

**FAIR HAVEN
DEPARTMENT OF
PUBLIC WORKS BUILDING
1 Allen Street
BLOCK 44 & LOT 2
BOROUGH OF FAIR HAVEN
MONMOUTH COUNTY, NEW JERSEY**

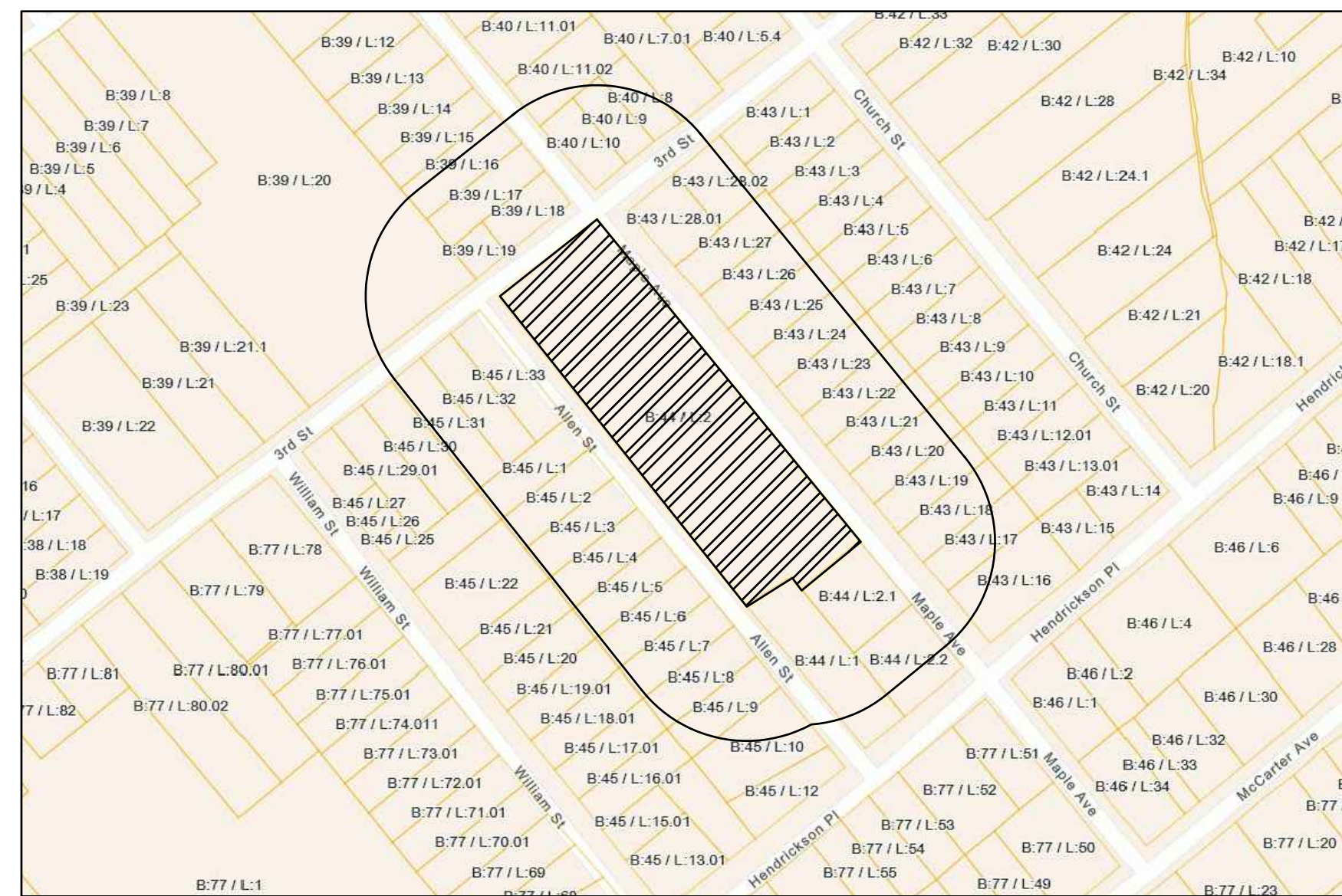
Borough of Fair Haven

Mayor
Mayor Joshua Halpern

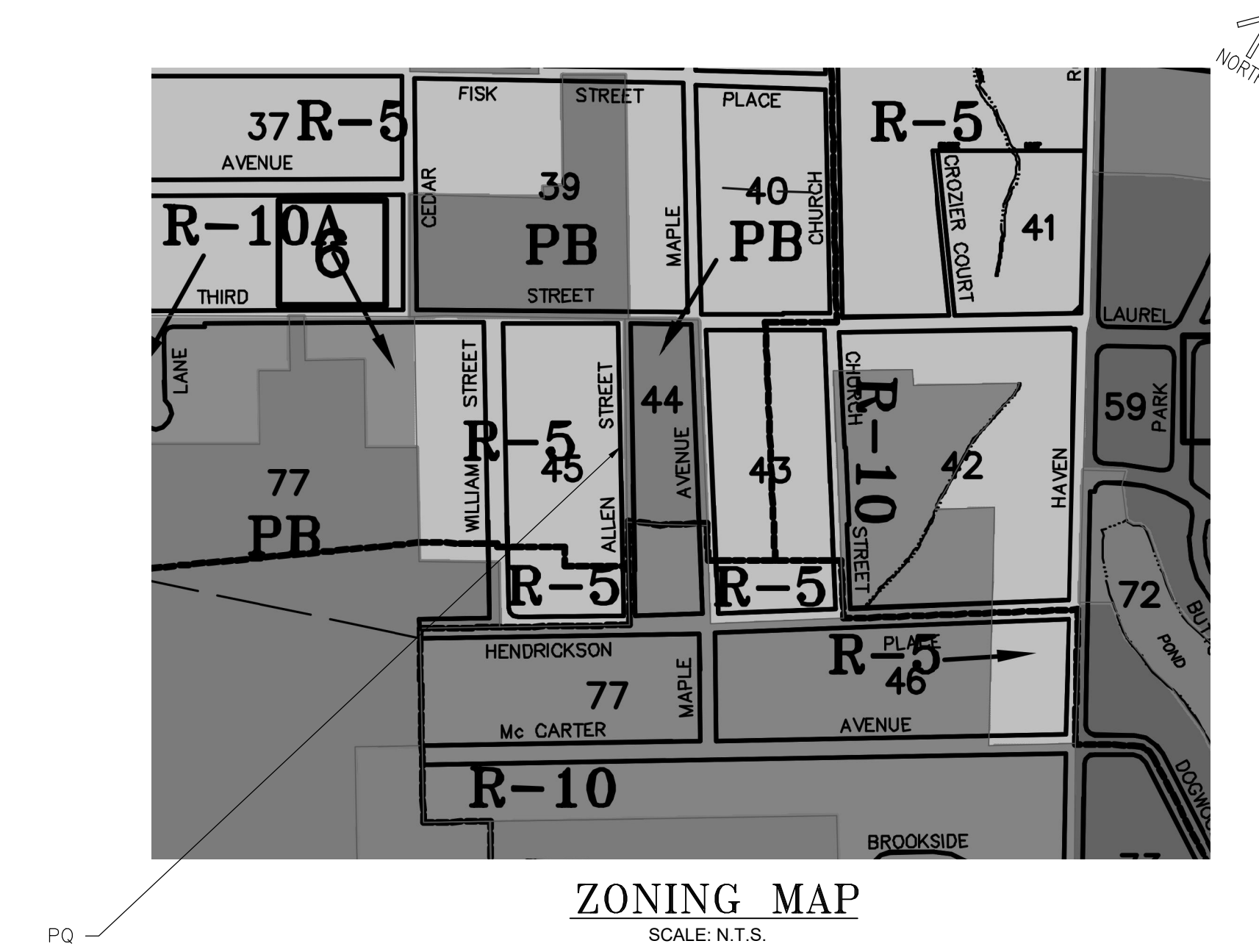
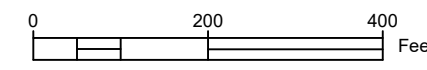
Borough Council

- Councilwoman Meghan Chrisner-Keefe
Councilwoman Elizabeth Koch
Councilman Michael McCue
Councilwoman Suzanne McCabe
Councilwoman Laline Neff
Councilman Christopher Rodriguez

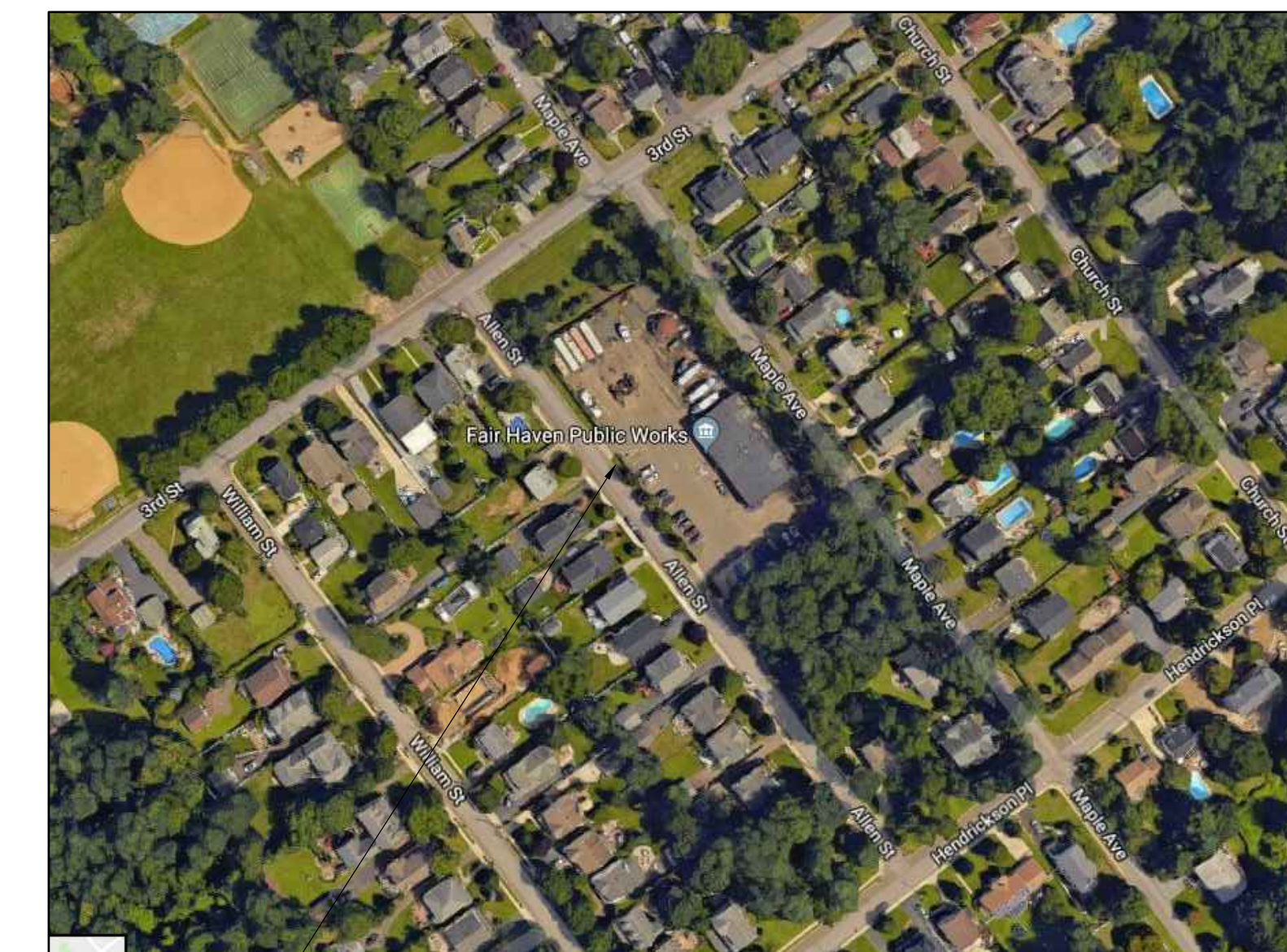
Administrator
Theresa S. Casagrande



200' RADIUS MAP



ZONING MAP
SCALE: N.T.S.



LOCATION PLAN
SCALE: N.T.S.

PROJECT DESCRIPTION

Proposed construction of a new Department of Public Works Building and Yard for the Borough. Site will have 38 public parking spaces to the north of the building. The Yard will have a new salt dome, new fueling station, and storage space for oil of the Public Work's equipment. On site lighting will be dusk to dawn.

INDEX OF SHEETS

C-201	COVER SHEET
C-202	DEMOLITION PLAN
C-203	SITE PLAN
C-204	MAPLE AVE IMPROVEMENTS SITE PLAN
C-205	GRADING, DRAINAGE & UTILITIES PLAN
C-206	MAPLE AVE IMPROVEMENTS GRADING PLAN
C-207	LANDSCAPING PLAN
C-208	SITE LIGHTING PLAN
C-209	SITE DETAILS
C-210	SITE DETAILS
C-211	SITE DETAILS
C-212	SITE DETAILS
C-213	SITE DETAILS
C-214	SOIL EROSION AND SEDIMENT CONTROL PLAN
C-215	MAPLE AVE IMPROVEMENTS SESC PLAN



