



Improvement Survey Plat  
 With Topography  
 Lot C-13, KEMP SUBDIVISION  
 Amended Final Plat  
 Town of Eagle, County of Eagle, State of Colorado

DESCRIPTION:

LOT C-13, KEMP SUBDIVISION, according to the Amended Final Plat thereof, dated February 25, 2011, at RECEPTION NO. 201103742, recorded in the Office of the Clerk and Recorder, County of Eagle, State of Colorado.

NOTES:

- Date of Survey: February 26, 2021 and April 18-2024.
- Street Address: 1215 Chambers Ave. (Not Posted)
- Location of improvements and lot lines are based upon said Amended Final Plat, and Survey Monuments found at the time of this survey as shown hereon.
- 1' Contours shown hereon. Site Benchmark: Sanitary Manhole Rim Elev. = 6664.7', assumed.
- Basis of Bearings: An assumed bearing of N 60° 23' 33" E between the northeast and northwest corner of Lot C-13 as shown hereon.
- U.S. Survey Feet used for this survey.
- Bearings and distances shown hereon are both plotted and field measured.
- Notice: According to Colorado Law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect, in no event, may any action based upon any defect in this survey be commenced more than ten years from the date of certification shown hereon.

CERTIFICATION:

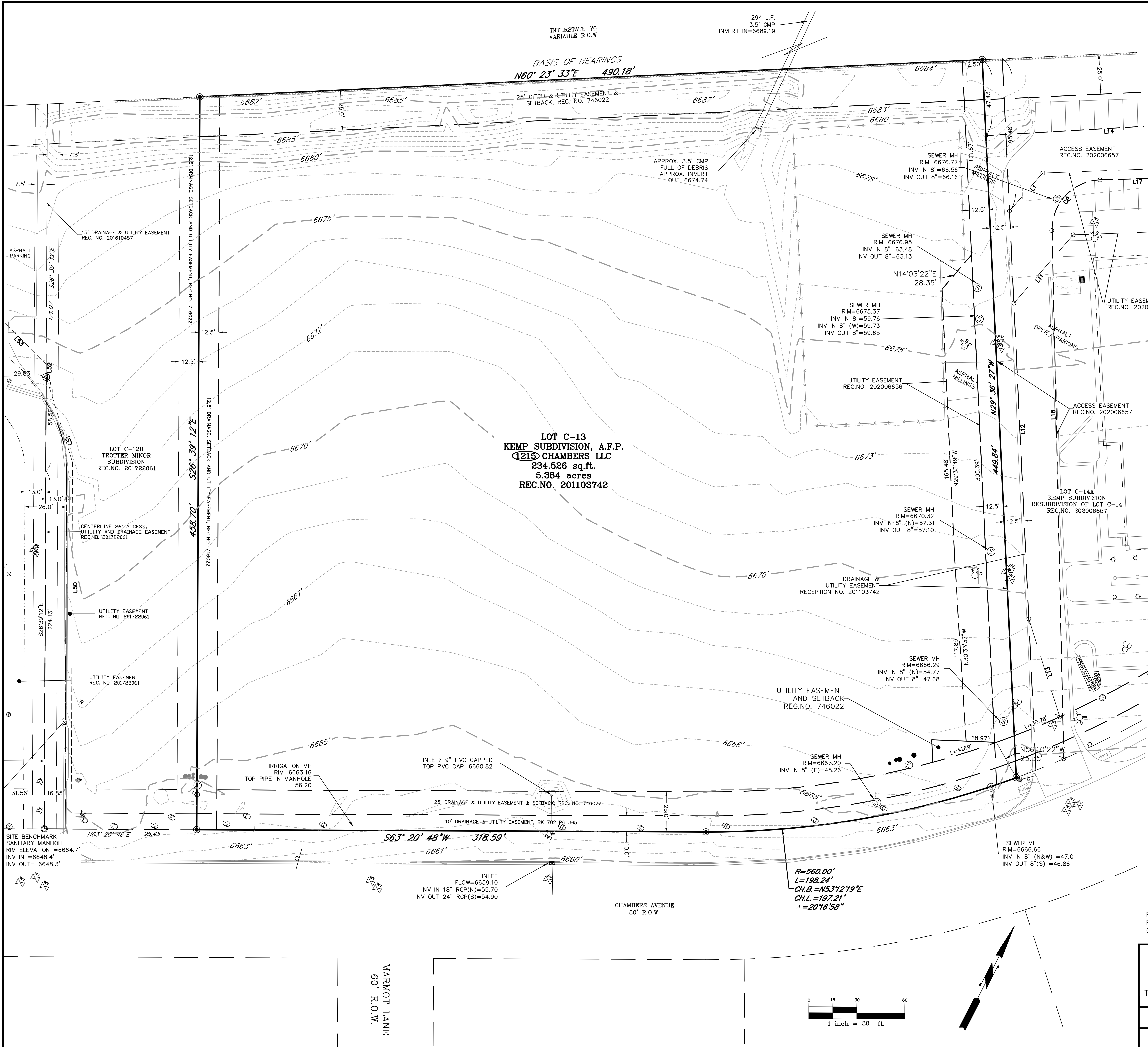
I, RANDALL P. KIPP, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS LAND SURVEY PLAT WAS PREPARED FOR MORNINGSTAR MOUNTAIN PROPERTIES LLC, AND IS THE RESULT OF A SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, RESPONSIBILITY AND CHECKING. I FURTHER CERTIFY THAT THIS LAND SURVEY PLAT IS IN CONFORMANCE WITH 38-51-106 C.R.S., MINIMUM STANDARDS FOR LAND PLATS, AND IS BASED ON THE LAND SURVEYORS KNOWLEDGE, INFORMATION AND BELIEF, IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE, AND IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.



RANDALL P. KIPP P.L.S. #38079  
 COLORADO PROFESSIONAL LAND SURVEYOR

LEGEND:

- DENOTES FOUND SURVEY MONUMENT, 1.5" ALUMINUM CAP ON #5 REBAR LS #38079
- DENOTES FOUND SURVEY MONUMENT 1" BRASS SHINER, IN ASPHALT LS #38079
- DENOTES FOUND SURVEY MONUMENT 1.5" ALUMINUM CAP, ON #5 REBAR LS #23089
- DENOTES FOUND SURVEY MONUMENT 1.5" ALUMINUM CAP, ON #5 REBAR LS #30091
- ⊠ DENOTES IRRIGATION VALVE
- ⊠ DENOTES FIRE HYDRANT
- ⊠ DENOTES WATER VALVE
- ⊠ DENOTES WATER MANHOLE
- ⊠ DENOTES WATER SHUT OFF VALVE
- ⊠ DENOTES SANITARY MANHOLE
- ⊠ DENOTES SANITARY CLEAN OUT
- ⊠ DENOTES STORM INLET
- ⊠ DENOTES ELECTRIC TRANSFORMER
- ⊠ DENOTES TELEPHONE PEDESTAL
- ⊠ DENOTES ELECTRIC PEDESTAL
- ⊠ DENOTES ELECTRIC METER
- ⊠ DENOTES ELECTRIC MANHOLE
- DENOTES CONDUIT SLEEVE
- ⊠ DENOTES GAS MARKER
- ⊠ DENOTES ELECTRIC MARKER



REVISION DATE: 04-18-2024 UPDATED TOPO NORTHEAST CORNER  
 REVISION DATE: 04-13-2021 ADDED NORTH CULVERT INVERT  
 ORIGINAL SURVEY DATE: 03-01-2021

Improvement Survey Plat With Topography Lot C-13, KEMP SUBDIVISION Amended Final Plat Town of Eagle, County of Eagle, State of Colorado	
JOB NO.: 211013	DATE: 04-18-2024
SHEET 1 OF 1	DWG NAME: 211013-LotC-13-ILC

**KIPP LAND SURVEYING**

RANDY KIPP P.L.S.  
 P.O. Box 3154  
 Eagle, CO 81631  
 (970) 390-9540  
 email: randy@kipplandsurveying.com  
 web: kipplandsurveying.com









**1215 CHAMBERS AVE.**  
**STORAGE FACILITY**  
**EAGLE, CO**  
**GRADING PLAN**

BY: MCV

NO. 01/30/2026

DATE 01/30/2026

REVISIONS SITE DEVELOPMENT PERMIT

NO. 02-11-2025

DESIGNED MW

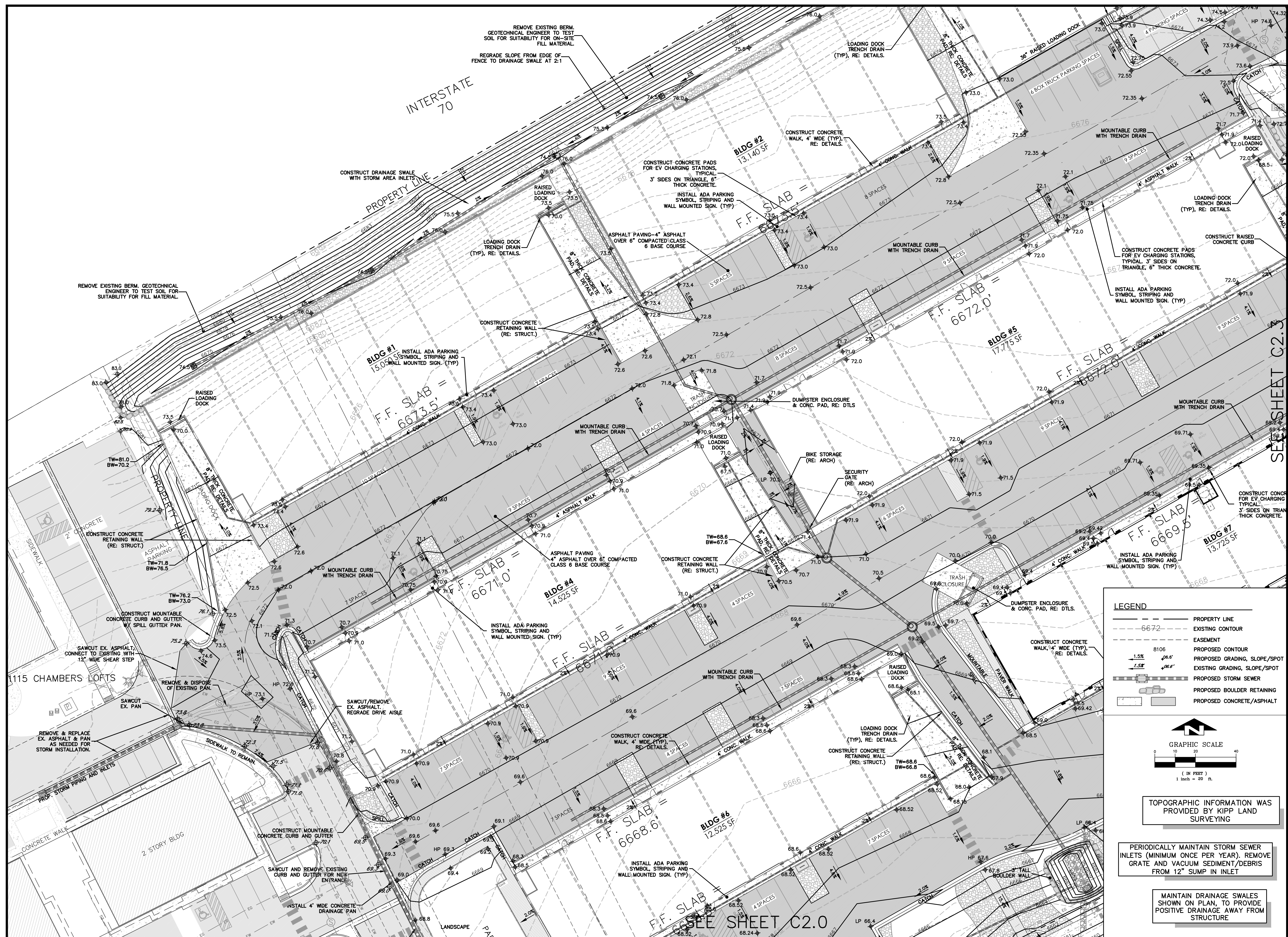
DRAWN MW

CHECKED MW

JOB NO.

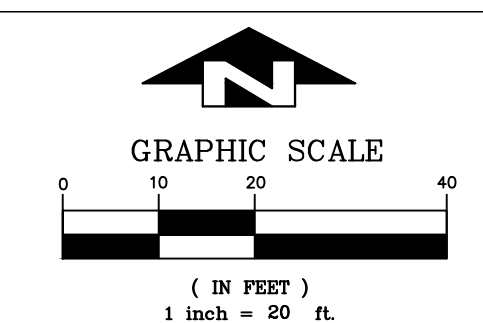
DATE 02-11-2025

SHEET C2.2



**LEGEND**

- PROPERTY LINE
- - - 6672 EXISTING CONTOUR
- - - EASEMENT
- - - 8106 PROPOSED CONTOUR
- 1.5% 06.6' PROPOSED GRADING, SLOPE/SPOT
- 1.5% 06.6' EXISTING GRADING, SLOPE/SPOT
- PROPOSED STORM SEWER
- PROPOSED BOULDER RETAINING
- PROPOSED CONCRETE/ASPHALT



TOPOGRAPHIC INFORMATION WAS PROVIDED BY KIPP LAND SURVEYING

PERIODICALLY MAINTAIN STORM SEWER INLETS (MINIMUM ONCE PER YEAR). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET

MAINTAIN DRAINAGE SWALES SHOWN ON PLAN, TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE

