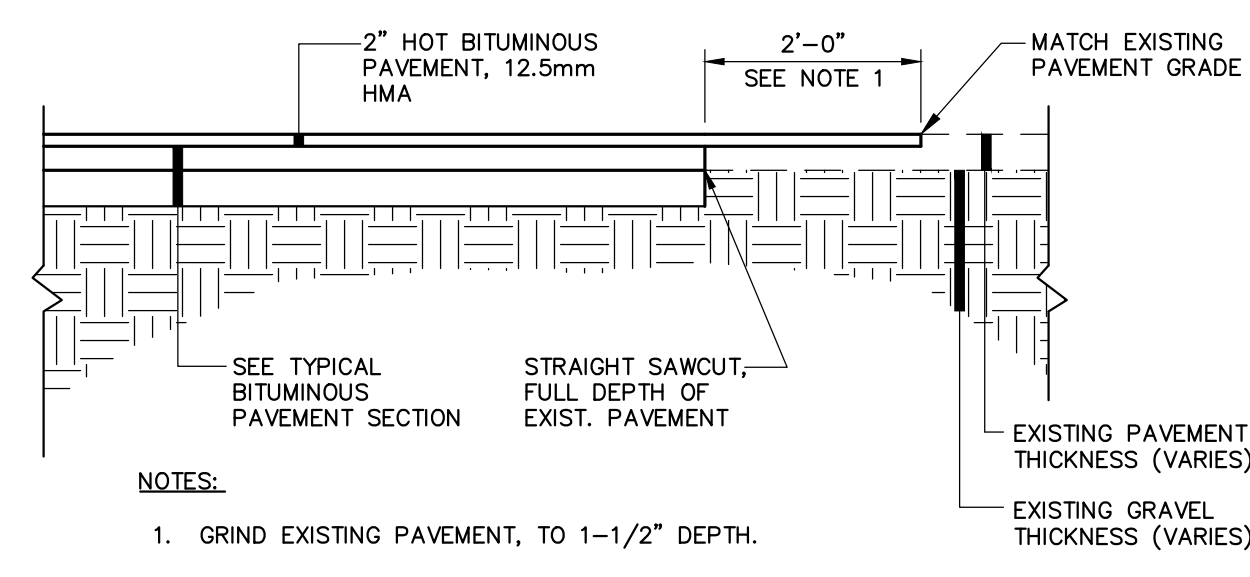
TYPICAL BITUMINOUS PAVEMENT SECTION - PARKING
N.T.S.



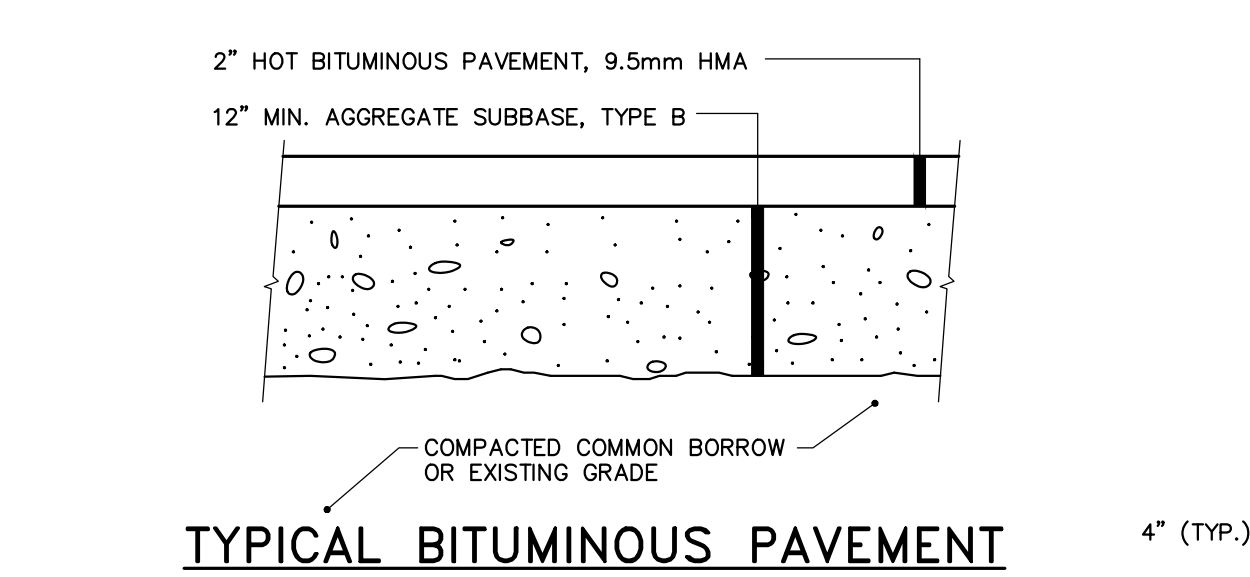
TYPICAL BITUMINOUS PAVEMENT SECTION - CITY RIGHT-OF-WAY
N.T.S.



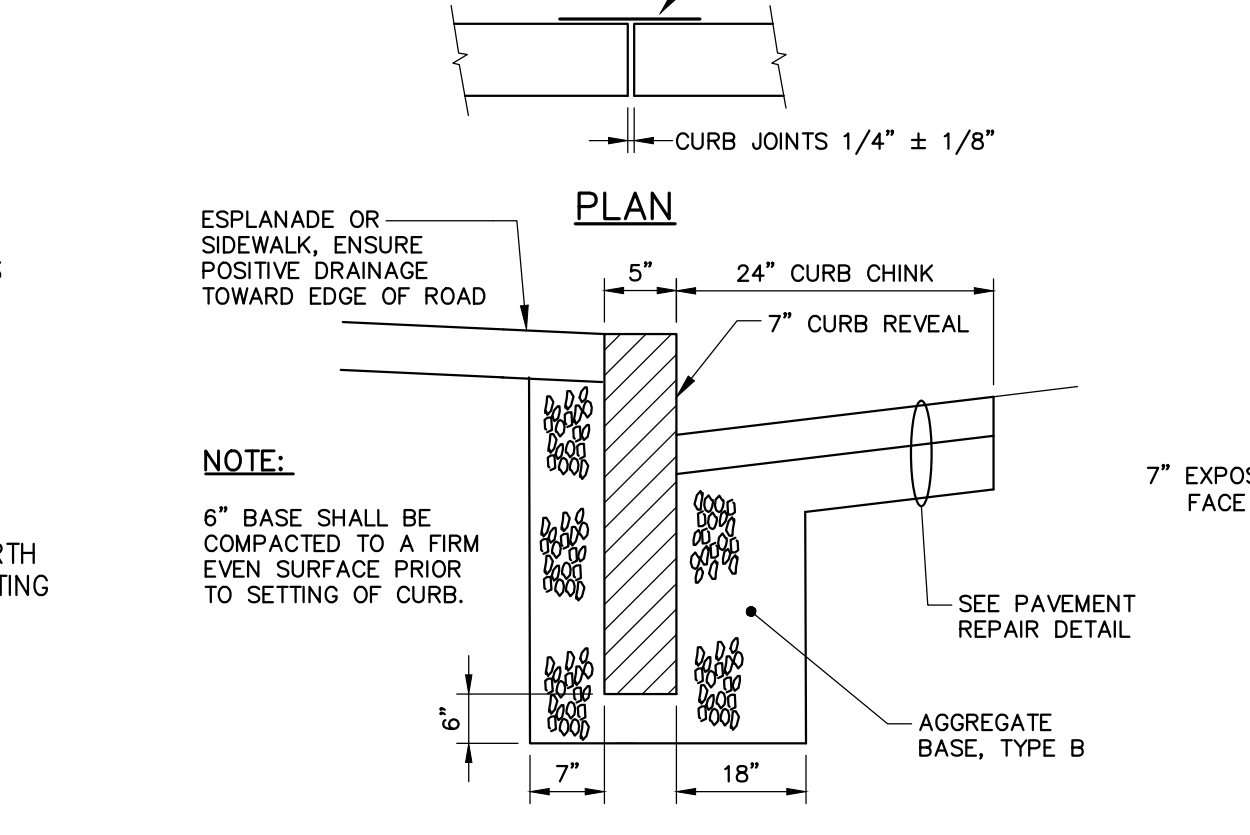
UTILITY CROSSING LESS THAN 24" CLEARANCE
N.T.S.



PAVEMENT BUTT JOINT DETAIL
N.T.S.



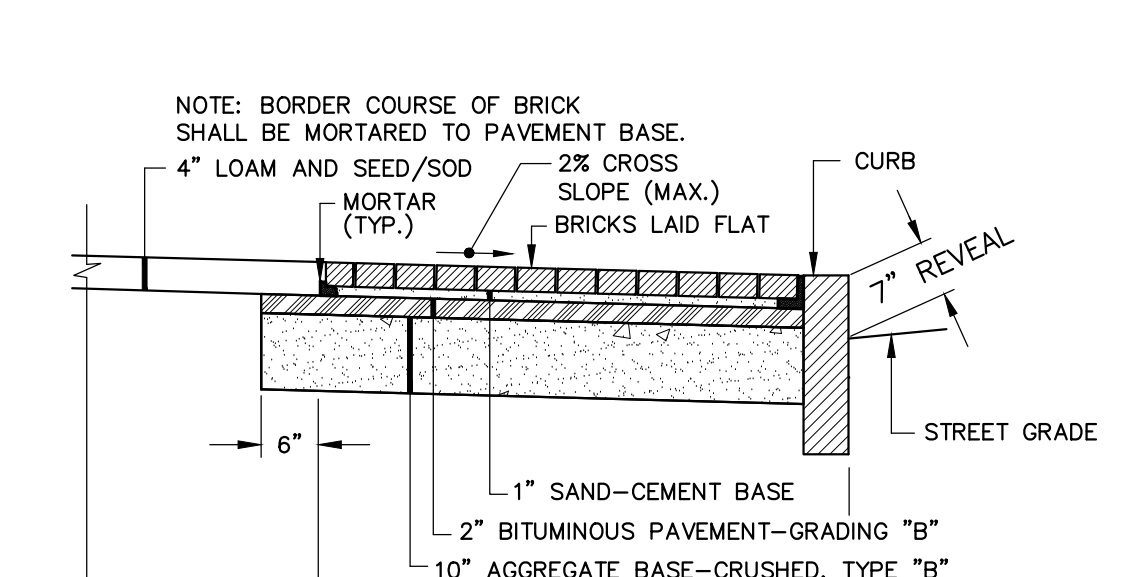
TYPICAL BITUMINOUS PAVEMENT SECTION - SIDEWALKS
N.T.S.



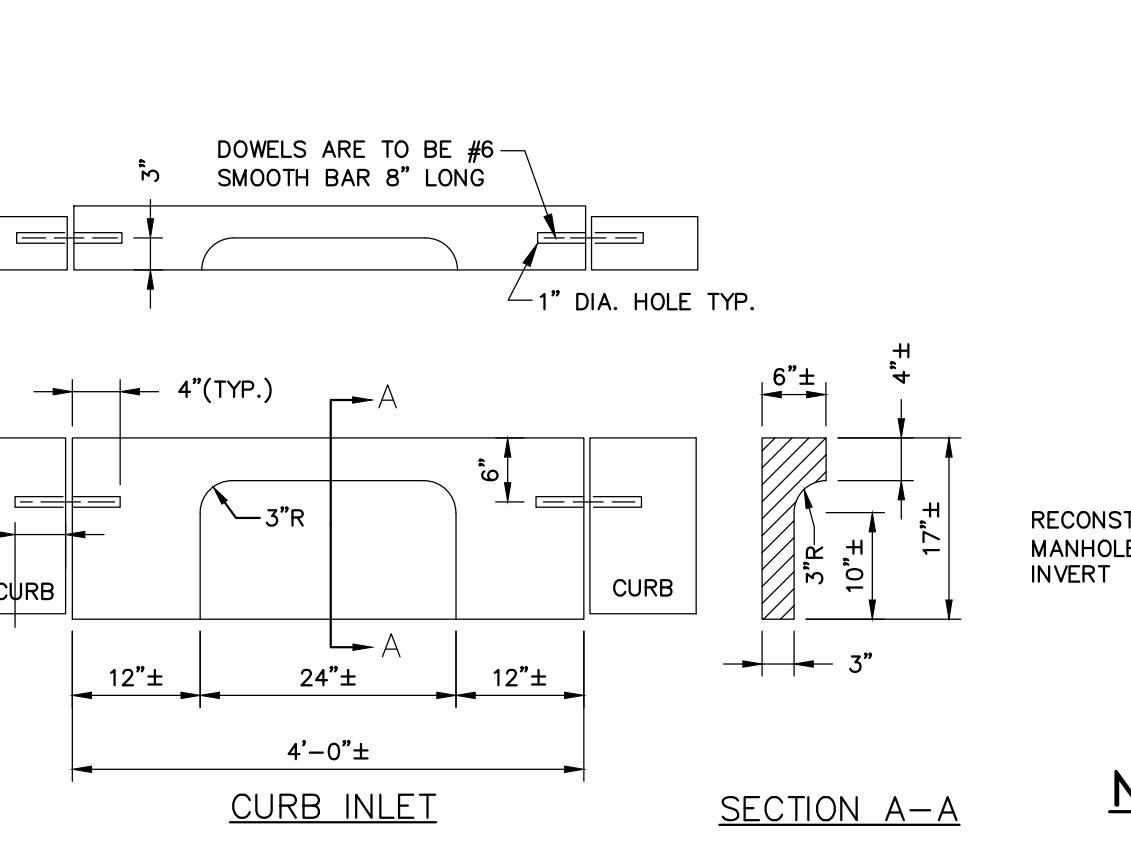
TYPICAL NEW AND RESET CURB INSTALLATION
N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

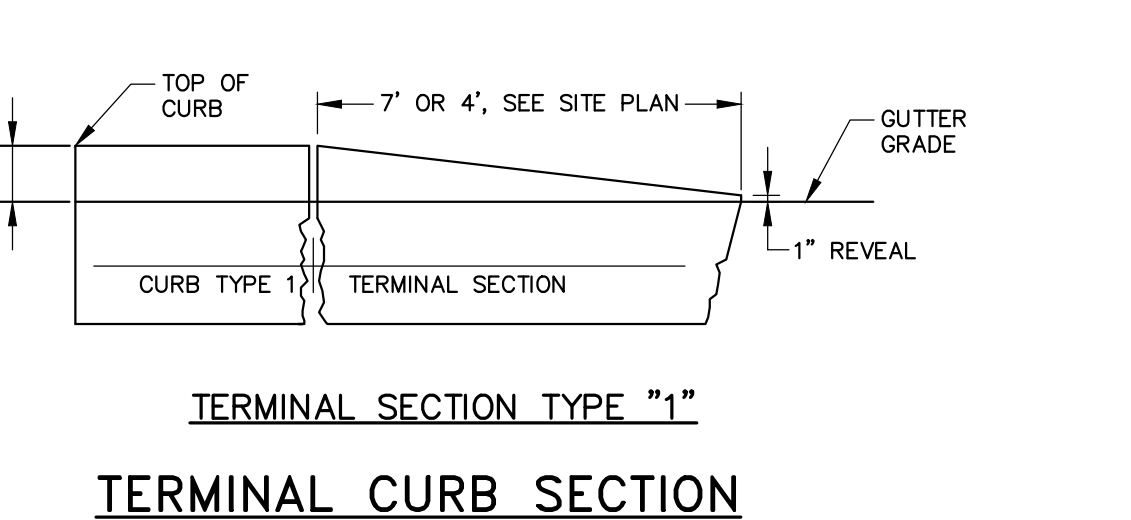
CURB TYPE 1 ON CURVES			
TYPE	RADIUS OF CURVE	LENGTH	STONE IS CUT OR CAST
1	0' TO 60' INCL.	4' MIN.	ARC TO FIT CURVE
	OVER 60' TO 160'	4' TO 6'	STRAIGHT PIECES



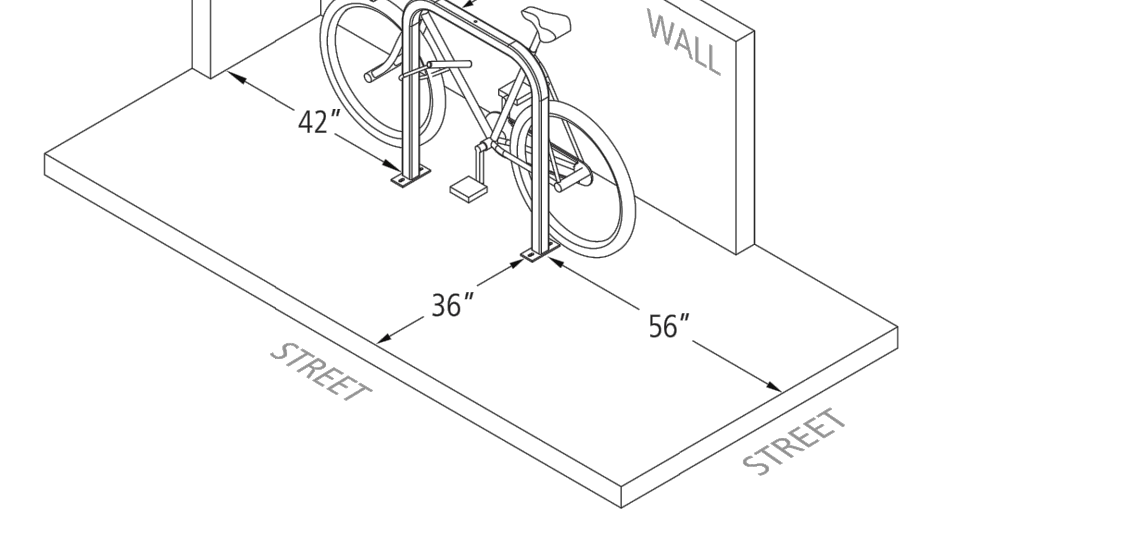
BRICK SIDEWALK DETAIL
N.T.S.



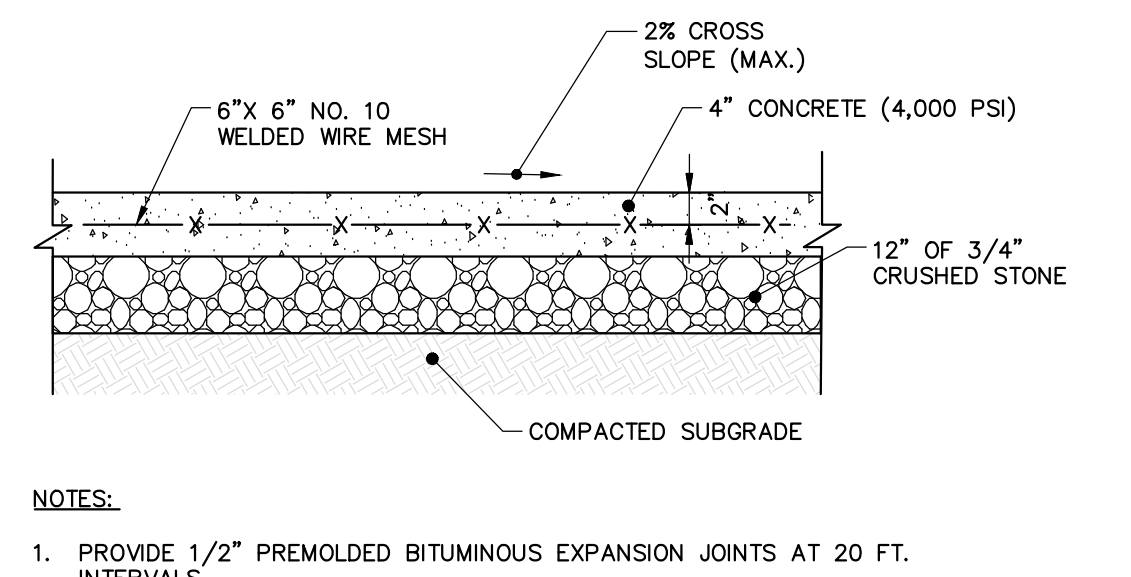
TYPE 1 GRANITE CURB INLET
N.T.S.



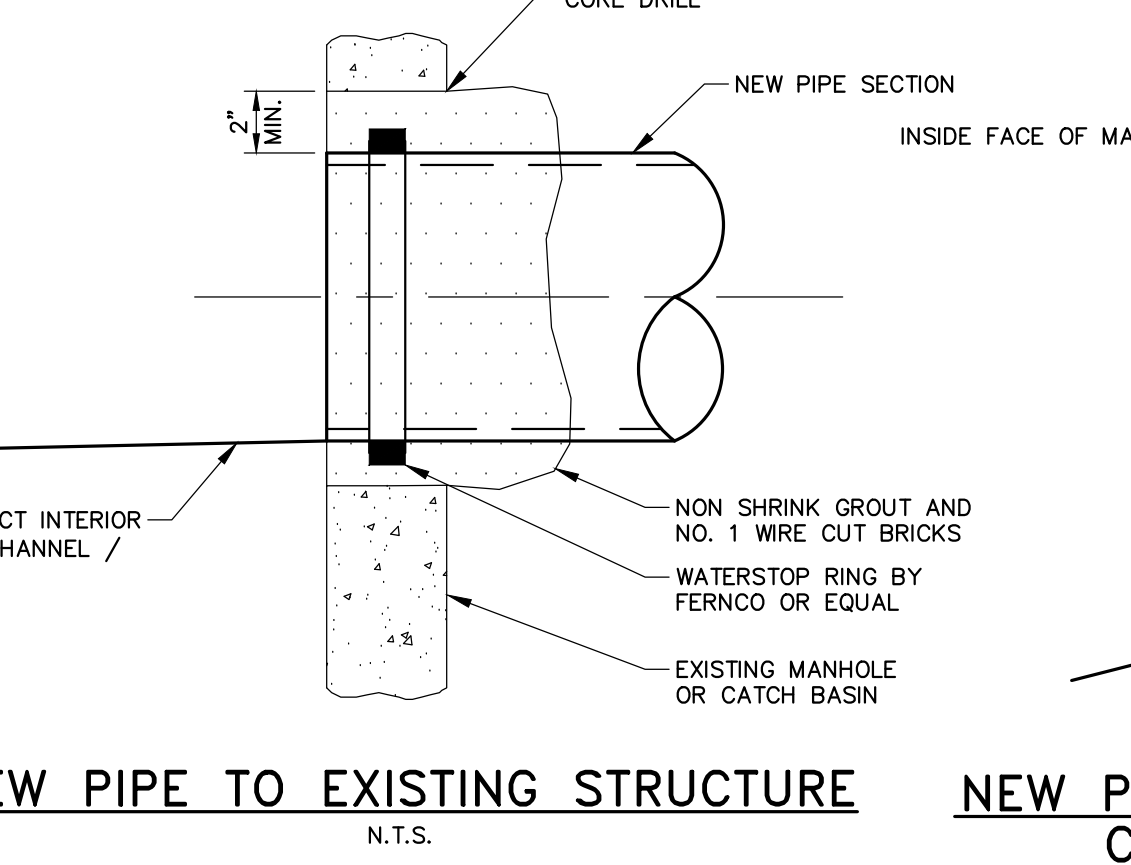
TERMINAL CURB SECTION
N.T.S.



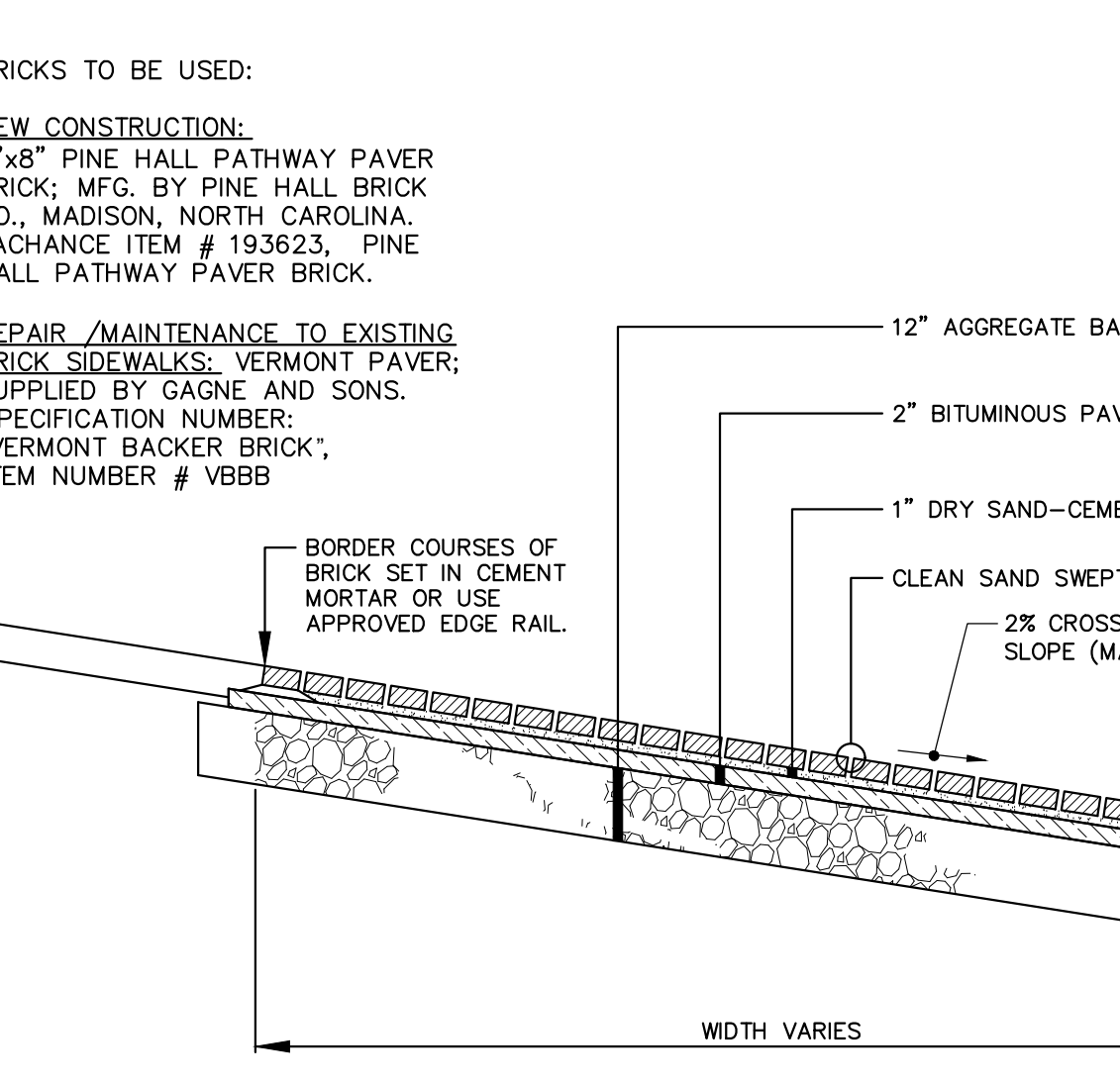
BIKE RACK DETAIL
N.T.S.