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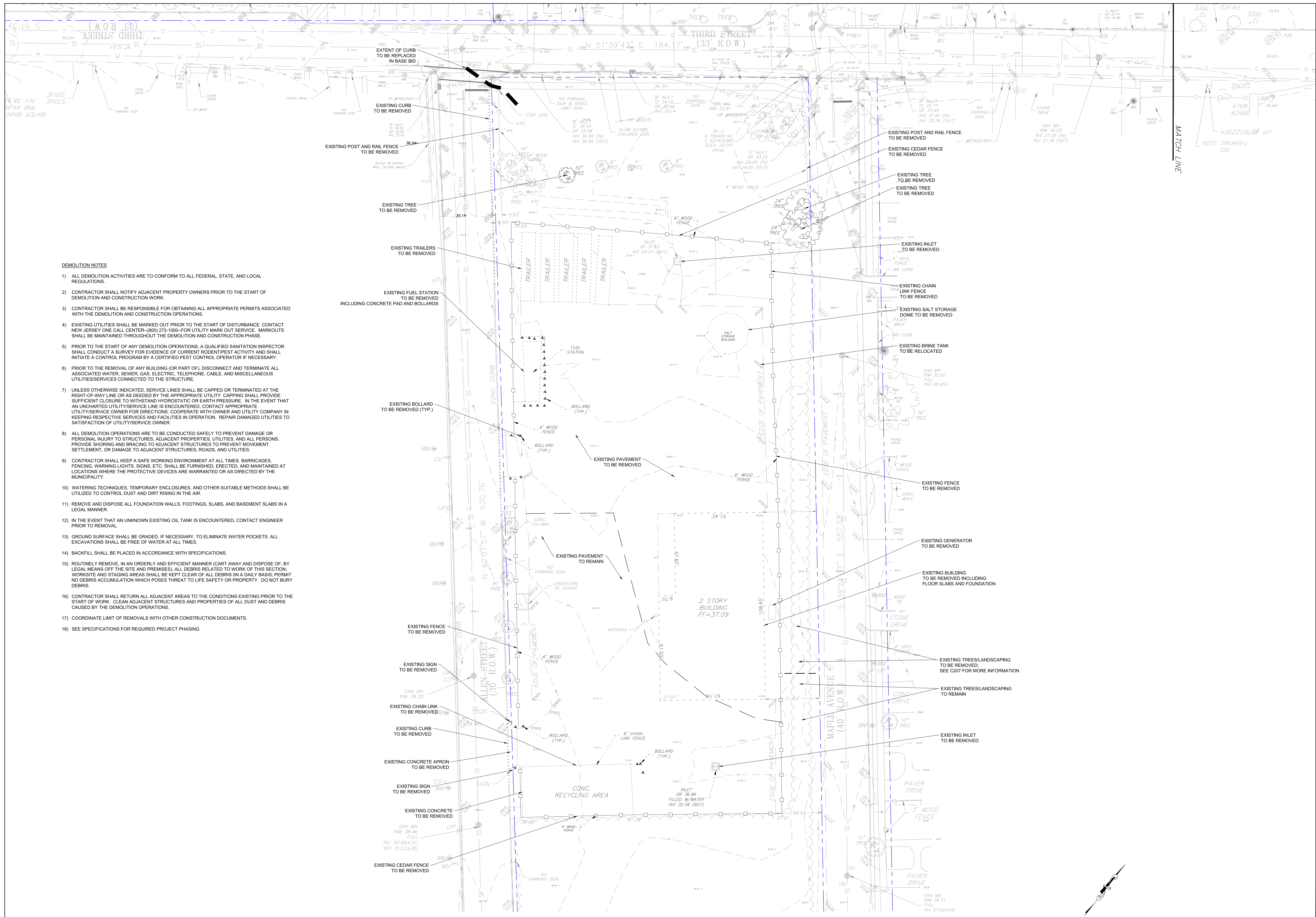
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**NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN**
BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07024

COVER SHEET
SCALE AS NOTED
DATE: 9/16/22
DWN: LTB
CKG: EJA

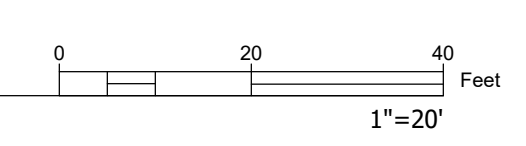
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DRAWING NUMBER
C-201
SHEET OF



- DEMOLITION NOTES**
- 1) ALL DEMOLITION ACTIVITIES ARE TO CONFORM TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
 - 2) CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION WORK.
 - 3) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS ASSOCIATED WITH THE DEMOLITION AND CONSTRUCTION OPERATIONS.
 - 4) EXISTING UTILITIES SHALL BE MARKED OUT PRIOR TO THE START OF DISTURBANCE. CONTACT NEW JERSEY ONE CALL CENTER-(800) 272-1000-FOR UTILITY MARK OUT SERVICE. MARKOUTS SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION AND CONSTRUCTION PHASE.
 - 5) PRIOR TO THE START OF ANY DEMOLITION OPERATIONS, A QUALIFIED SANITATION INSPECTOR SHALL CONDUCT A SURVEY FOR EVIDENCE OF CURRENT RODENT/PEST ACTIVITY AND SHALL INITIATE A CONTROL PROGRAM BY A CERTIFIED PEST CONTROL OPERATOR IF NECESSARY.
 - 6) PRIOR TO THE REMOVAL OF ANY BUILDING (OR PART OF), DISCONNECT AND TERMINATE ALL ASSOCIATED WATER, SEWER, GAS, ELECTRIC, TELEPHONE, CABLE, AND MISCELLANEOUS UTILITIES/SERVICES CONNECTED TO THE STRUCTURE.
 - 7) UNLESS OTHERWISE INDICATED, SERVICE LINES SHALL BE CAPPED OR TERMINATED AT THE RIGHT-OF-WAY LINE OR AS DEEDED BY THE APPROPRIATE UTILITY. CAPPING SHALL PROVIDE SUFFICIENT CLOSURE TO WITHSTAND HYDROSTATIC OR EARTH PRESSURE. IN THE EVENT THAT AN UNCHARTED UTILITY/SERVICE LINE IS ENCOUNTERED, CONTACT APPROPRIATE UTILITY/SERVICE OWNER FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANY IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY/SERVICE OWNER.
 - 8) ALL DEMOLITION OPERATIONS ARE TO BE CONDUCTED SAFELY TO PREVENT DAMAGE OR PERSONAL INJURY TO STRUCTURES, ADJACENT PROPERTIES, UTILITIES, AND ALL PERSONS. PROVIDE SHORING AND BRACING TO ADJACENT STRUCTURES TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO ADJACENT STRUCTURES, ROADS, AND UTILITIES.
 - 9) CONTRACTOR SHALL KEEP A SAFE WORKING ENVIRONMENT AT ALL TIMES. BARRICADES, FENCING, WARNING LIGHTS, SIGNS, ETC. SHALL BE FURNISHED, ERECTED, AND MAINTAINED AT LOCATIONS WHERE THE PROTECTIVE DEVICES ARE WARRANTED OR AS DIRECTED BY THE MUNICIPALITY.
 - 10) WATERING TECHNIQUES, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS SHALL BE UTILIZED TO CONTROL DUST AND DIRT RISING IN THE AIR.
 - 11) REMOVE AND DISPOSE ALL FOUNDATION WALLS, FOOTINGS, SLABS, AND BASEMENT SLABS IN A LEGAL MANNER.
 - 12) IN THE EVENT THAT AN UNKNOWN EXISTING OIL TANK IS ENCOUNTERED, CONTACT ENGINEER PRIOR TO REMOVAL.
 - 13) GROUND SURFACE SHALL BE GRADED, IF NECESSARY, TO ELIMINATE WATER POCKETS. ALL EXCAVATIONS SHALL BE FREE OF WATER AT ALL TIMES.
 - 14) BACKFILL SHALL BE PLACED IN ACCORDANCE WITH SPECIFICATIONS.
 - 15) ROUTINELY REMOVE, IN AN ORDERLY AND EFFICIENT MANNER (CART AWAY AND DISPOSE OF BY LEGAL MEANS OFF THE SITE AND PREMISES), ALL DEBRIS RELATED TO WORK OF THIS SECTION. WORKSITE AND STAGING AREAS SHALL BE KEPT CLEAR OF ALL DEBRIS ON A DAILY BASIS. PERMIT NO DEBRIS ACCUMULATION WHICH POSES THREAT TO LIFE SAFETY OR PROPERTY. DO NOT BURY DEBRIS.
 - 16) CONTRACTOR SHALL RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK. CLEAN ADJACENT STRUCTURES AND PROPERTIES OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS.
 - 17) COORDINATE LIMIT OF REMOVALS WITH OTHER CONSTRUCTION DOCUMENTS.
 - 18) SEE SPECIFICATIONS FOR REQUIRED PROJECT PHASING.

1 DEMOLITION PLAN



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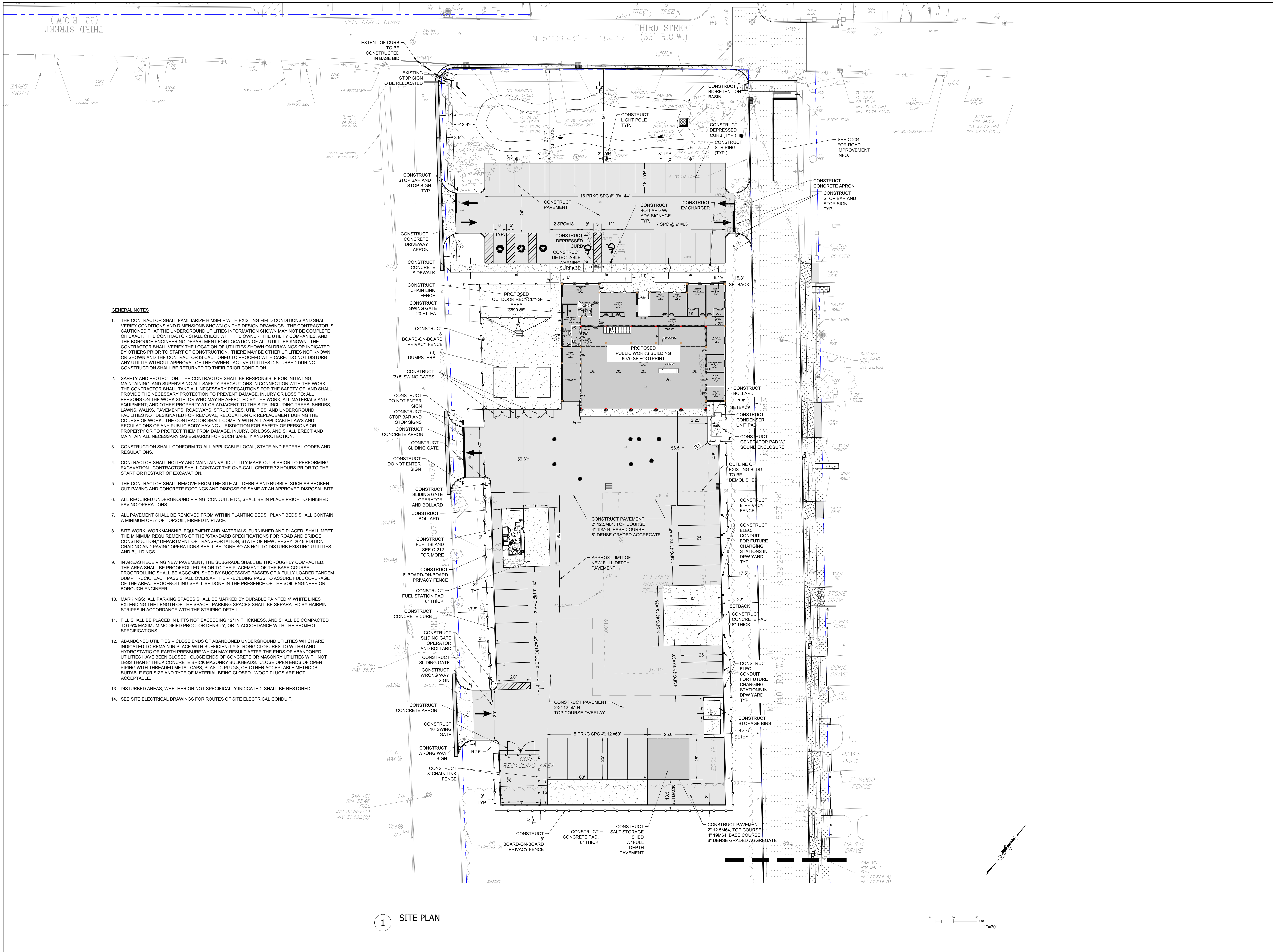
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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
 BLOCK 44 LOT 2
 1 ALLEN STREET
 FAIR HAVEN, NJ 07704

DEMOLITION PLAN
 SCALE AS NOTED
 DATE: 2/10/22
 DWG: LTB
 CHK: EJA

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

DRAWING NUMBER
C-202
 SHEET OF



GENERAL NOTES

- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING FIELD CONDITIONS AND SHALL VERIFY CONDITIONS AND DIMENSIONS SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR IS CAUTIONED THAT THE UNDERGROUND UTILITIES INFORMATION SHOWN MAY NOT BE COMPLETE OR EXACT. THE CONTRACTOR SHALL CHECK WITH THE OWNER, THE UTILITY COMPANIES, AND THE BOROUGH ENGINEERING DEPARTMENT FOR LOCATION OF ALL UTILITIES KNOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES SHOWN ON DRAWINGS OR INDICATED BY OTHERS PRIOR TO START OF CONSTRUCTION. THERE MAY BE OTHER UTILITIES NOT KNOWN OR SHOWN AND THE CONTRACTOR IS CAUTIONED TO PROCEED WITH CARE. DO NOT DISTURB ANY UTILITY WITHOUT APPROVAL OF THE OWNER. ACTIVE UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR PRIOR CONDITION.
- SAFETY AND PROTECTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO, ALL PERSONS ON THE WORK SITE, OR WHO MAY BE AFFECTED BY THE WORK; ALL MATERIALS AND EQUIPMENT; AND OTHER PROPERTY AT OR ADJACENT TO THE SITE, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, UTILITIES, AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION OR REPLACEMENT DURING THE COURSE OF WORK. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION FOR SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS, AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- CONTRACTOR SHALL NOTIFY AND MAINTAIN VALID UTILITY MARK-OUTS PRIOR TO PERFORMING EXCAVATION. CONTRACTOR SHALL CONTACT THE ONE-CALL CENTER 72 HOURS PRIOR TO THE START OR RESTART OF EXCAVATION.
- THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND RUBBLE, SUCH AS BROKEN OUT PAVING AND CONCRETE FOOTINGS AND DISPOSE OF SAME AT AN APPROVED DISPOSAL SITE.
- ALL REQUIRED UNDERGROUND PIPING, CONDUIT, ETC., SHALL BE IN PLACE PRIOR TO FINISHED PAVING OPERATIONS.
- ALL PAVEMENT SHALL BE REMOVED FROM WITHIN PLANTING BEDS. PLANT BEDS SHALL CONTAIN A MINIMUM OF 5" OF TOPSOIL, FIRMED IN PLACE.
- SITE WORK:** WORKMANSHIP, EQUIPMENT AND MATERIALS, FURNISHED AND PLACED, SHALL MEET THE MINIMUM REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," DEPARTMENT OF TRANSPORTATION, STATE OF NEW JERSEY, 2019 EDITION. GRADING AND PAVING OPERATIONS SHALL BE DONE SO AS NOT TO DISTURB EXISTING UTILITIES AND BUILDINGS.
- IN AREAS RECEIVING NEW PAVEMENT, THE SUBGRADE SHALL BE THOROUGHLY COMPACTED. THE AREA SHALL BE PROOFROLLED PRIOR TO THE PLACEMENT OF THE BASE COURSE. PROOFROLLING SHALL BE ACCOMPLISHED BY SUCCESSIVE PASSES OF A FULLY LOADED TANDEM DUMP TRUCK. EACH PASS SHALL OVERLAP THE PRECEDING PASS TO ASSURE FULL COVERAGE OF THE AREA. PROOFROLLING SHALL BE DONE IN THE PRESENCE OF THE SOIL ENGINEER OR BOROUGH ENGINEER.
- MARKINGS:** ALL PARKING SPACES SHALL BE MARKED BY DURABLE PAINTED 4" WHITE LINES EXTENDING THE LENGTH OF THE SPACE. PARKING SPACES SHALL BE SEPARATED BY HAIRPIN STRIPES IN ACCORDANCE WITH THE STRIPING DETAIL.
- FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" IN THICKNESS, AND SHALL BE COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DENSITY, OR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ABANDONED UTILITIES - CLOSE ENDS OF ABANDONED UNDERGROUND UTILITIES WHICH ARE INDICATED TO REMAIN IN PLACE WITH SUFFICIENTLY STRONG CLOSURES TO WITHSTAND HYDROSTATIC OR EARTH PRESSURE WHICH MAY RESULT AFTER THE ENDS OF ABANDONED UTILITIES HAVE BEEN CLOSED. CLOSE ENDS OF CONCRETE OR MASONRY UTILITIES WITH NOT LESS THAN 8" THICK CONCRETE BRICK MASONRY BULKHEADS. CLOSE OPEN ENDS OF OPEN PIPING WITH THREADED METAL CAPS, PLASTIC PLUGS, OR OTHER ACCEPTABLE METHODS SUITABLE FOR SIZE AND TYPE OF MATERIAL BEING CLOSED. WOOD PLUGS ARE NOT ACCEPTABLE.
- DISTURBED AREAS, WHETHER OR NOT SPECIFICALLY INDICATED, SHALL BE RESTORED.
- SEE SITE ELECTRICAL DRAWINGS FOR ROUTES OF SITE ELECTRICAL CONDUIT.