1115 CHAMBERS LOFTS

2 STORY BLDG

LANDSCAPE

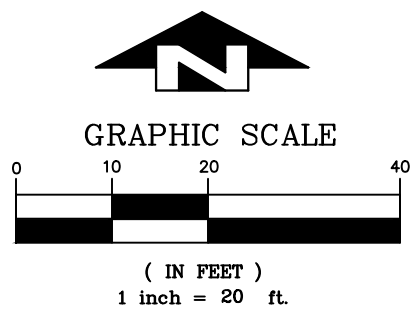
SEE SHEET C2.0

SEE SHEET C2.3

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**LEGEND**

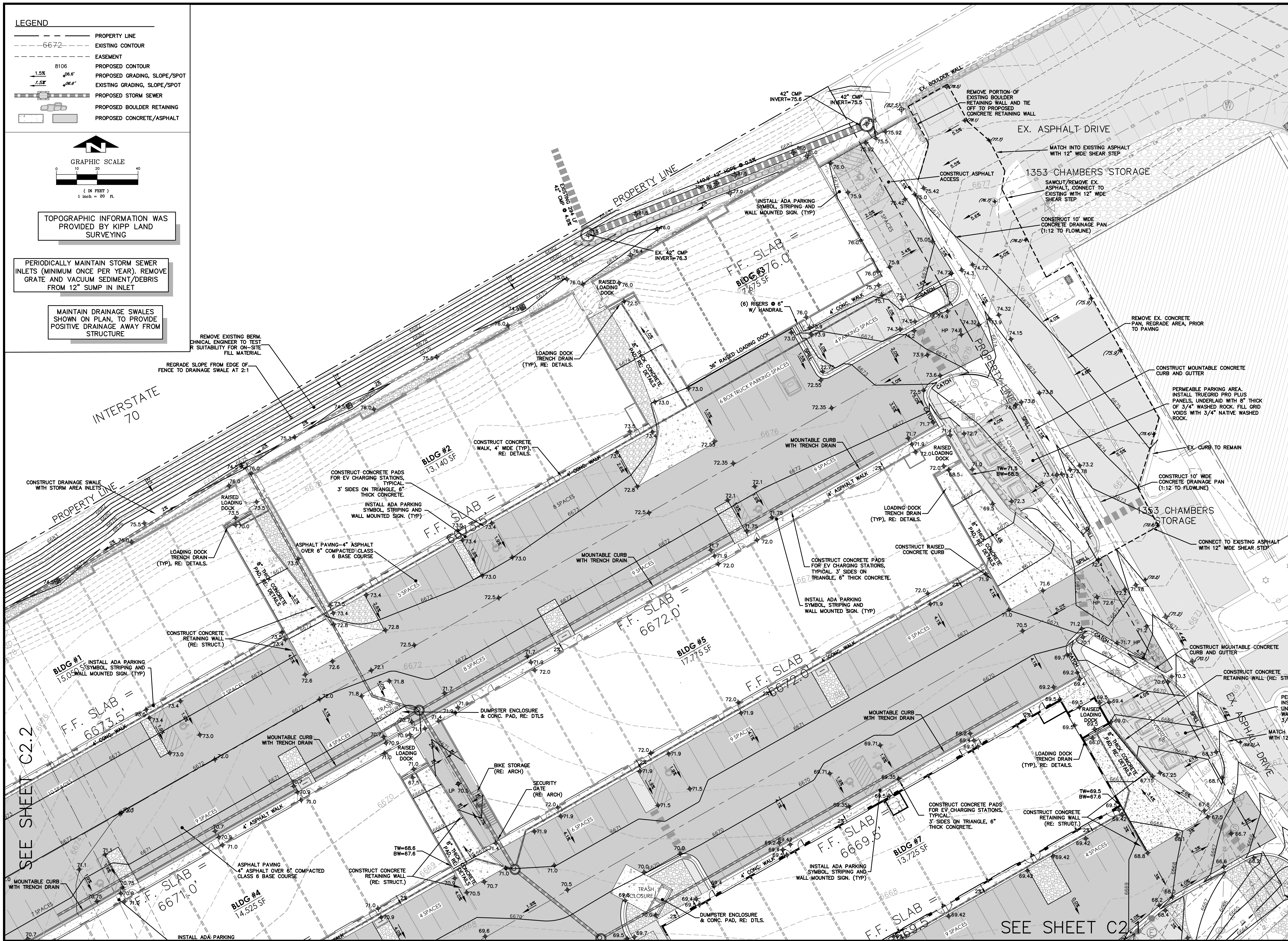
	PROPERTY LINE
	EXISTING CONTOUR
	EASEMENT
	PROPOSED CONTOUR
	PROPOSED GRADING, SLOPE/SPOT
	EXISTING GRADING, SLOPE/SPOT
	PROPOSED STORM SEWER
	PROPOSED BOULDER RETAINING
	PROPOSED CONCRETE/ASPHALT



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PERIODICALLY MAINTAIN STORM SEWER INLETS (MINIMUM ONCE PER YEAR). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET

MAINTAIN DRAINAGE SWALES SHOWN ON PLAN, TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE



SEE SHEET C2.2

SEE SHEET C2.3

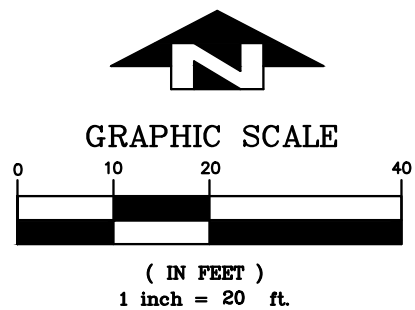
BY	MCW
NO.	01/30/2025
DESIGNED	MW
DRAWN	MW
CHECKED	MW
DATE	02-11-2025

**SHEET C2.3**



**LEGEND**

---	PROPERTY LINE
- - - -	EXISTING CONTOUR
- - - -	EASEMENT
- - - -	PROPOSED CONTOUR
1.5% 06.6'	PROPOSED GRADING, SLOPE/SPOT
1.5% 06.6'	EXISTING GRADING, SLOPE/SPOT
---	PROPOSED STORM SEWER
---	PROPOSED BOULDER RETAINING
---	PROPOSED CONCRETE/ASPHALT

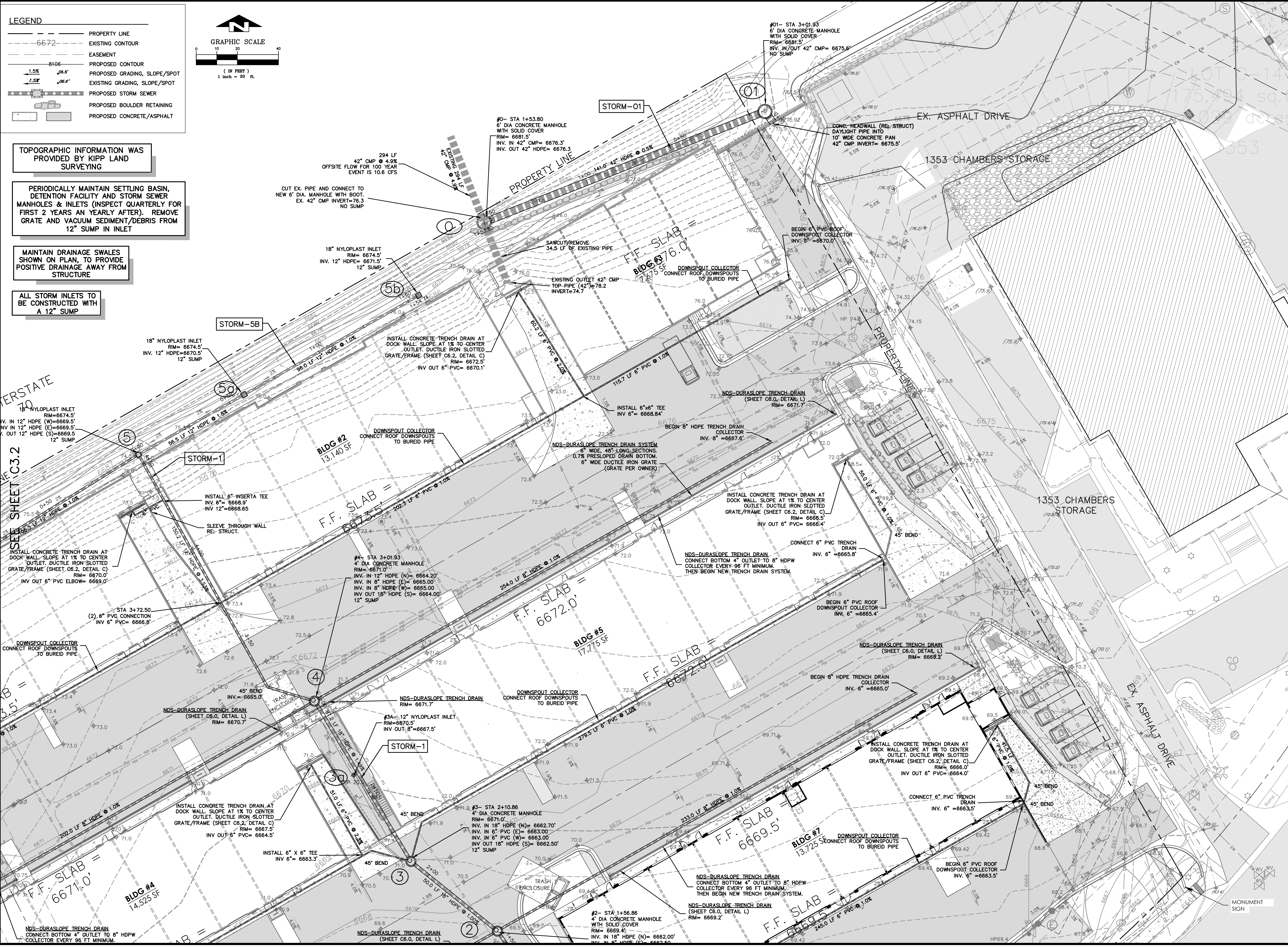


TOPOGRAPHIC INFORMATION WAS PROVIDED BY KIPP LAND SURVEYING

PERIODICALLY MAINTAIN SETTLING BASIN, DETENTION FACILITY AND STORM SEWER MANHOLES & INLETS (INSPECT QUARTERLY FOR FIRST 2 YEARS AN YEARLY AFTER). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET

MAINTAIN DRAINAGE SWALES SHOWN ON PLAN, TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE

ALL STORM INLETS TO BE CONSTRUCTED WITH A 12" SUMP



(SEAL)

**1215 CHAMBERS AVE.**  
STORAGE FACILITY  
EAGLE, CO  
STORM PLAN

NO.	DATE	REVISIONS	BY
	01/30/2026	SITE DEVELOPMENT PERMIT	MCW

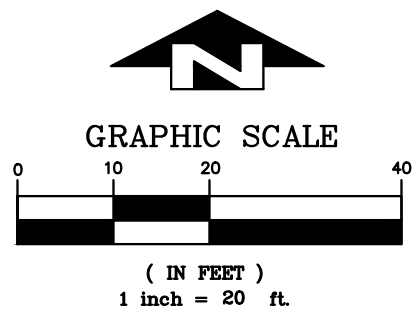
DESIGNED	DRAWN	CHECKED	DATE
MW	MW	MW	02-11-2025

SHEET C3.1

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**LEGEND**

- PROPERTY LINE
- - - - 6672 EXISTING CONTOUR
- - - - EASEMENT
- - - - S106 PROPOSED CONTOUR
- 1.5% 06.6' PROPOSED GRADING, SLOPE/SPOT
- 1.5% 06.6' EXISTING GRADING, SLOPE/SPOT
- PROPOSED STORM SEWER
- PROPOSED BOULDER RETAINING
- PROPOSED CONCRETE/ASPHALT

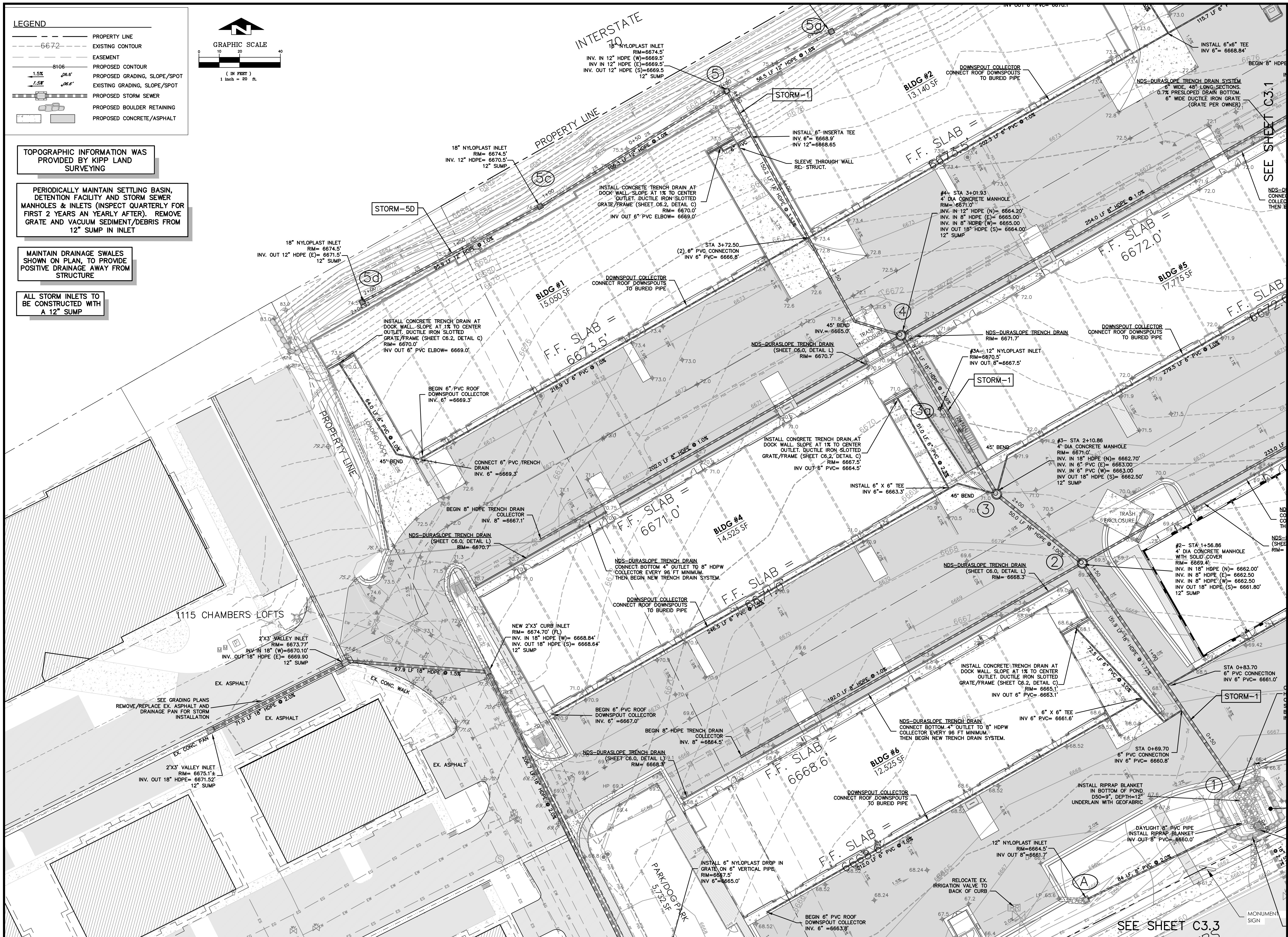


TOPOGRAPHIC INFORMATION WAS PROVIDED BY KIPP LAND SURVEYING

PERIODICALLY MAINTAIN SETTLING BASIN, DETENTION FACILITY AND STORM SEWER MANHOLES & INLETS (INSPECT QUARTERLY FOR FIRST 2 YEARS AN YEARLY AFTER). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET

MAINTAIN DRAINAGE SWALES SHOWN ON PLAN, TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE

ALL STORM INLETS TO BE CONSTRUCTED WITH A 12" SUMP



**ALPINE ENGINEERING INC.**  
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 WWW.ALPINECIVIL.COM

**1215 CHAMBERS AVE.**  
 STORAGE FACILITY  
 EAGLE, CO  
 STORM PLAN

NO.	DATE	REVISIONS	BY
01	01/30/2026	SITE DEVELOPMENT PERMIT	MCW

DESIGNED	MW	CHECKED	MW	DATE	02-11-2025
DRAWN	MW	JOB NO.			