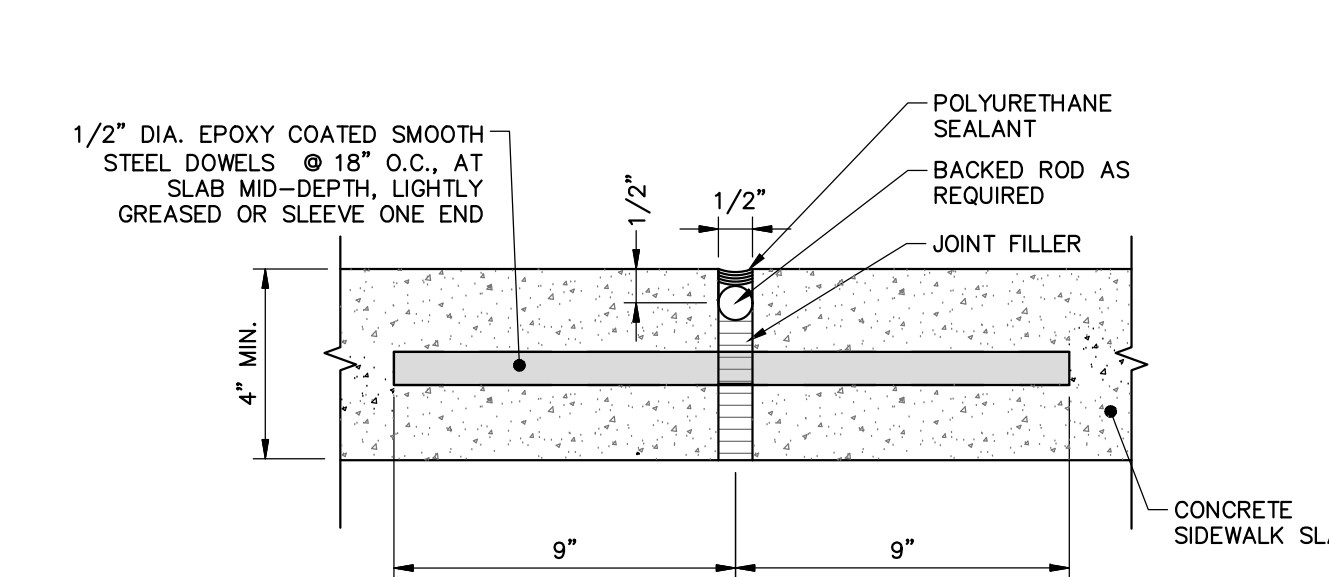
CAST-IN-PLACE CONCRETE SIDEWALK
N.T.S.



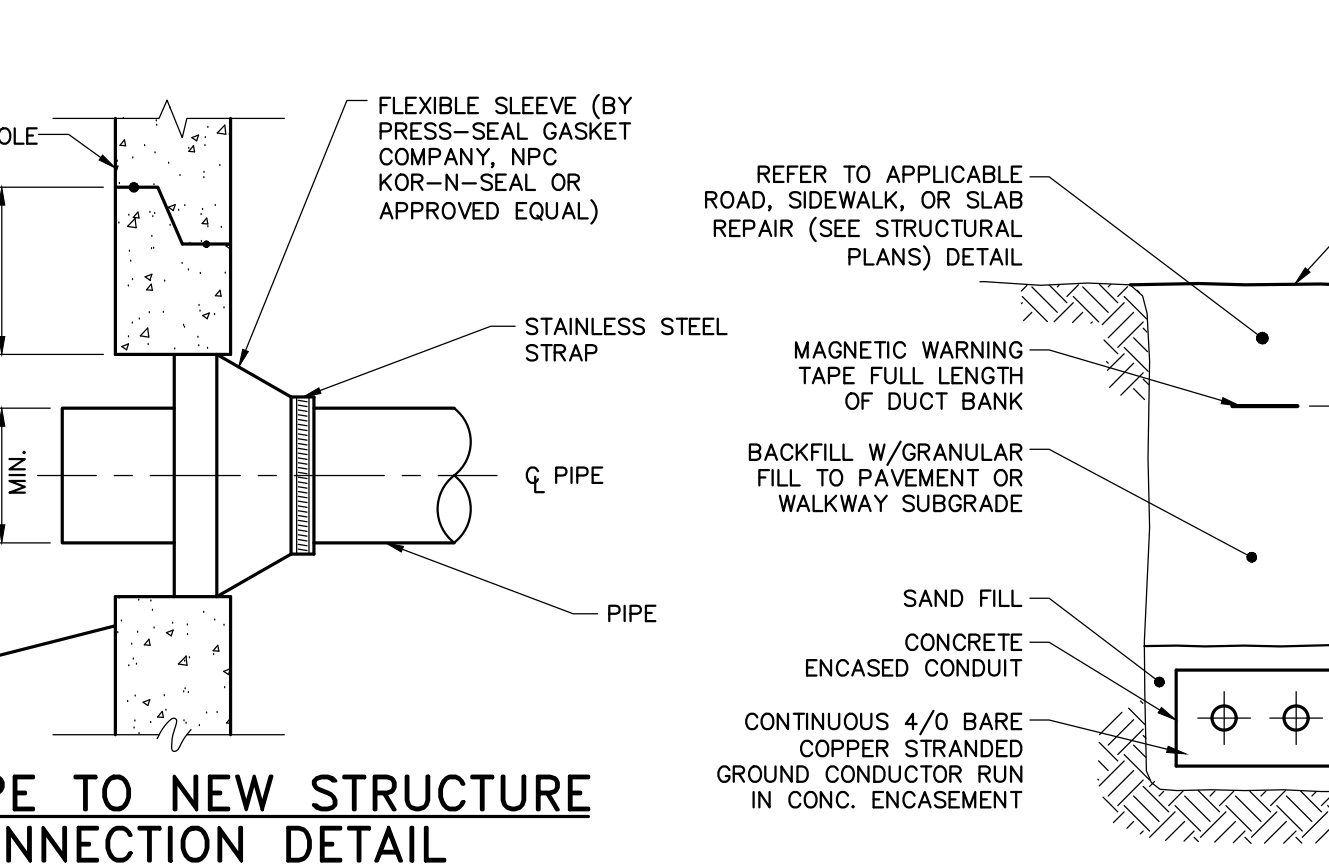
NEW PIPE TO EXISTING STRUCTURE
N.T.S.



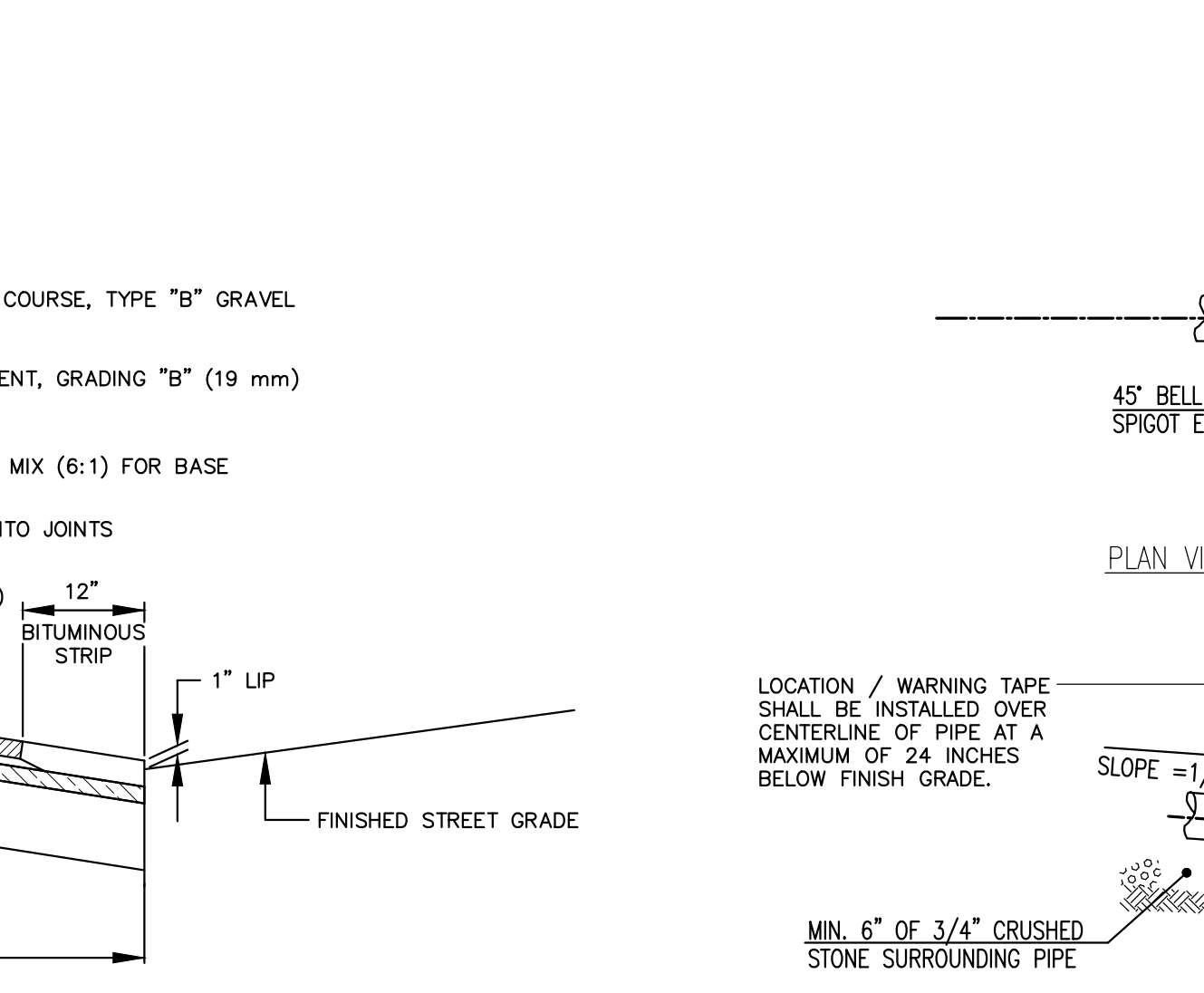
BRICK DRIVEWAY APRON WITH BITUMINOUS BASE
N.T.S.



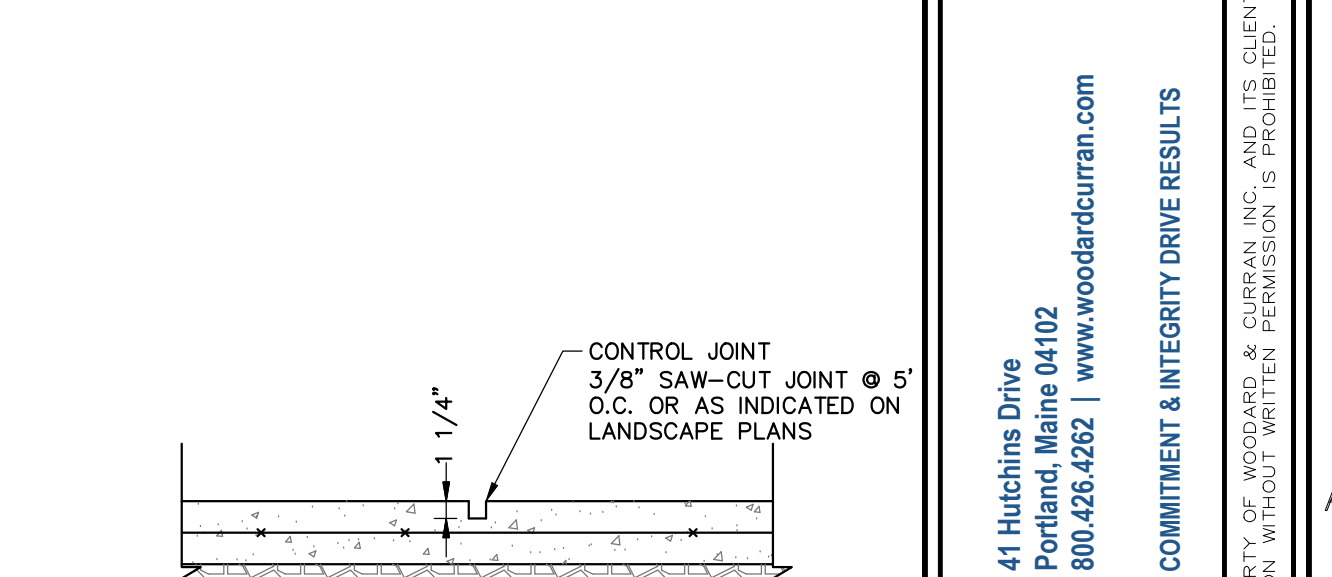
CONCRETE SIDEWALK EXPANSION JOINT
N.T.S.



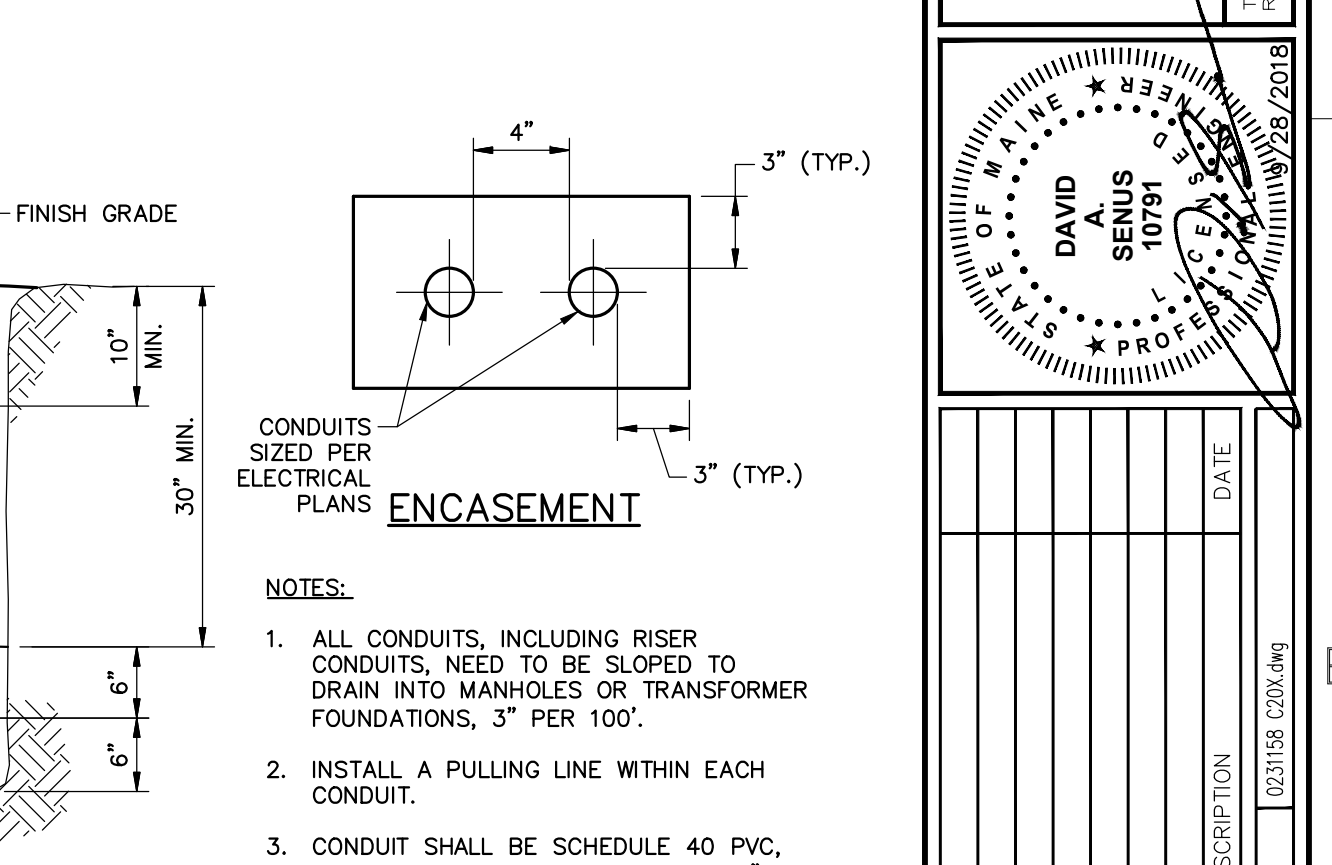
NEW PIPE TO NEW STRUCTURE CONNECTION DETAIL
N.T.S.



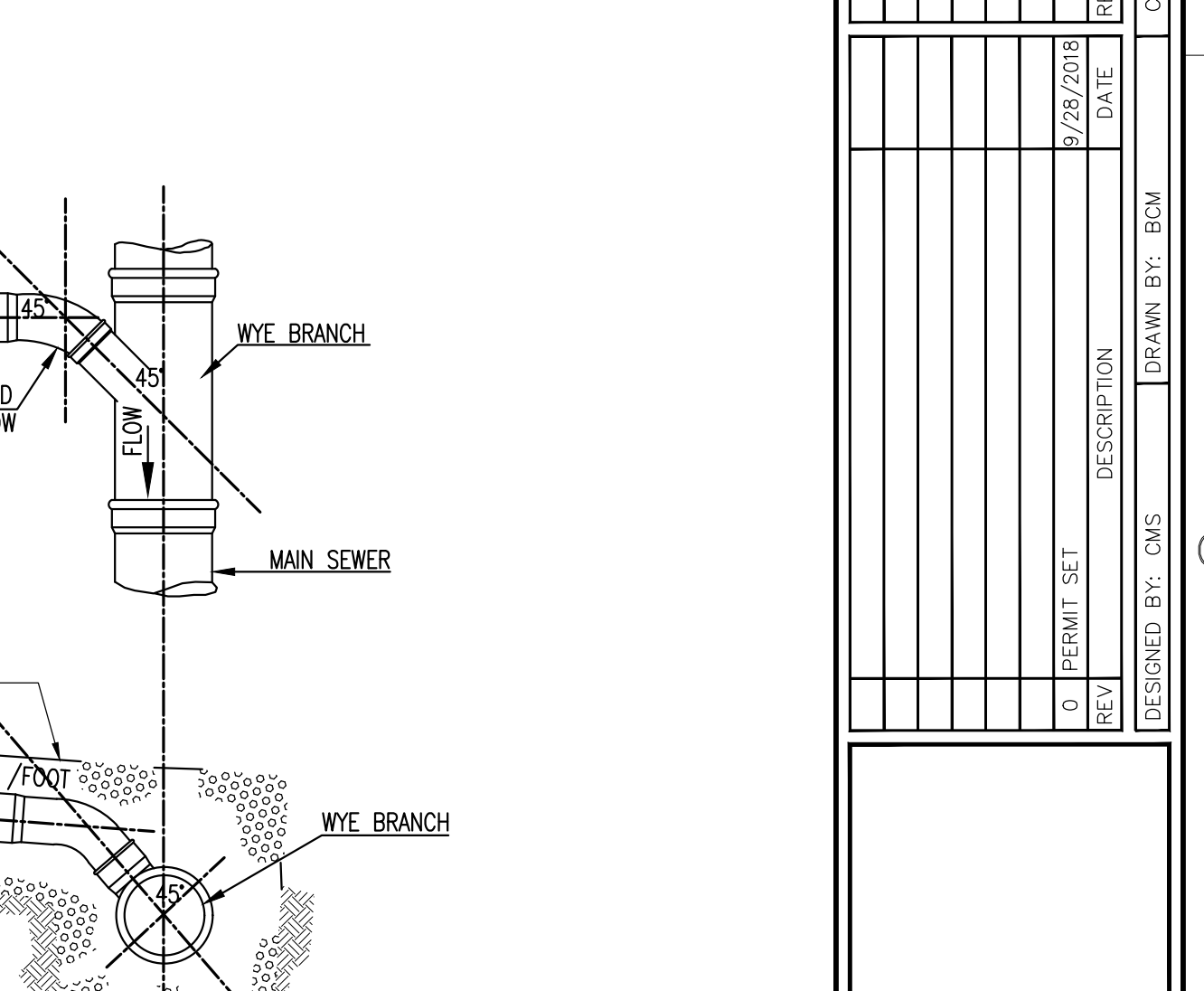
TRENCH BURIED ELECTRICAL CONDUIT DETAIL
N.T.S.



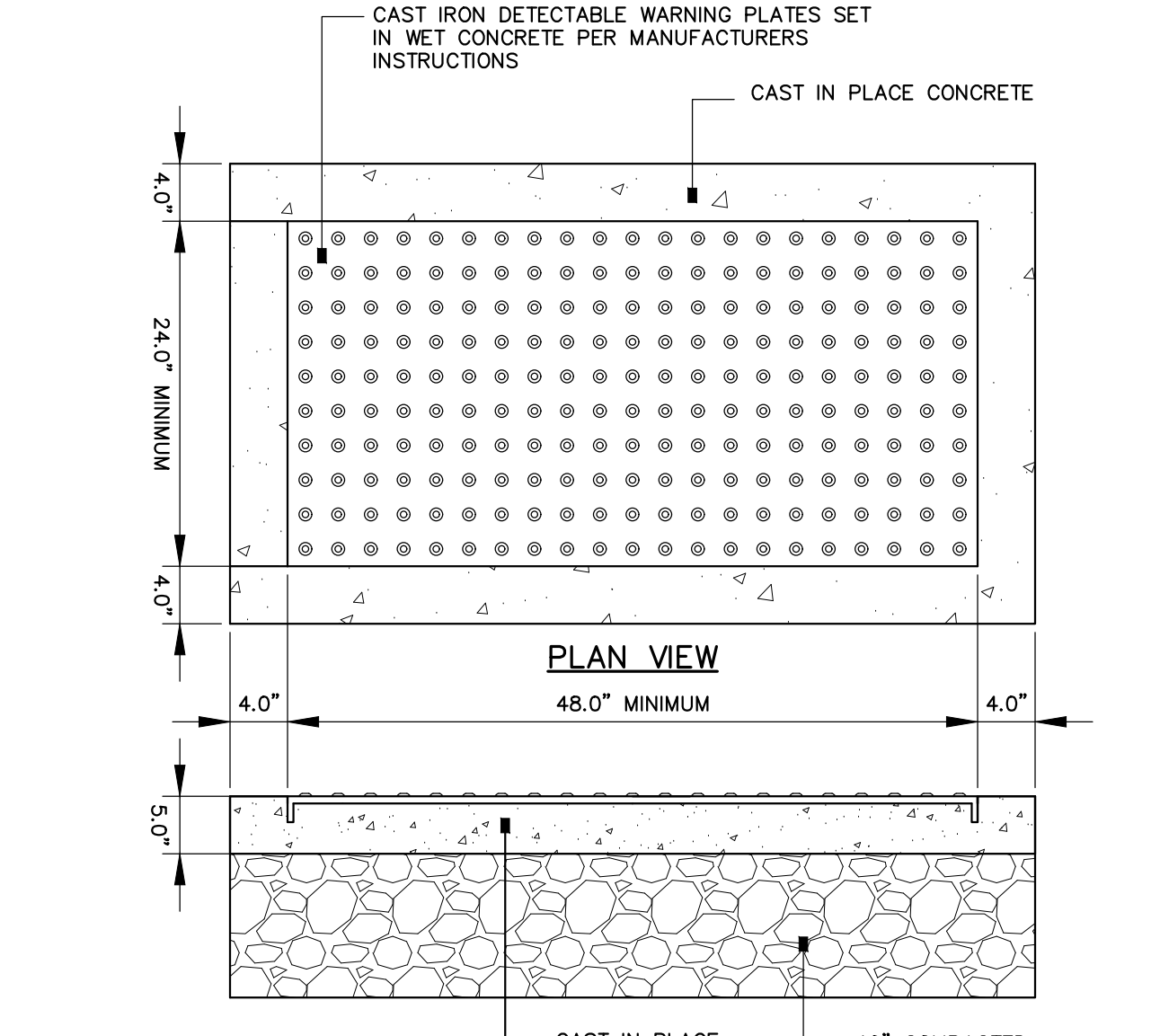
SIDEWALK CONTROL JOINT
N.T.S.