1 SITE PLAN

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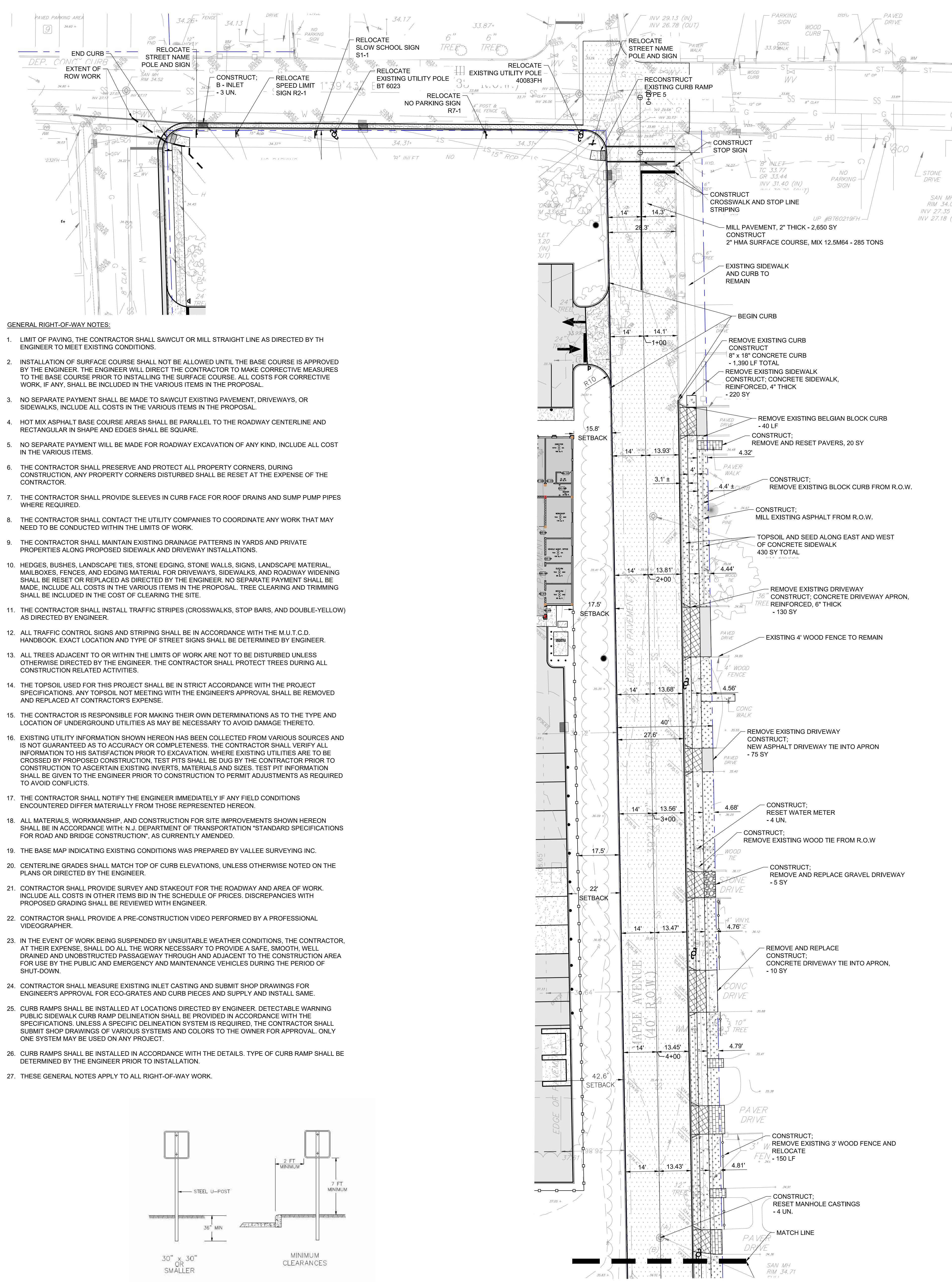
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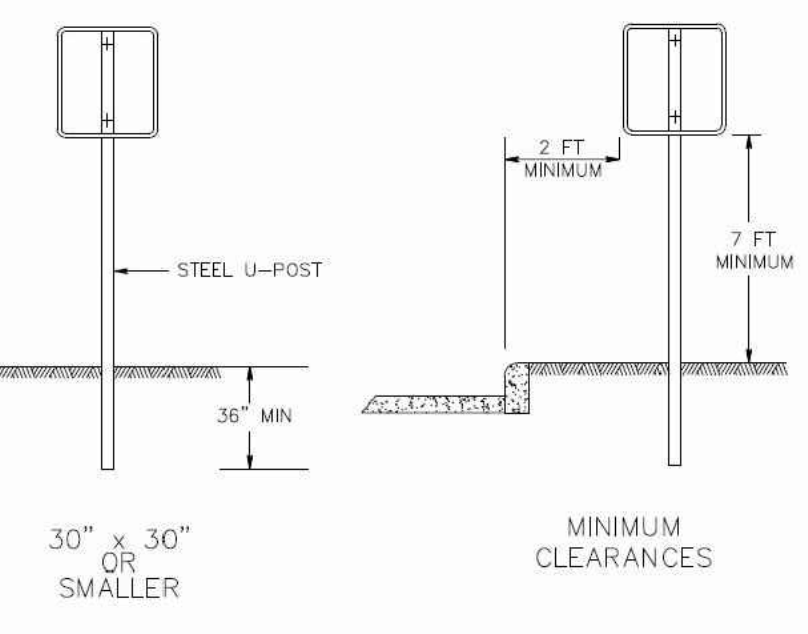
SITE PLAN
 SCALE AS NOTED
 DATE: 2/10/22
 DWG. LTB
 CXC: EJA

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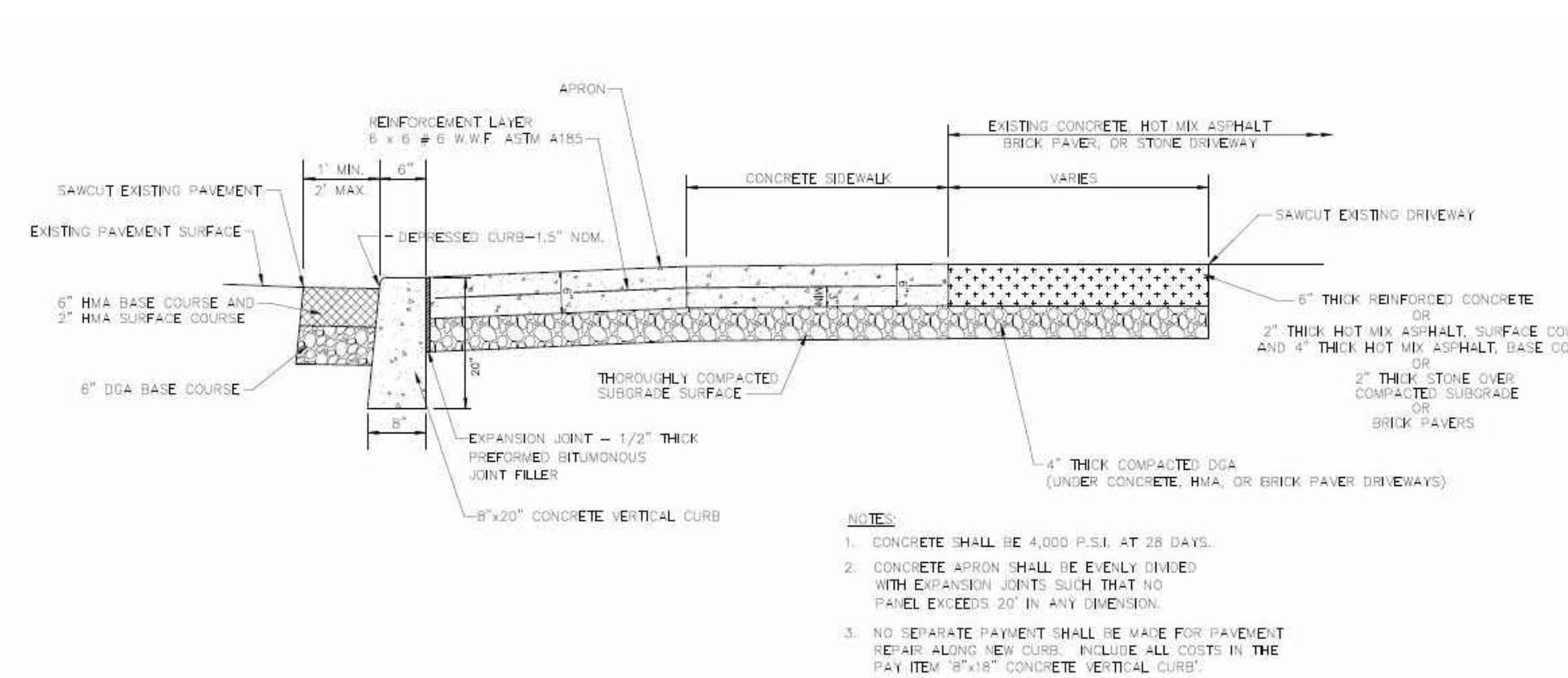
DRAWING NUMBER
C-203
 SHEET OF