SHEET C3.2

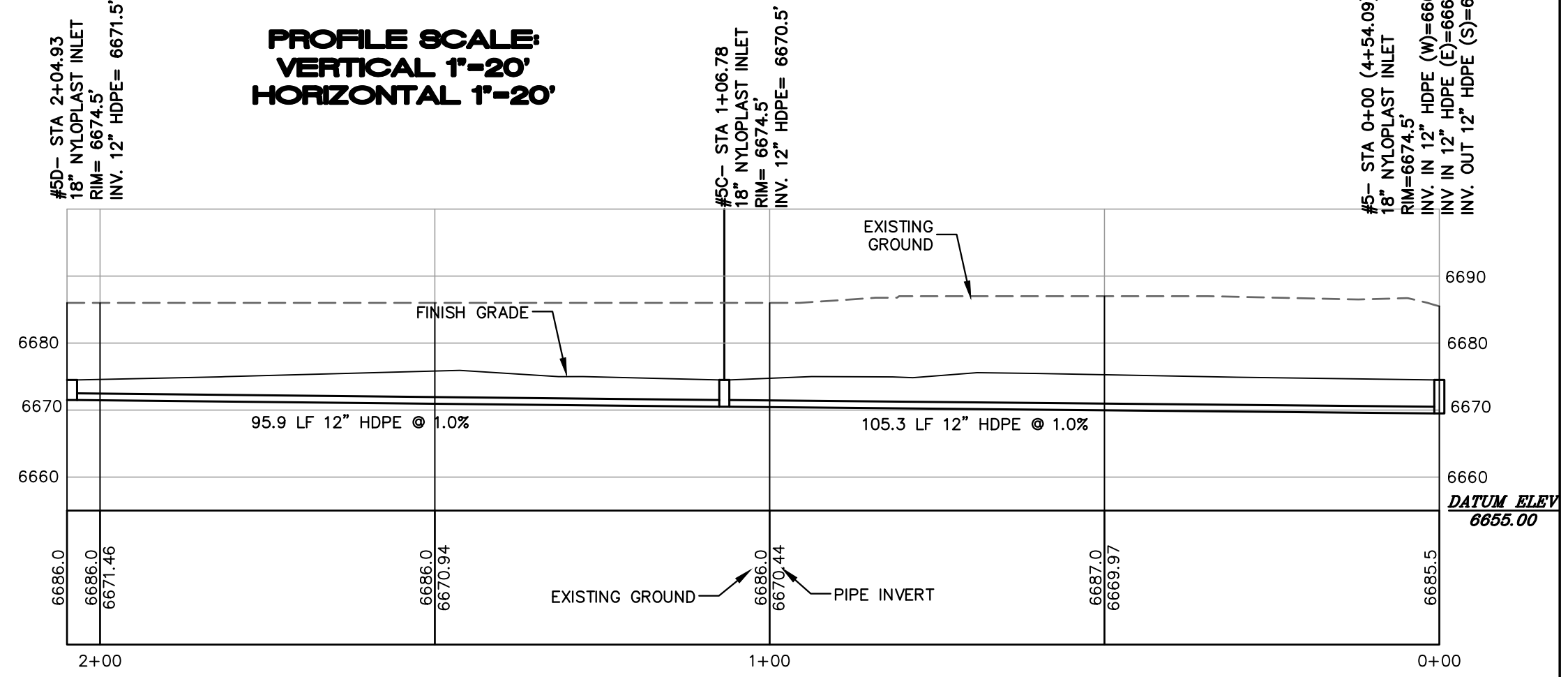
C:\Bentley\1215 Chambers Storage 2025\1215 Chambers Storm 1215 Chambers Storm.dwg, 02/11/2025 12:34:15 PM, AutoCAD PDF High Quality Plotter.ctb



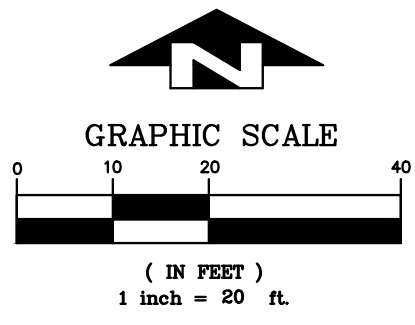


**PROFILE: STORM-5D**

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



- LEGEND**
- PROPERTY LINE
  - - - - - 6672 EXISTING CONTOUR
  - - - - - EASEMENT
  - - - - - 8106 PROPOSED CONTOUR
  - - - - - 1.5% PROPOSED GRADING, SLOPE/SPOT
  - - - - - 2.5% EXISTING GRADING, SLOPE/SPOT
  - PROPOSED STORM SEWER
  - PROPOSED BOULDER RETAINING
  - PROPOSED CONCRETE/ASPHALT

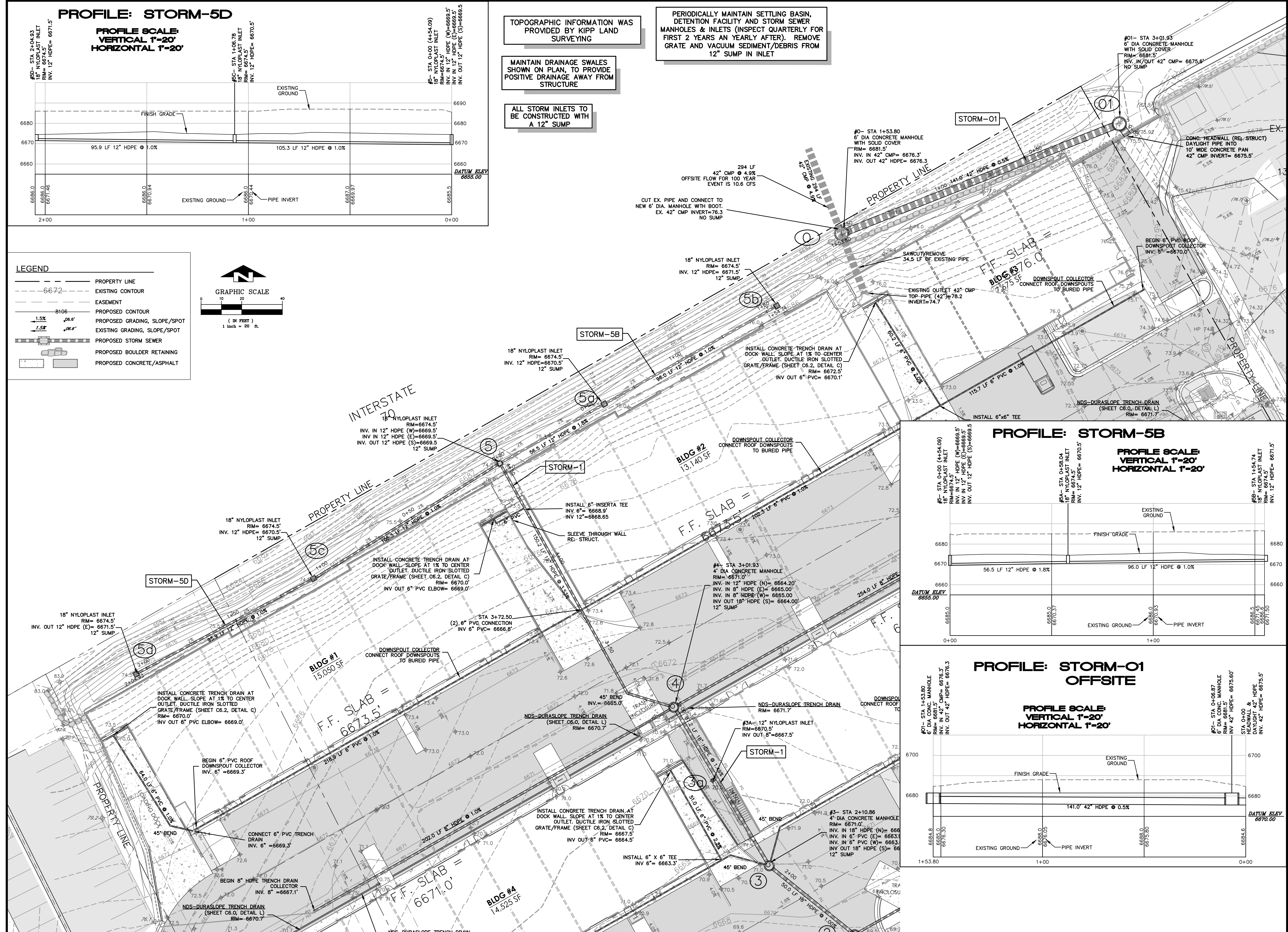


TOPOGRAPHIC INFORMATION WAS PROVIDED BY KIPP LAND SURVEYING

MAINTAIN DRAINAGE SWALES SHOWN ON PLAN, TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE

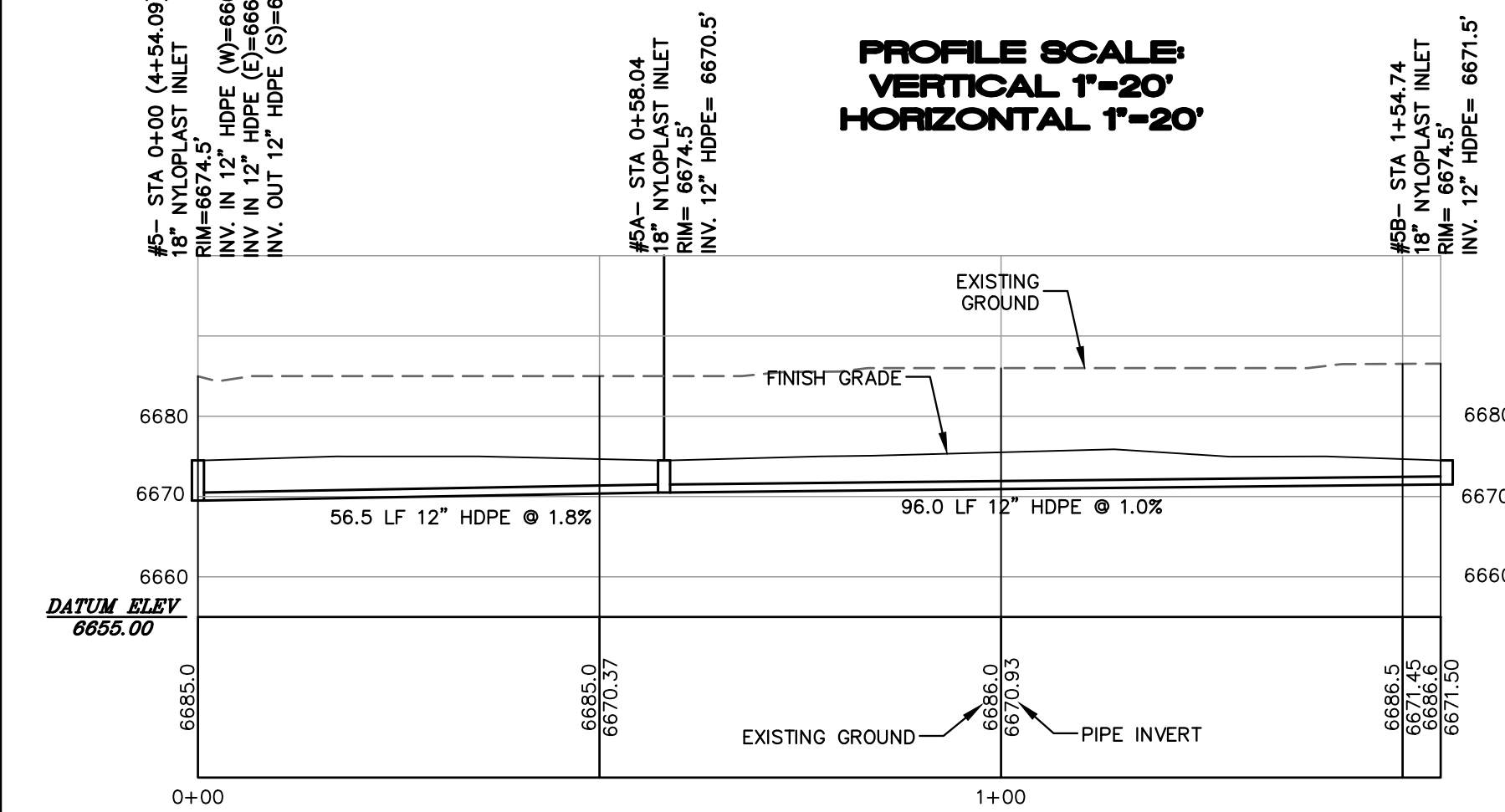
ALL STORM INLETS TO BE CONSTRUCTED WITH A 12" SUMP

PERIODICALLY MAINTAIN SETTLING BASIN, DETENTION FACILITY AND STORM SEWER MANHOLES & INLETS (INSPECT QUARTERLY FOR FIRST 2 YEARS AN YEARLY AFTER). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET



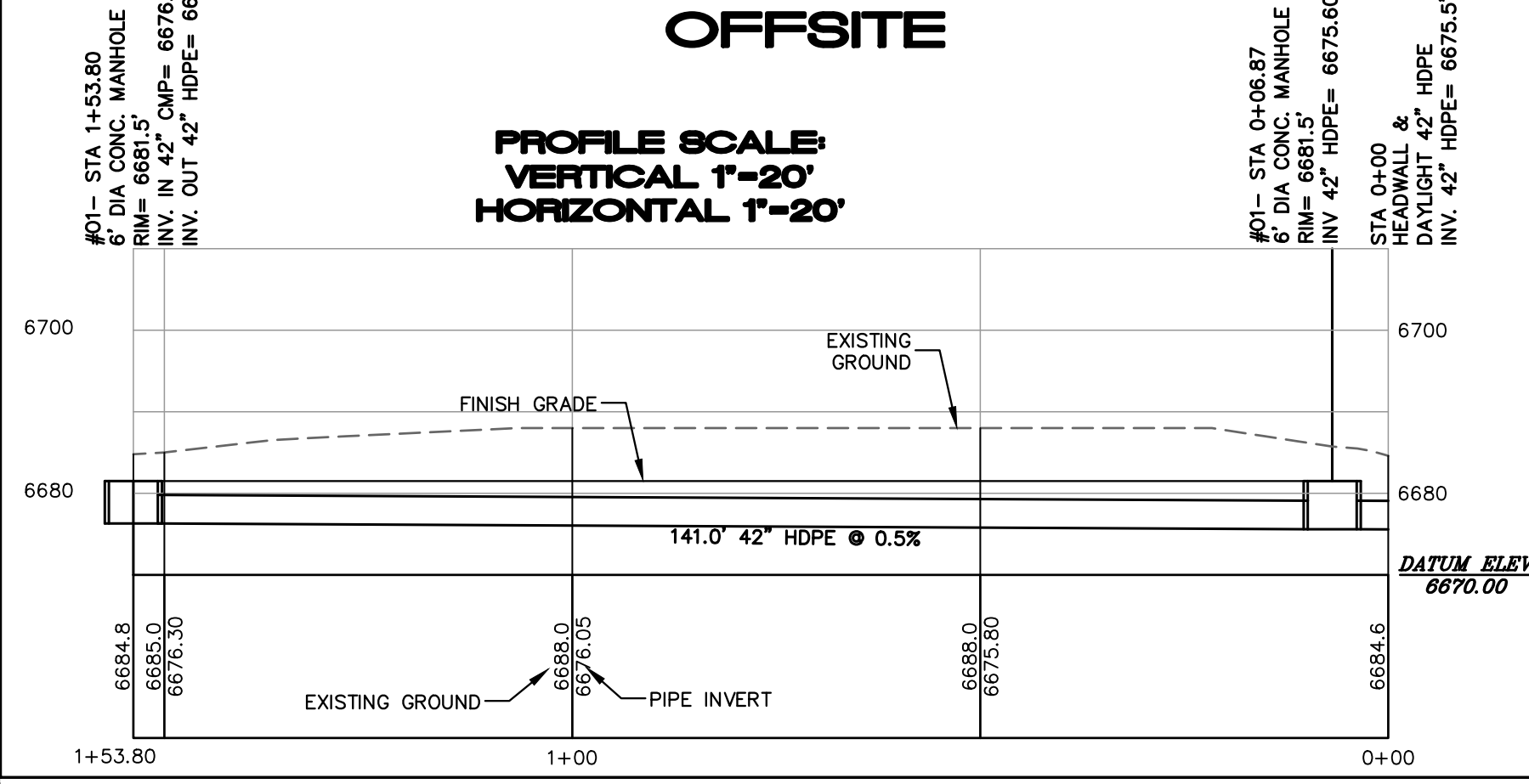
**PROFILE: STORM-5B**

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



**PROFILE: STORM-01 OFFSITE**

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



**1215 CHAMBERS AVE.**  
STORAGE FACILITY  
EAGLE, CO  
STORM PROFILES

NO.	DATE	REVISIONS
01	01/30/2026	SITE DEVELOPMENT PERMIT

DESIGNED	DRAWN	CHECKED	JOB NO.	DATE
MW	MW	MW	02-11-2025	

**SHEET C3.5**





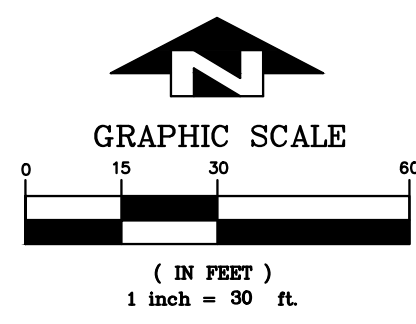
NO.	DATE	REVISIONS
	01/30/2025	SITE DEVELOPMENT PERMIT
DESIGNED	MW	
DRAWN	MW	
CHECKED	MW	
JOB NO.		
DATE	02-11-2025	

- LEGEND**
- W — EROSION LOG WATTLES
  - SLT — SILT FENCE
  - [Pattern] STABILIZED CONSTRUCTION ENTRANCE
  - [Square] SILT SACK INLET PROTECTION
  - [Circle] EROSION LOG AT INLET
  - [Ditch] DITCH EROSION LOG

CONTRACTOR SHALL DEVELOP A MEANS AND METHODS TO CONTROL SEDIMENT DURING CONSTRUCTION TO ASSURE THAT NO SEDIMENT IS DISCHARGED OFF-SITE.