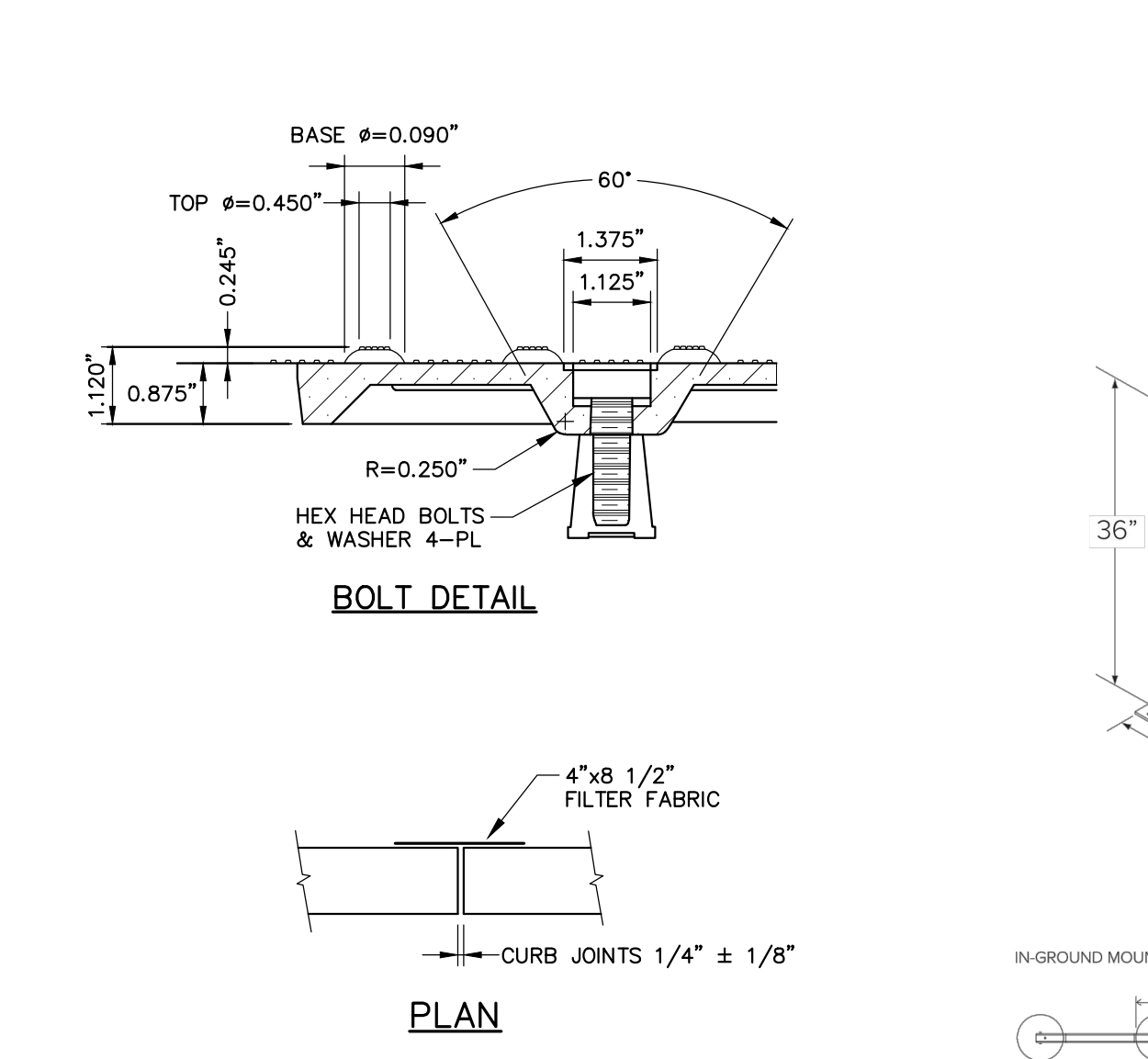
ENCASUREMENT
N.T.S.



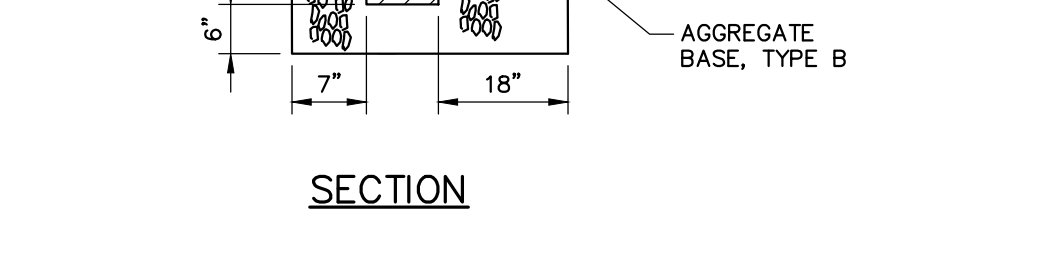
TYPICAL SEWER LATERAL WYE CONNECTION DETAILS
N.T.S.



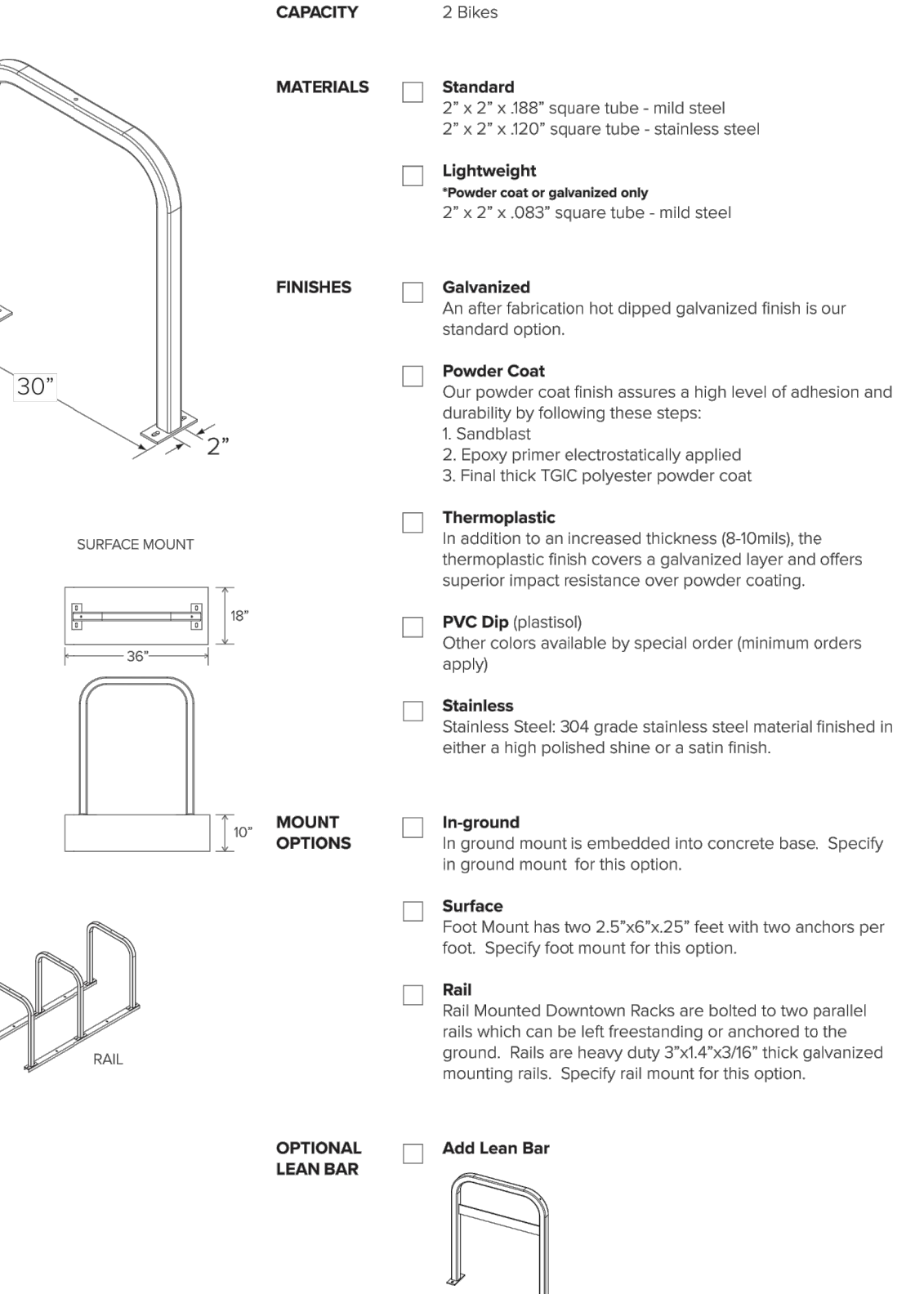
SIDEWALK RAMP DETECTABLE WARNING
N.T.S.



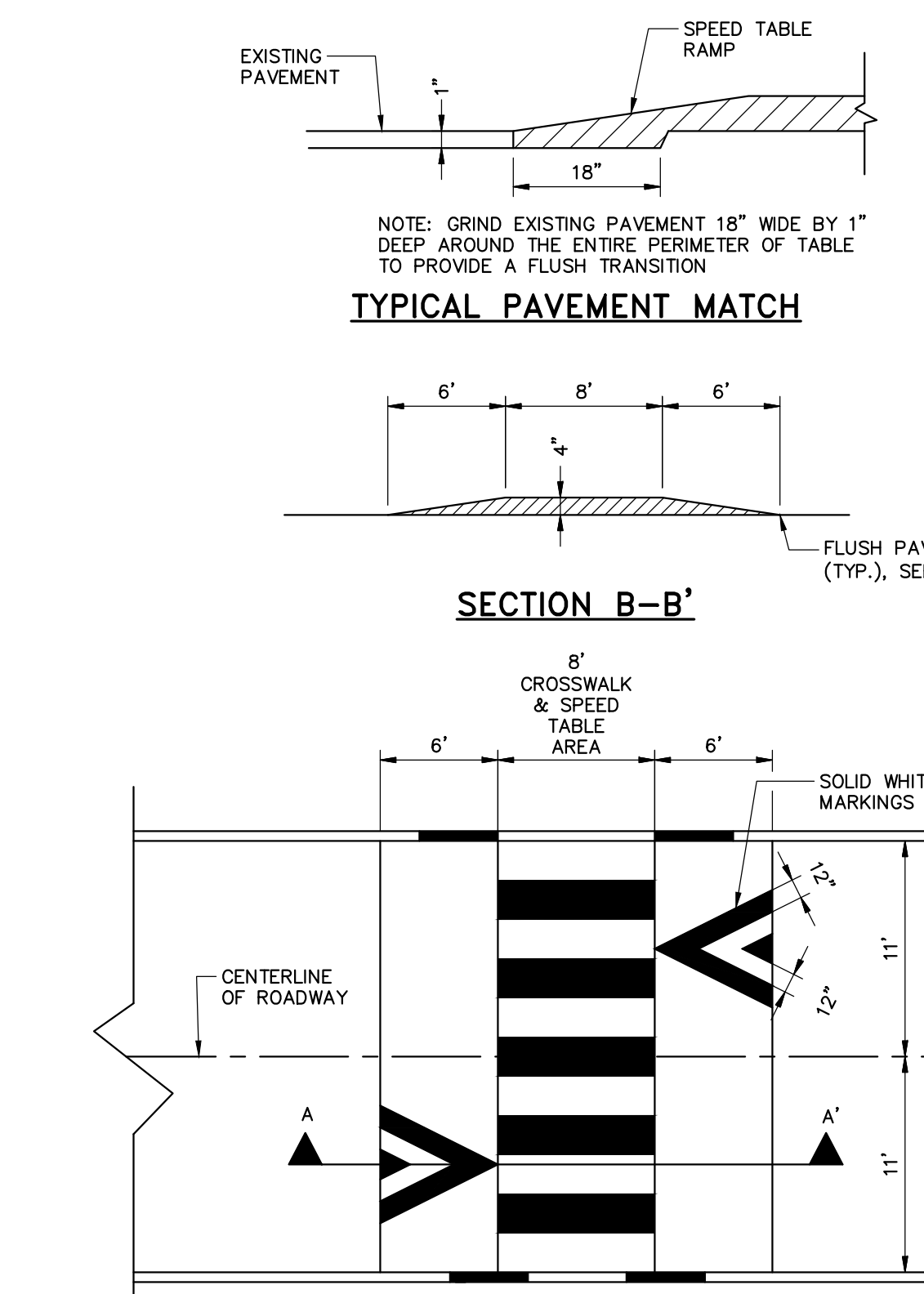
TYPICAL FLUSH CURB INSTALLATION
N.T.S.



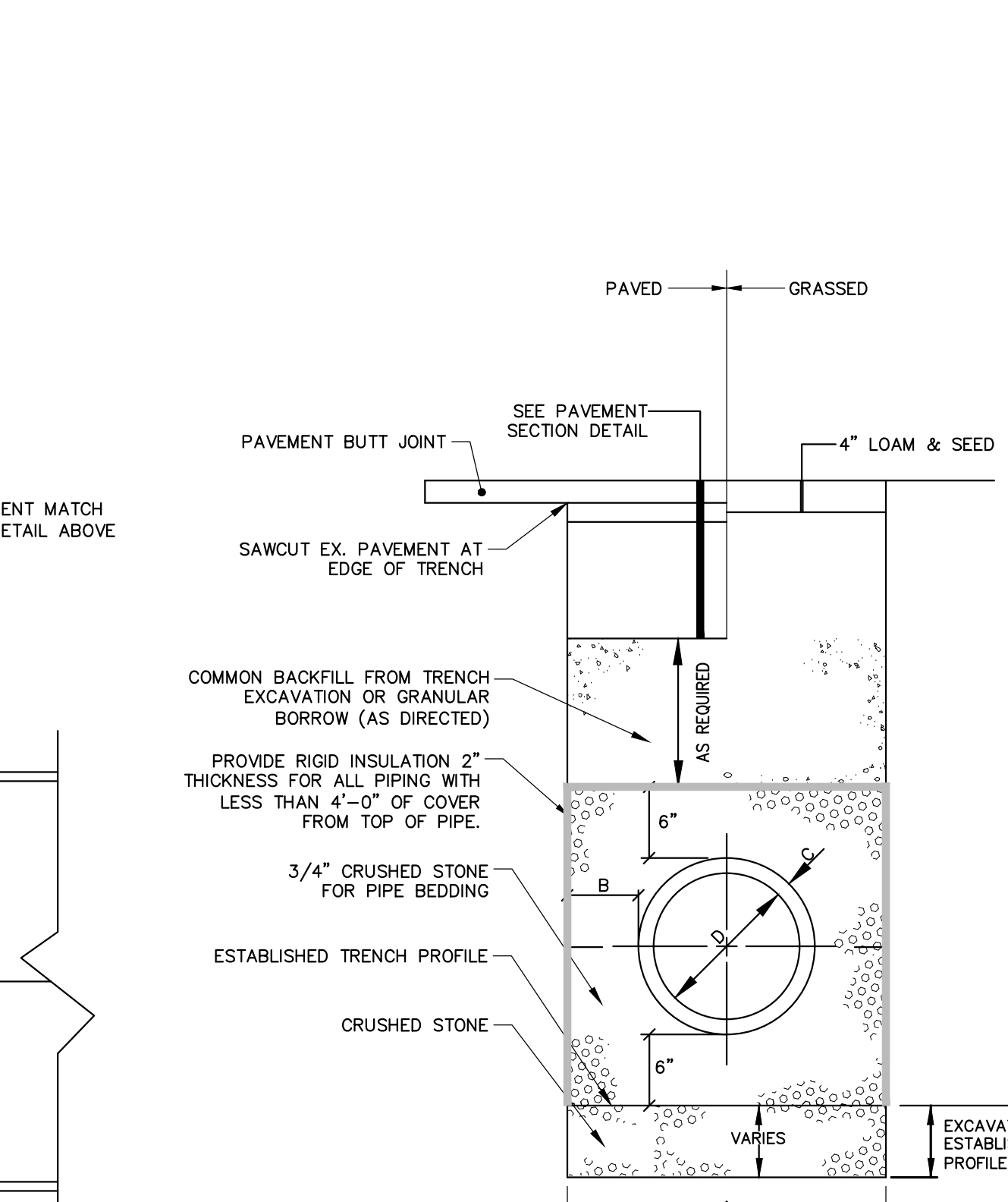
PIPE INSTALLATION DETAIL - NOTES
N.T.S.



SPEED TABLE DETAIL
N.T.S.



TYPICAL PAVEMENT MATCH
N.T.S.



PIPE INSTALLATION DETAIL
N.T.S.

1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION "B" SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE, BUT IN ALL CASES "B" SHALL BE AT LEAST 9".
4. DIMENSION "A" SHALL BE BASED ON PIPE DIAMETER, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, "D" (INCHES)	MAX. TRENCH WIDTH, "A" (FEET)
6	4.0
8	4.0
10	4.0
12	4.0
15	4.0
18	5.0
21	5.0
24	5.5
27	6.0
30	6.0
36	7.0
42	8.0
48	8.0

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COMMITMENT & INTEGRITY DRIVE RESULTS