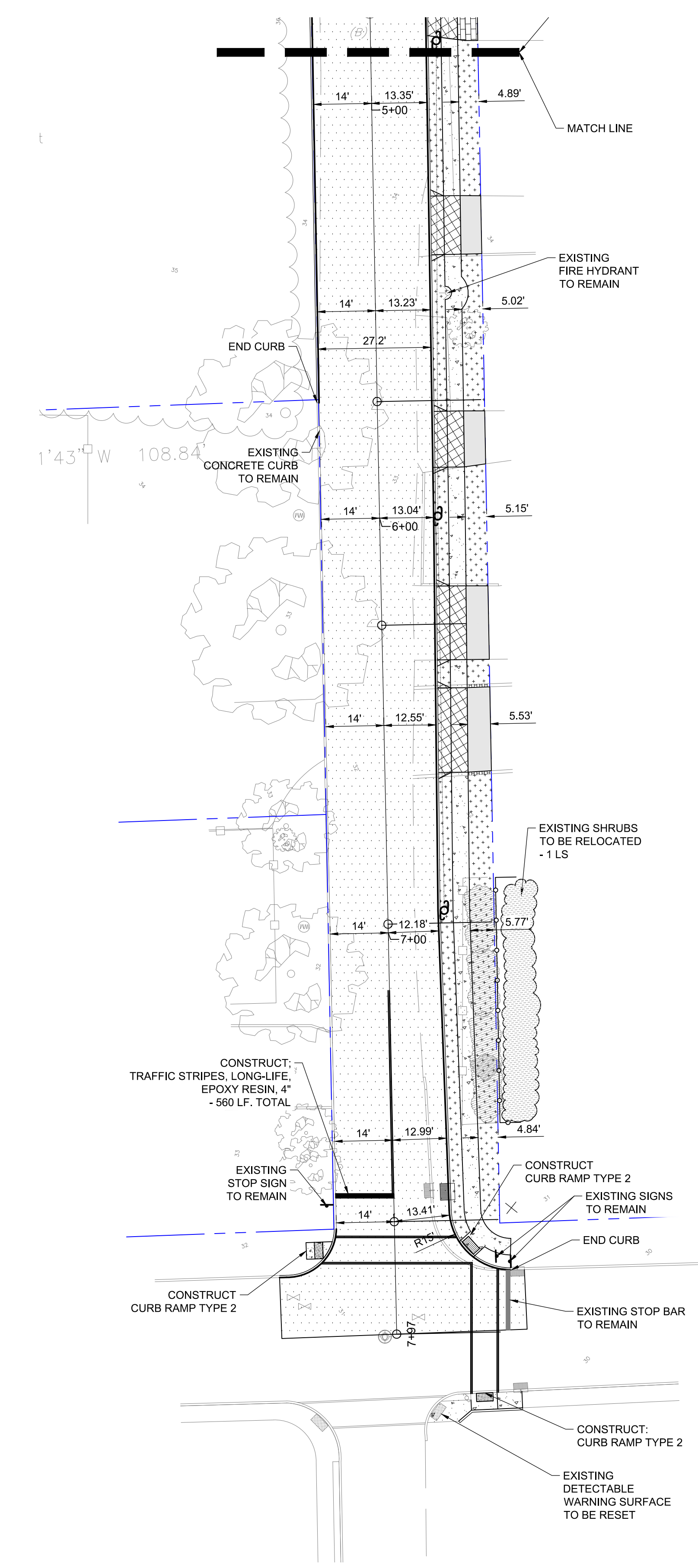
- GENERAL RIGHT-OF-WAY NOTES:**
- LIMIT OF PAVING. THE CONTRACTOR SHALL SAWCUT OR MILL STRAIGHT LINE AS DIRECTED BY THE ENGINEER TO MEET EXISTING CONDITIONS.
 - INSTALLATION OF SURFACE COURSE SHALL NOT BE ALLOWED UNTIL THE BASE COURSE IS APPROVED BY THE ENGINEER. THE ENGINEER WILL DIRECT THE CONTRACTOR TO MAKE CORRECTIVE MEASURES TO THE BASE COURSE PRIOR TO INSTALLING THE SURFACE COURSE. ALL COSTS FOR CORRECTIVE WORK, IF ANY, SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - NO SEPARATE PAYMENT SHALL BE MADE TO SAWCUT EXISTING PAVEMENT, DRIVEWAYS, OR SIDEWALKS. INCLUDE ALL COSTS IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - HOT MIX ASPHALT BASE COURSE AREAS SHALL BE PARALLEL TO THE ROADWAY CENTERLINE AND RECTANGULAR IN SHAPE AND EDGES SHALL BE SQUARE.
 - NO SEPARATE PAYMENT WILL BE MADE FOR ROADWAY EXCAVATION OF ANY KIND, INCLUDE ALL COST IN THE VARIOUS ITEMS.
 - THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL PROPERTY CORNERS. DURING CONSTRUCTION, ANY PROPERTY CORNERS DISTURBED SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE SLEEVES IN CURB FACE FOR ROOF DRAINS AND SUMP PUMP PIPES WHERE REQUIRED.
 - THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO COORDINATE ANY WORK THAT MAY NEED TO BE CONDUCTED WITHIN THE LIMITS OF WORK.
 - THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS IN YARDS AND PRIVATE PROPERTIES ALONG PROPOSED SIDEWALK AND DRIVEWAY INSTALLATIONS.
 - HEDGES, BUSHES, LANDSCAPE TIES, STONE EDGING, STONE WALLS, SIGNS, LANDSCAPE MATERIAL, MAILBOXES, FENCES, AND EDGING MATERIAL FOR DRIVEWAYS, SIDEWALKS, AND ROADWAY WIDENING SHALL BE RESET OR REPLACED AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE. INCLUDE ALL COSTS IN THE VARIOUS ITEMS IN THE PROPOSAL. TREE CLEARING AND TRIMMING SHALL BE INCLUDED IN THE COST OF CLEARING THE SITE.
 - THE CONTRACTOR SHALL INSTALL TRAFFIC STRIPES (CROSSWALKS, STOP BARS, AND DOUBLE-YELLOW) AS DIRECTED BY ENGINEER.
 - ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE MUTCD HANDBOOK. EXACT LOCATION AND TYPE OF STREET SIGNS SHALL BE DETERMINED BY ENGINEER.
 - ALL TREES ADJACENT TO OR WITHIN THE LIMITS OF WORK ARE NOT TO BE DISTURBED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT TREES DURING ALL CONSTRUCTION RELATED ACTIVITIES.
 - THE TOPSOIL USED FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ANY TOPSOIL NOT MEETING WITH THE ENGINEER'S APPROVAL SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
 - EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION. TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON.
 - ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED.
 - THE BASE MAP INDICATING EXISTING CONDITIONS WAS PREPARED BY VALLEE SURVEYING INC.
 - CENTERLINE GRADES SHALL MATCH TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT FOR THE ROADWAY AND AREA OF WORK. INCLUDE ALL COSTS IN OTHER ITEMS BID IN THE SCHEDULE OF PRICES. DISCREPANCIES WITH PROPOSED GRADING SHALL BE REVIEWED WITH ENGINEER.
 - CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO PERFORMED BY A PROFESSIONAL VIDEOGRAPHER.
 - IN THE EVENT OF WORK BEING SUSPENDED BY UNSUITABLE WEATHER CONDITIONS, THE CONTRACTOR, AT THEIR EXPENSE, SHALL DO ALL THE WORK NECESSARY TO PROVIDE A SAFE, SMOOTH, WELL DRAINED AND UNOBSTRUCTED PASSAGEWAY THROUGH AND ADJACENT TO THE CONSTRUCTION AREA FOR USE BY THE PUBLIC AND EMERGENCY AND MAINTENANCE VEHICLES DURING THE PERIOD OF SHUT-DOWN.
 - CONTRACTOR SHALL MEASURE EXISTING INLET CASTING AND SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL FOR ECO-GRATES AND CURB PIECES AND SUPPLY AND INSTALL SAME.
 - CURB RAMPS SHALL BE INSTALLED AT LOCATIONS DIRECTED BY ENGINEER. DETECTABLE WARNING PUBLIC SIDEWALK CURB RAMP DELINEATION SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS. UNLESS A SPECIFIC DELINEATION SYSTEM IS REQUIRED, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF VARIOUS SYSTEMS AND COLORS TO THE OWNER FOR APPROVAL. ONLY ONE SYSTEM MAY BE USED ON ANY PROJECT.
 - CURB RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS. TYPE OF CURB RAMP SHALL BE DETERMINED BY THE ENGINEER PRIOR TO INSTALLATION.
 - THESE GENERAL NOTES APPLY TO ALL RIGHT-OF-WAY WORK.



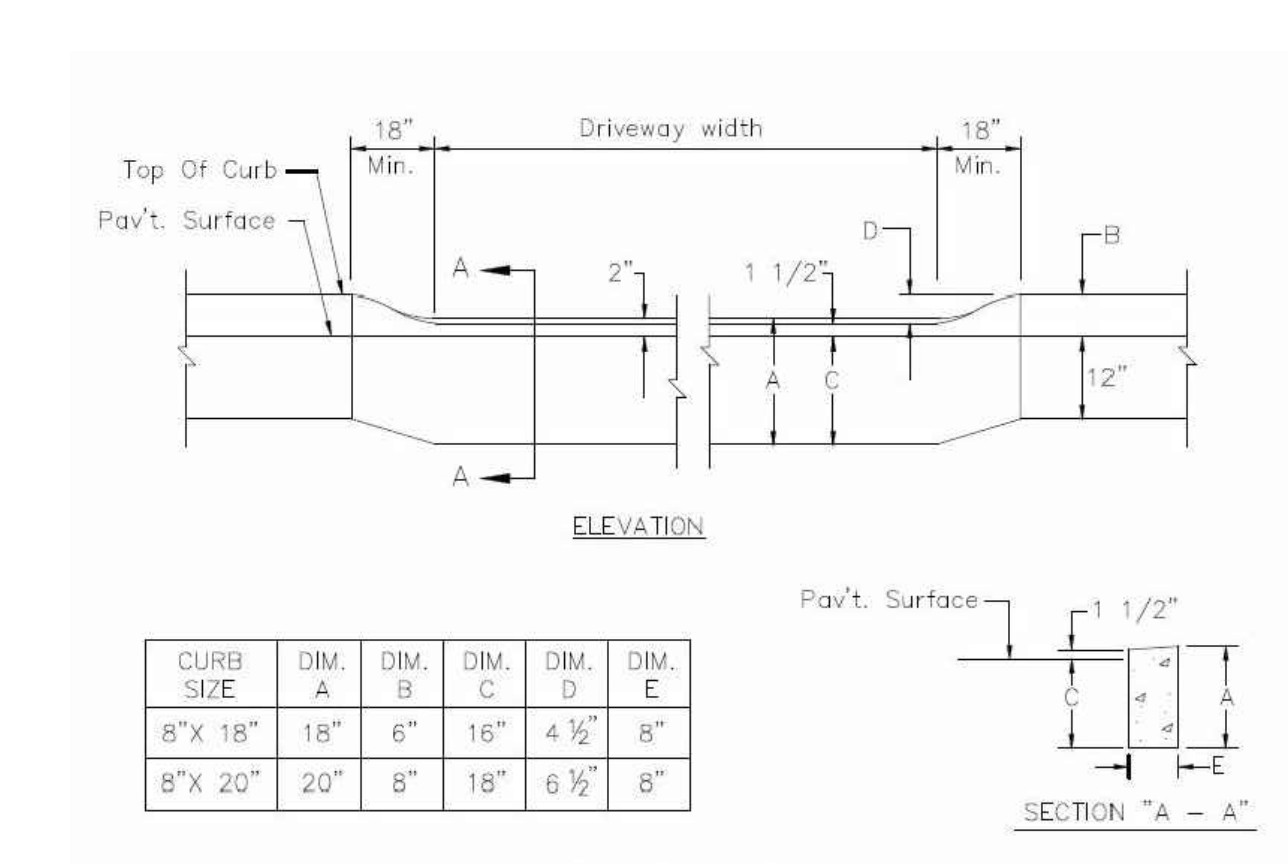
SIGNS
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CONCRETE DRIVEWAY, REINFORCED, 6" THICK AND DRIVEWAY RESTORATION
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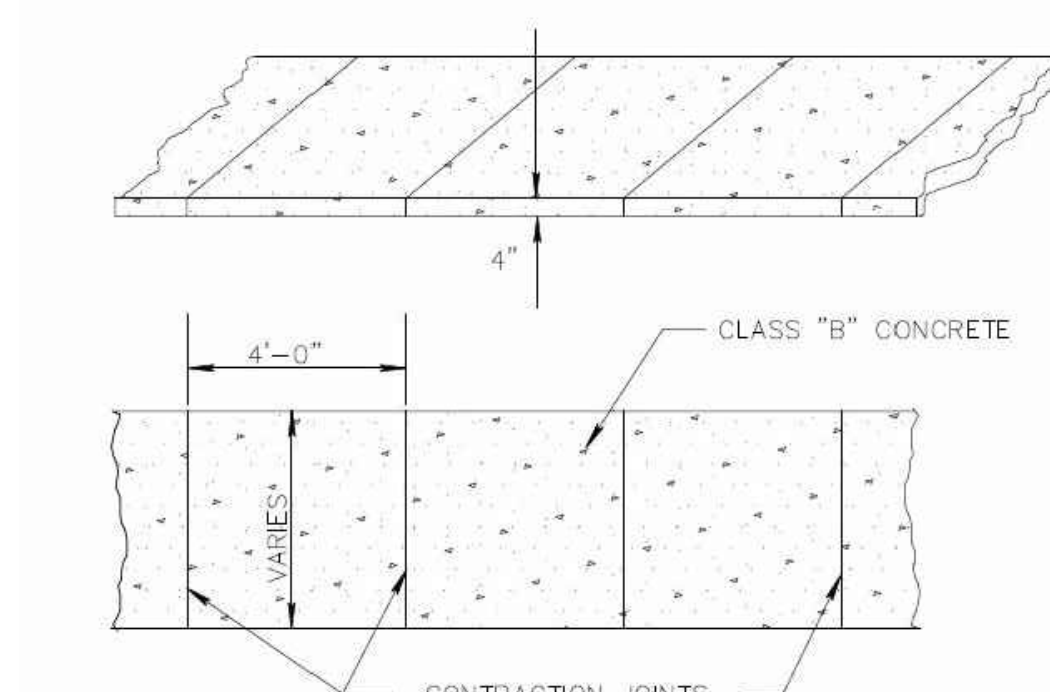


2 MAPLE AVENUE IMPROVEMENTS SITE PLAN - SOUTH



METHOD OF DEPRESSING CURB AT DRIVEWAYS
NOT TO SCALE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	CLEARING SITE	LS	1
2	PRE-CONSTRUCTION VIDEO	LS	1
3	INLET FILTER TYPE 1	UN	2
4	BREAKAWAY BARRICADE WITH SIGN	UN	4
5	CONSTRUCTION SIGNS	UN	4
6	DRUM	UN	10
7	TRAFFIC CONE	UN	40
8	TRAFFIC DIRECTOR FLAGGER	HR	200
9	CONCRETE SIDEWALK REINFORCED 4" THICK	SY	200
10	REMOVE AND RESET BRICK PAVEMENT WALKWAYS	SY	20
11	RESET MANHOLE CASTINGS	UN	4
12	8" X 18" CONCRETE VERTICAL CURB	LF	1360
13	REMOVE BELGIAN BLOCK CURB	LF	40
14	REMOVE AND REPLACE ASPHALT DRIVEWAY, TIE INTO APRON	SY	75
15	REMOVE AND REPLACE GRAVEL DRIVEWAY	SY	5
16	REMOVE AND REPLACE CONCRETE DRIVEWAY, TIE INTO APRON	SY	10
17	REMOVE AND RELOCATE EXISTING WOOD FENCE	LF	150
18	REMOVE AND RELOCATE EXISTING SHRUBS	LS	1
19	BANKET	UN	3
20	15' RCP	LF	170
21	DETECTABLE WARNING SURFACE	SY	5
22	RELOCATE EXISTING UTILITY POLE	UN	2
23	RESET WATER VALVE BOX	UN	4
24	HOT MIX ASPHALT MILLING, VARIABLE DEPTH 1'-3"	SY	2650
25	SUPERPAVE HOT MIX ASPHALT SURFACE COURSE, 2" THICK	TON	290
26	TACK COAT	GAL	210
27	CONCRETE APRON, REINFORCED 6" THICK	SY	130
28	TRAFFIC STRIPES, LONG-LIFE, EPOXY RESIN, 4"	LF	560
29	RELOCATE EXISTING SIGNS AND POLES	UN	5
30	STOP SIGN	UN	1
31	TOPSOILING 4" THICK	SY	430
32	SODDING	SY	430



TYPICAL DETAIL CONCRETE SIDEWALK
NOT TO SCALE

- NOTES:**
- PERFORMED BITUMINOUS EXPANSION JOINTS, 1/2" THICK SHALL BE INSTALLED EVERY 20 FEET. CONTRACTION JOINTS SHALL BE INSTALLED EVERY 4 FEET.
 - CONCRETE SHALL BE CLASS "B" PORTLAND CEMENT HAVING A 28 DAY STRENGTH OF 4000 PSI.