PERIODICALLY MAINTAIN STORM SEWER INLETS (MINIMUM ONCE PER YEAR). REMOVE GRATE AND VACUUM SEDIMENT/DEBRIS FROM 12" SUMP IN INLET

ALL DISTURBED AREAS MUST BE REVEGETATED (RE: LANDSCAPE)



- GENERAL NOTES FOR SEDIMENT CONTROL**
- CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING & MANAGEMENT PLAN IDENTIFYING CONSTRUCTION FENCING, STAGING, STORAGE & CONSTRUCTION TRAILER LOCATION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
  - INSTALL AND MAINTAIN SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THESE PLANS AND AS NEEDED TO PREVENT SEDIMENT FROM DISCHARGING OFF-SITE OR ENTERING THE RIVER.
  - ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.
  - SEDIMENT CONTROL MEASURES MAY REQUIRE FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION TO INSURE THAT THEIR INTENDED PURPOSE IS ACCOMPLISHED.
  - PROVIDE REGULAR INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES TO INSURE THAT SEDIMENT CONTROL EFFICIENCY IS OBTAINED UNTIL FINAL STABILIZATION OF SITE HAS TAKEN PLACE.
  - INSTALL SEDIMENT CONTROL MEASURES AT THE ONSET OF GRADING OPERATIONS SO THAT EFFECTIVE SEDIMENT CONTROL CAN BE ACHIEVED DURING THE ENTIRE CONSTRUCTION PERIOD.
  - STABILIZE ALL POINTS OF INGRESS AND EGRESS WITH TRACKING PAD DURING CONSTRUCTION TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
  - FOR TEMPORARY STOCKPILES APPLY SEED, HYDROMULCH AND TACKIFIER IMMEDIATELY AFTER THEY ARE CONSTRUCTED FOR STABILIZATION. IF EROSION OCCURS AFTER APPLICATION OF THE TACKIFIER, USE EXCELSOR G2 EROSION CONTROL FABRIC. INSTALL SILT FENCE BELOW STOCKPILES TO CAPTURE SEDIMENT.
  - THE TERM "REVEGETATION" ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF FERTILIZER IN ACCORDANCE WITH APPLICABLE "STANDARDS AND SPECIFICATIONS". REFER TO LANDSCAPE PLANS FOR SEED MIX, FERTILIZER TYPE, MULCH, TACKIFIER AND APPLICATION RATES.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE APPROPRIATE MEASURES TO INSURE THAT NO SEDIMENT LADEN WATER IS DISCHARGED FROM THE SITE.
  - APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT CONTROLS.
  - CONTRACTOR SHALL OBTAIN AND CONFORM TO STORMWATER DISCHARGE PERMIT AND ALL ENVIRONMENTAL PERMITS AND KEEP "STREETS CLEAN AND FREE OF SEDIMENT".
  - REMOVAL AND CLEANUP OF ANY SEDIMENT THAT LEAVES THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.

- CONSTRUCTION SEQUENCE OF EROSION/SEDIMENT CONTROL MEASURES**  
 BEFORE COMMENCING GRADING OR CONSTRUCTION
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF INGRESS AND EGRESS.
  - CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
  - CONSTRUCT SILT FENCE AND WATTLES AND ALL SEDIMENT CONTROL DEVICES.
  - BEGIN DEMOLITION, EXCAVATION AND CONSTRUCTION.
  - INSTALL EROSION CONTROL MEASURES AFTER DITCHES AND SWALES HAVE BEEN CONSTRUCTED AND TOPSOIL AND SEED HAVE BEEN PLACED. INSTALL INLET PROTECTION IN ALL INLETS AS THEY ARE CONSTRUCTED.
  - TOPSOIL AND REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX PER LANDSCAPE PLAN.
  - CONTRACTOR SHALL REMOVE SEDIMENT CONTROL FACILITIES AFTER FINAL STABILIZATION.

- FUGITIVE DUST CONTROL**  
 THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST AND TO INCORPORATE THE FOLLOWING:
- ALL UNPAVED ROADS AND OTHER DISTURBED AREAS ON SITE SHALL BE WATERED TO MINIMIZE FUGITIVE DUST.
  - HAUL ROADS SHALL BE TREATED WITH MAGNESIUM CHLORIDE IF WATER IS NOT CONTROLLING THE DUST.
  - ALL DISTURBED SURFACE AREAS SHALL BE REVEGETATED OR SURFACED PER THE LANDSCAPE PLAN AS SOON AS POSSIBLE.
  - MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE PREVENTED. ANY MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE CLEANED UP DAILY.

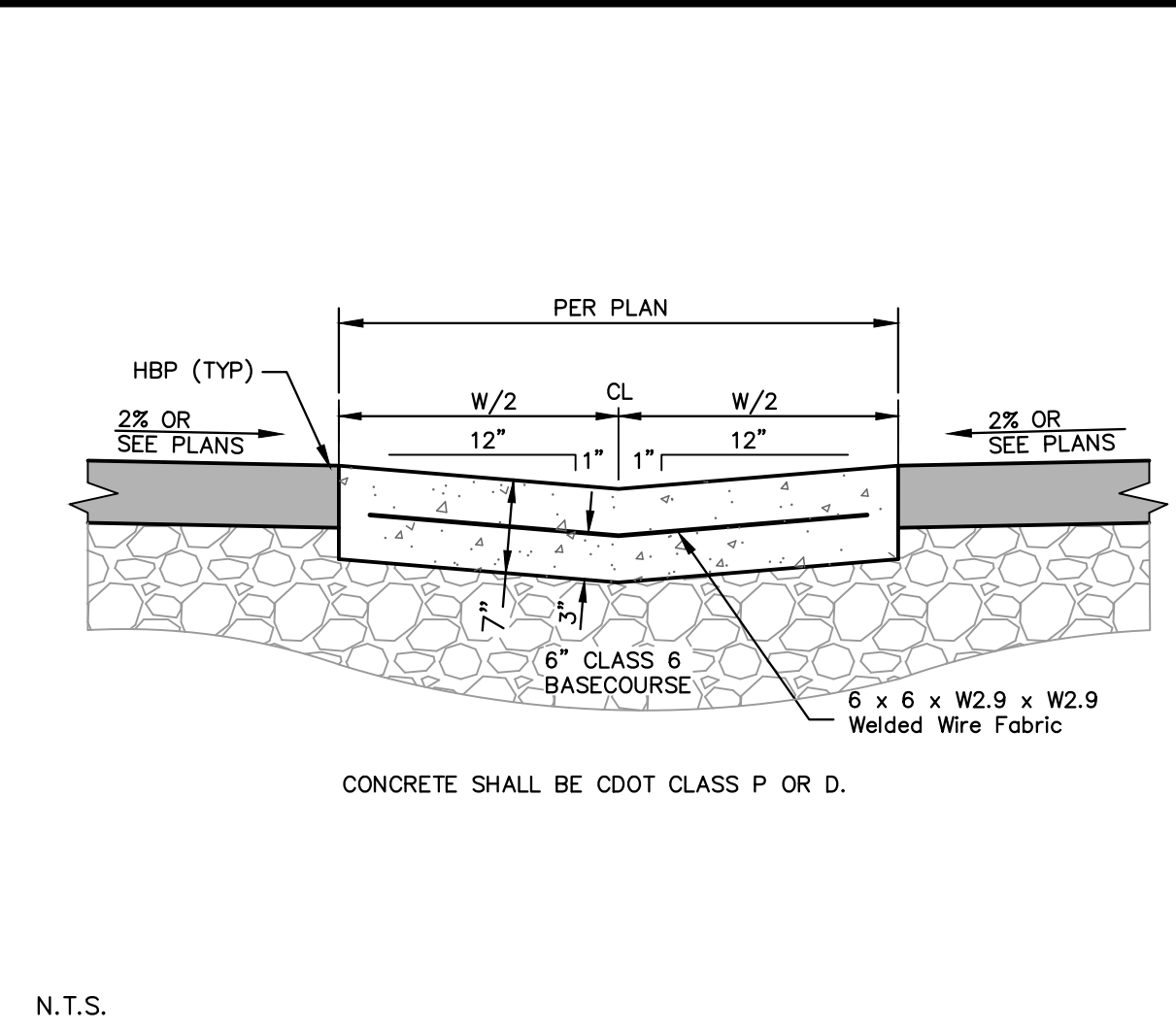
CONTRACTOR SHALL MARKUP A SITE MAP WITH SOIL STOCKPILES, DUMPSTERS, PORTABLE TOILETS, MATERIAL STORAGE AREAS, CONSTRUCTION WASTE AND THE EROSION CONTROL LOGS UTILIZED AS STOCKPILE CONTAINMENT AS THEY ARE IMPLEMENTED.  
 PORTABLE TOILETS ARE TO BE STAKED DOWN.

A CONCRETE WASHOUT IS TO BE USED FOR WASTE CONCRETE.  
 A. Direct wash water into a leak-proof container or leak-proof and lined pit designed so that no overflows can occur due to inadequate sizing or precipitation;  
 B. Handle washout or cleanout wastes as follows:  
 i. Do not dump liquid wastes in storm sewers or waters of the U.S.;  
 ii. Dispose of liquid wastes in accordance with applicable requirements; and  
 iii. Remove and dispose of hardened concrete waste consistent with your handling of other construction wastes.  
 C. Locate any washout or cleanout activities as far away as possible from waters of the U.S. and stormwater inlets or conveyances, and, to the extent feasible, designate areas to be used for these activities and conduct such activities only in these areas.

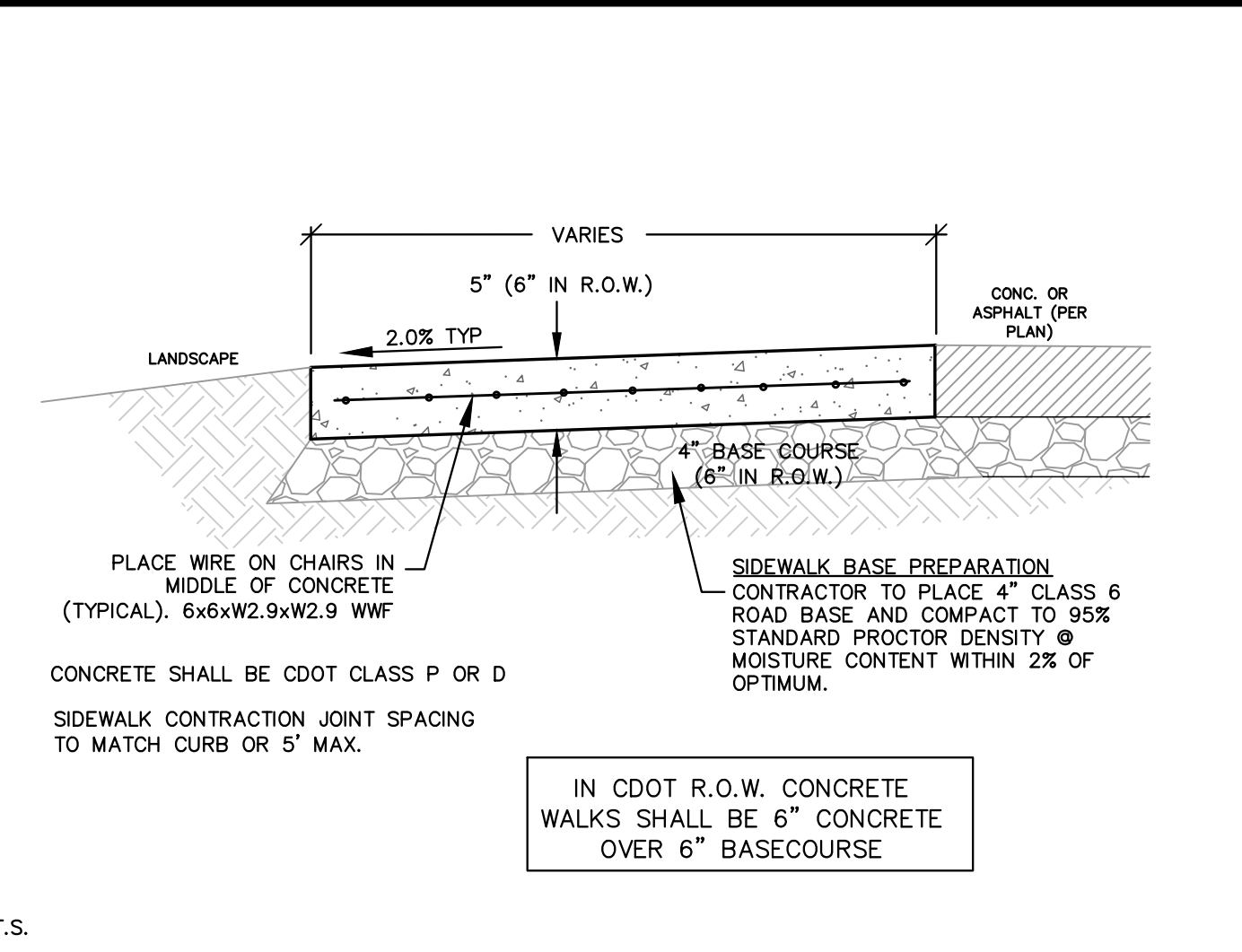


(SEAL)