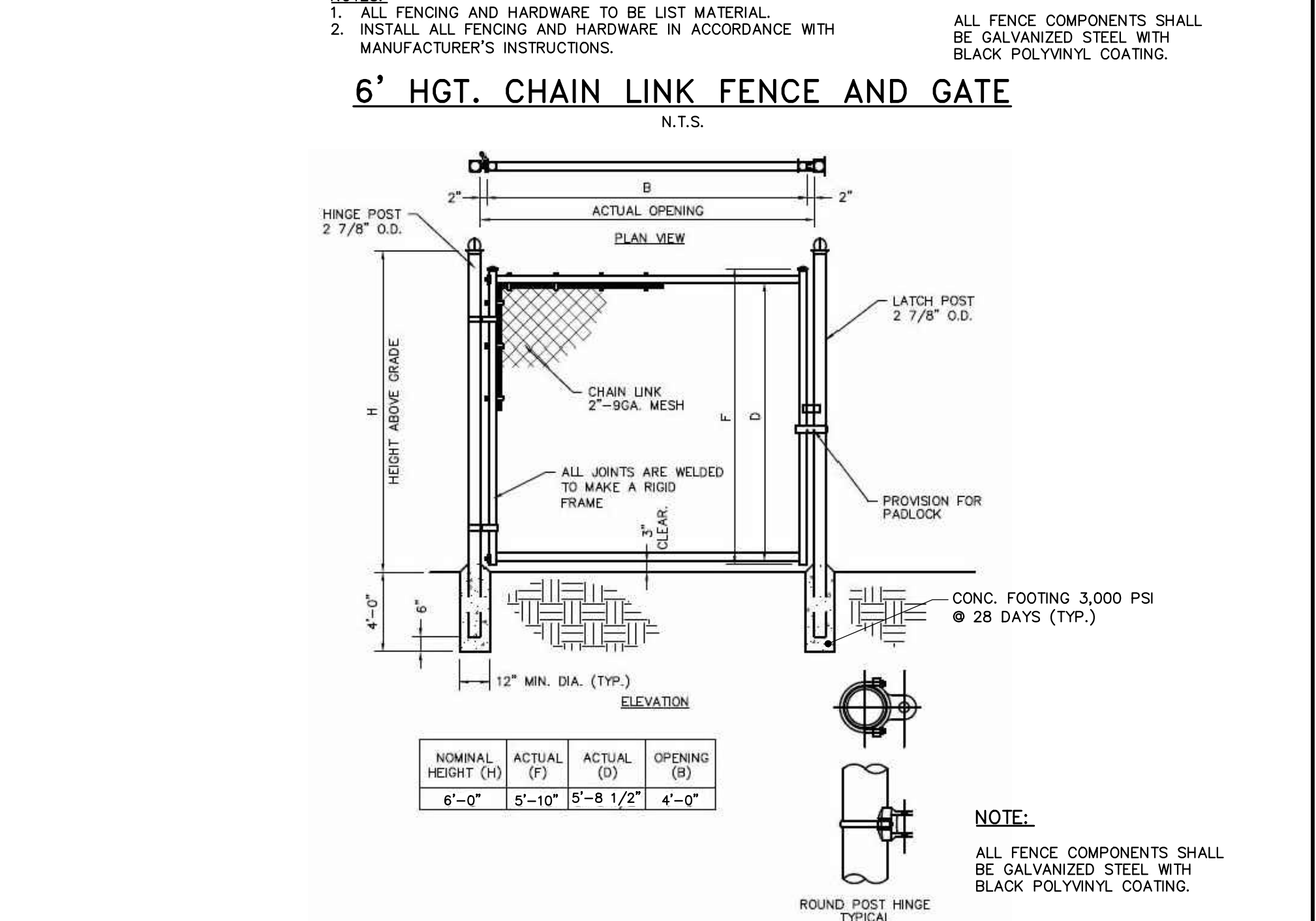
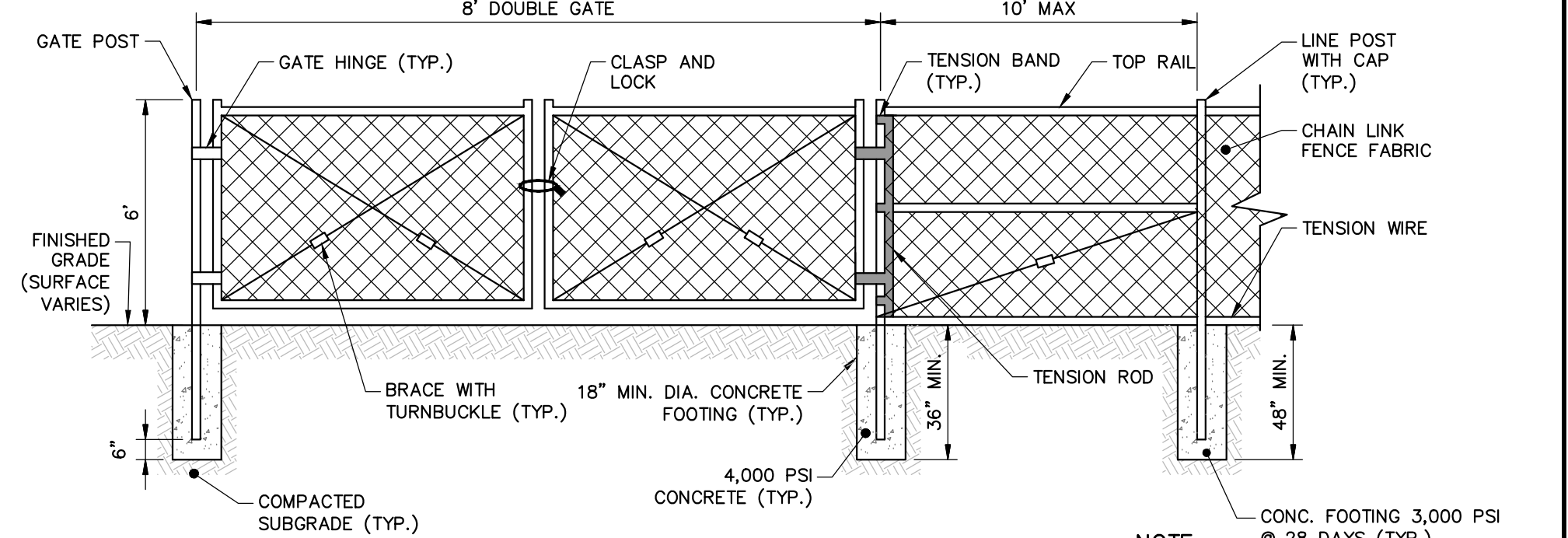
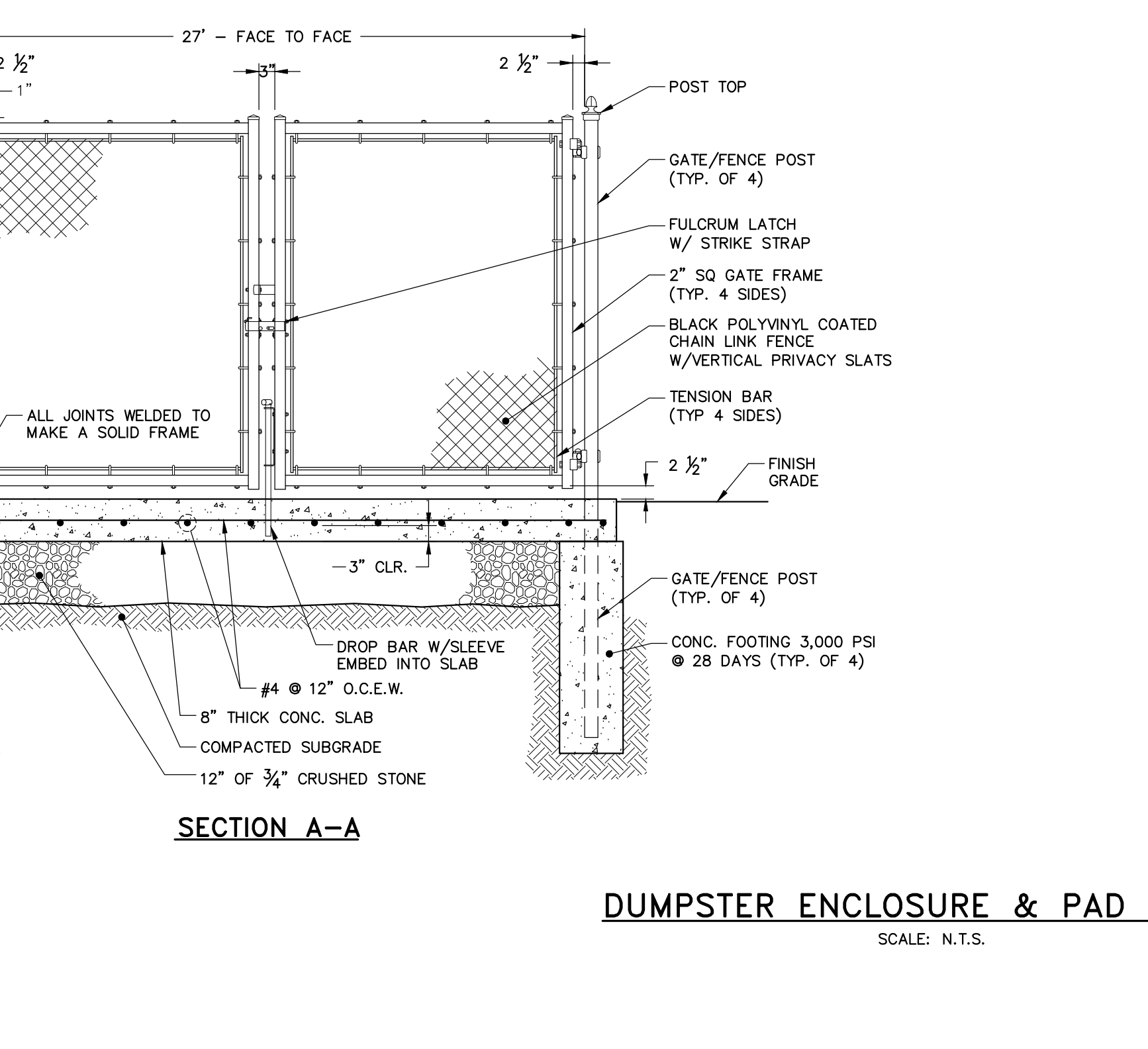
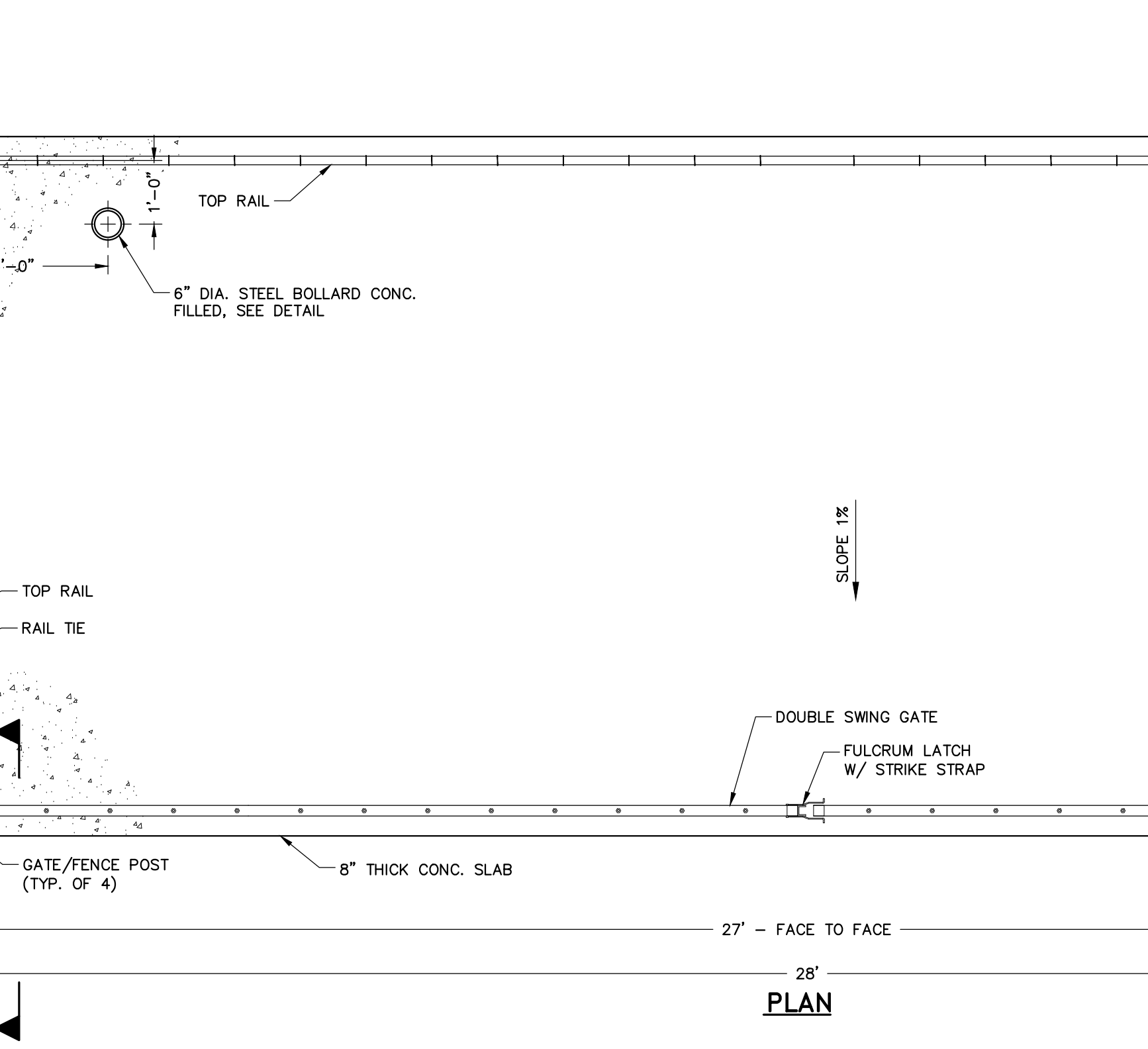
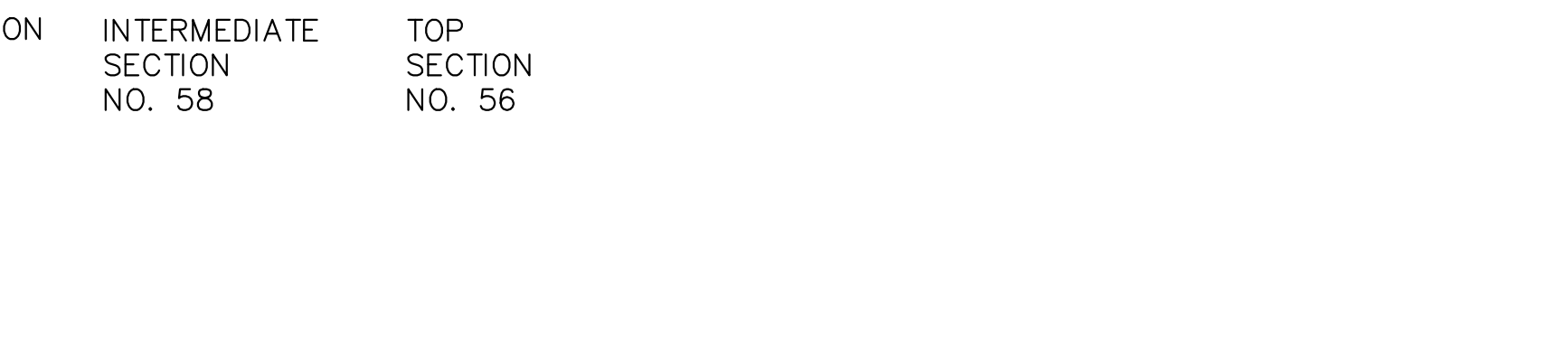
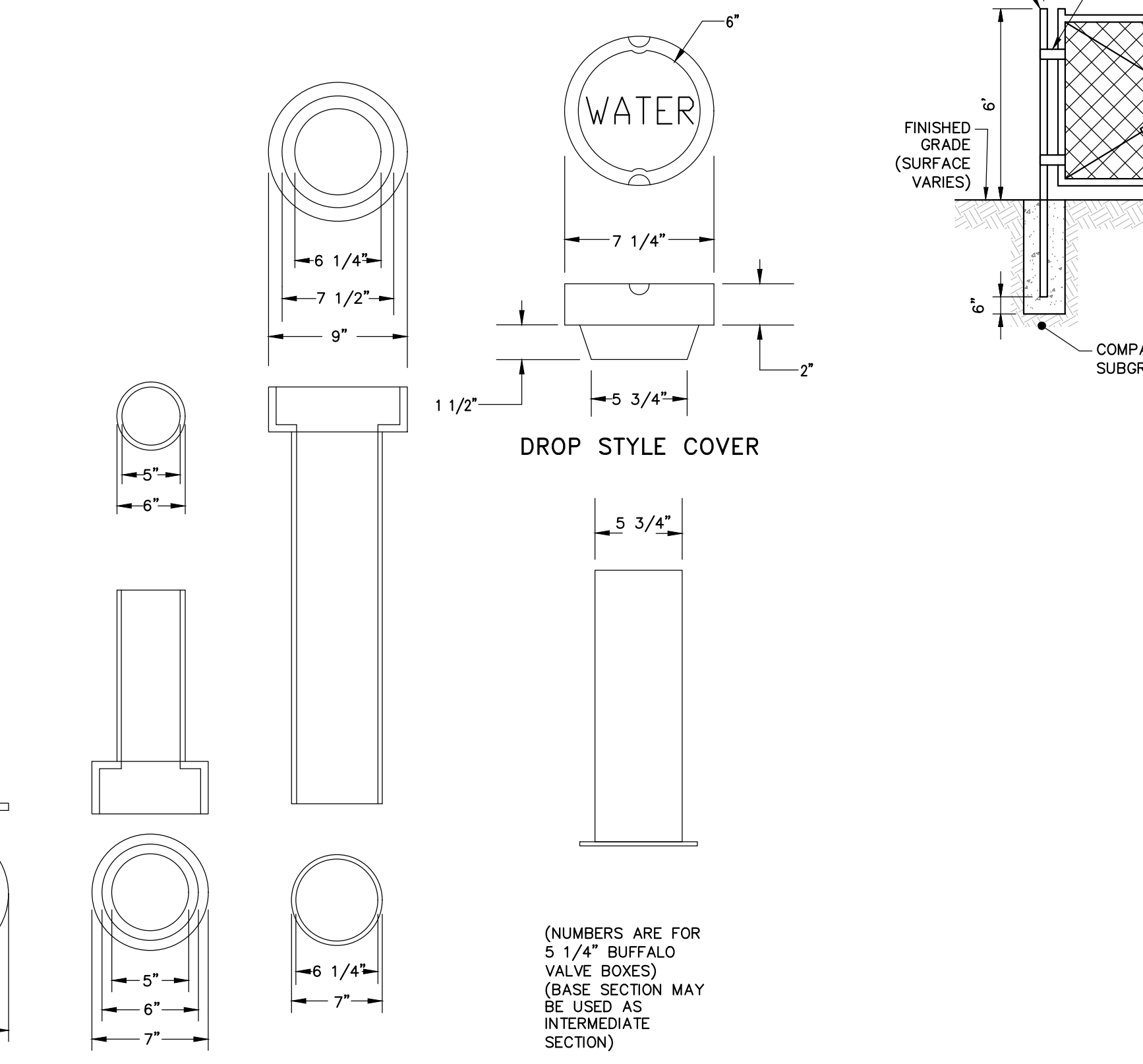
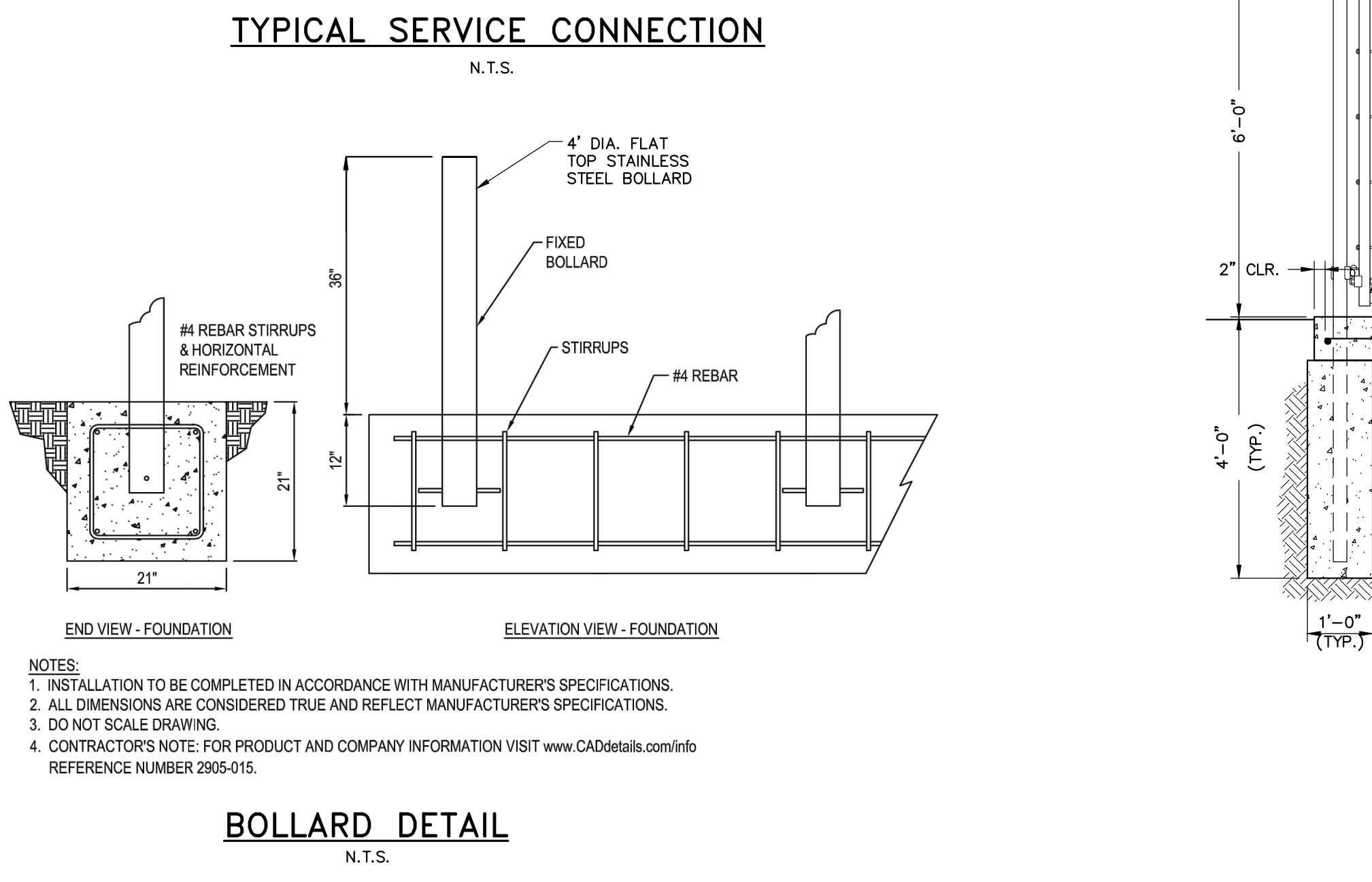
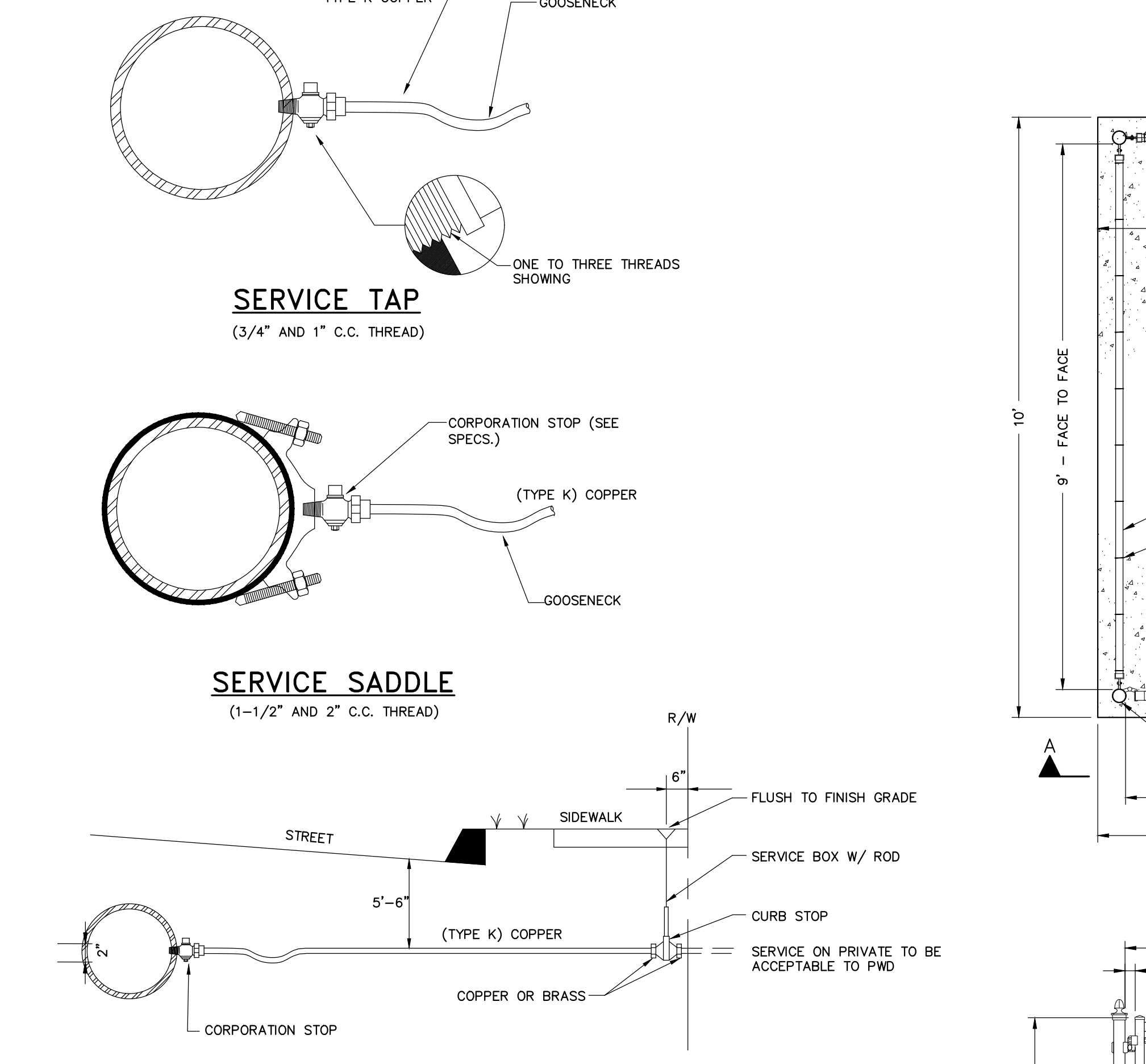
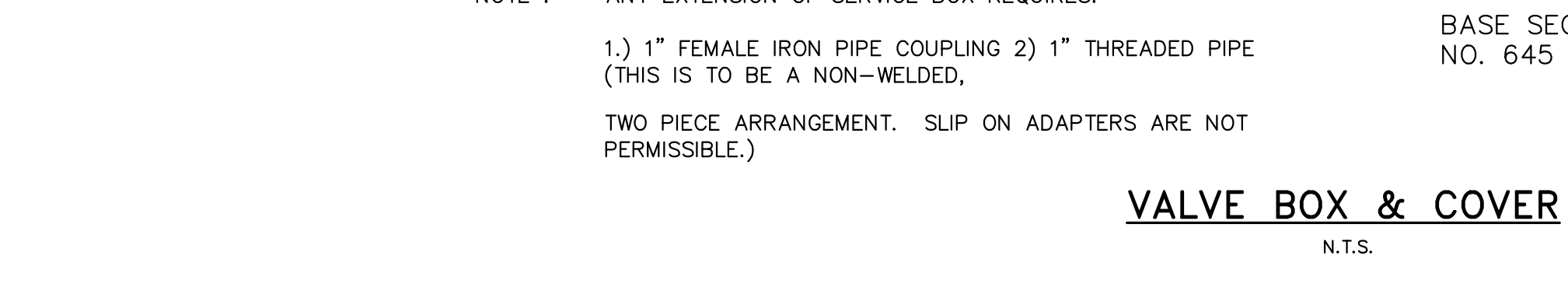
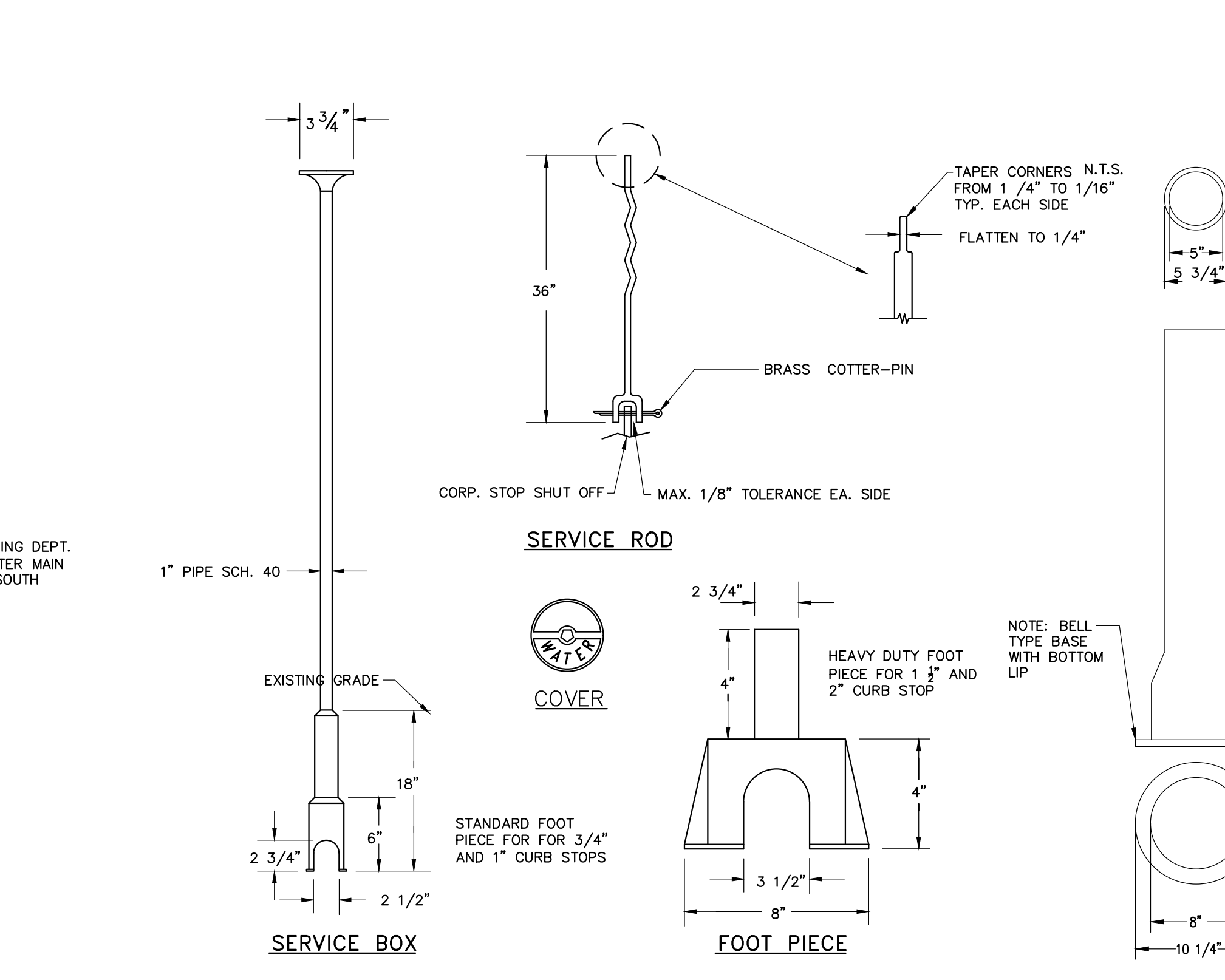
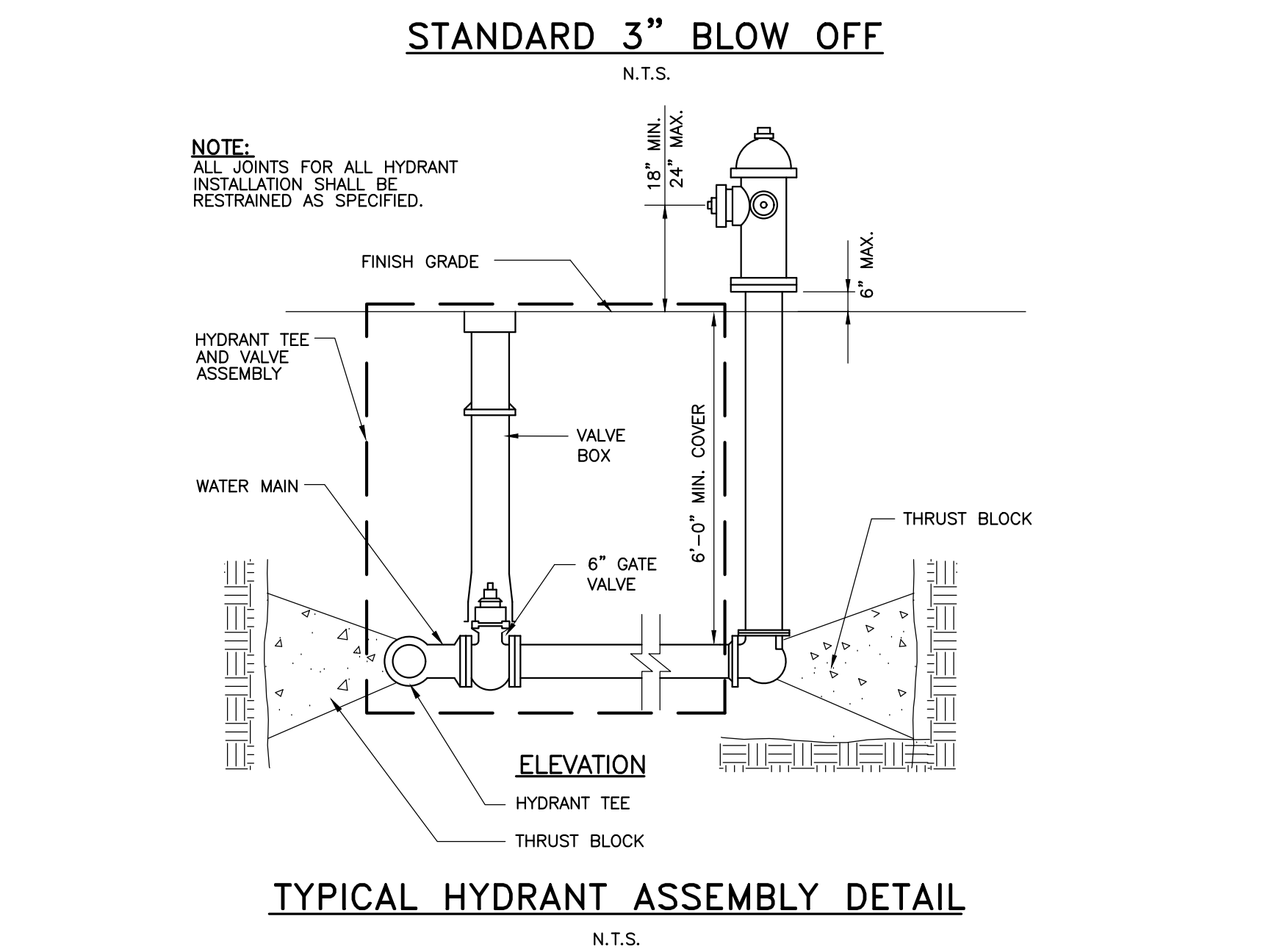
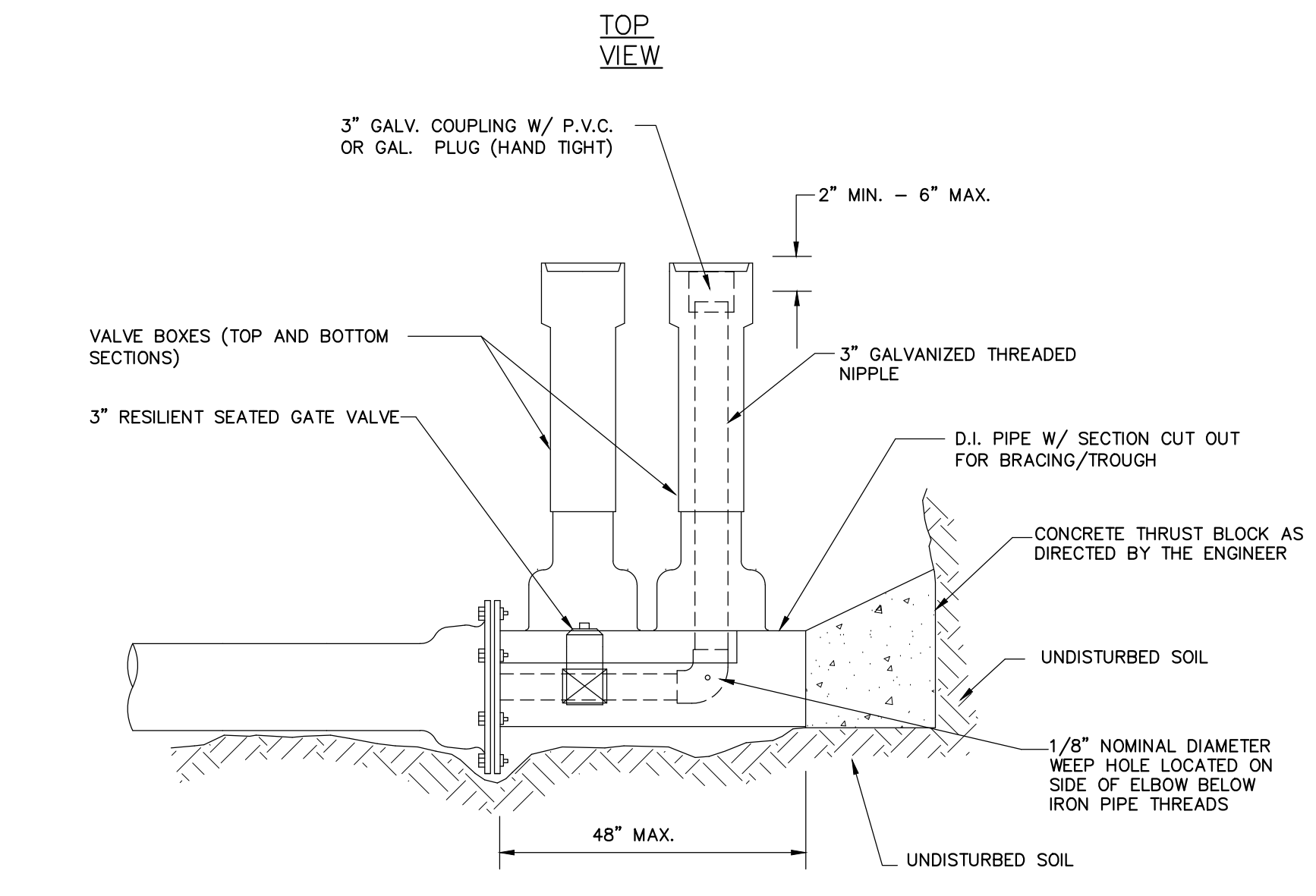
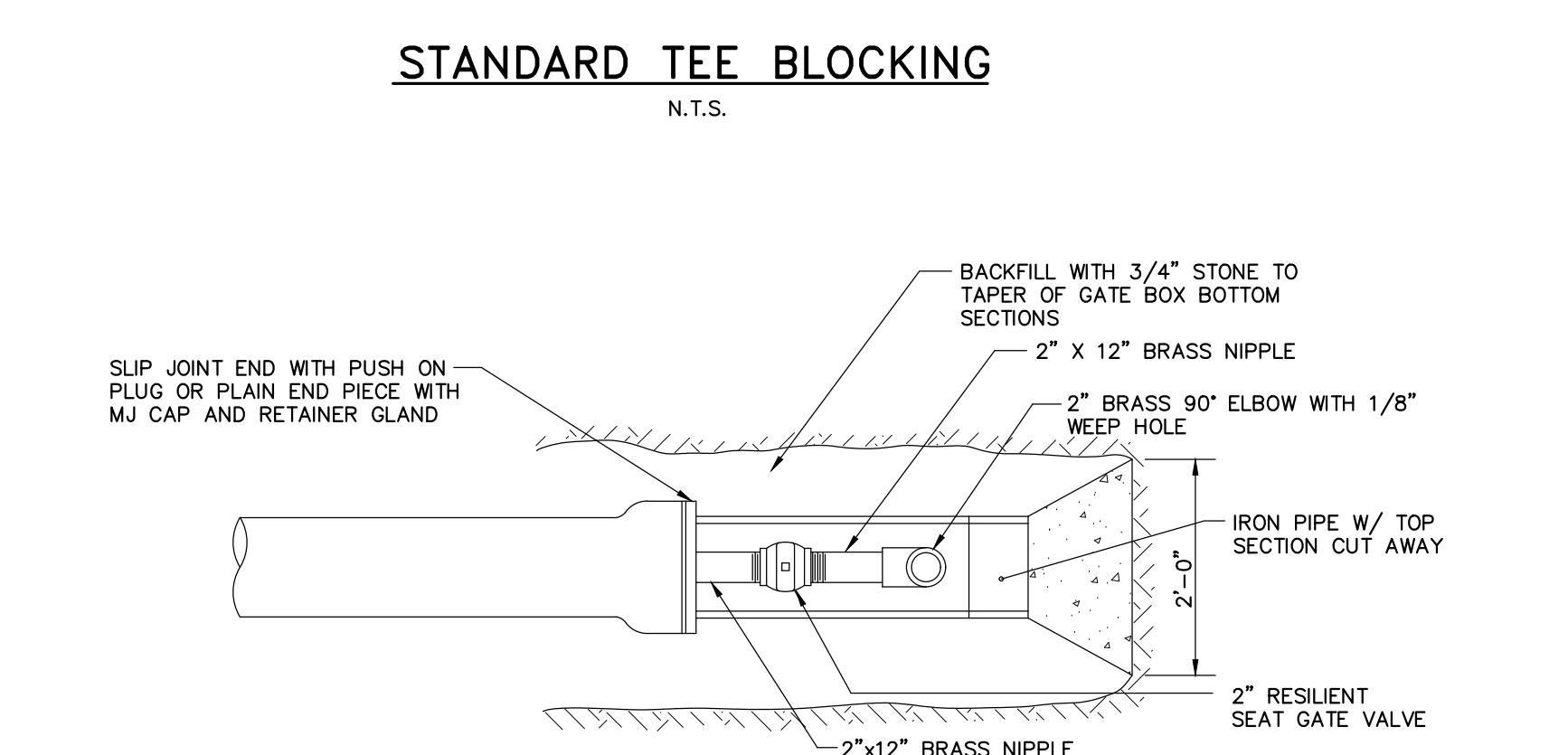
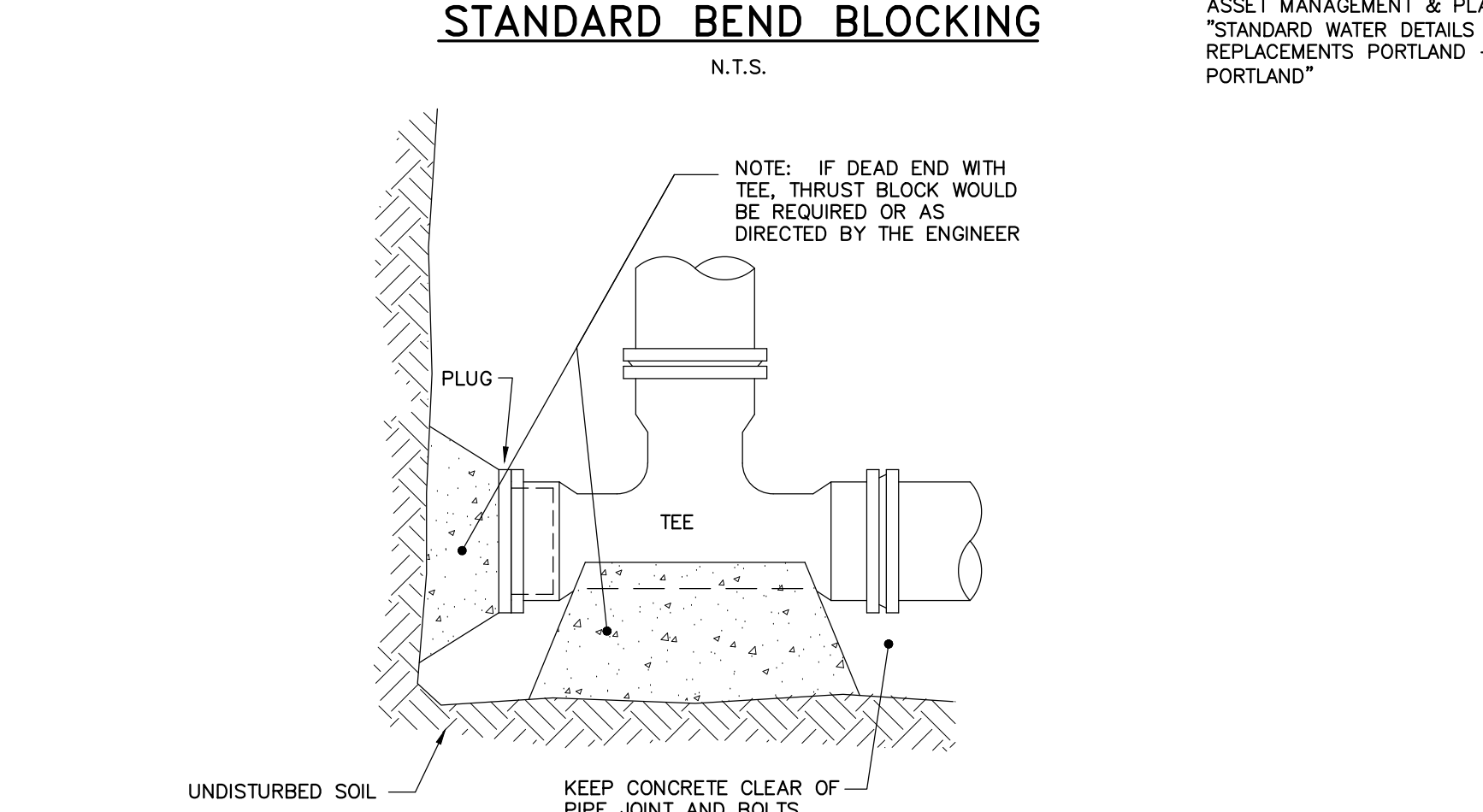
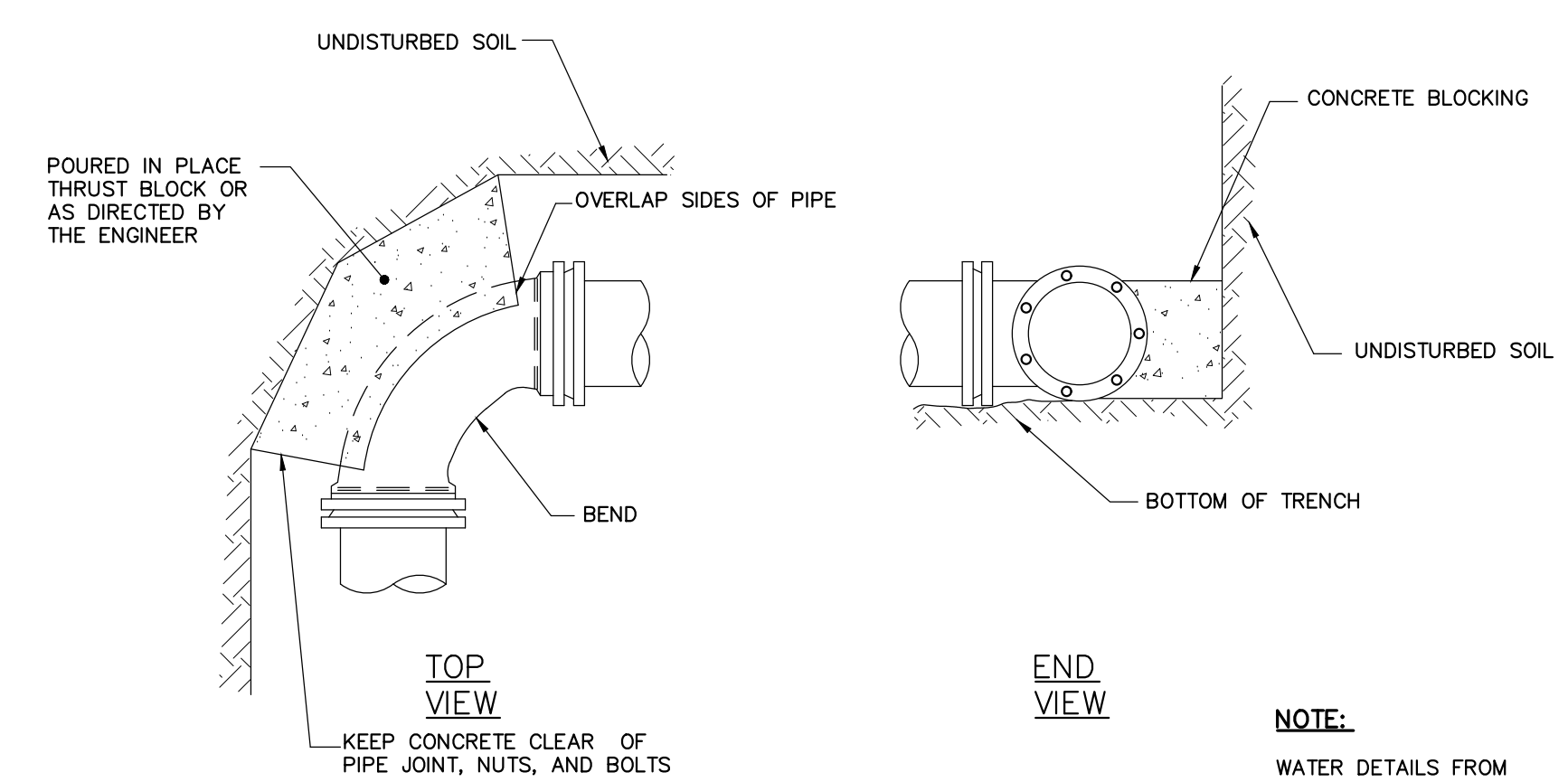
MAINE MEDICAL CENTER
BRANHALL STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