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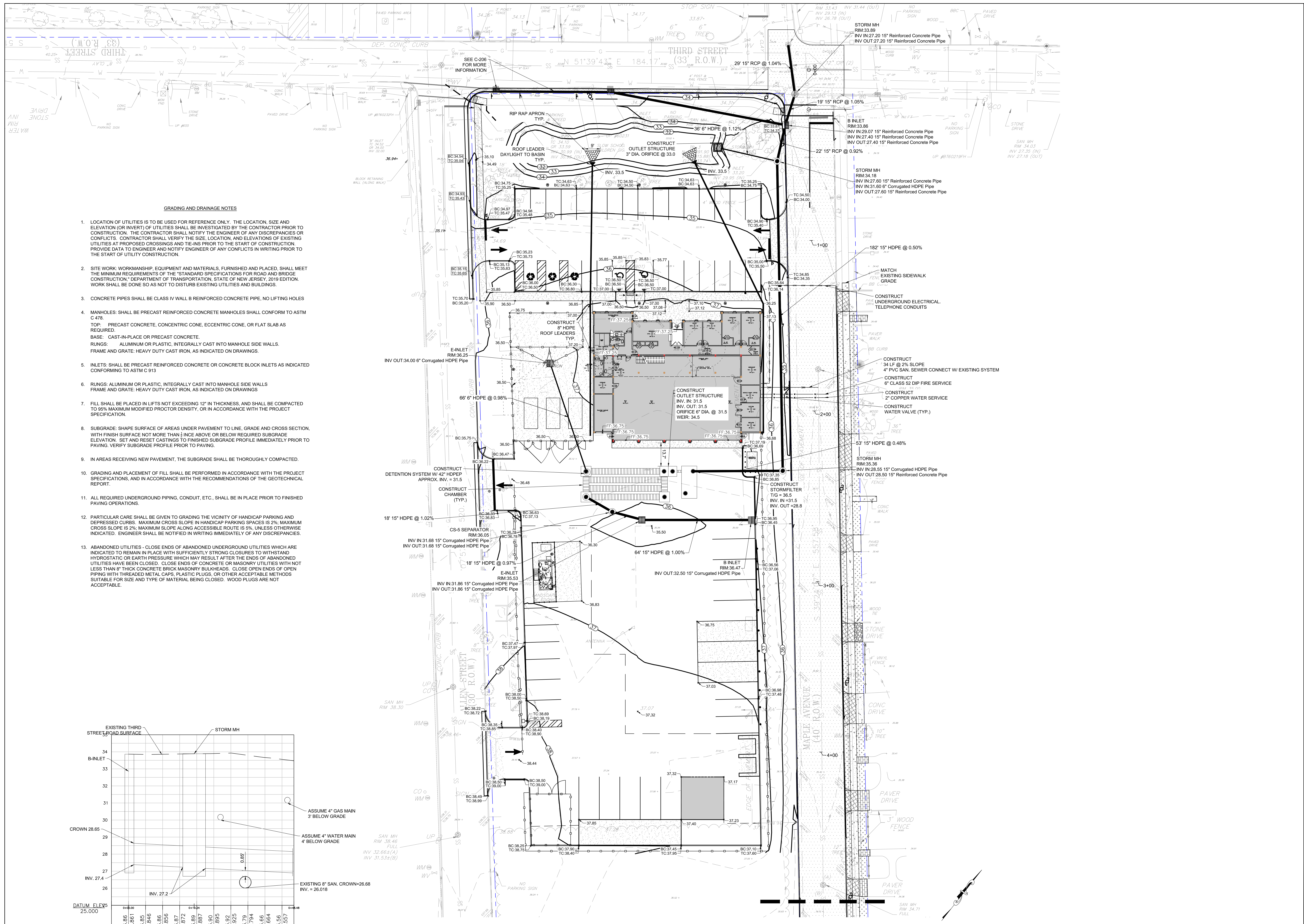
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NEW PUBLIC WORKS BUILDING BOROUGH OF FAIR HAVEN

MAPLE AVENUE IMPROVEMENTS SITE PLAN
SCALE: AS NOTED
DATE: 9/10/22
DWN: LTB
CHK: EJA

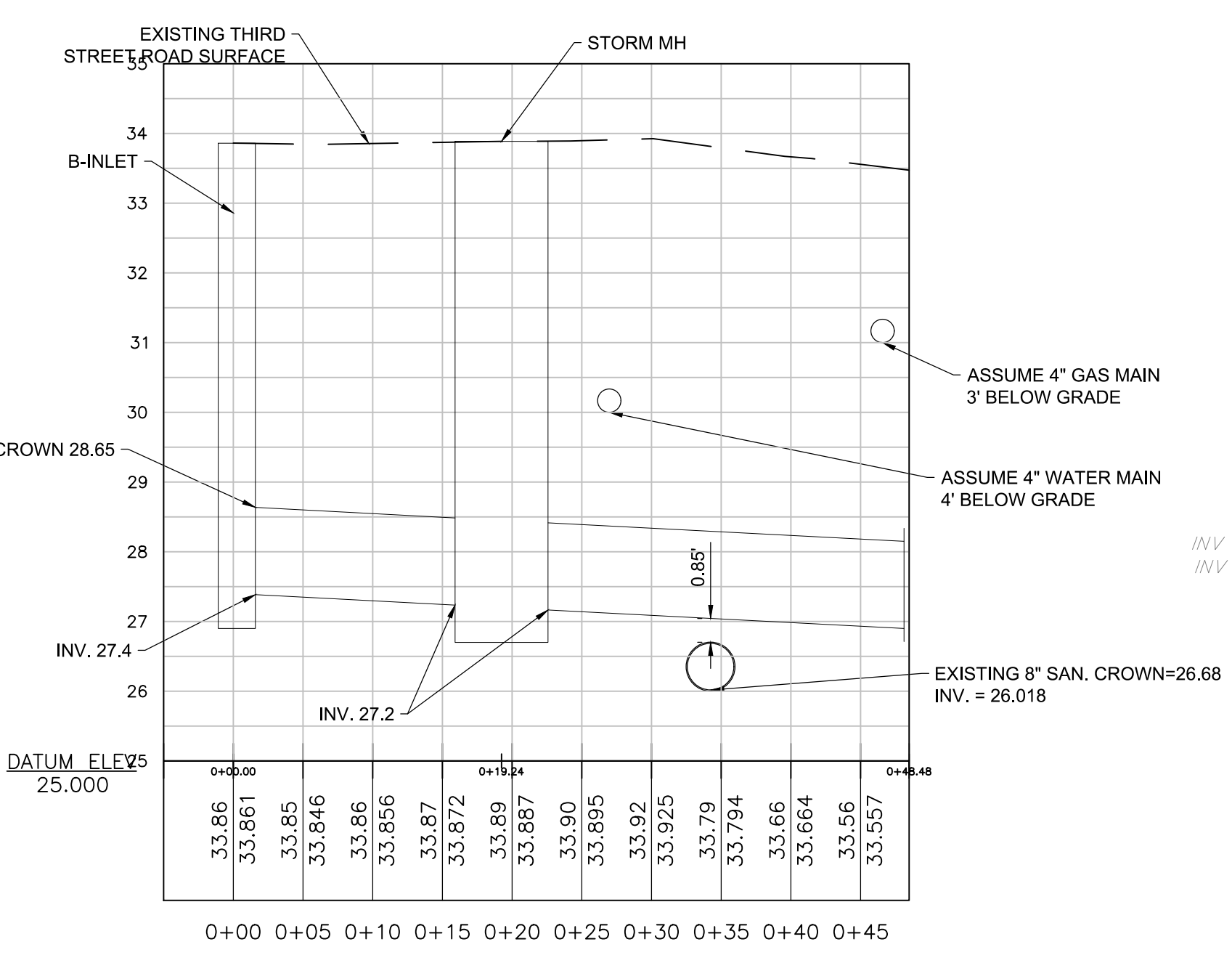
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DRAWING NUMBER
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GRADING AND DRAINAGE NOTES

- LOCATION OF UTILITIES IS TO BE USED FOR REFERENCE ONLY. THE LOCATION, SIZE AND ELEVATION (OR INVERT) OF UTILITIES SHALL BE INVESTIGATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, AND ELEVATIONS OF EXISTING UTILITIES AT PROPOSED CROSSINGS AND TIE-INS PRIOR TO THE START OF CONSTRUCTION. PROVIDE DATA TO ENGINEER AND NOTIFY ENGINEER OF ANY CONFLICTS IN WRITING PRIOR TO THE START OF UTILITY CONSTRUCTION.
- SITE WORK: WORKMANSHIP, EQUIPMENT AND MATERIALS, FURNISHED AND PLACED, SHALL MEET THE MINIMUM REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," DEPARTMENT OF TRANSPORTATION, STATE OF NEW JERSEY, 2019 EDITION. WORK SHALL BE DONE SO AS NOT TO DISTURB EXISTING UTILITIES AND BUILDINGS.
- CONCRETE PIPES SHALL BE CLASS IV WALL B REINFORCED CONCRETE PIPE, NO LIFTING HOLES
- MANHOLES: SHALL BE PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO ASTM C 478.
TOP: PRECAST CONCRETE, CONCENTRIC CONE, ECCENTRIC CONE, OR FLAT SLAB AS REQUIRED.
BASE: CAST-IN-PLACE OR PRECAST CONCRETE.
RUNGS: ALUMINUM OR PLASTIC, INTEGRALLY CAST INTO MANHOLE SIDE WALLS.
FRAME AND GRATE: HEAVY DUTY CAST IRON, AS INDICATED ON DRAWINGS.
- INLETS: SHALL BE PRECAST REINFORCED CONCRETE OR CONCRETE BLOCK INLETS AS INDICATED CONFORMING TO ASTM C 913
- RUNGS: ALUMINUM OR PLASTIC, INTEGRALLY CAST INTO MANHOLE SIDE WALLS
FRAME AND GRATE: HEAVY DUTY CAST IRON, AS INDICATED ON DRAWINGS
- FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" IN THICKNESS, AND SHALL BE COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DENSITY, OR IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- SUBGRADE: SHAPE SURFACE OF AREAS UNDER PAVEMENT TO LINE. GRADE AND CROSS SECTION, WITH FINISH SURFACE NOT MORE THAN 1" ABOVE OR BELOW REQUIRED SUBGRADE ELEVATION. SET AND RESET CASTINGS TO FINISHED SUBGRADE PROFILE IMMEDIATELY PRIOR TO PAVING. VERIFY SUBGRADE PROFILE PRIOR TO PAVING.
- IN AREAS RECEIVING NEW PAVEMENT, THE SUBGRADE SHALL BE THOROUGHLY COMPACTED.
- GRADING AND PLACEMENT OF FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ALL REQUIRED UNDERGROUND PIPING, CONDUIT, ETC., SHALL BE IN PLACE PRIOR TO FINISHED PAVING OPERATIONS.
- PARTICULAR CARE SHALL BE GIVEN TO GRADING THE VICINITY OF HANDICAP PARKING AND DEPRESSED CURBS. MAXIMUM CROSS SLOPE IN HANDICAP PARKING SPACES IS 2%. MAXIMUM CROSS SLOPE IS 2% MAXIMUM SLOPE ALONG ACCESSIBLE ROUTE IS 5%, UNLESS OTHERWISE INDICATED. ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY OF ANY DISCREPANCIES.
- ABANDONED UTILITIES - CLOSE ENDS OF ABANDONED UNDERGROUND UTILITIES WHICH ARE INDICATED TO REMAIN IN PLACE WITH SUFFICIENTLY STRONG CLOSURES TO WITHSTAND HYDROSTATIC OR EARTH PRESSURE WHICH MAY RESULT AFTER THE ENDS OF ABANDONED UTILITIES HAVE BEEN CLOSED. CLOSE ENDS OF CONCRETE OR MASONRY UTILITIES WITH NOT LESS THAN 8" THICK CONCRETE BRICK MASONRY BULKHEADS. CLOSE OPEN ENDS OF OPEN PIPING WITH THREADED METAL GAPS, PLASTIC PLUGS, OR OTHER ACCEPTABLE METHODS SUITABLE FOR SIZE AND TYPE OF MATERIAL BEING CLOSED. WOOD PLUGS ARE NOT ACCEPTABLE.



1 GRADING, DRAINAGE & UTILITIES PLAN

2 INTERSECTION OF THIRD ST AND MAPLE AVE PROFILE

H: 1"=10' V: 1"=5'

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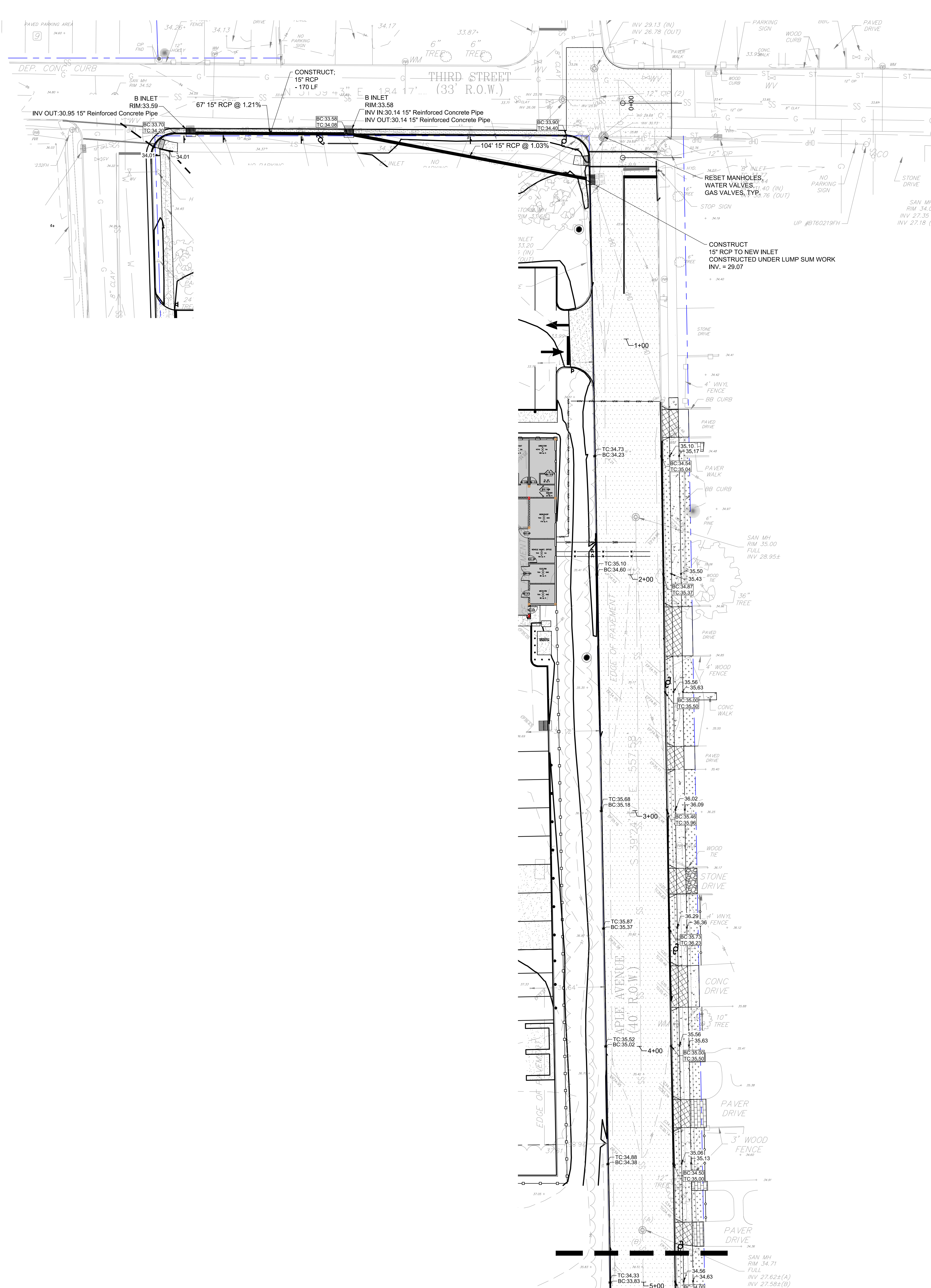
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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
 BLOCK 44 LOT 2
 1 ALLEN STREET
 FAIR HAVEN, NJ 07410