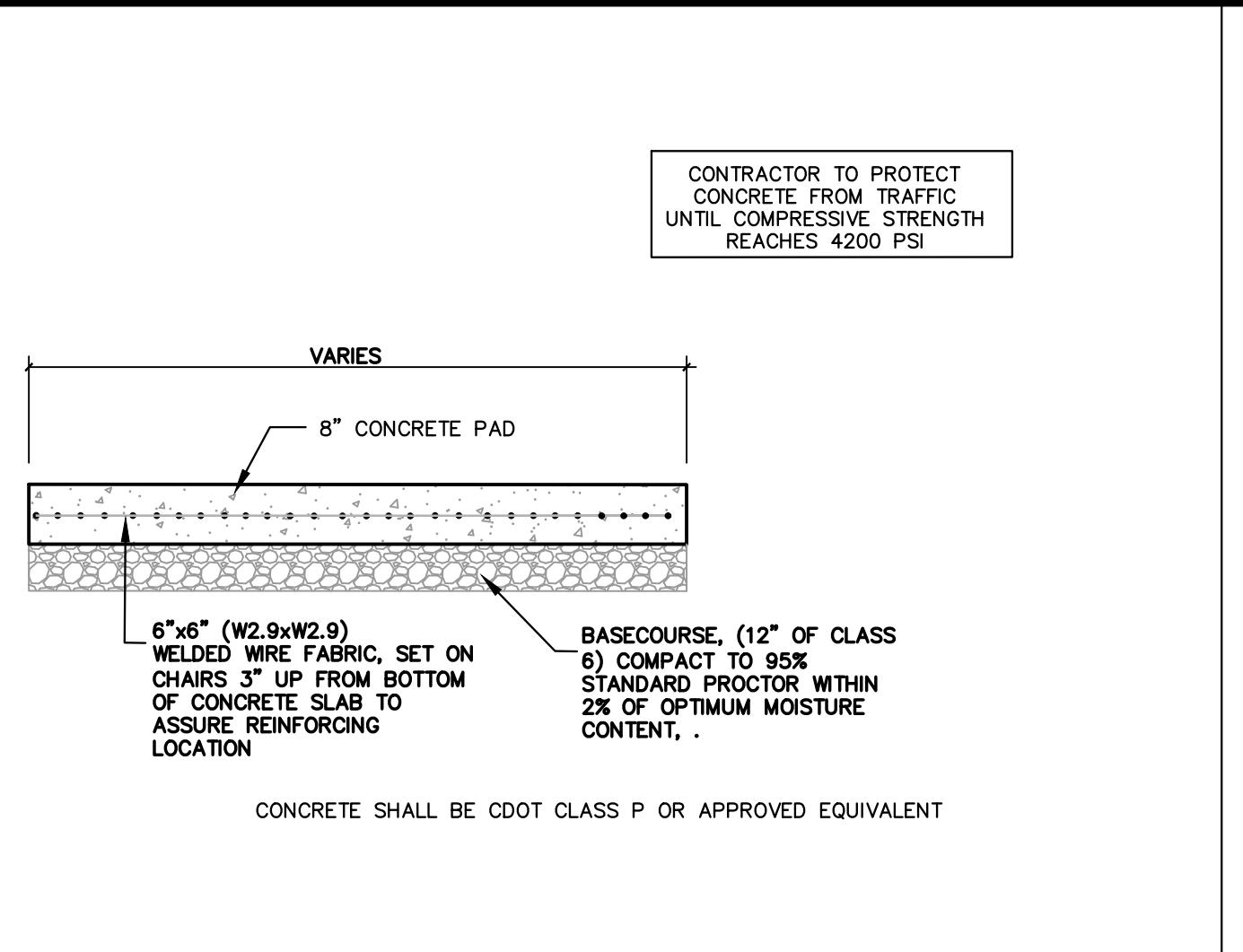
BY	MCW
REVISIONS	
DATE	01/30/2026
NO.	
DESIGNED BY	MW
DRAWN BY	MW
CHECKED BY	MW
JOB NO.	
DATE	02-11-2025



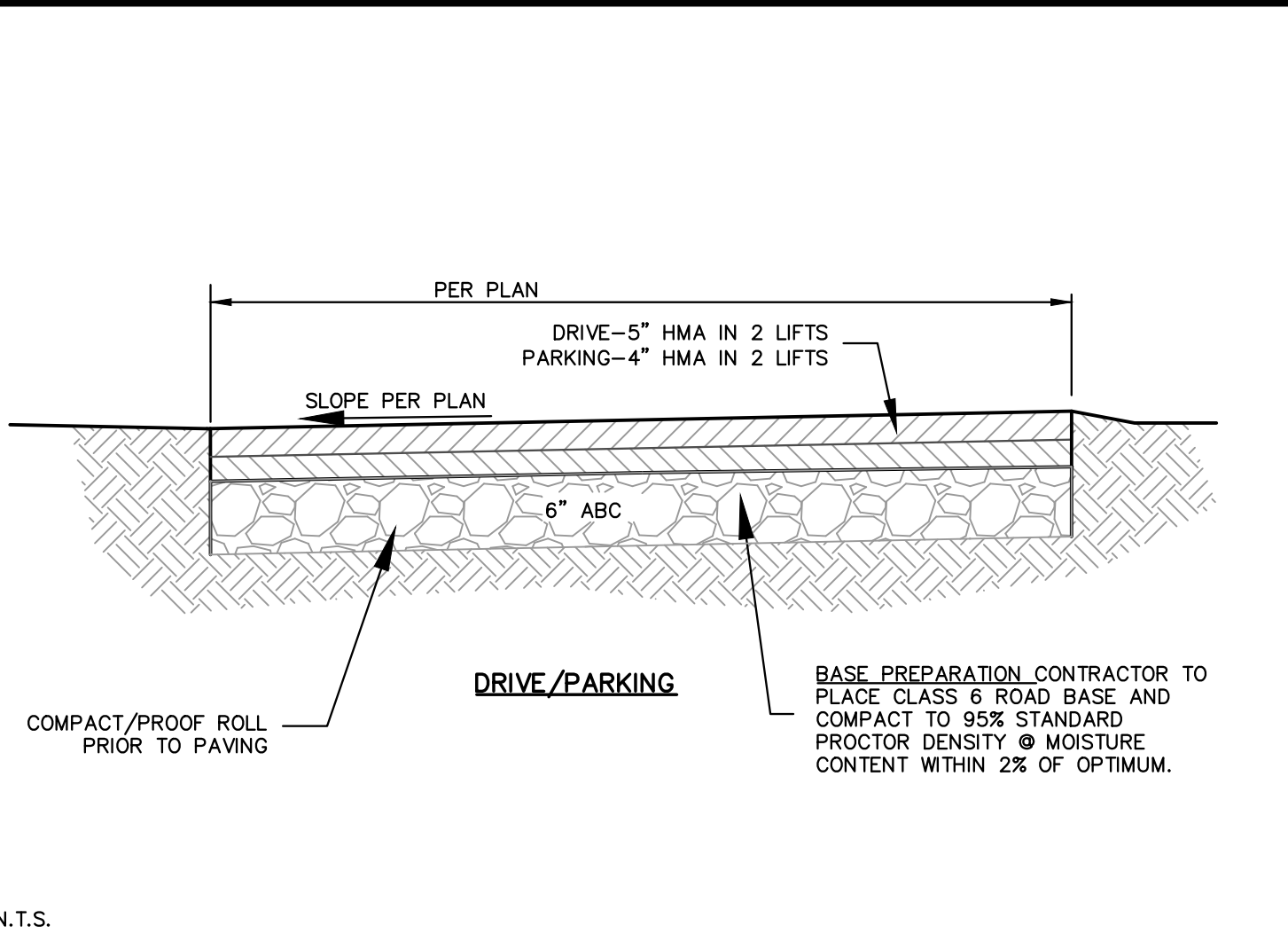
**D CONCRETE PAN**



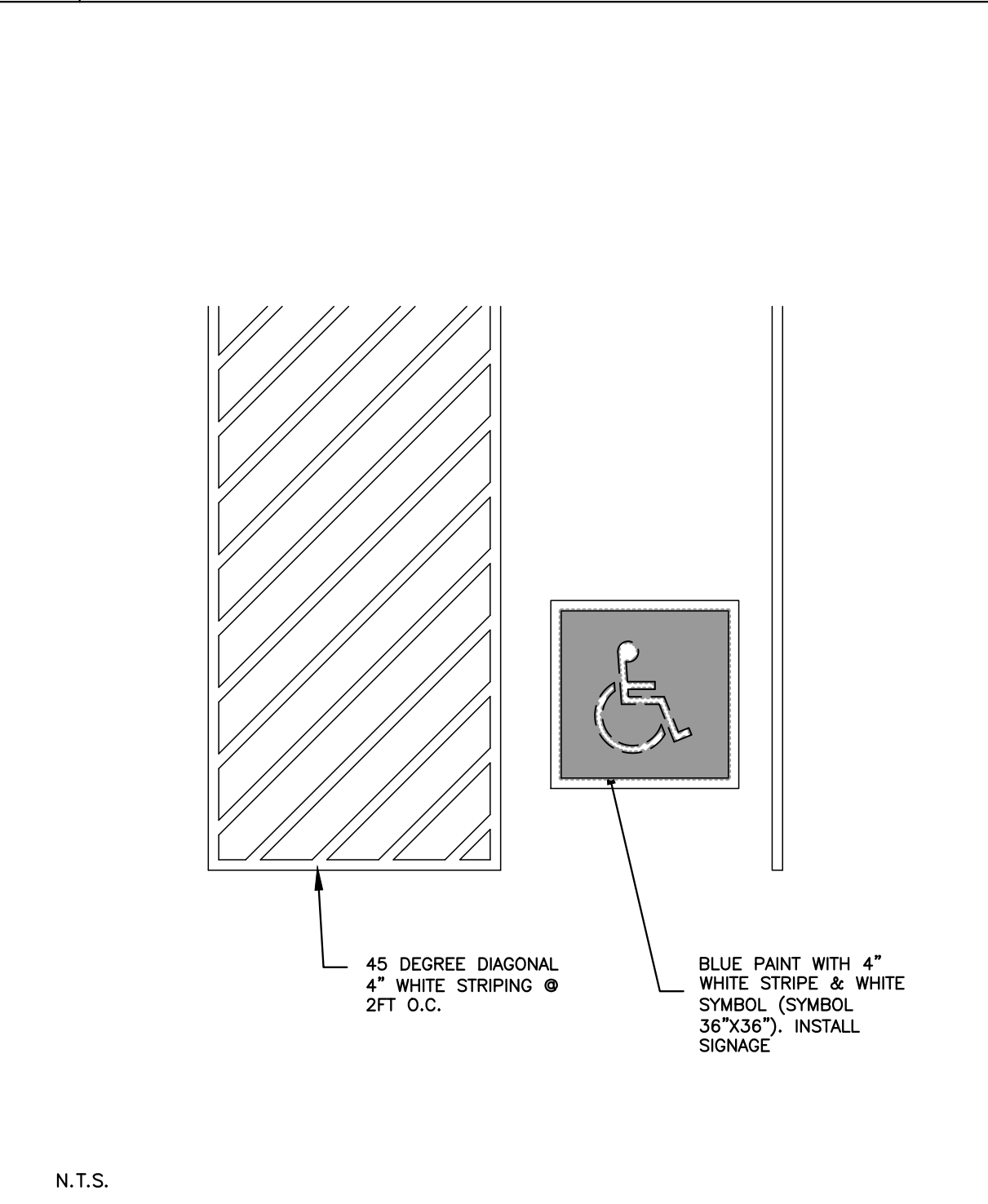
**C CONCRETE SIDEWALK SECTION**



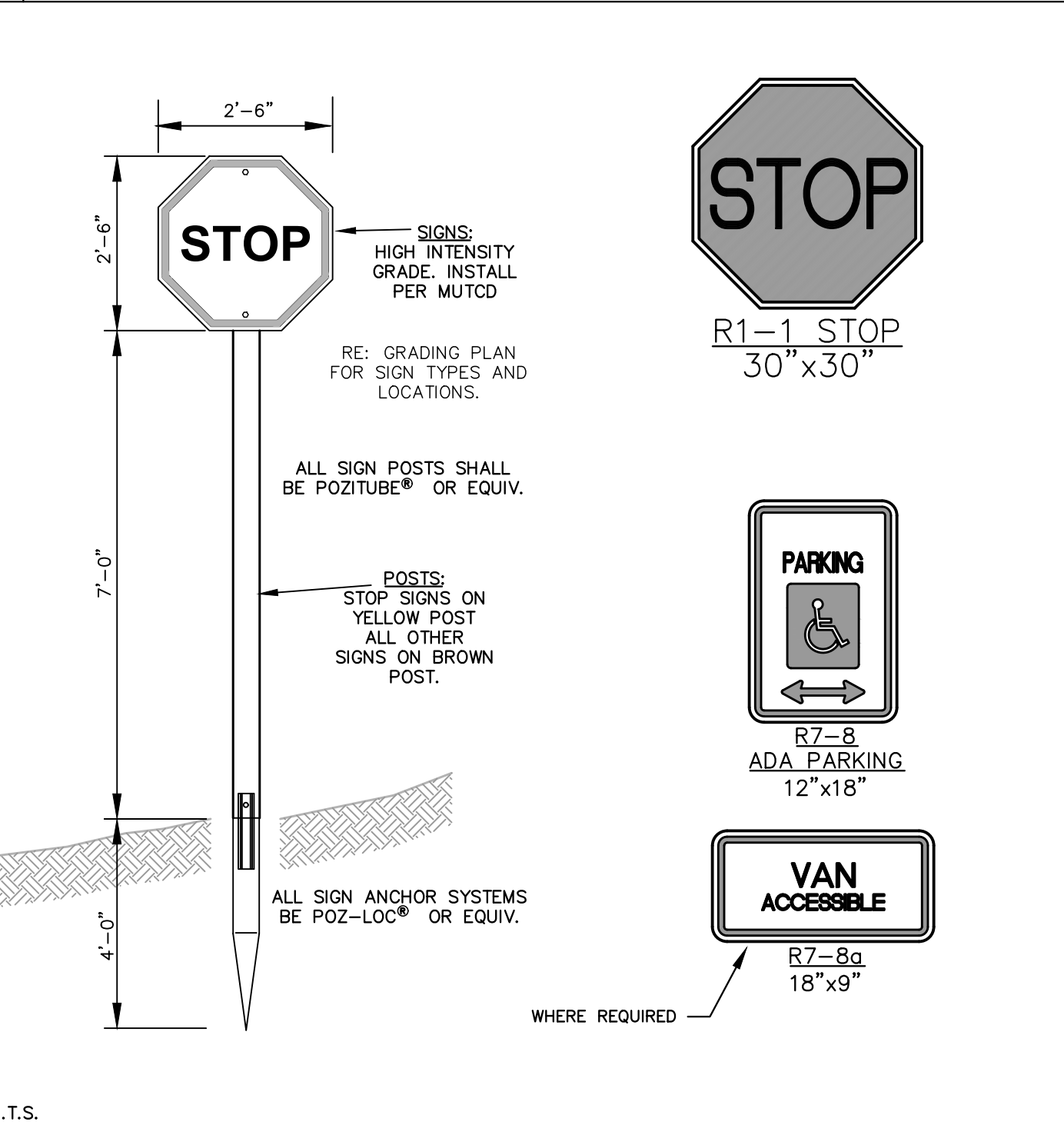
**B CONCRETE DUMPSTER PAD / LOADING DOCK RAMP**