DESIGNED BY: GMS | DRAWN BY: BCW | CHECKED BY: C-202 | DATE: 8/28/2018

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 14 OF 18

C-202



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DAVID A. SENUS
PROFESSIONAL ENGINEER
LICENSE NO. 10001
EXPIRES 12/31/2018

NO.	PERMIT SET	DATE	DESCRIPTION	BY	CHKD
1		8/28/2018			

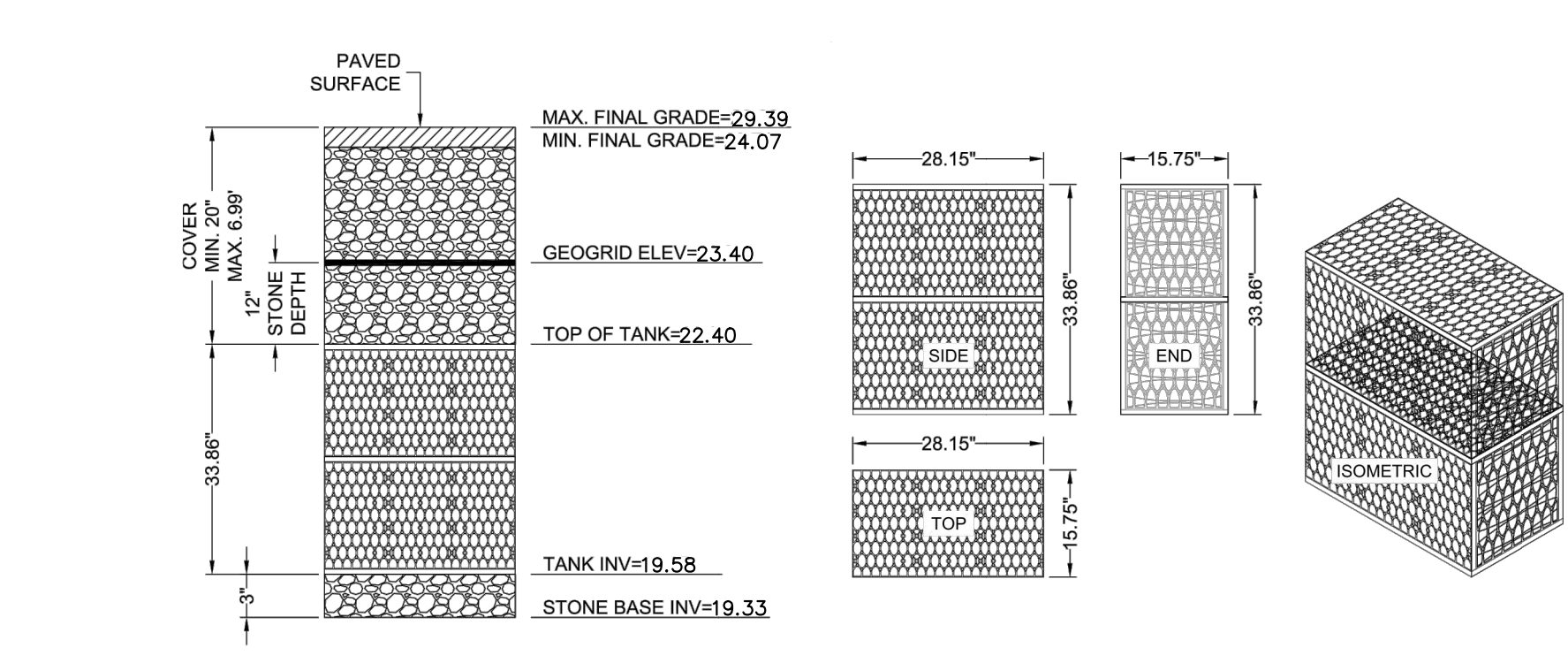
DESIGNED BY: DMS
DRAWN BY: BCW
CHECKED BY: C-203
DATE: 03/19/2019

MAINE MEDICAL CENTER
BRANFILL STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 15 OF 18

C-203

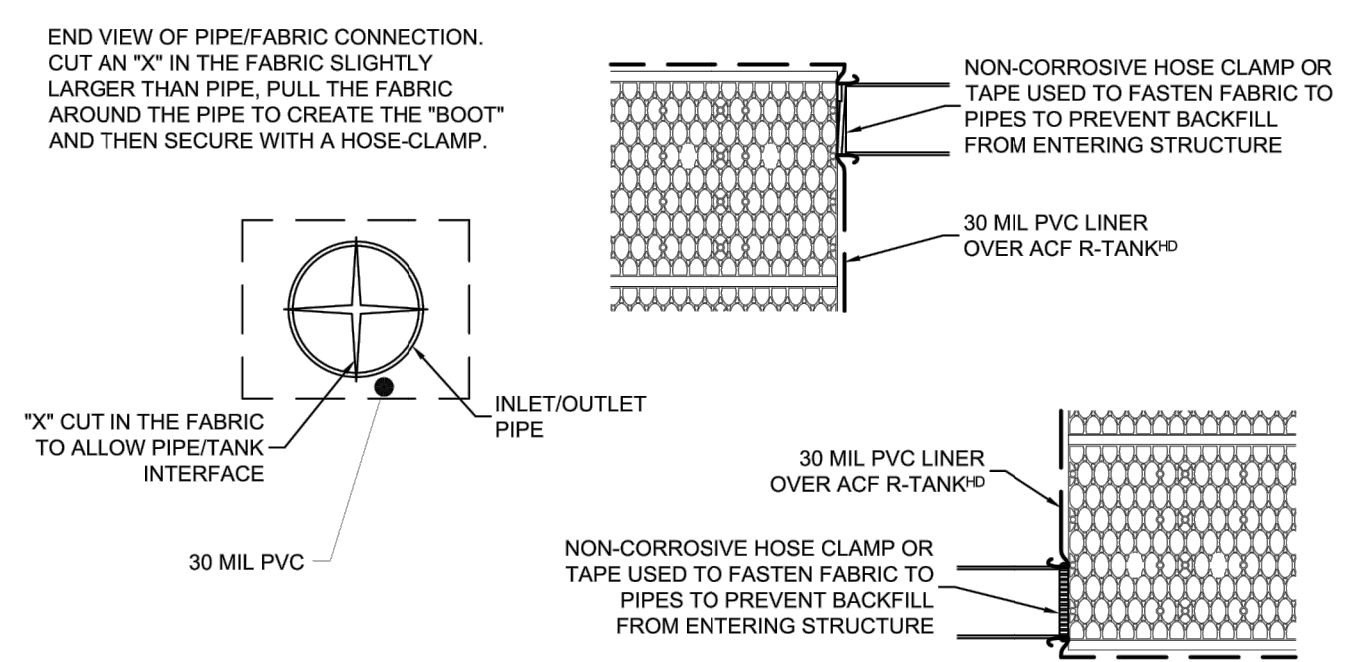


DOUBLE R-TANKHD-ELEVATION N.T.S.