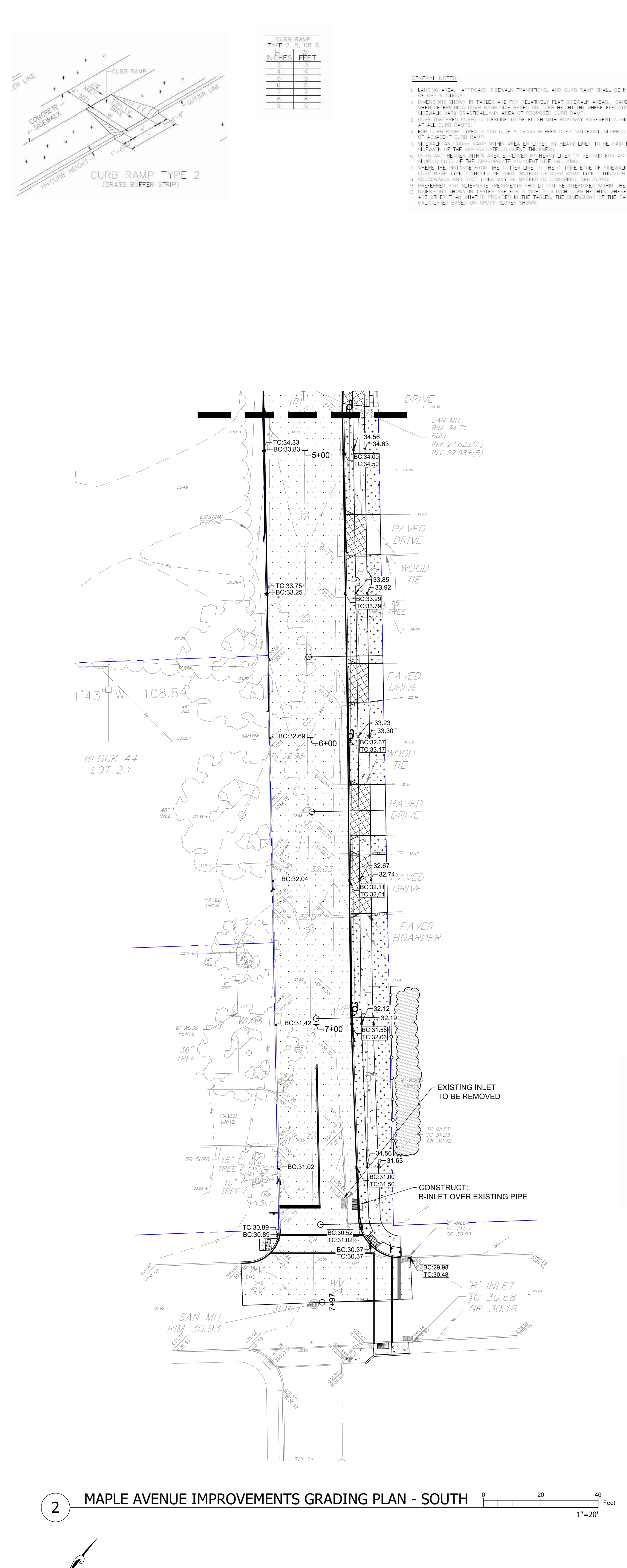
GRADING, DRAINAGE & UTILITIES PLAN
 SCALE AS NOTED
 DATE: 2/10/22
 DWG. LTB
 CXC: FAH

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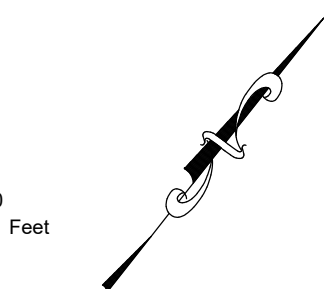
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1 MAPLE AVENUE IMPROVEMENTS GRADING PLAN - NORTH



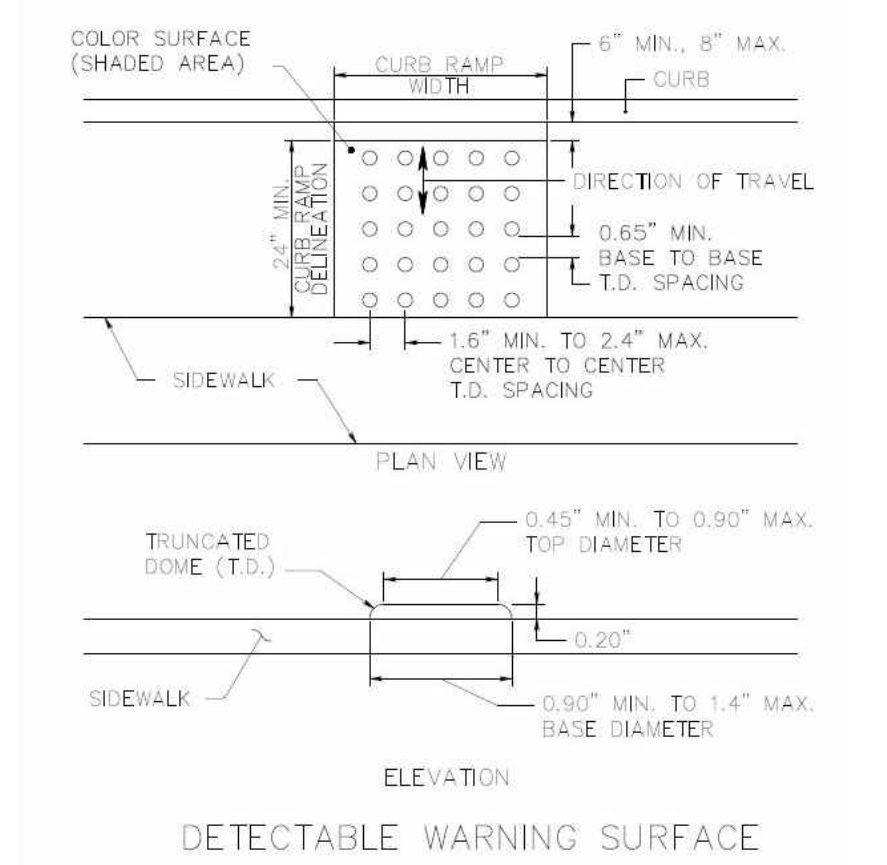
2 MAPLE AVENUE IMPROVEMENTS GRADING PLAN - SOUTH



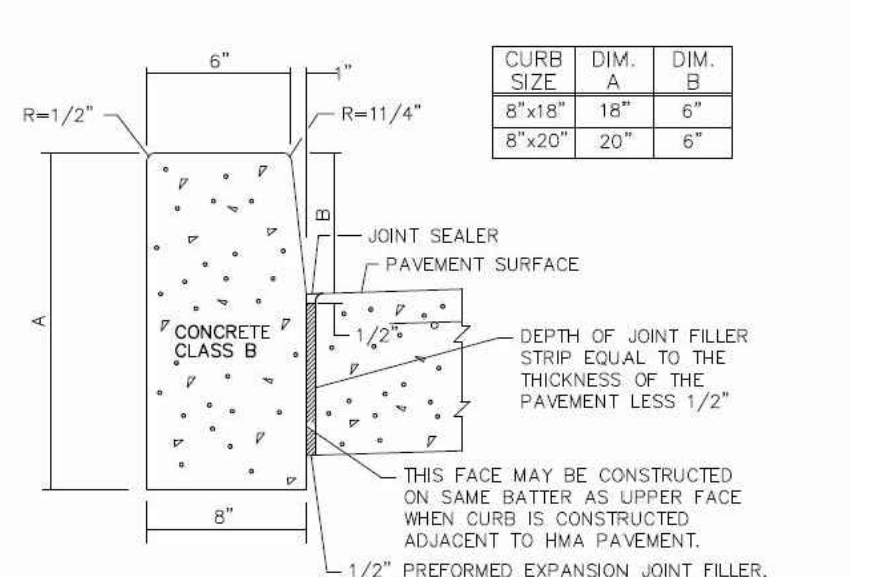
1"=20'

CURB RAMP TYPE	MIN. CURB WIDTH	MIN. CURB HEIGHT
TYPE 1 (S. OR E.)	6"	4"
TYPE 2 (S. OR E.)	6"	4"
TYPE 3 (S. OR E.)	6"	4"
TYPE 4 (S. OR E.)	6"	4"
TYPE 5 (S. OR E.)	6"	4"
TYPE 6 (S. OR E.)	6"	4"
TYPE 7 (S. OR E.)	6"	4"
TYPE 8 (S. OR E.)	6"	4"
TYPE 9 (S. OR E.)	6"	4"
TYPE 10 (S. OR E.)	6"	4"
TYPE 11 (S. OR E.)	6"	4"
TYPE 12 (S. OR E.)	6"	4"
TYPE 13 (S. OR E.)	6"	4"
TYPE 14 (S. OR E.)	6"	4"
TYPE 15 (S. OR E.)	6"	4"
TYPE 16 (S. OR E.)	6"	4"
TYPE 17 (S. OR E.)	6"	4"
TYPE 18 (S. OR E.)	6"	4"
TYPE 19 (S. OR E.)	6"	4"
TYPE 20 (S. OR E.)	6"	4"

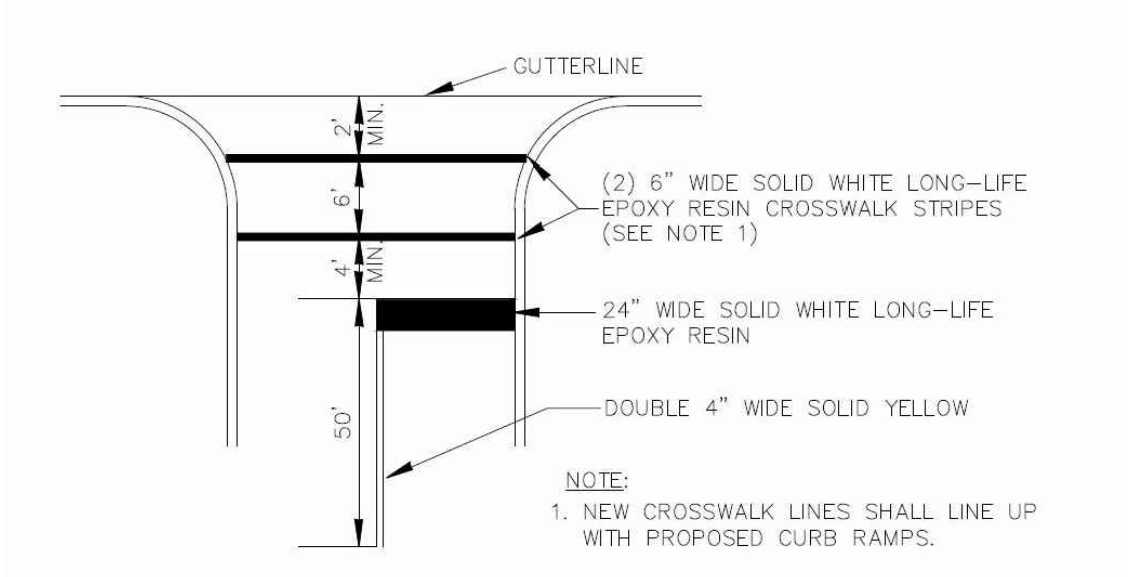
- GENERAL NOTES:**
1. LANDING AREA, APPROACH (SEEKING TRANSITION), AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
 2. THE ELEVATION SHOWN IN TABLES ARE FOR RELATIVELY FLAT (DRAINAGE AREAS). CARE SHOULD BE TAKEN TO VERIFY ELEVATIONS IN AREAS OF PROPOSED CURB RAMP PAVEMENT IS A MINIMUM OF 4 FEET AT ALL CURB RAMP ENDS TO THE FULL RAMP HEIGHT WITHOUT EXCESS CURB TO EQUAL AVOIDANCE OF ADJACENT CURB RAMP.
 3. FOR CURB RAMP TYPES 1 AND 11, A 6" GRASS BUFFER STRIP (SEE NOTE 1) SHALL BE MAINTAINED BEHIND THE CURB RAMP.
 4. CURB AND RAMP SURFACES SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 1 AND 11 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 2 THROUGH 10 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 11 THROUGH 20 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES.
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 10. CURB AND RAMP SURFACES SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 1 AND 11 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 2 THROUGH 10 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES. CURB RAMP TYPES 11 THROUGH 20 SHALL BE FINISHED TO THE PAVED SURFACE FOR ALL CONCRETE CURB RAMP TYPES.