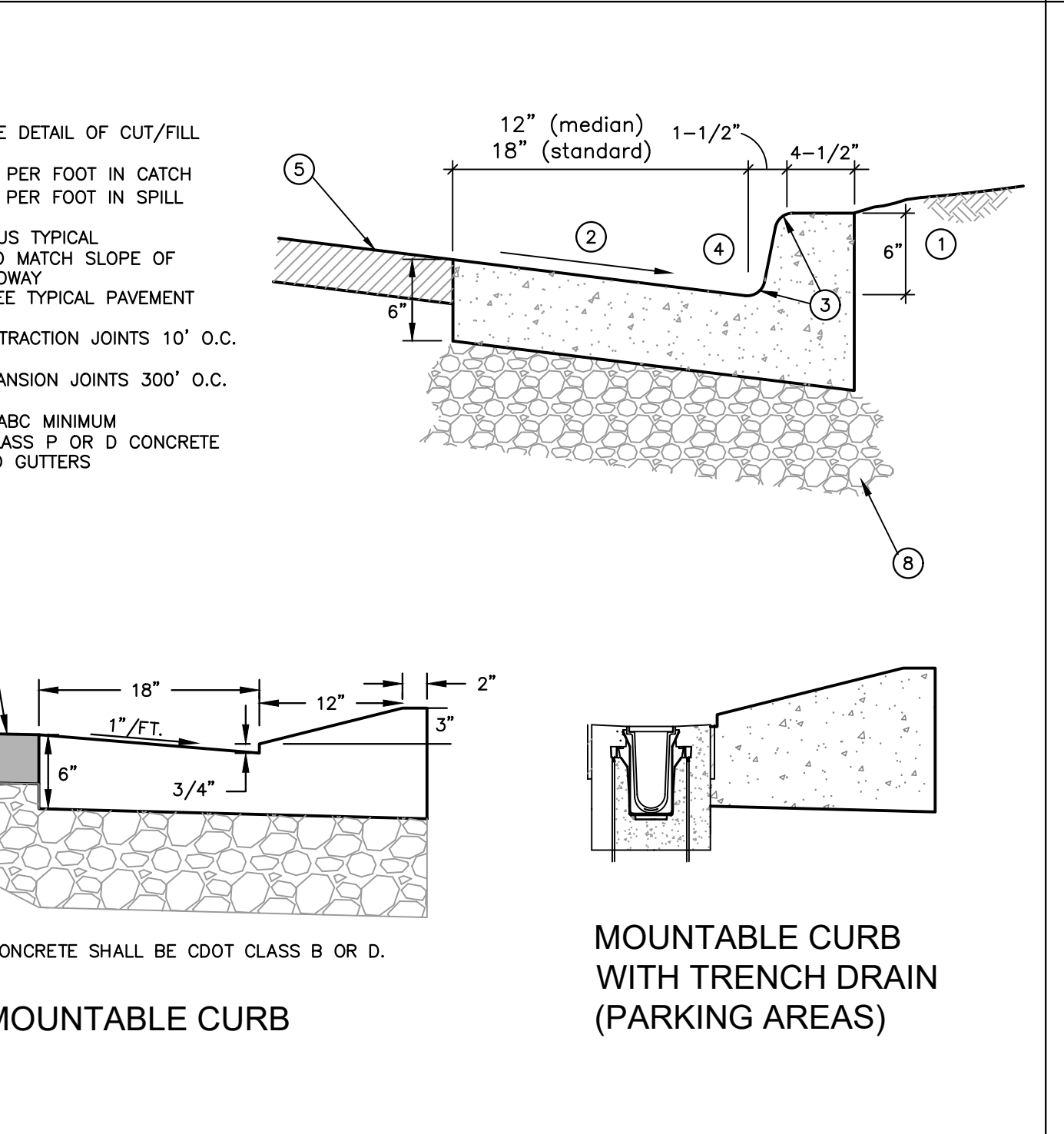
**A ASPHALT SECTION**



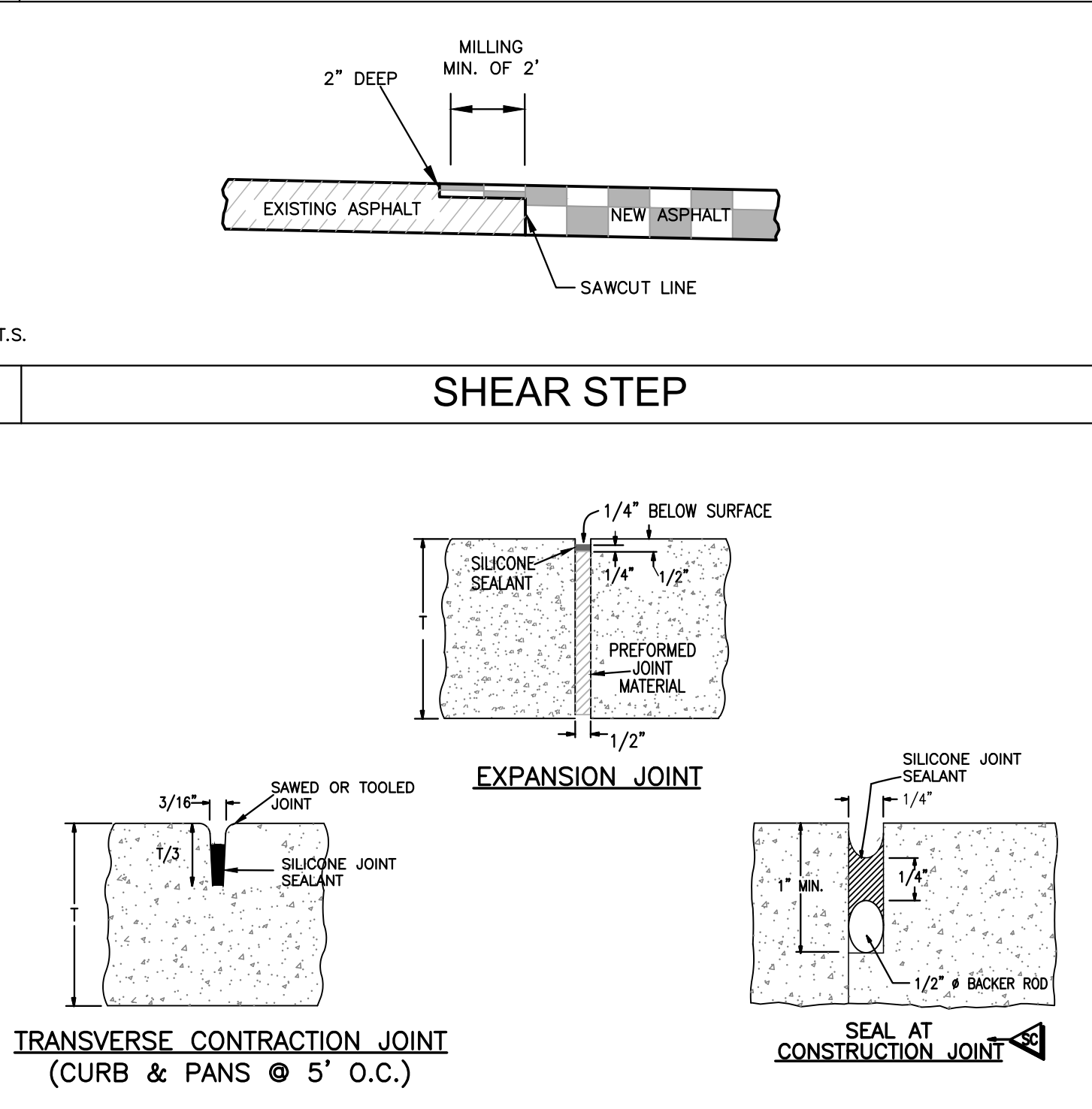
**I HANDICAP PARKING**



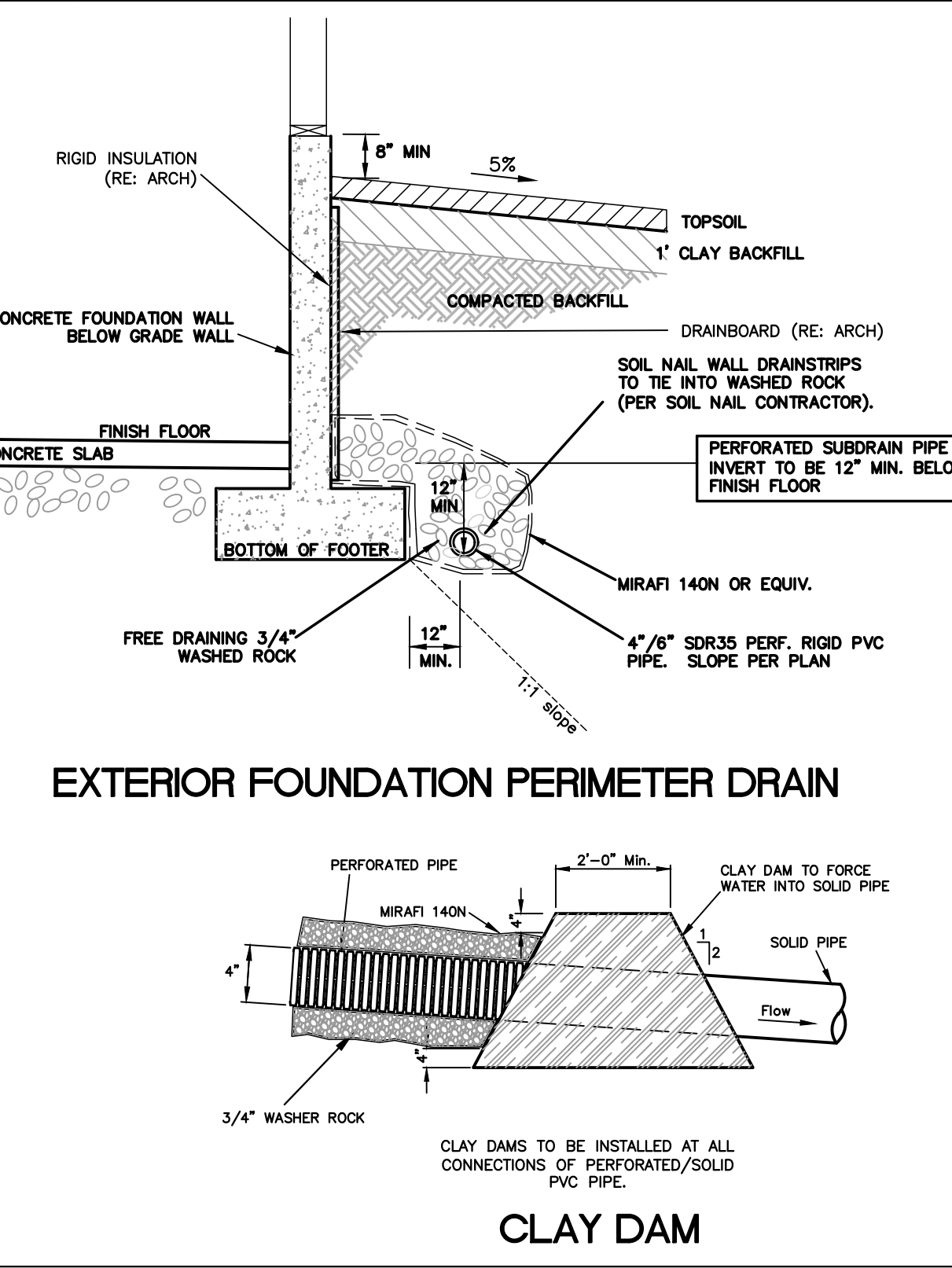
**H SIGNAGE**



**G CURB & GUTTER**



**F SHEAR STEP**



**M FOUNDATION SUBDRAIN DETAILS**

**PROJECT NAME:** TS\_DS\_GRADE\_C-DI-SLOTTED\_ADDA\_LOAD D

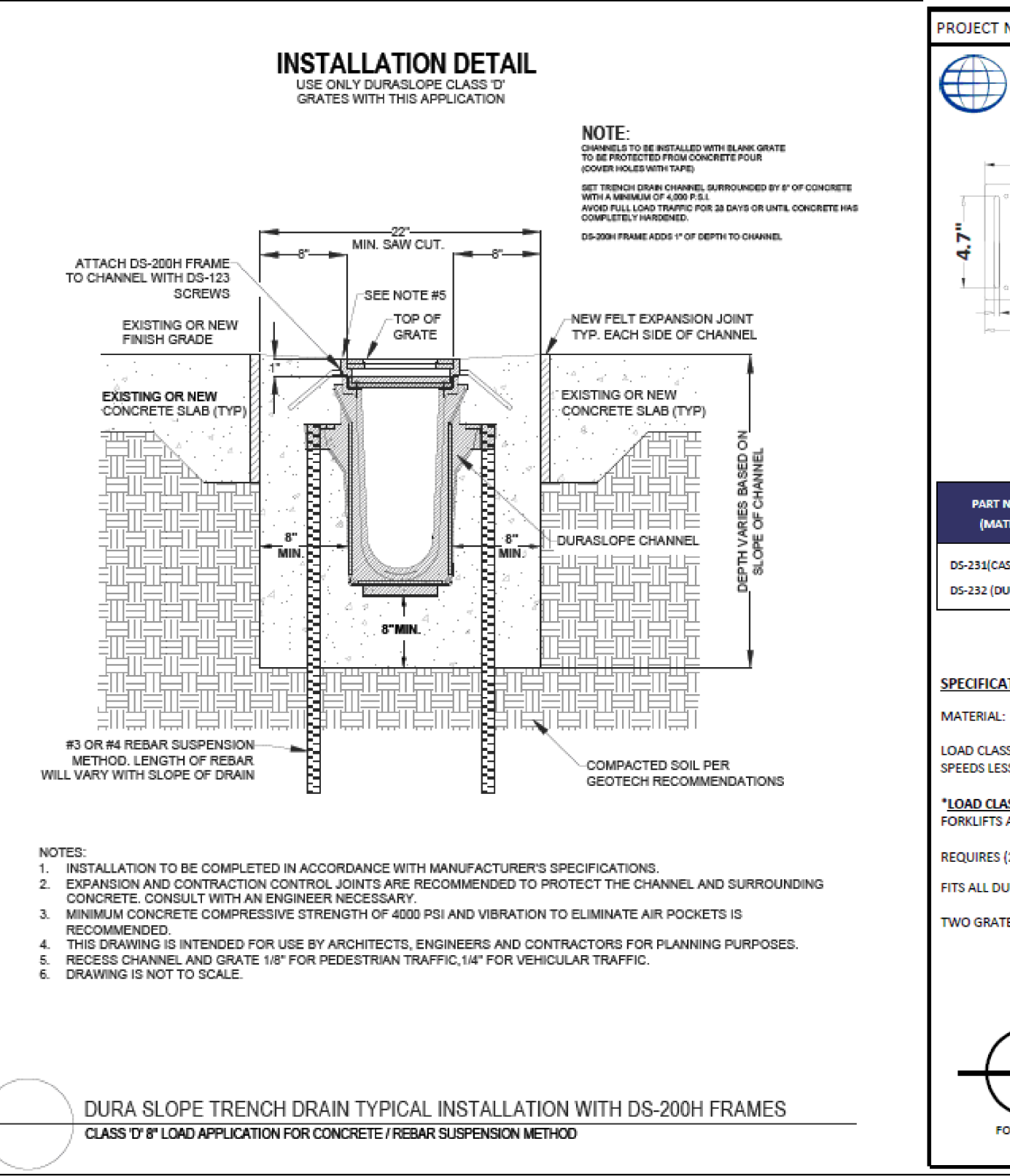
**TECHNICAL SPECIFICATION**  
 DURA SLOPE™ CAST IRON/DUCTILE IRON SLOTTED GRATE

PART NUMBER (MATERIAL)	SIZE	SLOT WIDTH	LOAD CLASS	OPEN AREA FLOW RATE @ 1/2" HEAD	WEIGHT (MATERIAL)	ADA	HEEL PROOF
DS-23(CAST IRON)	6" x 24" x 0.75"	31" x 4.70"	C,D*	OPEN AREA—17.23 IN <sup>2</sup> /LF FLOW RATE—53 GPM / LF	15.90L (EI)	YES	YES
DS-22 (DUCTILE IRON)	6" x 24" x 0.75"	31" x 4.70"	C,D*	OPEN AREA—17.23 IN <sup>2</sup> /LF FLOW RATE—53 GPM / LF	15.20L (DI)	YES	YES