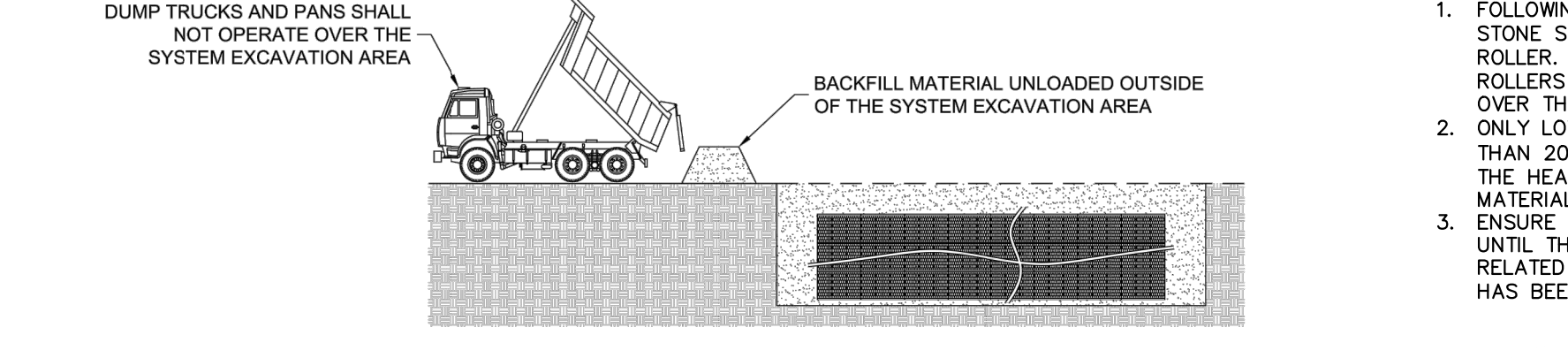
MODULE DATA

GEOMETRY:	LOAD RATING:
LENGTH = 28.15 IN. (715 MM)	33.4 PSI (MODULE ONLY)
WIDTH = 15.75 IN. (400 MM)	HS20 (WITH ACF COVER SYSTEM)
HEIGHT = 33.86 IN. (860 MM)	MATERIAL:
TANK VOLUME = 8.69 CF	100% RECYCLED POLYPROPYLENE
STORAGE VOLUME = 8.25 CF	SMALL PLATES PER SEGMENT/TOTAL:
VOID INTERNAL VOLUME: 90%	5/10
VOID SURFACE AREA: 90%	

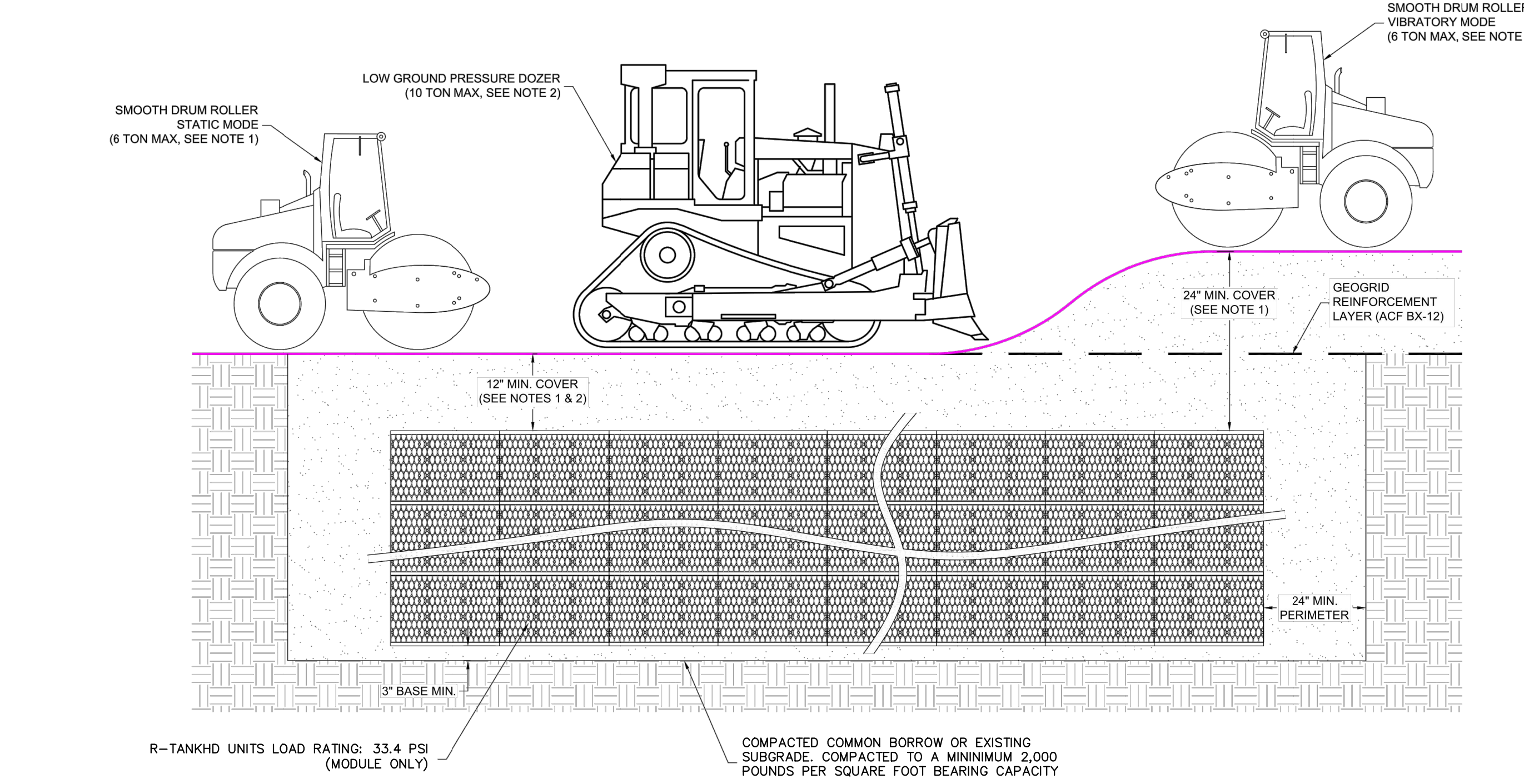
DOUBLE R-TANKHD-MODULE DETAIL N.T.S.



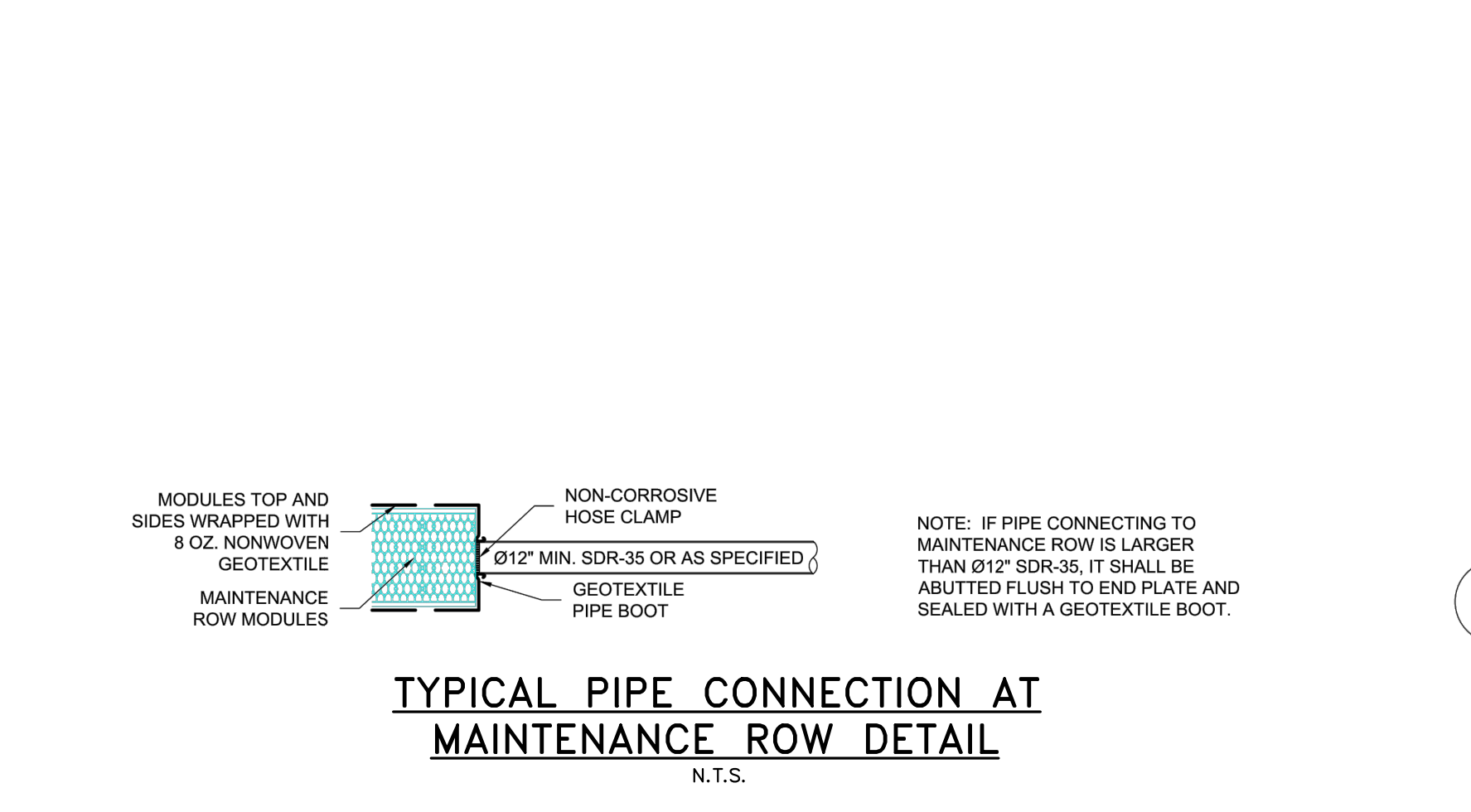
DOUBLE R-TANKHD TYPICAL INLET/OUTLET DETAIL N.T.S.



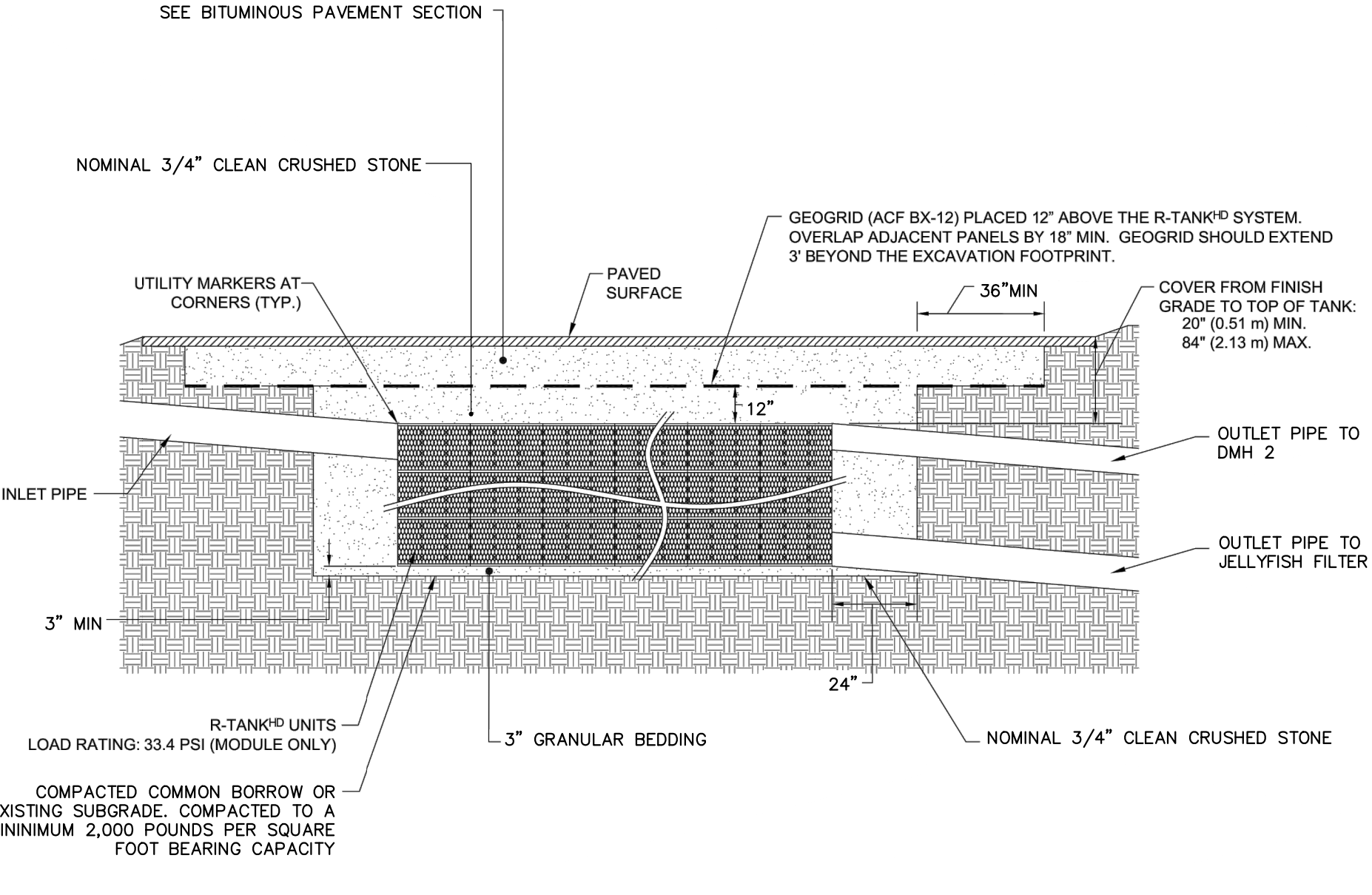
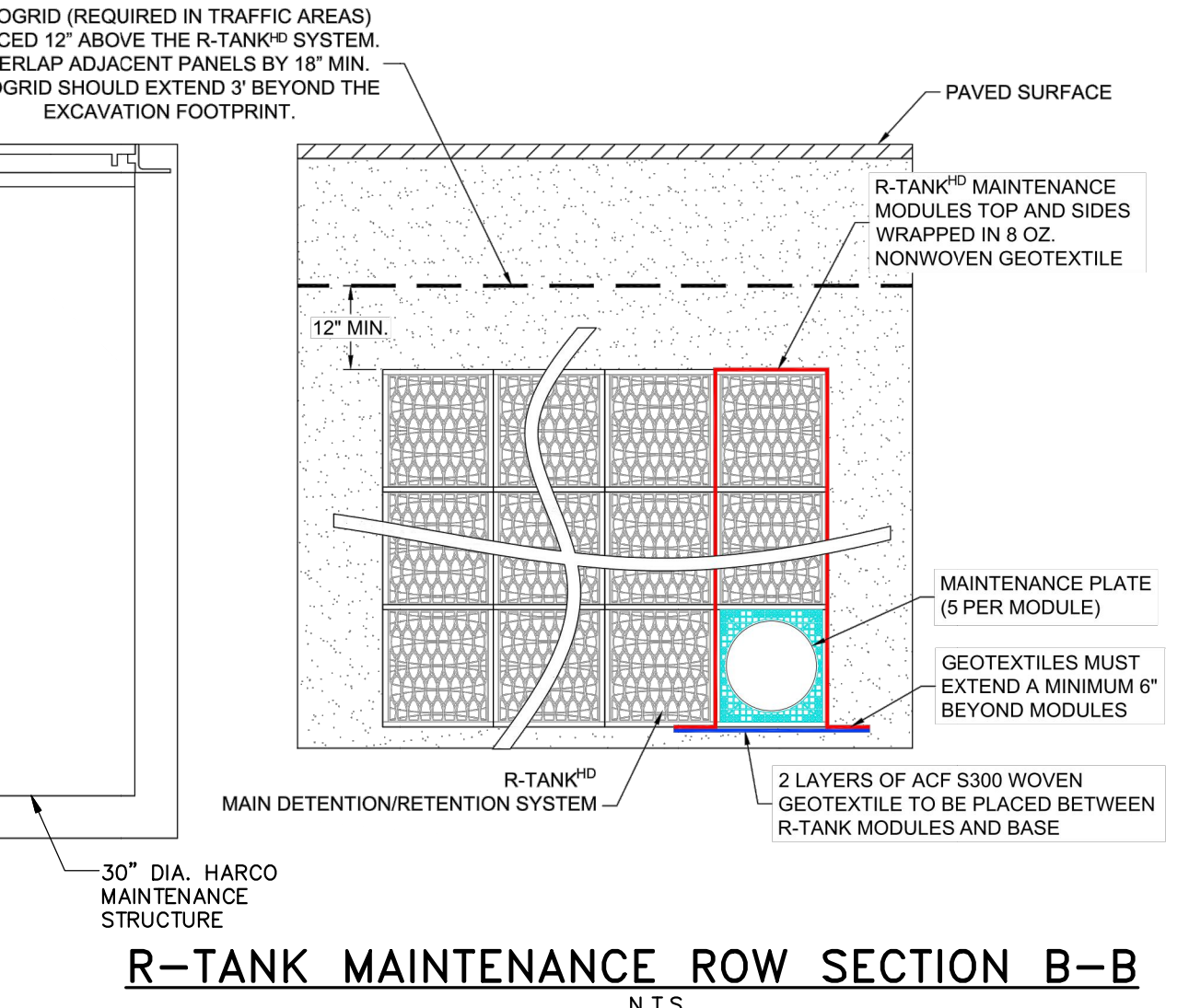
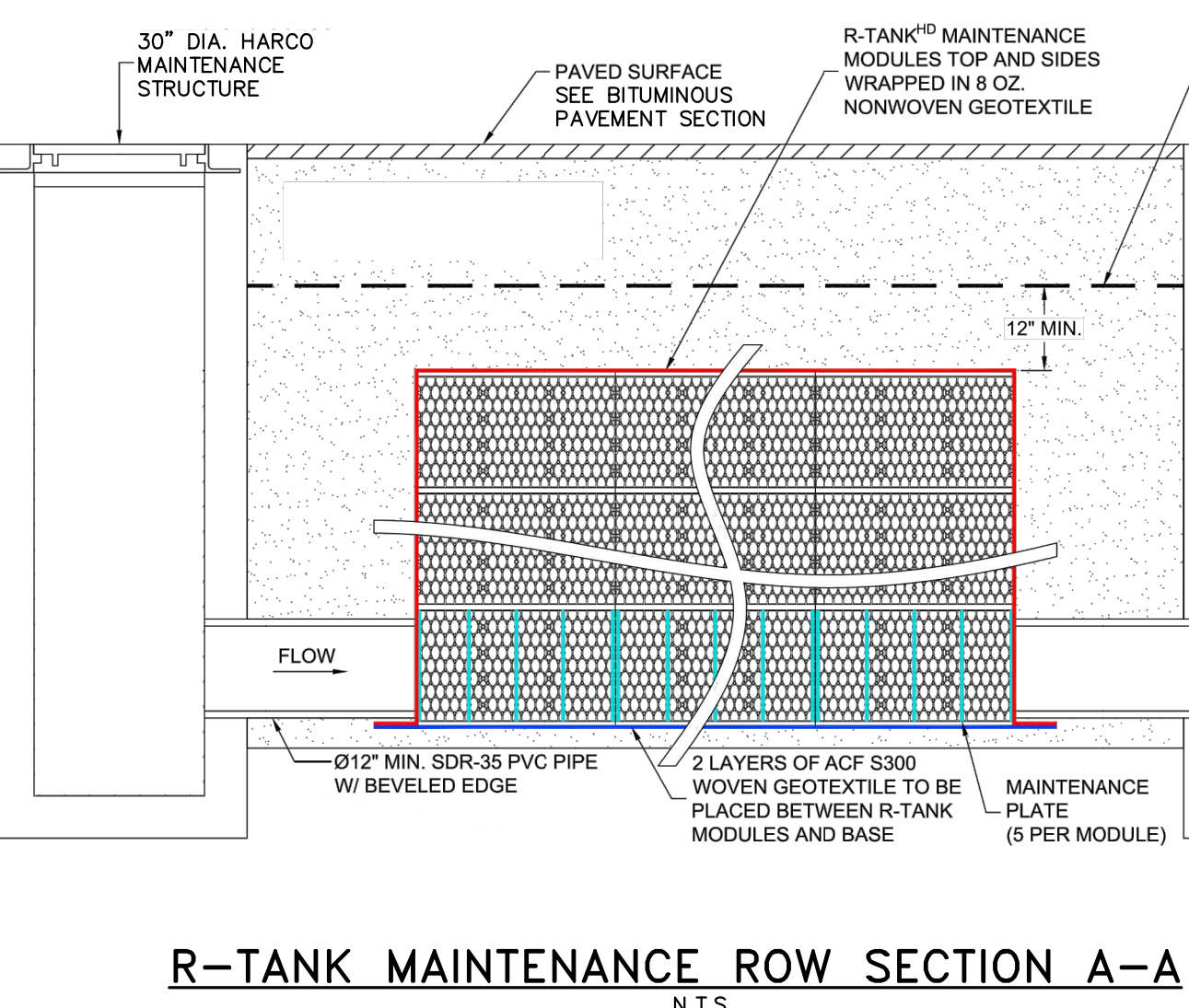
DUMP TRUCK DETAIL (SEE NOTE 3)



DOUBLE R-CONSTRUCTION EQUIPMENT COVER DETAIL N.T.S.

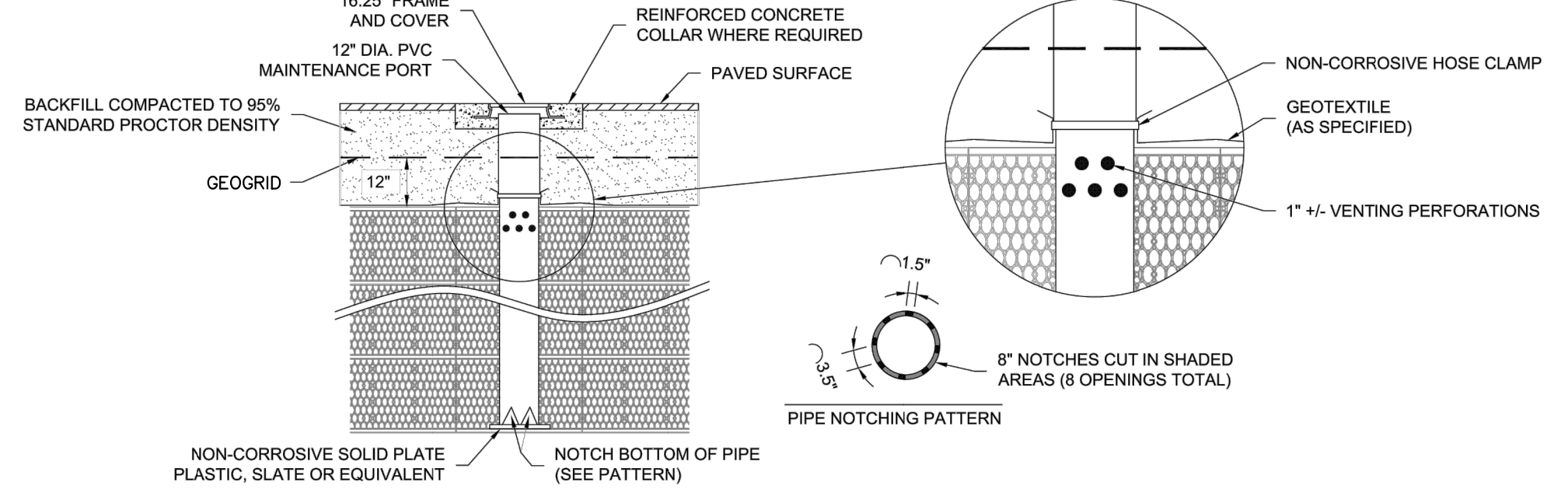


TYPICAL PIPE CONNECTION AT MAINTENANCE ROW DETAIL N.T.S.