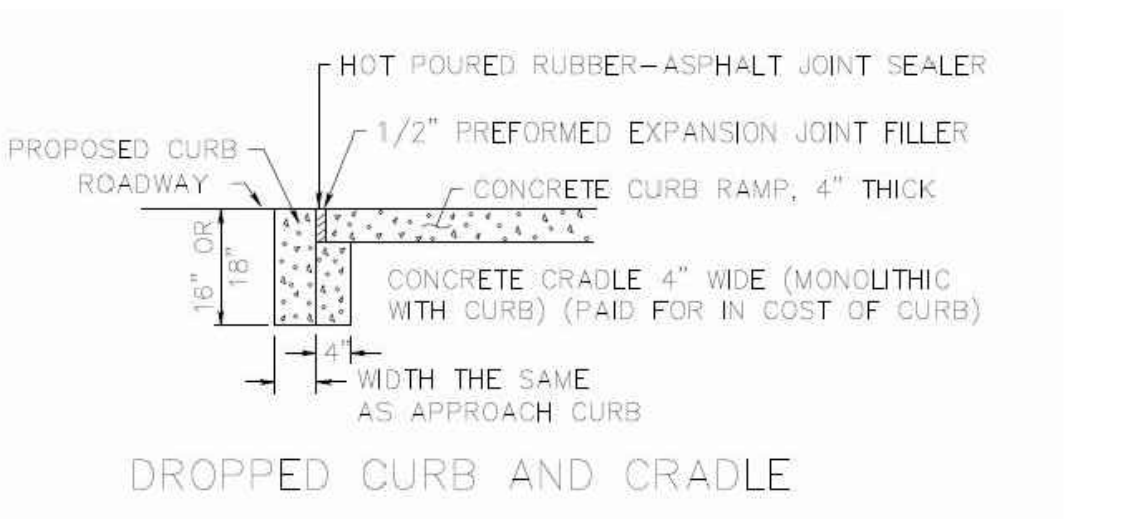
DETECTABLE WARNING SURFACE



CONCRETE VERTICAL CURB NOT TO SCALE



CROSSWALK AND STOP LINE STRIPING DETAIL NOT TO SCALE



DROPPED CURB AND CRADLE

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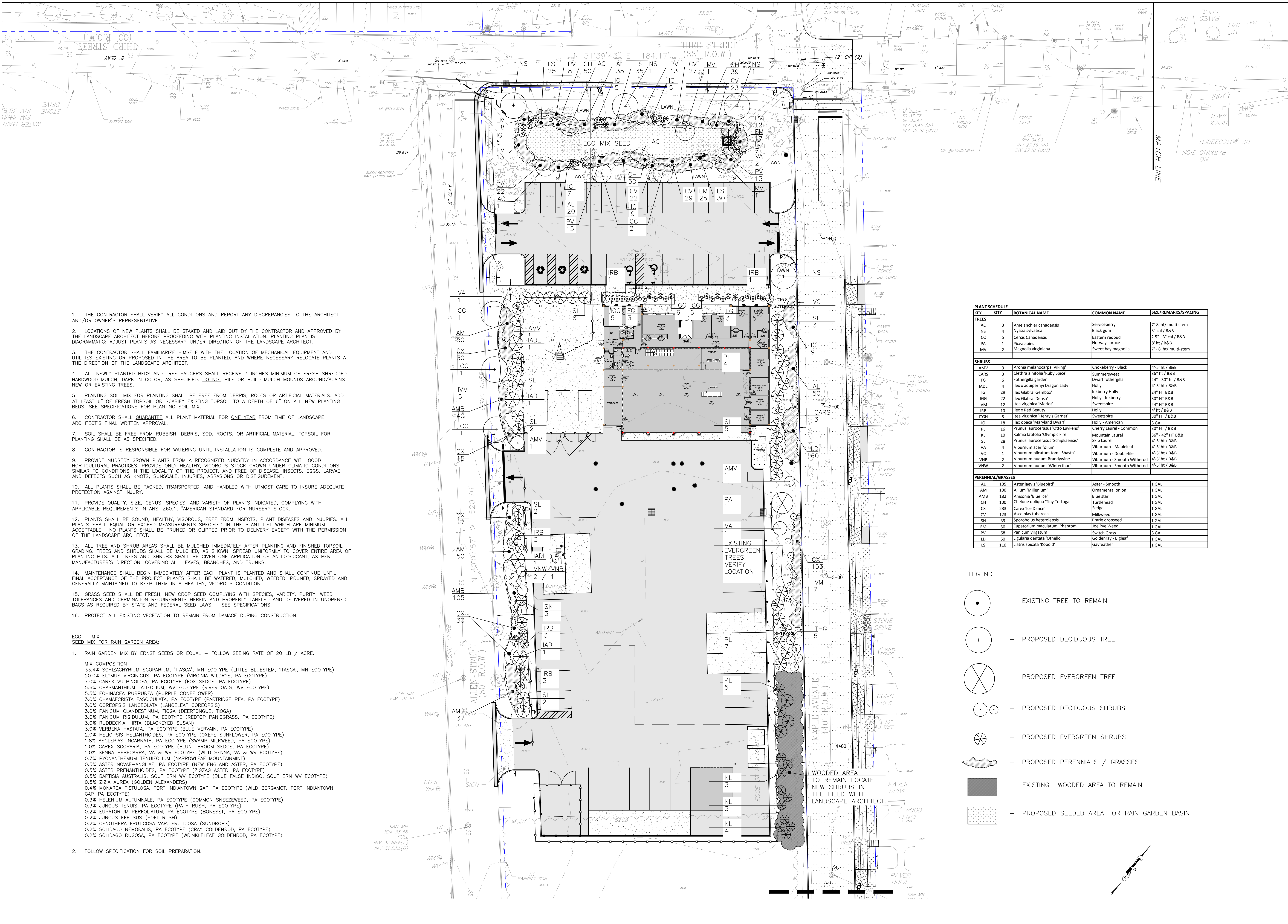
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NEW PUBLIC WORKS BUILDING BOROUGH OF FAIR HAVEN
 BLOCK 44 LOT 2
 1 ALLEN STREET
 FAIR HAVEN, NJ 07704

GRADING, DRAINAGE & UTILITIES PLAN
 SCALE AS NOTED
 DATE: 2/10/22
 4/14/21

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1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
2. LOCATIONS OF NEW PLANTS SHALL BE STAKED AND LAID OUT BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH PLANTING INSTALLATION. PLANTING PLAN IS DIAGRAMMATIC; ADJUST PLANTS AS NECESSARY UNDER DIRECTION OF THE LANDSCAPE ARCHITECT.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF MECHANICAL EQUIPMENT AND UTILITIES EXISTING OR PROPOSED IN THE AREA TO BE PLANTED, AND WHERE NECESSARY RELOCATE PLANTS AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
4. ALL NEWLY PLANTED BEDS AND TREE SAUCERS SHALL RECEIVE 3 INCHES MINIMUM OF FRESH SHREDDED HARDWOOD MULCH, DARK IN COLOR, AS SPECIFIED. DO NOT PILE OR BUILD MULCH MOUNDS AROUND/AGAINST NEW OR EXISTING TREES.
5. PLANTING SOIL MIX FOR PLANTING SHALL BE FREE FROM DEBRIS, ROOTS OR ARTIFICIAL MATERIALS. ADD AT LEAST 6" OF FRESH TOPSOIL OR SCARIFY EXISTING TOPSOIL TO A DEPTH OF 6" ON ALL NEW PLANTING BEDS. SEE SPECIFICATIONS FOR PLANTING SOIL MIX.
6. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR FROM TIME OF LANDSCAPE ARCHITECT'S FINAL WRITTEN APPROVAL.
7. SOIL SHALL BE FREE FROM RUBBISH, DEBRIS, SOD, ROOTS, OR ARTIFICIAL MATERIAL. TOPSOIL FOR PLANTING SHALL BE AS SPECIFIED.
8. CONTRACTOR IS RESPONSIBLE FOR WATERING UNTIL INSTALLATION IS COMPLETE AND APPROVED.
9. PROVIDE NURSERY GROWN PLANTS FROM A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES. PROVIDE ONLY HEALTHY, VIGOROUS STOCK GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO CONDITIONS IN THE LOCALITY OF THE PROJECT, AND FREE OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUNSCALE, INJURIES, ABRASIONS OR DISFIGUREMENT.
10. ALL PLANTS SHALL BE PACKED, TRANSPORTED, AND HANDLED WITH UTMOST CARE TO INSURE ADEQUATE PROTECTION AGAINST INJURY.
11. PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1, "AMERICAN STANDARD FOR NURSERY STOCK."
12. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM INSECTS, PLANT DISEASES AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED MEASUREMENTS SPECIFIED IN THE PLANT LIST WHICH ARE MINIMUM ACCEPTABLE. NO PLANTS SHALL BE PRUNED OR CLIPPED PRIOR TO DELIVERY EXCEPT WITH THE PERMISSION OF THE LANDSCAPE ARCHITECT.
13. ALL TREE AND SHRUB AREAS SHALL BE MULCHED IMMEDIATELY AFTER PLANTING AND FINISHED TOPSOIL GRADING. TREES AND SHRUBS SHALL BE MULCHED, AS SHOWN, SPREAD UNIFORMLY TO COVER ENTIRE AREA OF PLANTING PITS. ALL TREES AND SHRUBS SHALL BE GIVEN ONE APPLICATION OF ANTIDESICCANT, AS PER MANUFACTURER'S DIRECTION, COVERING ALL LEAVES, BRANCHES, AND TRUNKS.
14. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE UNTIL FINAL ACCEPTANCE OF THE PROJECT. PLANTS SHALL BE WATERED, MULCHED, WEEDED, PRUNED, SPRAYED AND GENERALLY MAINTAINED TO KEEP THEM IN A HEALTHY, VIGOROUS CONDITION.
15. GRASS SEED SHALL BE FRESH, NEW CROP SEED COMPLYING WITH SPECIES, VARIETY, PURITY, WEED TOLERANCES AND GERMINATION REQUIREMENTS HEREIN AND PROPERLY LABELED AND DELIVERED IN UNOPENED BAGS AS REQUIRED BY STATE AND FEDERAL SEED LAWS - SEE SPECIFICATIONS.
16. PROTECT ALL EXISTING VEGETATION TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

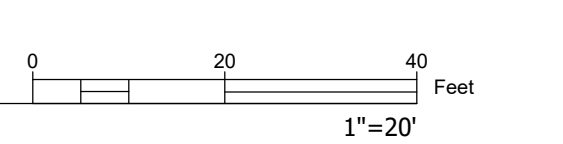
- ECO - MIX
SEED MIX FOR RAIN GARDEN AREA:
1. RAIN GARDEN MIX BY ERNST SEEDS OR EQUAL - FOLLOW SEEDING RATE OF 20 LB / ACRE.
MIX COMPOSITION:
33.4% SCHIZACHYRIUM SCOPARIUM, 'ITASCA', MN ECOTYPE (LITTLE BLUESTEM, 'ITASCA', MN ECOTYPE)
20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
7.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
5.6% CHASMANTHIUM LATIFOLIUM, WV ECOTYPE (RIVER OATS, WV ECOTYPE)
5.0% ECHINACEA PURPUREA (PURPLE CONEFLOWER)
3.0% CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA, PA ECOTYPE)
3.0% COREOPSIS LANCEOLATA (LANEAL LEAF COREOPSIS)
3.0% PANICUM CLANDESTINUM, TIOGA (DEERTONGUE, TIOGA)
3.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)
3.0% RUDBECKIA HIRTA (BLACKEYED SUSAN)
3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
1.8% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
1.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
1.0% SENNA HEBECARPA, VA & WV ECOTYPE (WILD SENNA, VA & WV ECOTYPE)
0.7% PYCNANTHEMUM TENUFOLIUM (NARROWLEAF MOUNTAINMINT)
0.5% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
0.5% ASTER PRENANTHOIDES, PA ECOTYPE (ZZAZAG ASTER, PA ECOTYPE)
0.5% BAPTISIA AUSTRALIS, SOUTHERN WV ECOTYPE (BLUE FALSE INDIGO, SOUTHERN WV ECOTYPE)
0.5% ZIZIA AUREA (GOLDEN ALEXANDERS)
0.4% MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE (WILD BERGAMOT, FORT INDIANTOWN GAP-PA ECOTYPE)
0.3% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEEED, PA ECOTYPE)
0.3% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
0.2% EUPATORIUM PERFORLTIUM, PA ECOTYPE (BONASET, PA ECOTYPE)
0.2% JUNCUS EFFUSUS (SOFT RUSH)
0.2% OENOTHERA FRUTICOSA VAR. FRUTICOSA (SUNDROPS)
0.2% SOLIDAGO NEMORALIS, PA ECOTYPE (GRAY GOLDENROD, PA ECOTYPE)
0.2% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)

2. FOLLOW SPECIFICATION FOR SOIL PREPARATION.

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE/REMARKS/SPACING
TREES				
AC	3	Amelanchier canadensis	Serviceberry	7'-8' ht / multi-stem
NS	4	Nyssa sylvatica	Black gum	3' cal / B&B
CC	5	Cercis Canadensis	Eastern redbud	2.5' - 3' cal / B&B
PA	1	Picea abies	Norway spruce	8' ht / B&B
MV	2	Magnolia virginiana	Sweet bay magnolia	7' - 8' ht / multi-stem
SHRUBS				
AMV	3	Aronia melanocarpa 'Viking'	Chokeberry - Black	4'-5' ht / B&B
CARS	3	Clethra alnifolia 'Ruby Spice'	Summersweet	36" ht / B&B
FG	6	Fothergilla gardenii	Dwarf fothergilla	24" - 30" ht / B&B
IADL	4	Ilex x aucuperna Dragon Lady	Holly	4'-5' ht / B&B
IG	29	Ilex Glabra 'Embox'	Inkberry Holly	24" HT B&B
IGG	22	Ilex Glabra 'Densa'	Holly - Inkberry	30" HT B&B
IVM	12	Itea virginica 'Merlot'	Sweetspire	24" HT B&B
IRB	10	Ilex x Red Beauty	Holly	4' ht / B&B
ITHG	5	Itea virginica 'Henry's Garnet'	Sweetspire	30" HT / B&B
IO	18	Ilex opaca 'Maryland Dwarf'	Holly - American	3 GAL
PL	16	Prunus laurocerasus 'Otto Luykens'	Cherry Laurel - Common	30" HT / B&B
KL	10	Kalmia latifolia 'Olympic Fire'	Mountain Laurel	36" - 42" HT B&B
SL	28	Prunus laurocerasus 'Schipkaensis'	Skip Laurel	4'-5' ht / B&B
VA	4	Viburnum acerifolium	Viburnum - Mapleleaf	4'-5' ht / B&B
VC	1	Viburnum plicatum tom. 'Shasta'	Viburnum - Doubleleaf	4'-5' ht / B&B
VNB	2	Viburnum nudum Brandywine	Viburnum - Smooth Withered	4'-5' ht / B&B
VNV	2	Viburnum nudum 'Winterthur'	Viburnum - Smooth Withered	4'-5' ht / B&B
PERENNIAL/GRASSES				
AL	105	Aster laevis 'Bluebird'	Aster - Smooth	1 GAL
AM	100	Allium 'Millenium'	Ornamental onion	1 GAL
AMB	182	Amsonia 'Blue Ice'	Blue star	1 GAL
CH	100	Chelone obliqua 'Tiny Tortuga'	Turtlehead	1 GAL
CX	233	Carex 'Ice Dance'	Sedge	1 GAL
CV	123	Asclepias tuberosa	Milkweed	1 GAL
SH	39	Sporobolus heterolepis	Prairie dropseed	1 GAL
EM	50	Eupatorium maculatum 'Phantom'	Joe Pye Weed	1 GAL
PV	68	Panicum virgatum	Switch Grass	3 GAL
LD	60	Ligularia dentata 'Othello'	Goldenray - Bigleaf	1 GAL
LS	110	Liatris spicata 'Kobold'	Gayfeather	1 GAL

- LEGEND**
- - EXISTING TREE TO REMAIN
 - ⊕ - PROPOSED DECIDUOUS TREE
 - ⊗ - PROPOSED EVERGREEN TREE
 - ⊙ - PROPOSED DECIDUOUS SHRUBS
 - ⊗ - PROPOSED EVERGREEN SHRUBS
 - ⊚ - PROPOSED PERENNIALS / GRASSES
 - ◼ - EXISTING WOODED AREA TO REMAIN
 - ◼ - PROPOSED SEEDED AREA FOR RAIN GARDEN BASIN

1 LANDSCAPING PLAN



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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07040