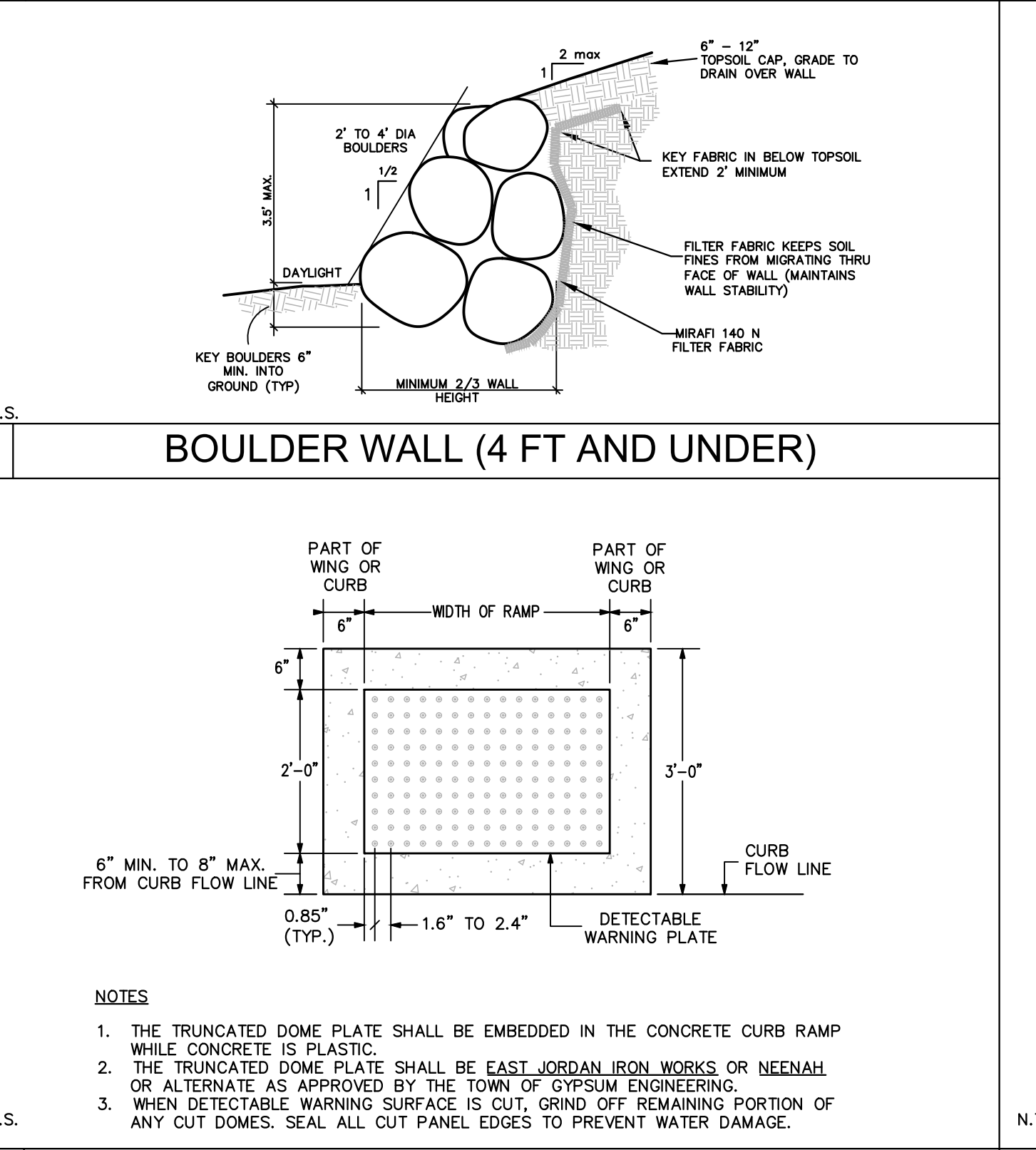
**SPECIFICATION:**  
 MATERIAL: CAST IRON/DUCTILE IRON — 6" WIDE x 24" LONG x 0.75" HIGH  
 LOAD CLASS C—LOADS OF 176 - 325 PSI, RECOMMENDED FOR HEAVY DUTY PNEUMATIC TIRE FORKTRUCKS AND TRACTOR-TRAILERS AT SPEEDS LESS THAN 20 M.P.H., H-20 RATED  
 \*LOAD CLASS D (REQUIRES DS-200H DUCTILE IRON FRAME) - LOADS OF 326-575 PSI. RECOMMENDED FOR HEAVY-DUTY HARD TIRE FORKTRUCKS AT SPEEDS LESS THAN 20 M.P.H., H-20 RATED  
 REQUIRES (2) FH #1/4-20 x 1-1/2" SCREWS #629 (SUPPLIED WITH CHANNEL)  
 FITS ALL DURA SLOPE CHANNEL SECTIONS AND IN-LINE CATCH BASIN (DS-340)  
 TWO GRATES PER CHANNEL SECTION.

**DURA SLOPE™ GRATE**  
 CAST IRON/DUCTILE IRON SLOTTED GRATE - LOAD CLASS C, D\*  
 FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT [techservice@ndsgro.com](mailto:techservice@ndsgro.com), DESIGN ASSISTANCE - [designw@ndsgro.com](mailto:designw@ndsgro.com)  
 851 N. HARVARD AVE. LINDSAY, CA 95247 WWW.NDSGROUP.COM 1-800-728-1994

**H SIGNAGE**



**L TRENCH DRAIN IN PARKING AREAS- 6" WIDE PRESLOPED SYSTEM**



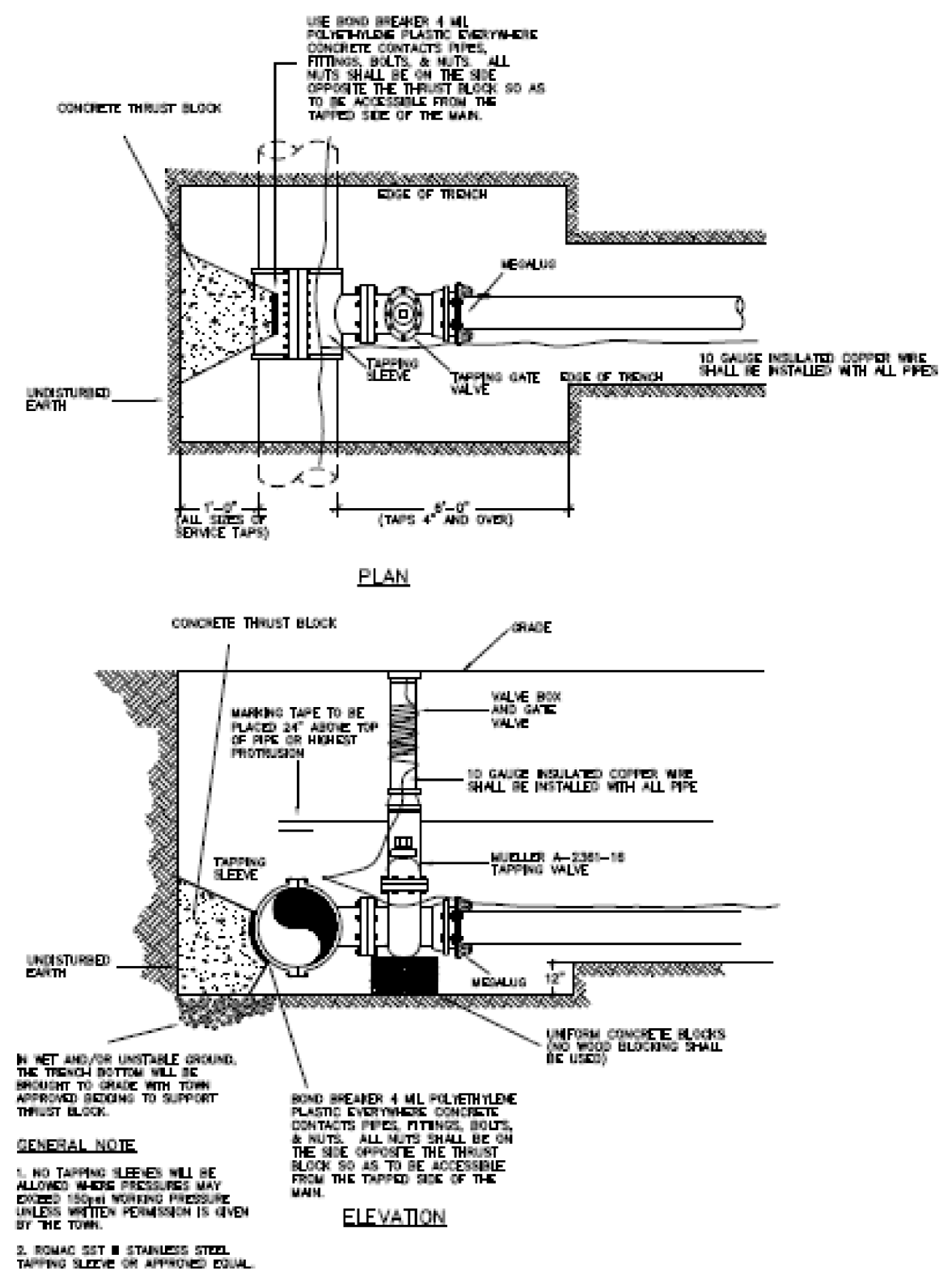
**K ADA RAMP**

**J BOULDER WALL (4 FT AND UNDER)**



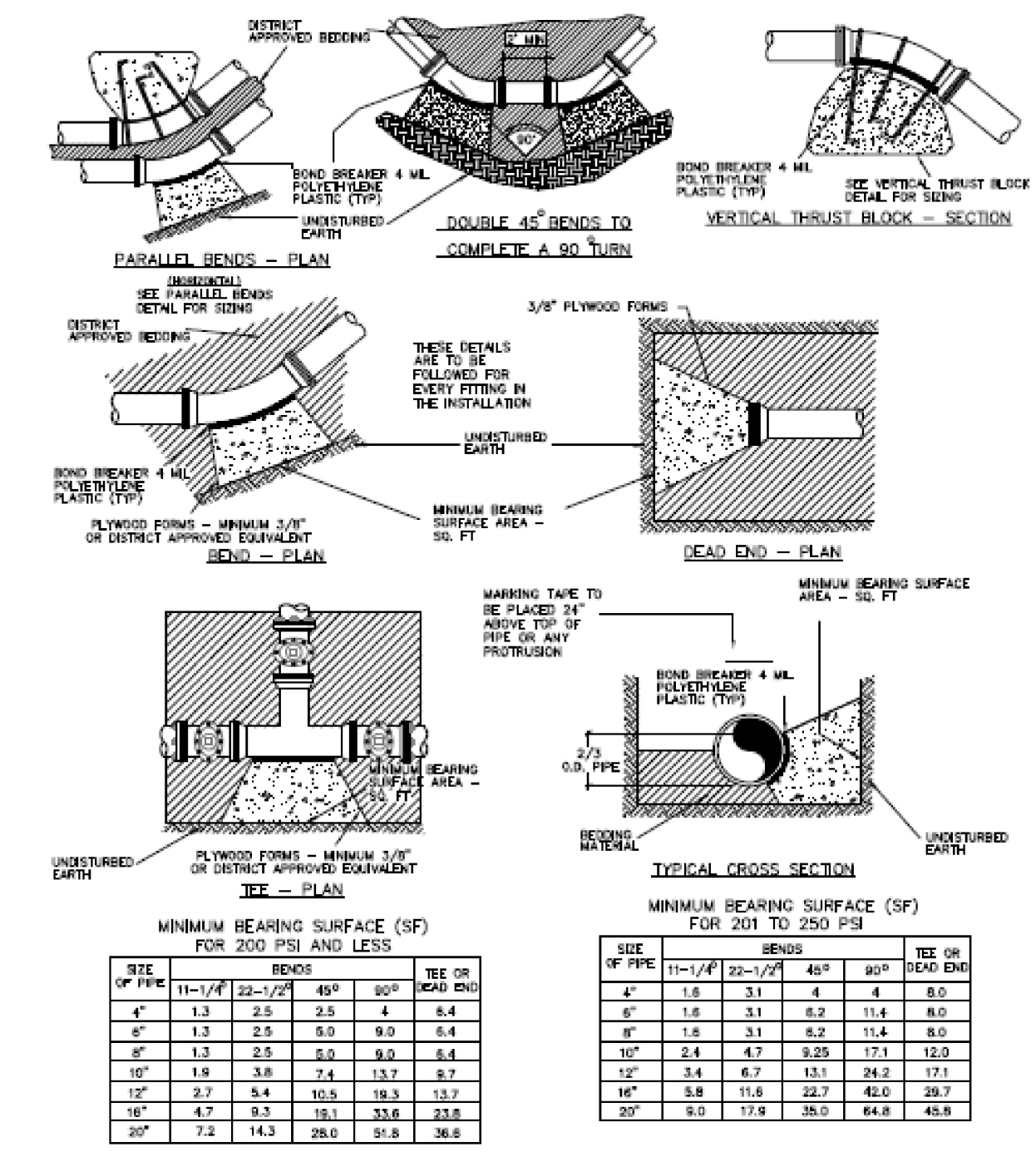






Title: DETAIL - Tapping Sleeve  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: TOE Tapping Sleeve.dwg  
 Date: 1/12/2018

**B18**



MINIMUM BEARING SURFACE (SF) FOR 200 PSI AND LESS:

SIZE OF PIPE	90° BEND	45° BEND	TEE OR ROAD END
4"	1.3	2.5	4
6"	1.3	2.5	6.0
8"	1.3	2.5	8.0
10"	1.8	3.8	12.0
12"	2.7	5.4	18.0
14"	4.7	9.3	33.6
16"	7.2	14.3	50.8