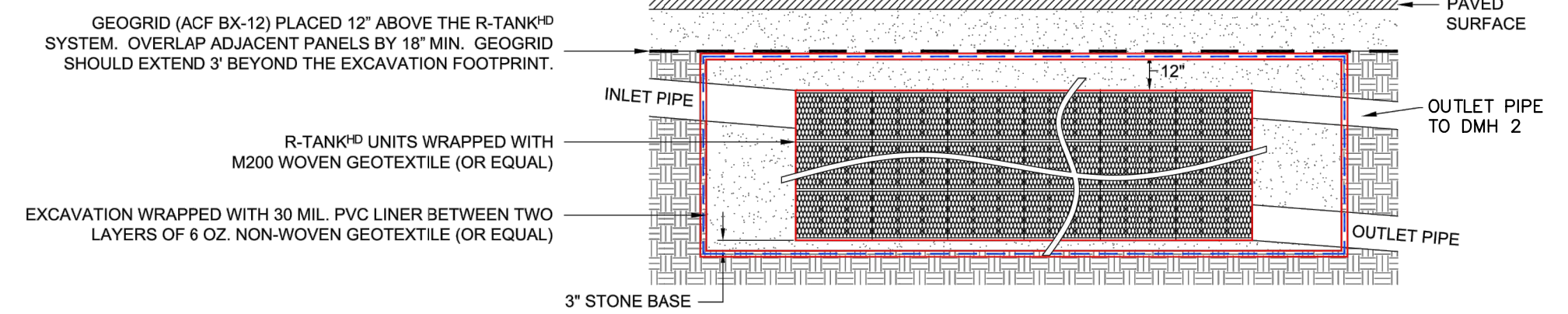
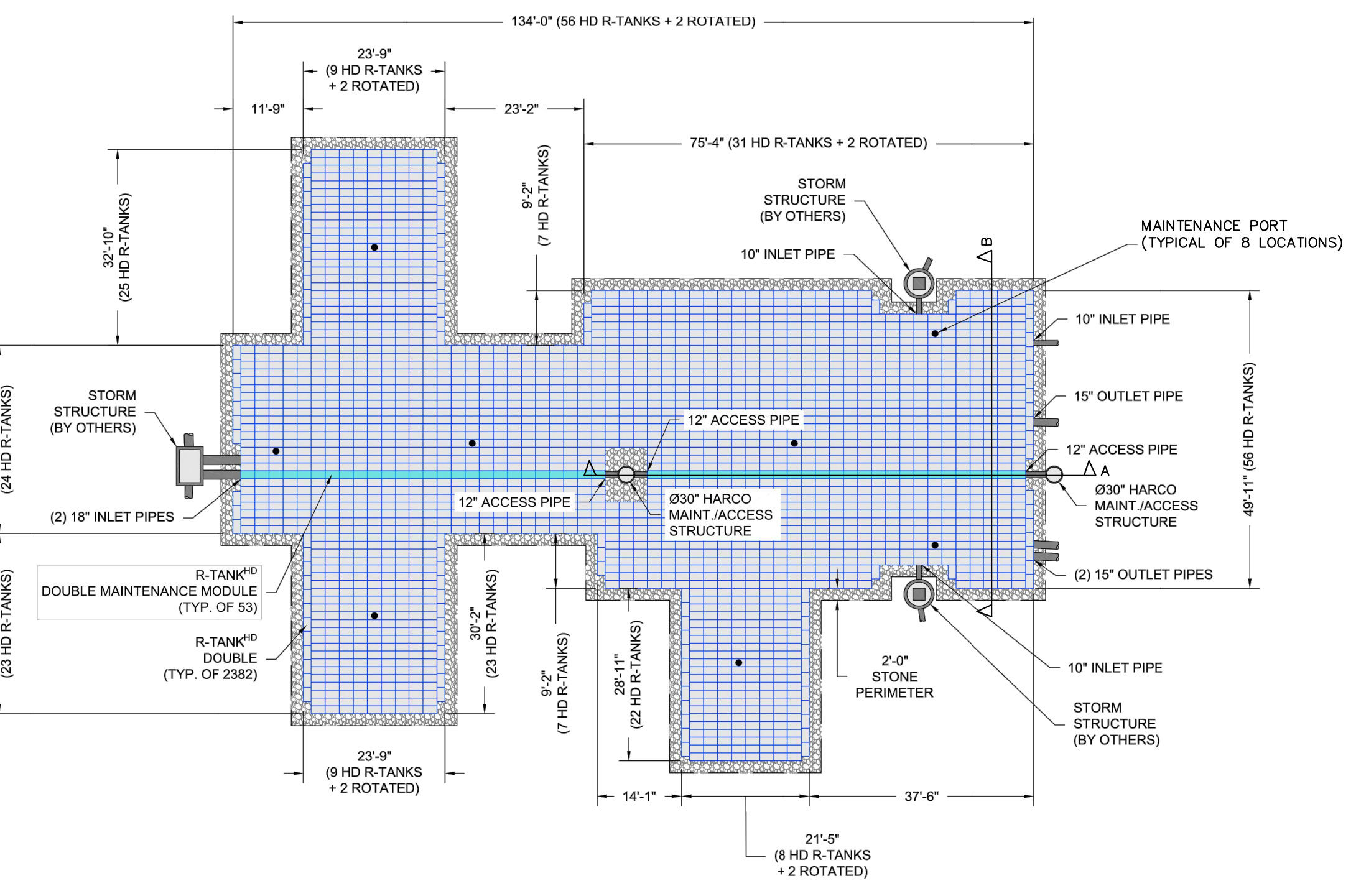


R-TANKHD & H-20 LOAD SECTION VIEW N.T.S.

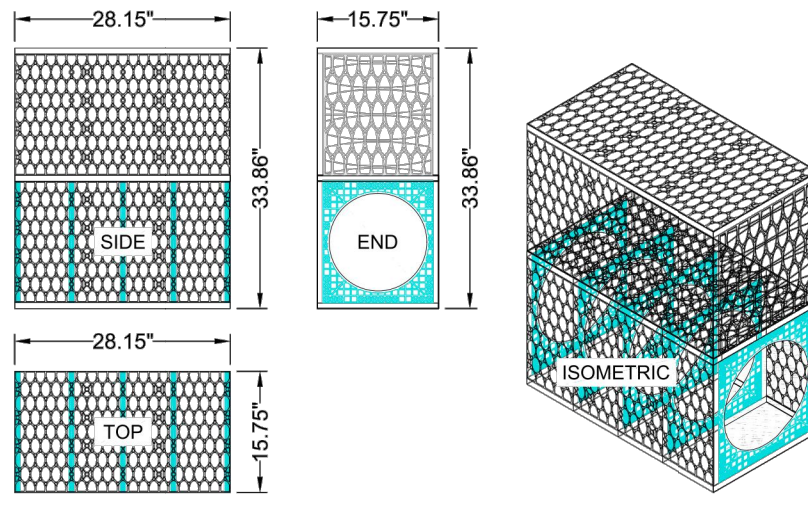
- NOTES**
- THIS PORT IS USED TO PUMP WATER INTO THE SYSTEM AND RE-SUSPEND ACCUMULATED SEDIMENT SO THAT IT MAY BE PUMPED OUT.
 - MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.



R-TANKHD TYPICAL MAINTENANCE PORT N.T.S.



R-TANKHD TANK WRAP & EXCAVATION ENVELOPE DETAIL N.T.S.

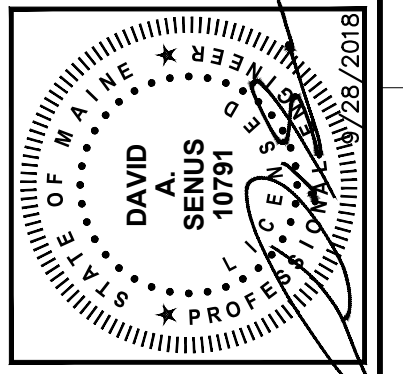


DOUBLE R-TANK MAINTENANCE MODULE DETAILS N.T.S.

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WOODWARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS



NO.	DESCRIPTION	DATE	BY	CHKD
1	PERMIT SET	8/28/2018		
2	REVISED BY: GMS	10/18/2018		

NO.	DESCRIPTION	DATE	BY	CHKD
1	PERMIT SET	8/28/2018		
2	REVISED BY: GMS	10/18/2018		

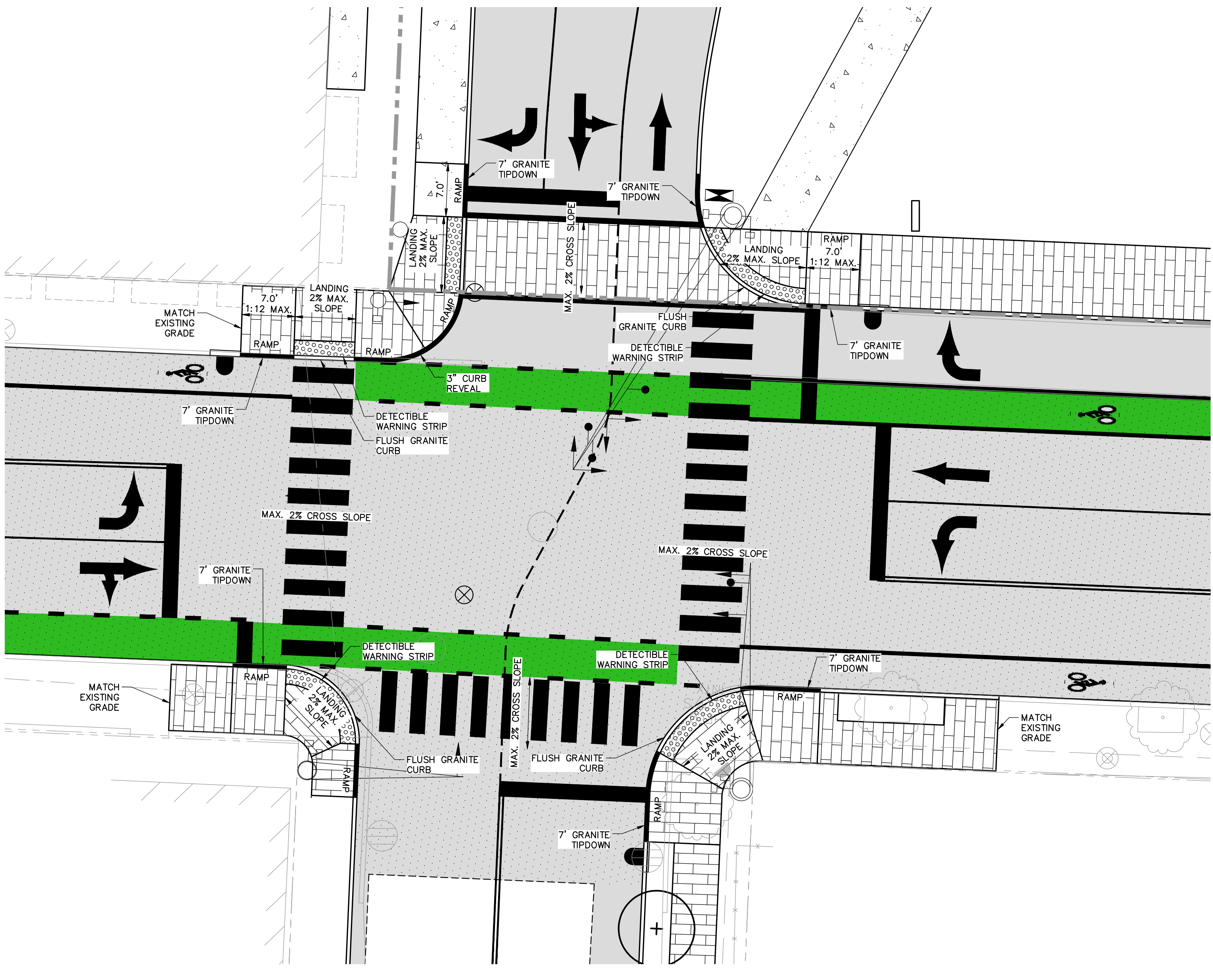
MAINE MEDICAL CENTER
BRANCHHALL STREET
PORTLAND, ME 04102

MHC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

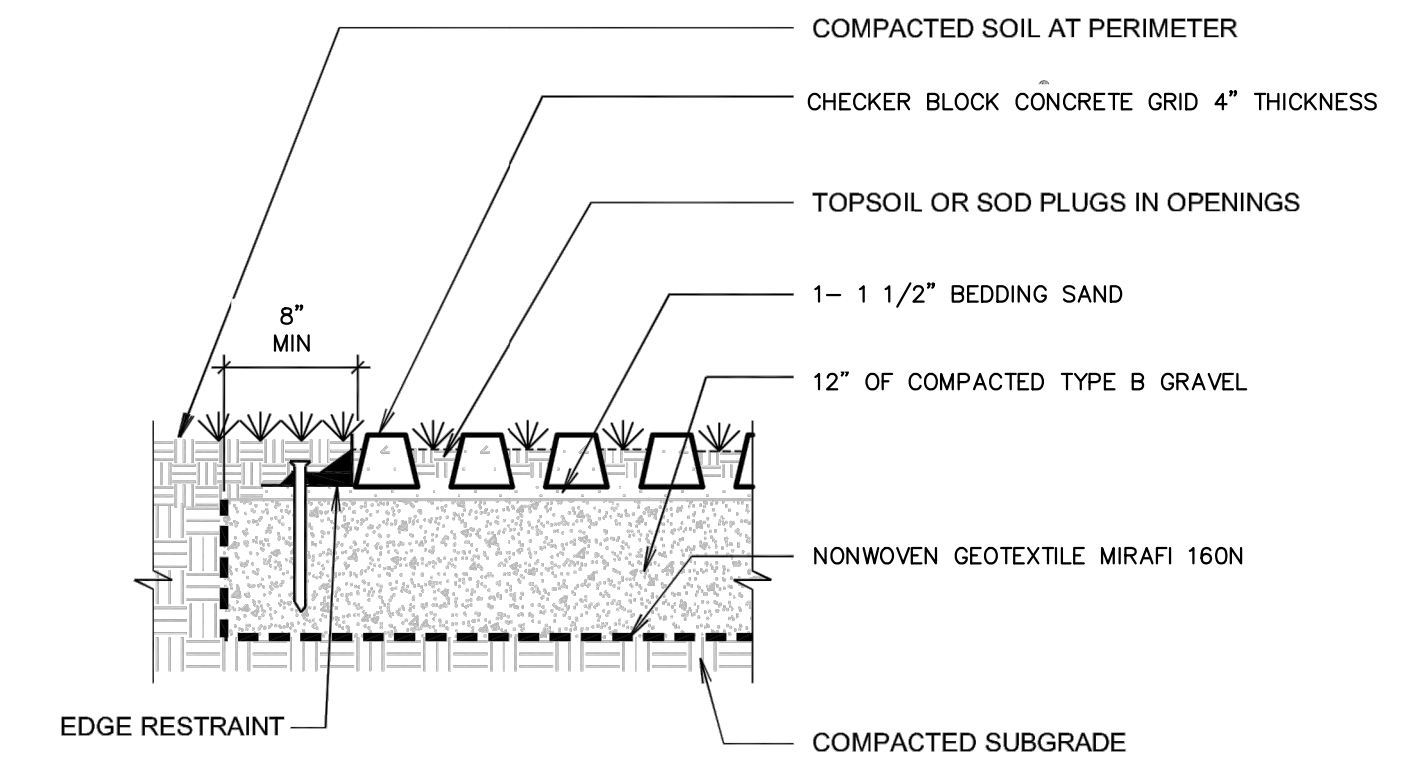
CIVIL DETAILS - 5

JOB NO.: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 16 OF 18

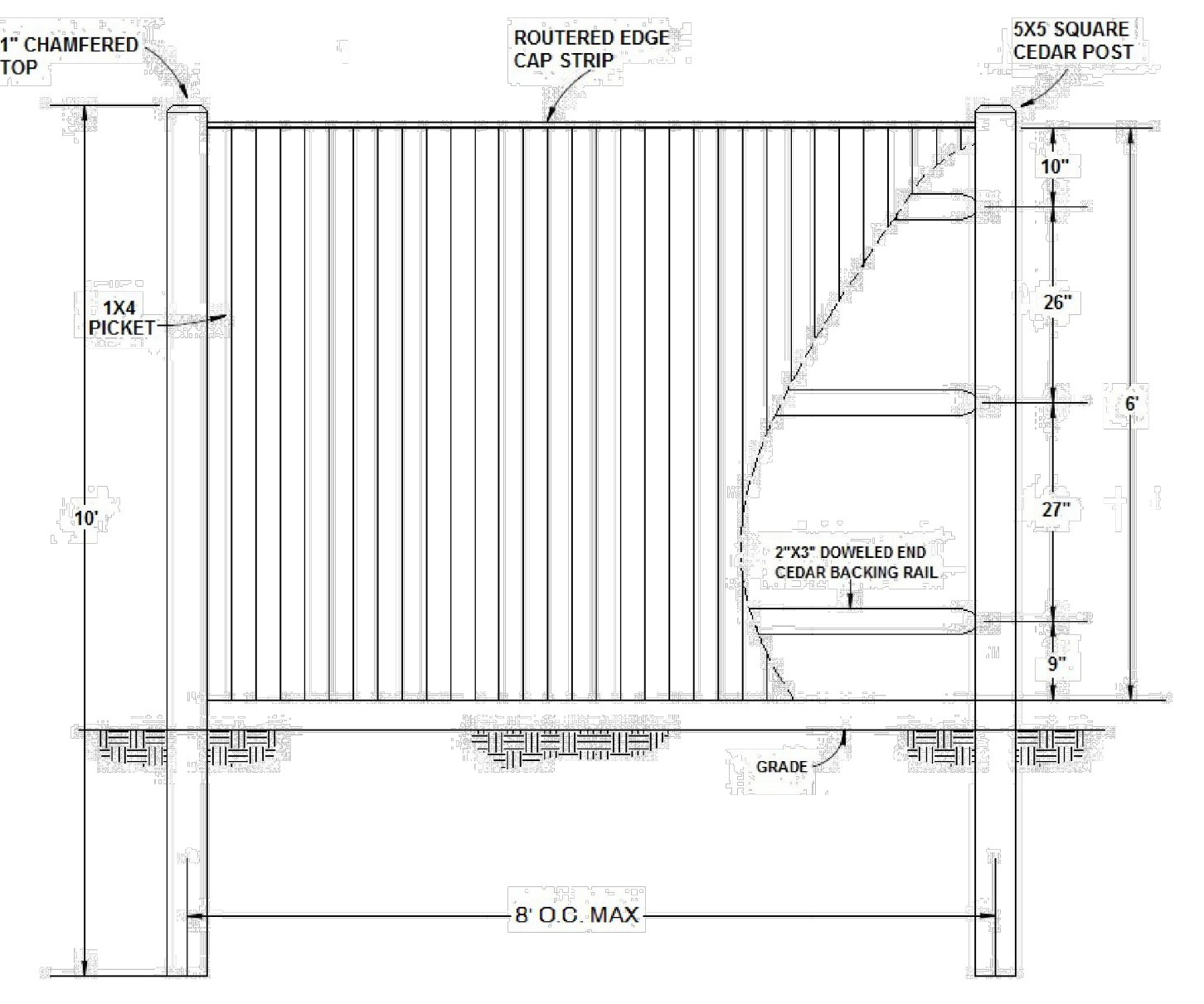
C-204



ST. JOHN STREET & "D" STREET INTERSECTION
SCALE: 1"=10'



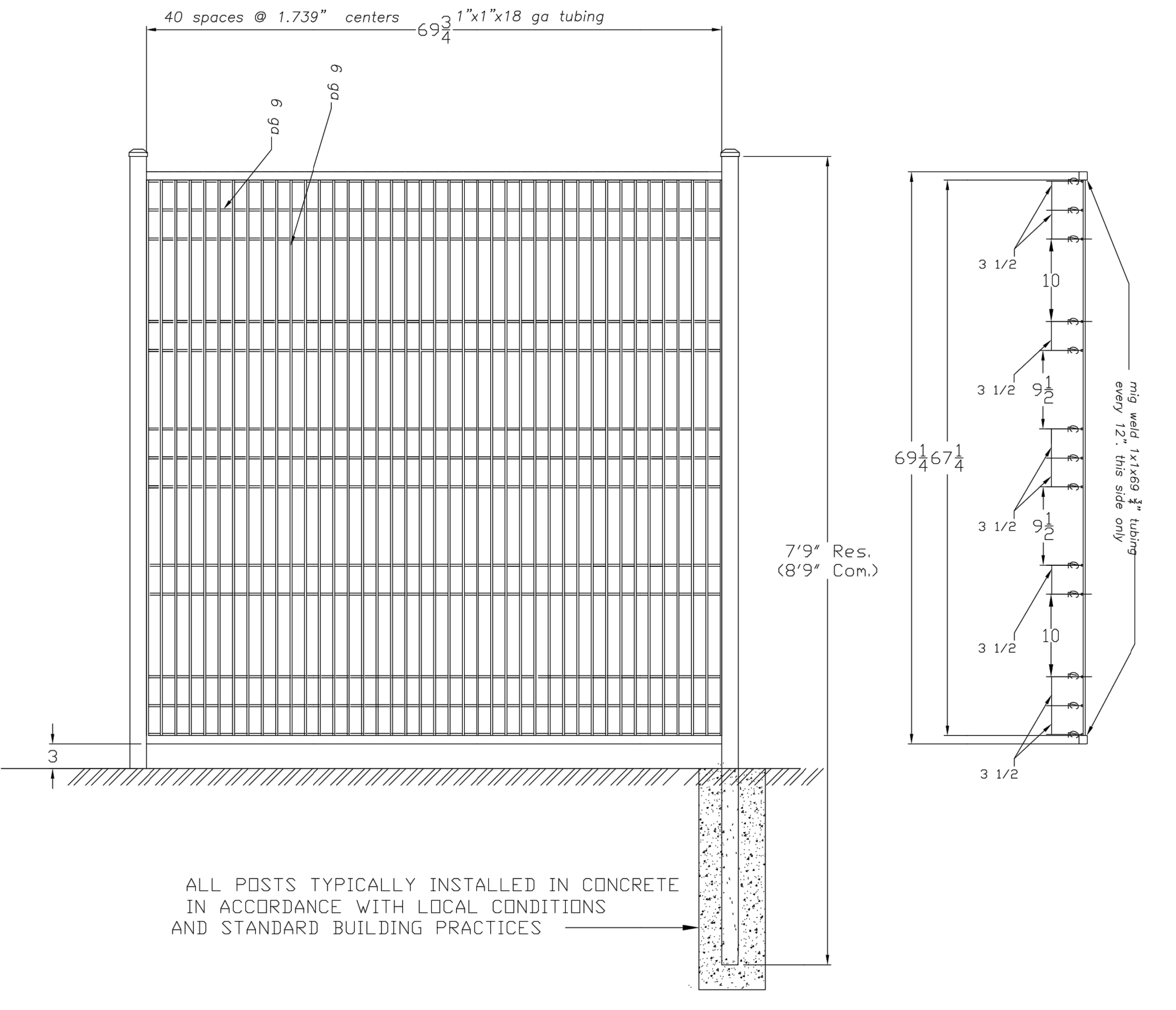
CHECKER BLOCK CONCRETE GRID DETAIL
N.T.S.



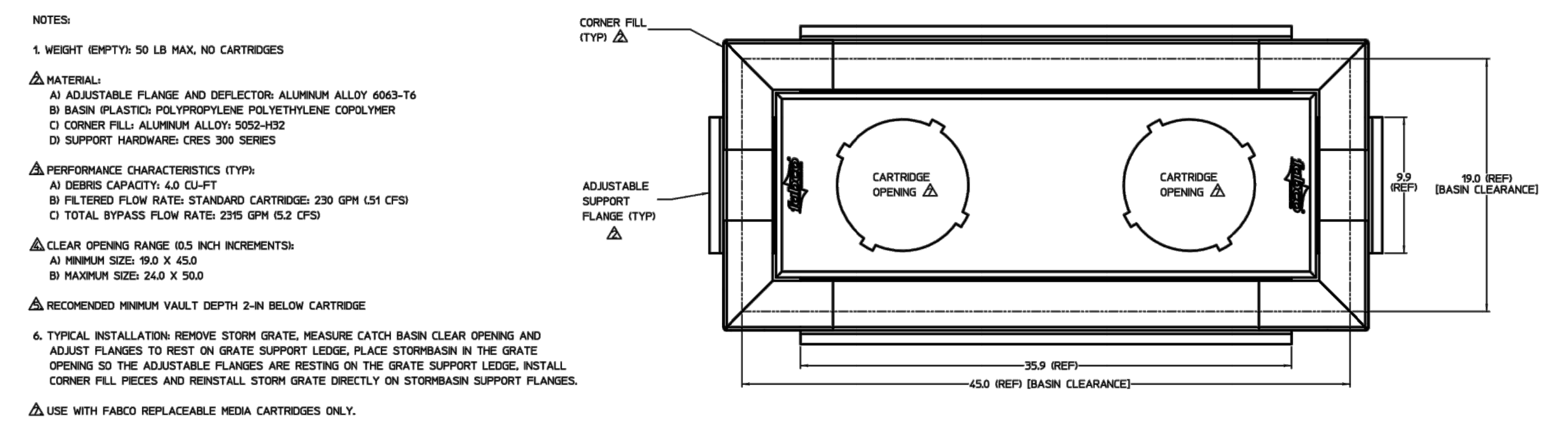
ORNAMENTAL STEEL FENCE DETAIL
N.T.S.

GENERAL NOTES:
1. ALL MATERIALS ARE PREMIUM, #1 GRADE CEDAR
2. ALL POSTS ARE "DIRECT BURIAL" SET AT AN APPROXIMATE DEPTH OF 4'- CONCRETE IS NOTE RECOMMENDED FOR BACKFILL

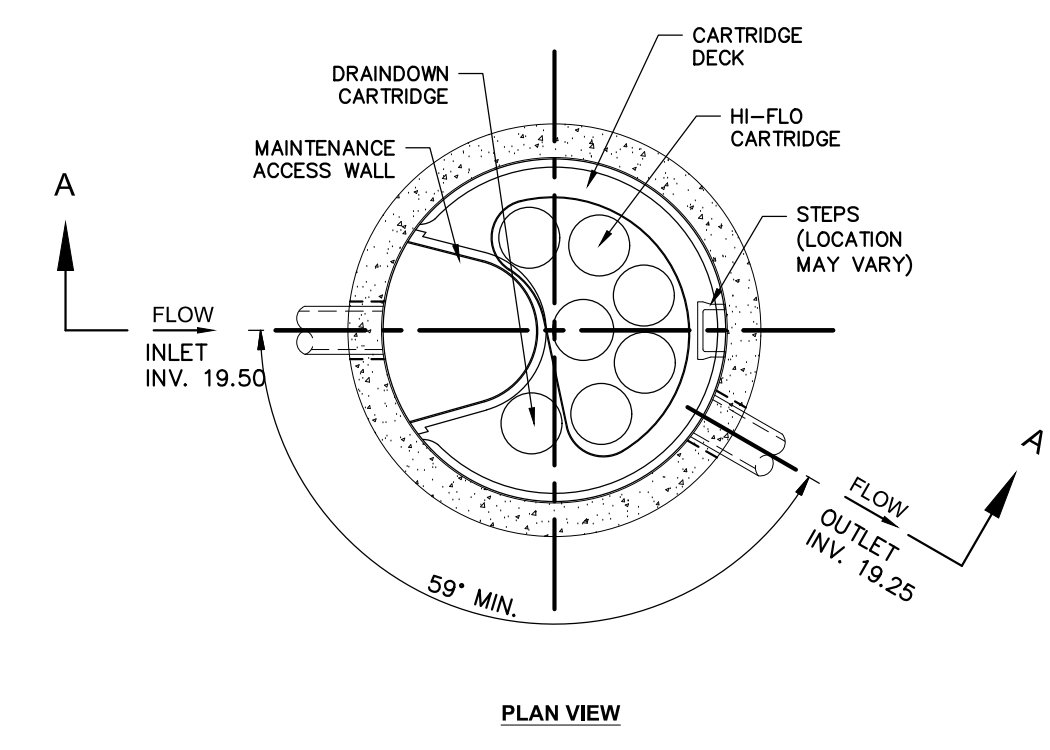
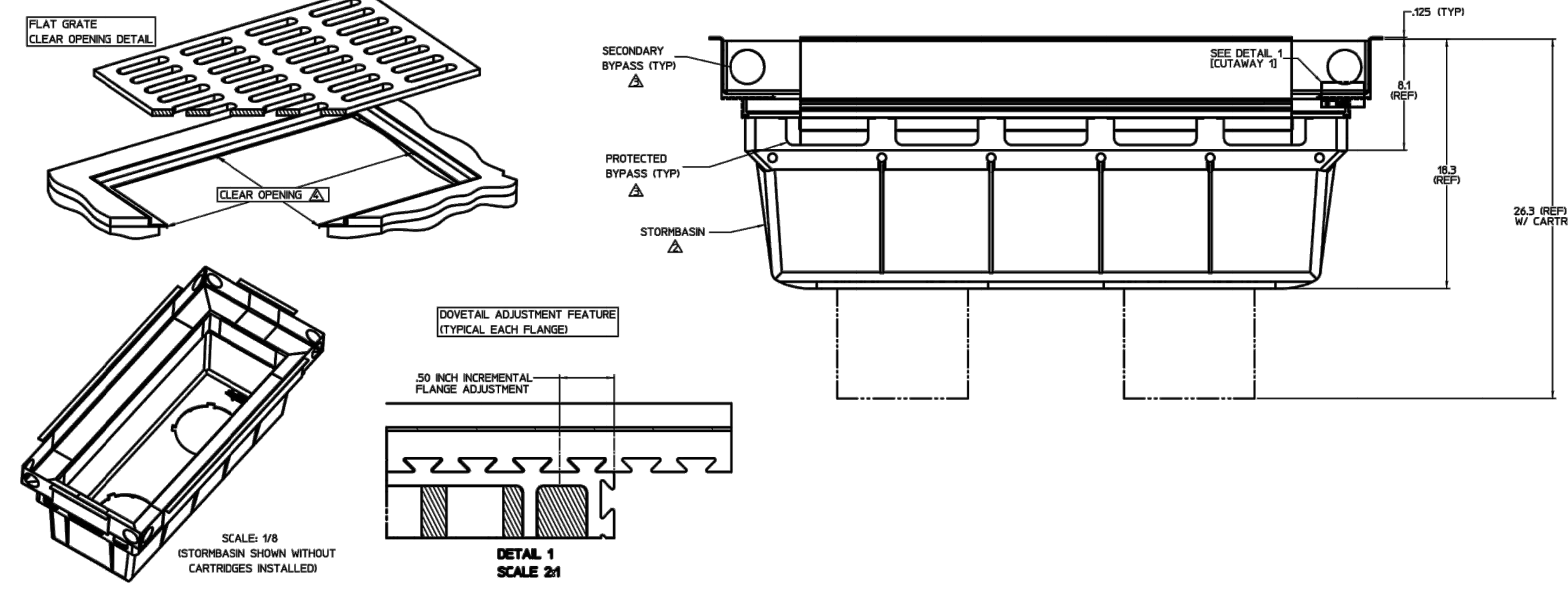
6-FOOT SOLID BOARD W/THINK CAP STRIP- CEDAR PRIVACY FENCE
N.T.S.



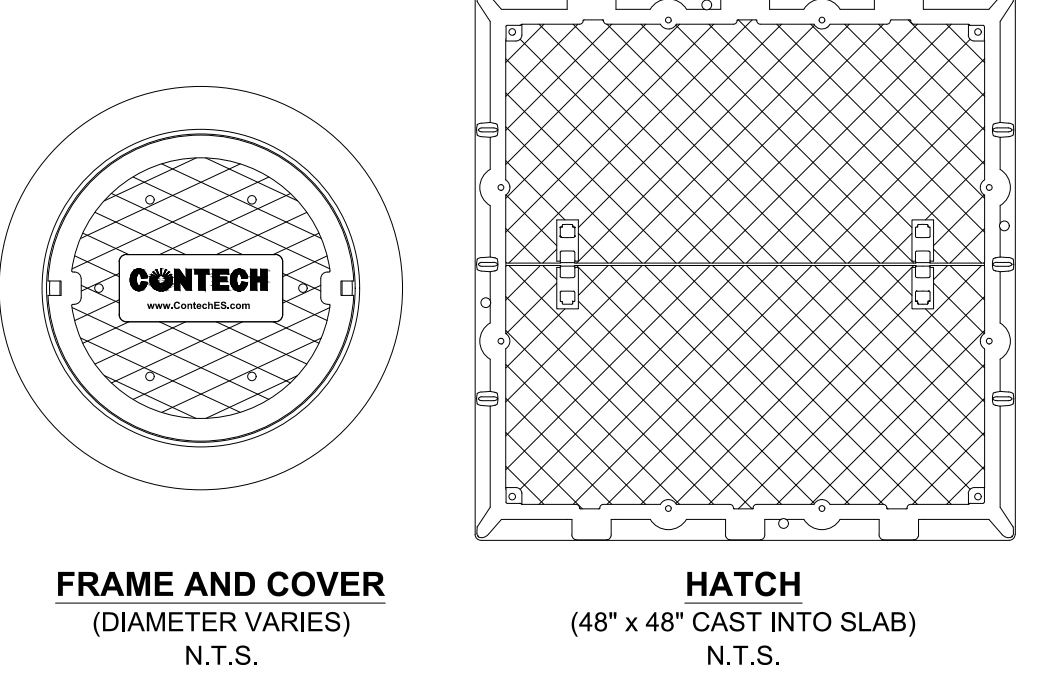
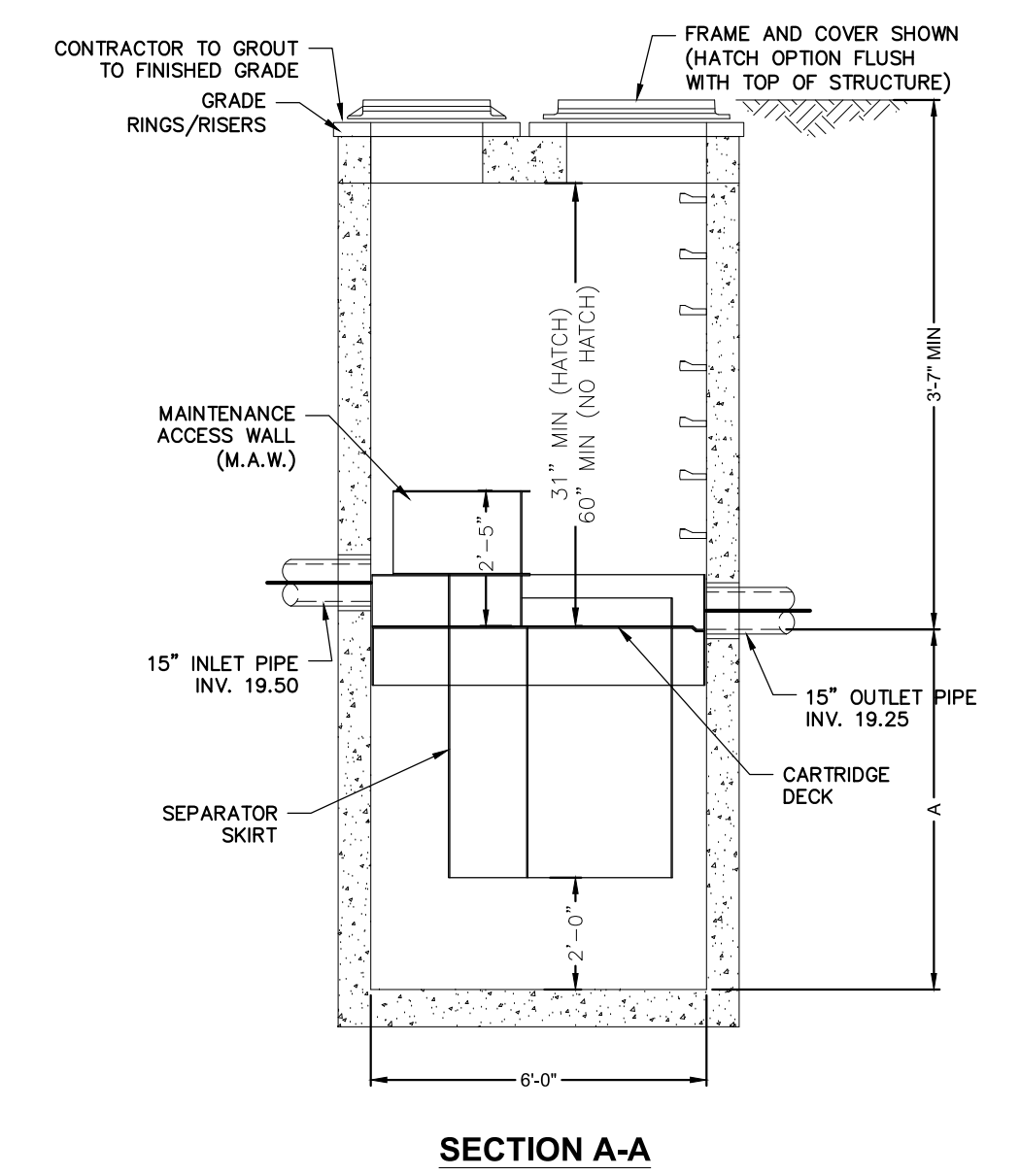
ORNAMENTAL STEEL FENCE DETAIL
N.T.S.



FABCO STORMBASIN, TYPE C FLANGE
N.T.S.



CONTECH JELLYFISH FILTER DETAIL
N.T.S.



GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE, www.contechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 3' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M309 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

41 Hutchins Drive
Portland, Maine 04102
800.426.4362 | www.woodwardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODWARD & CURRAN

DAVID SENUS
REGISTERED PROFESSIONAL ENGINEER
REPRODUCTION OR MODIFICATION OF THIS DRAWING WITHOUT PERMISSION IS PROHIBITED.

NO.	REVISION	DATE	DESCRIPTION
1	PERMIT SET	8/28/2018	
2	DESIGNED BY: C-205		
3	DESIGNED BY: BOA		
4	DESIGNED BY: GMS		

CIVIL DETAILS - 6

MAINE MEDICAL CENTER
BRANFORD STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 17 OF 18

C-205

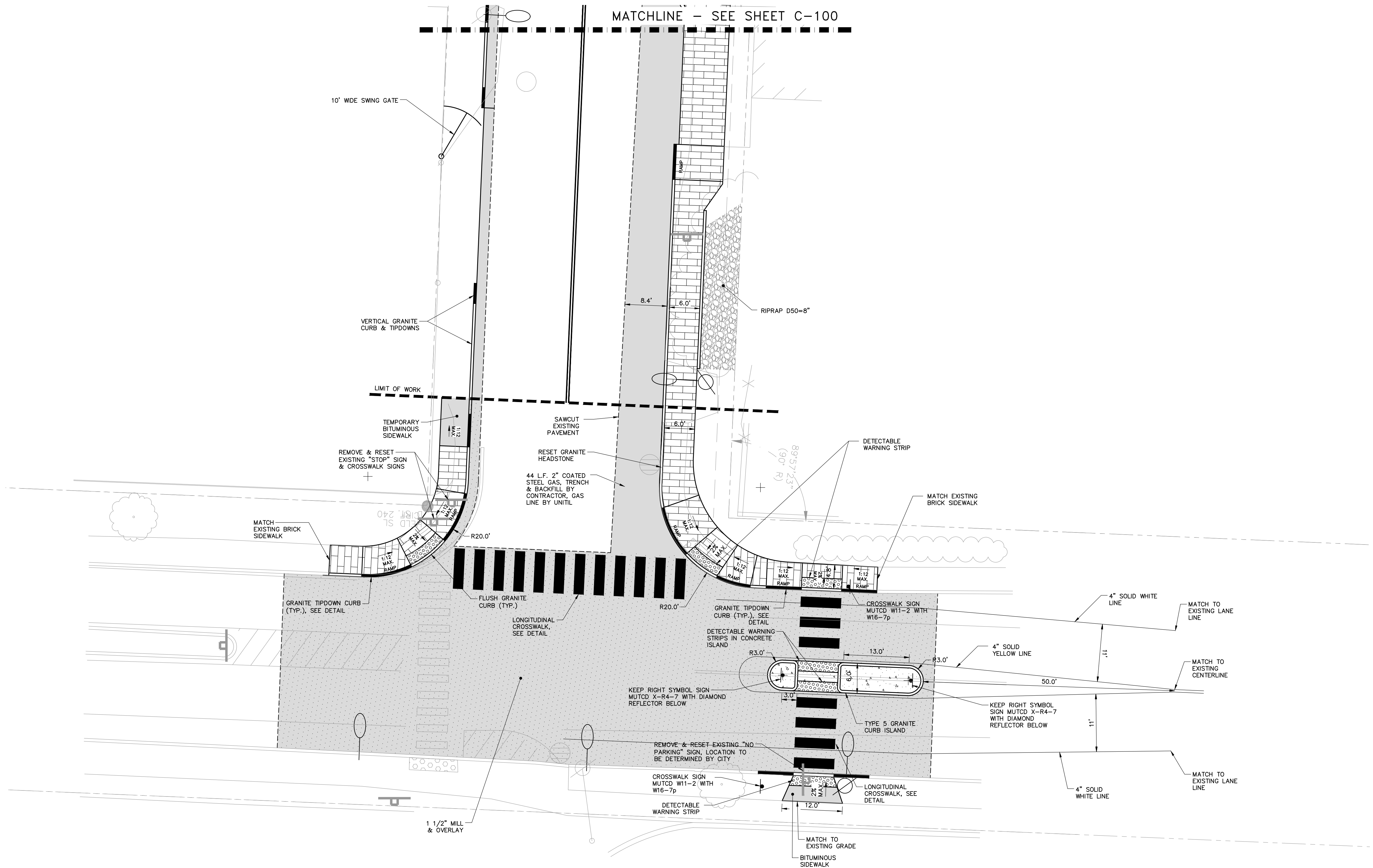
A

B

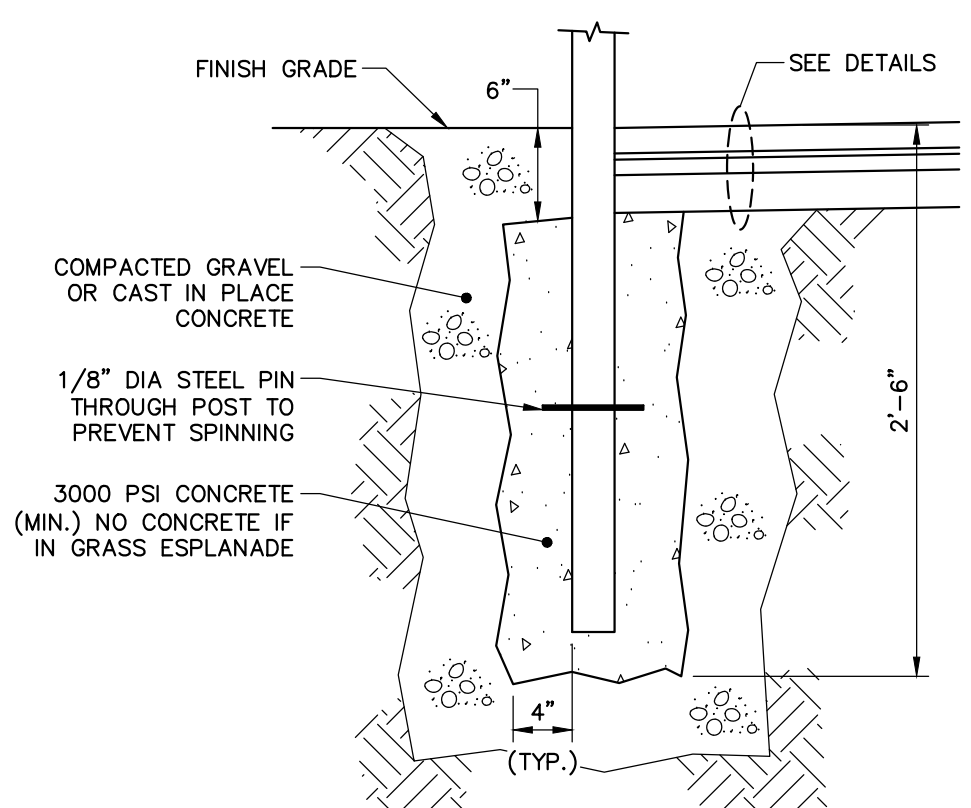
C

D

E

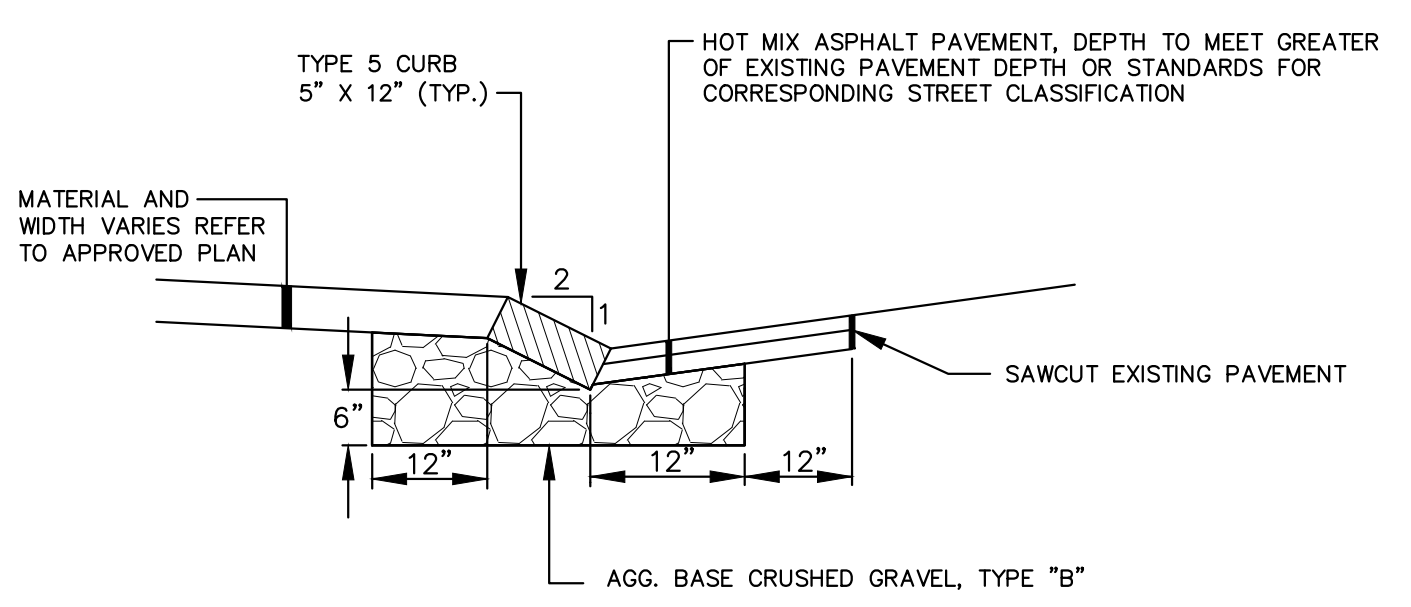


VALLEY STREET & "D" STREET INTERSECTION
SCALE: 1"=10'

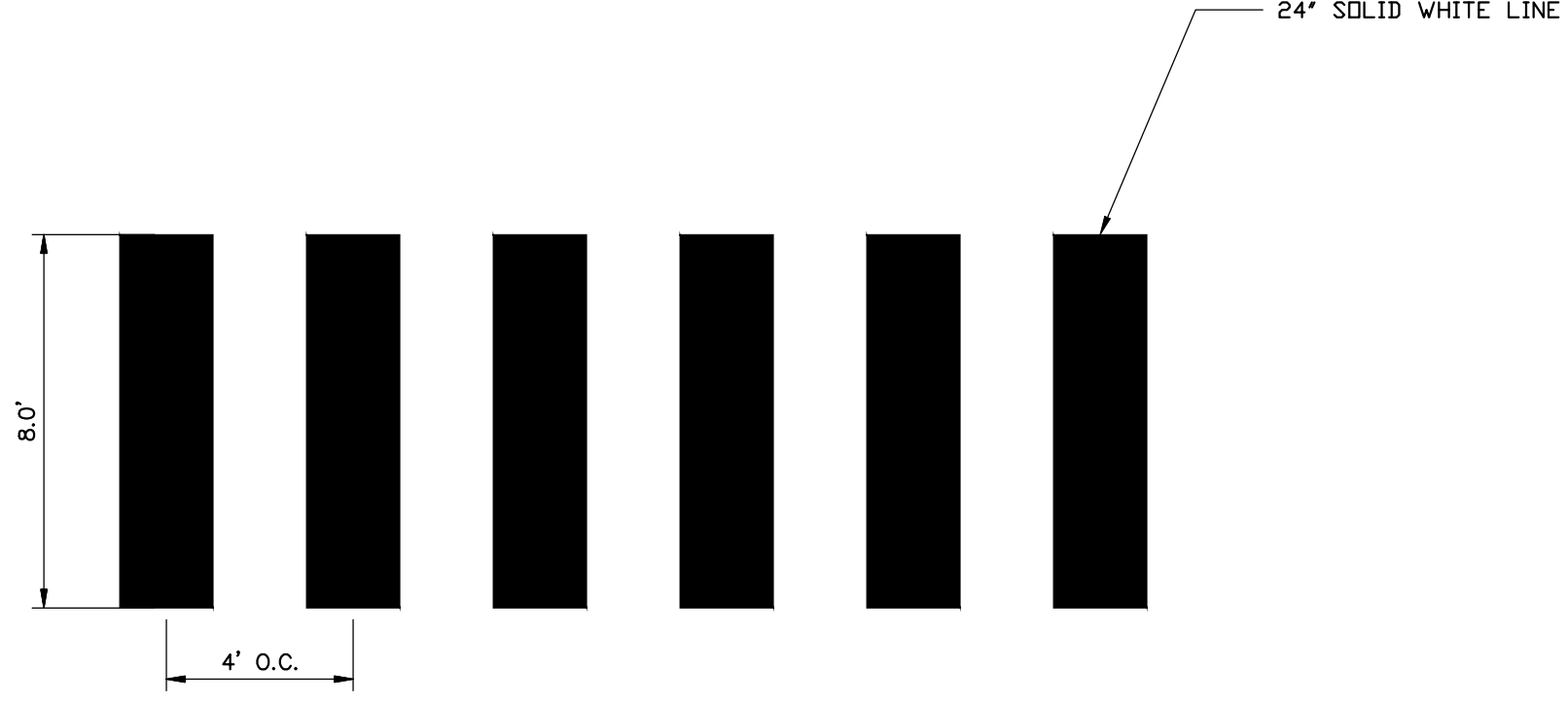


POST SPECIFICATION		
TYPE	HEIGHT ABOVE FIN. GRADE	POST MATERIAL
STREET SIGNAGE	7'-0"	GALV. STEEL

N.T.S.



SLOPED GRANITE CURB - INSTALLATION IN EXISTING STREETS
N.T.S.
NOTE: INDIVIDUAL PIECES OF CURB SHORTER THAN 4 LF. ARE NOT ALLOWED, WITH THE EXCEPTION OF RADIAL CURB.

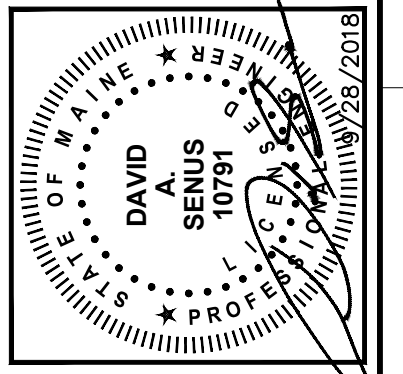


CROSSWALK WITH LONGITUDINAL LINES
N.T.S.

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COMMITMENT & INTEGRITY DRIVE RESULTS

PROFESSIONAL ENGINEERING, ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, PLANNING, ENVIRONMENTAL ENGINEERING, SURVEYING, AND CONSTRUCTION MANAGEMENT SERVICES PROVIDED.



NO.	PERMIT SET	DATE	DESCRIPTION	DESIGNED BY: C-205	DATE
1	PERMIT SET	8/28/2018			

CIVIL DETAILS - 7

MAINE MEDICAL CENTER
BRANFALL STREET
PORTLAND, ME 04102

MMC ST. JOHN STREET
EMPLOYEE PARKING GARAGE

JOB NO: 0231158-00
DATE: SEPTEMBER 28, 2018
SCALE: AS NOTED
SHEET: 18 OF 18

C-206

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