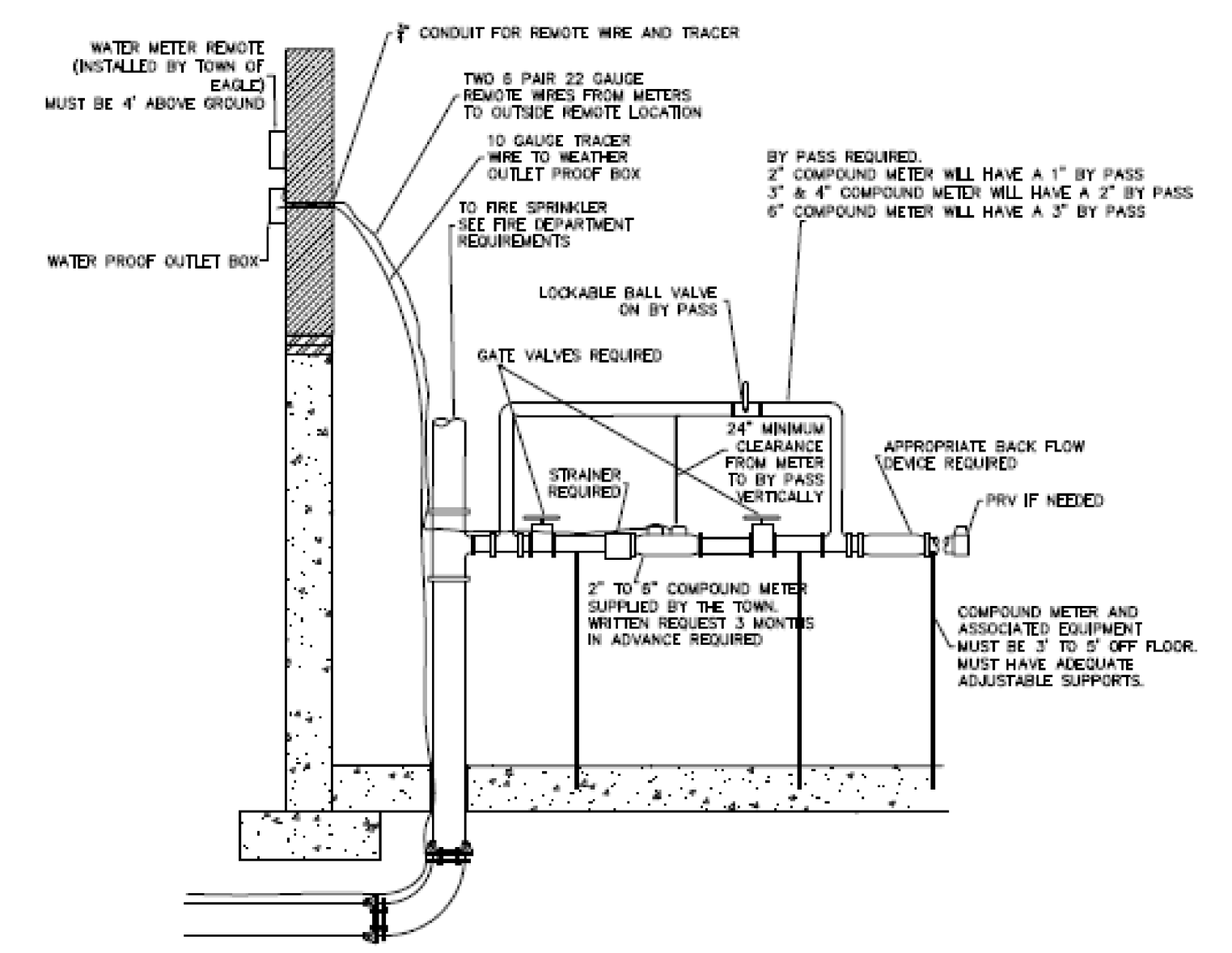
MINIMUM BEARING SURFACE (SF) FOR 201 TO 250 PSI:

SIZE OF PIPE	90° BEND	45° BEND	TEE OR ROAD END
4"	1.8	3.1	4
6"	1.8	3.1	6.2
8"	1.8	3.1	8.2
10"	2.4	4.7	12.0
12"	3.4	6.7	18.0
14"	5.8	11.6	33.6
16"	9.0	17.8	50.8

- GENERAL NOTES:
1. WEDGED RESTRAINTS SHALL BE USED IN CONNECTION WITH THRUSTBLOCKS.
  2. MINIMUM AREA REQUIRED SHALL BE THAT OF AN 8 INCH MANHOLE.
  3. ALL THRUST BLOCKS SHALL BE FINISHED, THE MINIMUM THICKNESS OF MATERIAL SHALL BE 3/4" FLYWOOD OR DETRACT APPROVED EQUIVALENT.
  4. BEARING AREA BASED ON SOIL BEARING CAPACITY OF 2000 LB/SF.

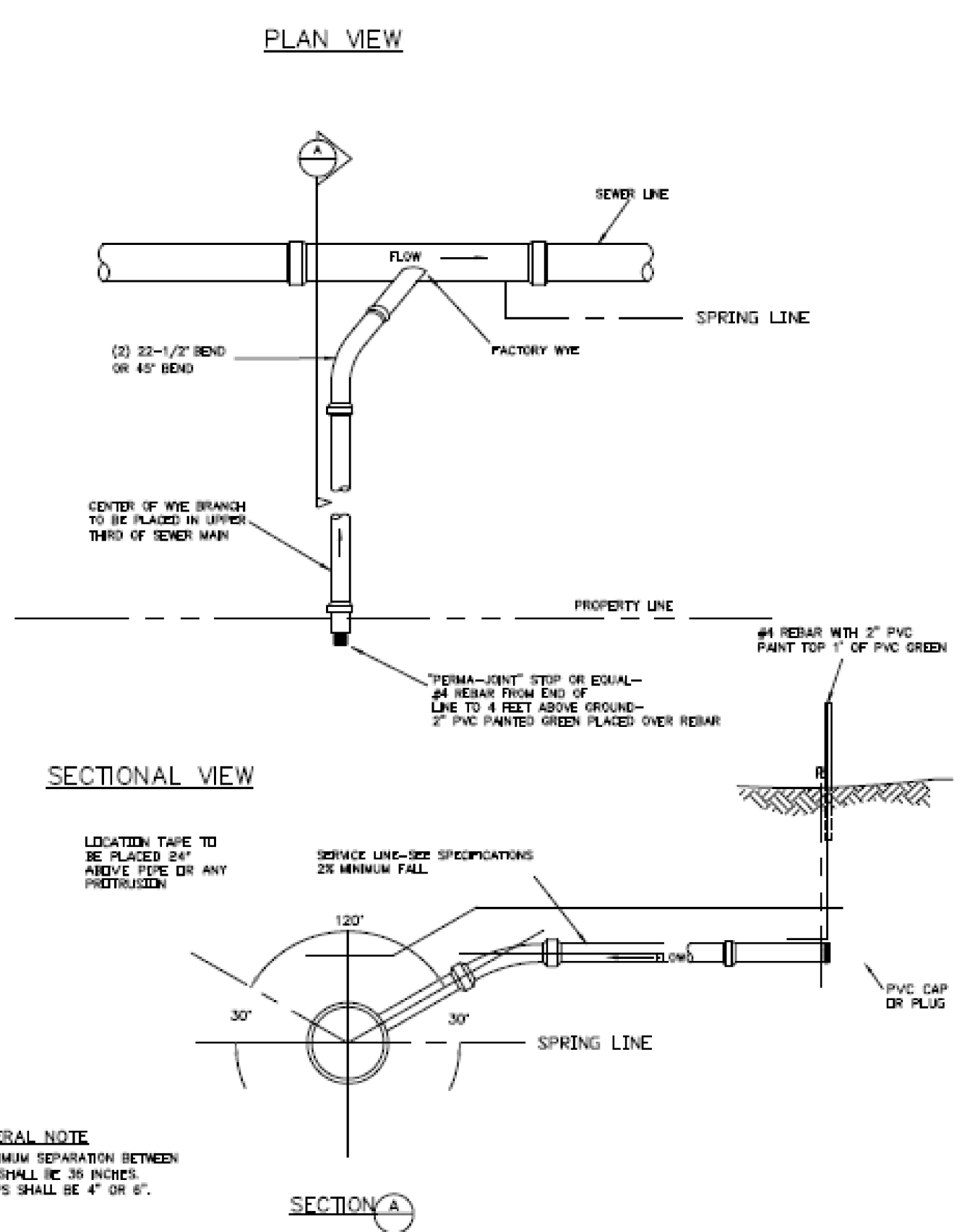
Title: DETAIL - General Thrust Blocks  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: TOE General Thrust Blocks.dwg  
 Date: 1/12/2018

**B21**



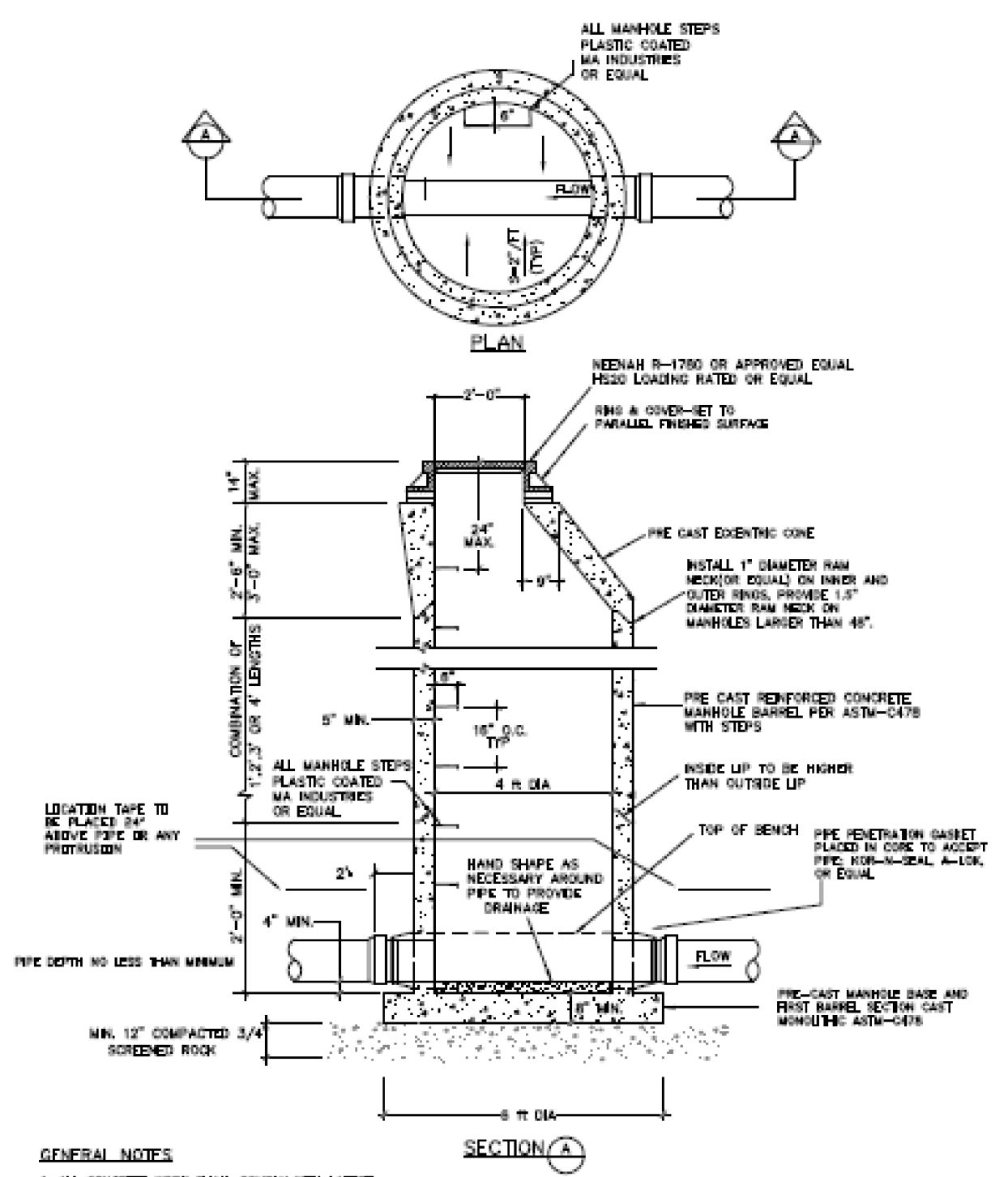
Title: DETAIL - Compound Meter Installation  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: TOE Compound Meter Building.dwg  
 Date: 1/4/18

**E2**



Title: DETAIL - SEWER SERVICE FROM MAIN  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: SEWER SERVICE AT MAIN.dwg  
 Date: 1/8/2018

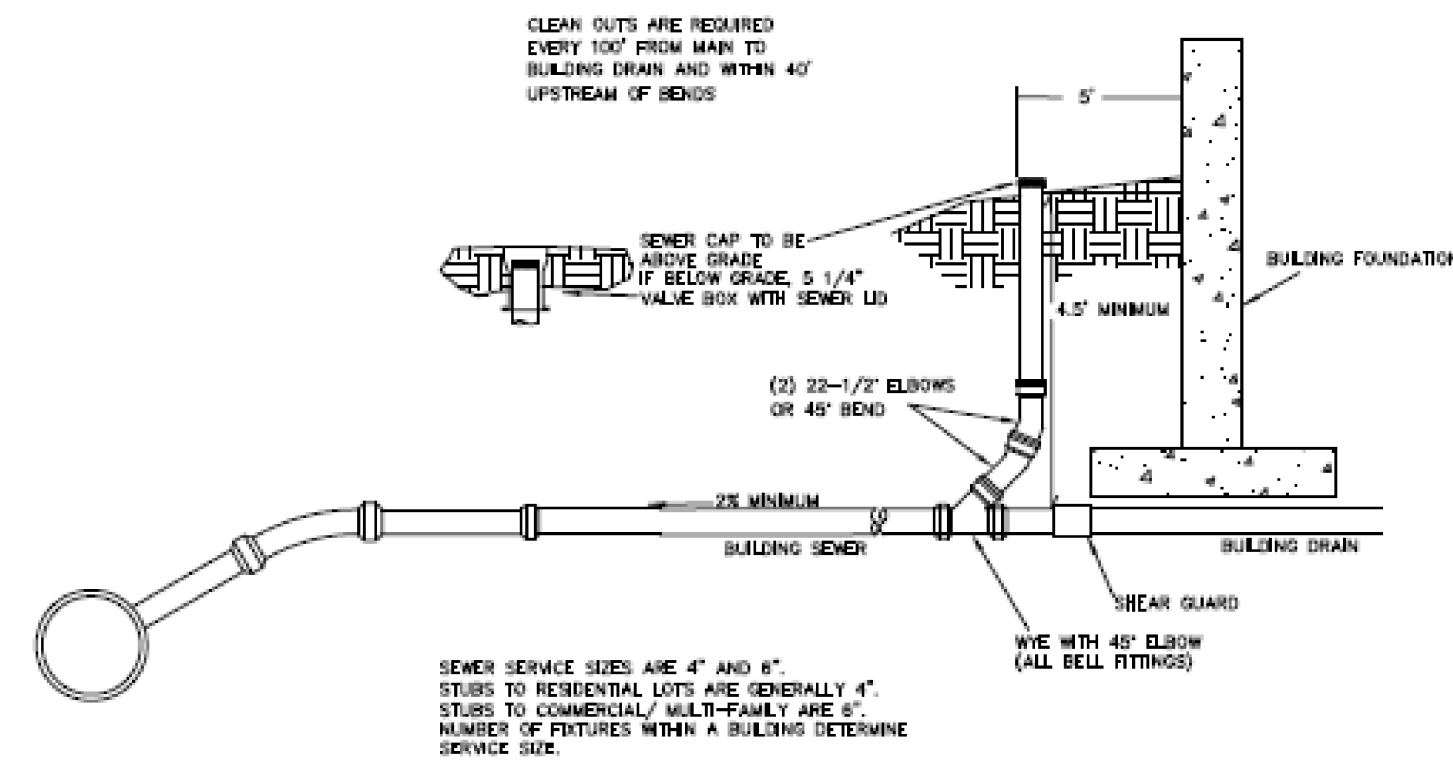
**A4**



- GENERAL NOTES:
1. ALL CONCRETE WORK SHALL COMPLY WITH LATEST AG-318 SPECIFICATIONS.
  2. MANHOLE REINFORCING SHALL HAVE A MINIMUM OF 2\"/>

Title: DETAIL - Standard Manhole  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: TOE Standard Manhole.dwg  
 Date: 1/8/2018

**A5**



Title: DETAIL - Building Sewer Service  
 Project: Public Works Manual  
 Drawn: JB  
 Checked: TOE Building Sewer Service.dwg  
 Date: 1/4/18

**E7**



NO.	DATE	REVISIONS	BY
01	07/30/2026	SITE DEVELOPMENT PERMIT	MCW