LANDSCAPING PLAN

SCALE AS NOTED
DATE: 2/10/22

DWN: LTB
CKD: EJA

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

DRAWING NUMBER
C-207

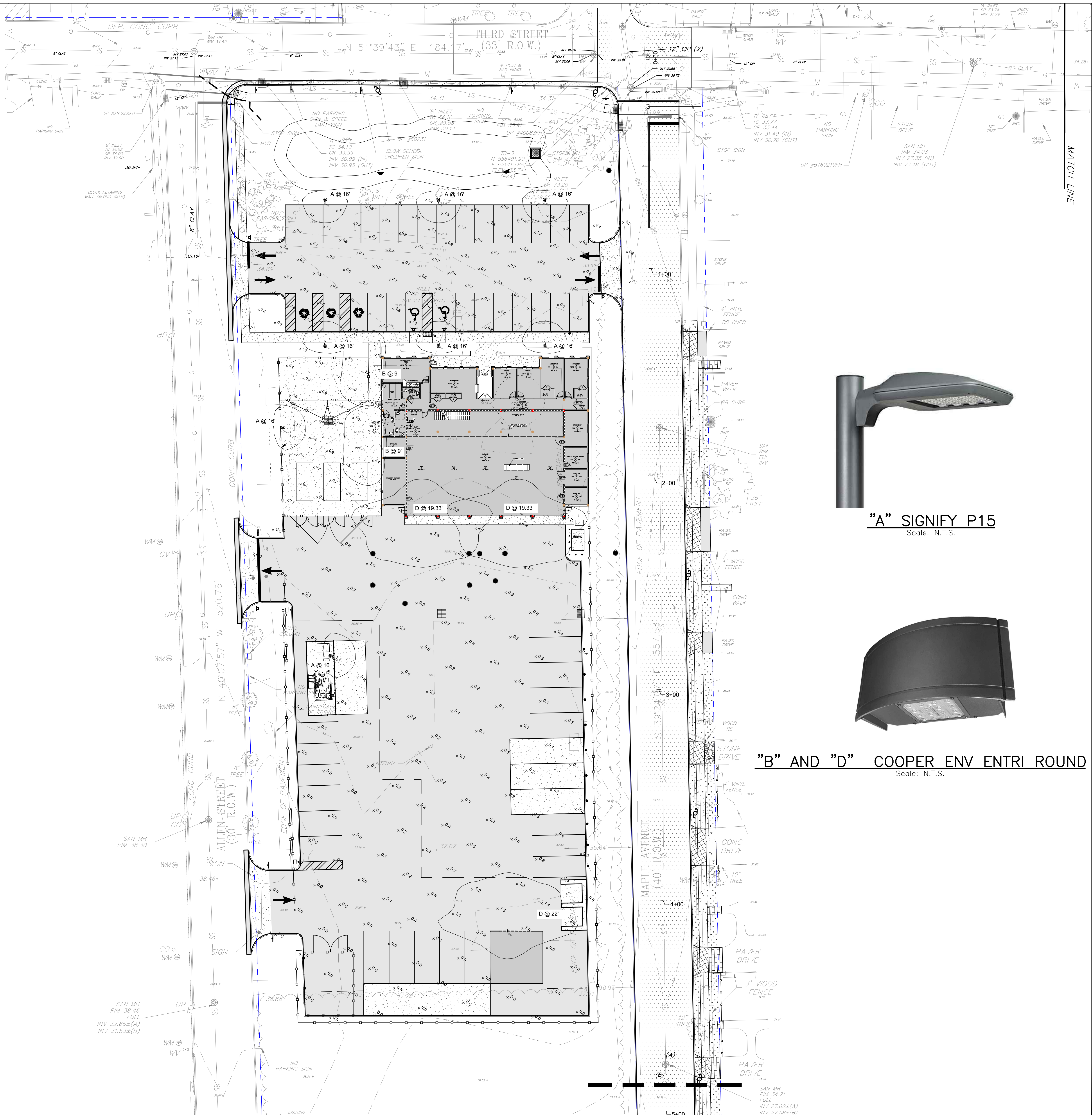
SHEET OF

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DPW Yard	+	0.5 fc	2.7 fc	0.0 fc	N/A	N/A
Recycling Area	+	1.4 fc	4.6 fc	0.1 fc	46.0:1	14.0:1
Visitor Parking Lot	+	0.7 fc	1.8 fc	0.2 fc	9.0:1	3.5:1

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
□	A		8	SIGNIFY CANADA LTD	P15P-A01-750-T45	Fluorescent Area Small 8' Square 32 LED's, 300K CCT, TYPE T45 OPTIC.	1	2046	1	143
□	B		2	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	ENT-6A16-735-0-0L4-HS	ENTRLED LUMINAIRE (1) TO CR. 300K, 200mA LIGHT SQUARE WITH W. LEDS AND TYPE M SPL. LIGHT ELMINATOR OPTICS WITH HOUSE SIDE SHIELD	16	131	1	26.1
□	D		3	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	ENV-6A1F-735-0-16FT	ENTRLED LUMINAIRE (1) TO CR. 300K, 1200mA LIGHT SQUARE WITH W. LEDS AND TYPE IV FORWARD THROW OPTICS	16	438	1	66.1

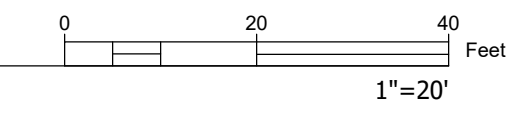


"A" SIGNIFY P15
Scale: N.T.S.



"B" AND "D" COOPER ENV ENTRI ROUND
Scale: N.T.S.

1 LIGHTING PLAN



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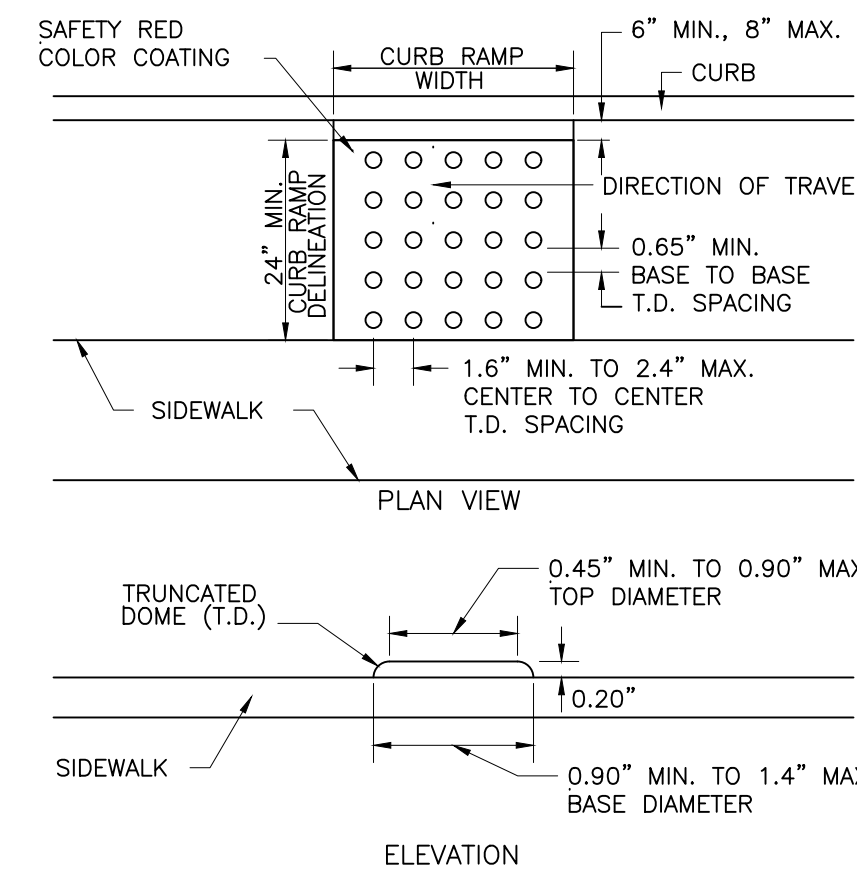
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**NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN**
BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07704

SITE LIGHTING PLAN
SCALE AS NOTED
DATE: 9/18/22
DWG: LTB
CHK: EJA

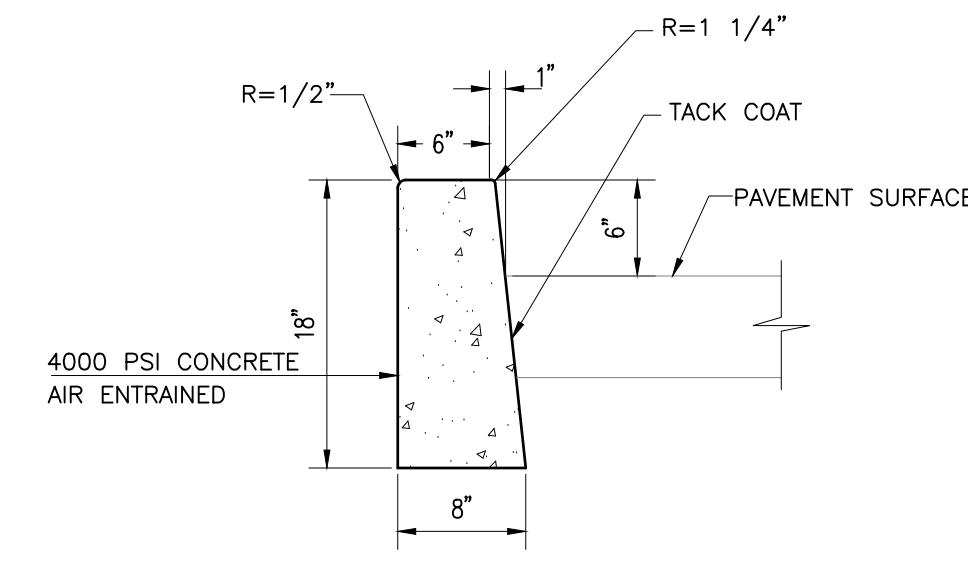
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DRAWING NUMBER
C-208
SHEET OF



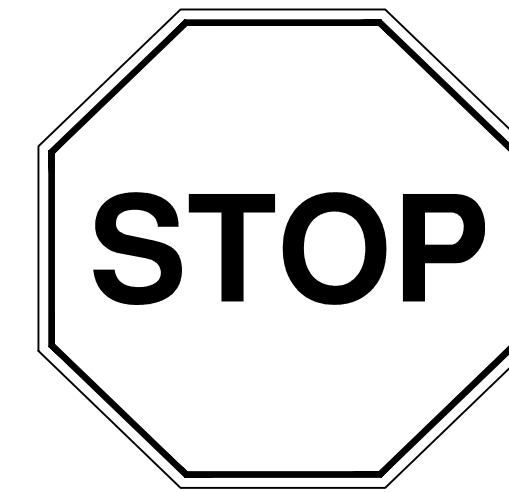
DETECTABLE WARNING SURFACE
Scale: N.T.S.

Materials for Detectable Warning Surfaces shall be safety red and appear uniform in color after curing. The surface coating material shall be an abrasion, UV and chemical resistant and shall be capable of adhering to existing or new portland concrete surfaces. The minimum final dry coat thickness shall be 1 millimeter. The cured coating must exhibit the following minimum coefficients of friction when tested according to ASTM D 1894:
Static coefficient of friction by 0.95 - 0.98 Dynamic coefficient of friction by 0.91 - 0.95
Wet 1.30 - 1.42 Wet 1.27 - 1.38
The Detectable Warning Surfaces shall be installed according to the manufacturer's recommendations.

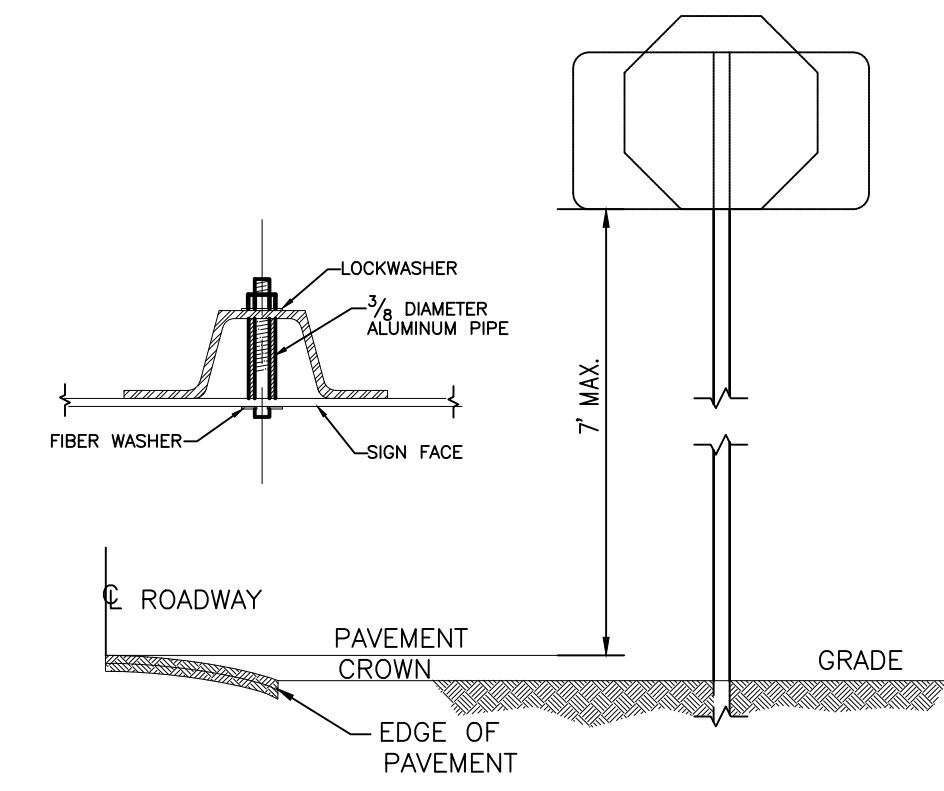


ON-SITE CONCRETE VERTICAL CURB DETAIL
Scale: N.T.S.

TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO SPEC. M-213, RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.



STOP SIGN
Scale: N.T.S.



SIGN POST
NTS

1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. TWO PIECE STEEL POST SHALL BE EMBEDDED 3'-8" MIN. ONE PIECE STEEL POST SHALL BE EMBEDDED 3'-4" MAX.
3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT A.S.T.M. SPECIFICATIONS A 123.
4. POSTS MAY BE STEEL OR 3 PIECE STEEL U-POST IN CONFORMANCE WITH THE NOTES BELOW.
5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
6. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE ALL THE THREADS IN THE NUT.
7. THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE: EDGE OF PAVEMENT TO BOTTOM OF SIGN AS PER SECTION 2A-23 OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" GROUNDLINE TO BOTTOM OF SIGN SHALL BE 7 FEET MINIMUM. FOR SINGLE SIGN INSTALLATIONS, THE MINIMUM DISTANCE FROM GROUNDLINE TO THE TOP OF SIGN MUST BE 9 FEET.
8. PERMANENT SIGN SUPPORTS SHALL BE INSTALLED ON SLOPES GREATER THAN 10:1, UNLESS BEHIND A TRAFFIC BARRIER, AND THE SLOPE SHALL EXTEND A MINIMUM OF 3'-0" BEYOND THE OUTSIDE EDGE OF SIGN (SEE GRADING DETAIL FOR SLOPE TREATMENT).
9. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH U-POST SIGN SUPPORTS.
10. U-POST SIGN SUPPORTS SHALL NOT BE PLACED IN FRONT OF CURB RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
11. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPLICE.

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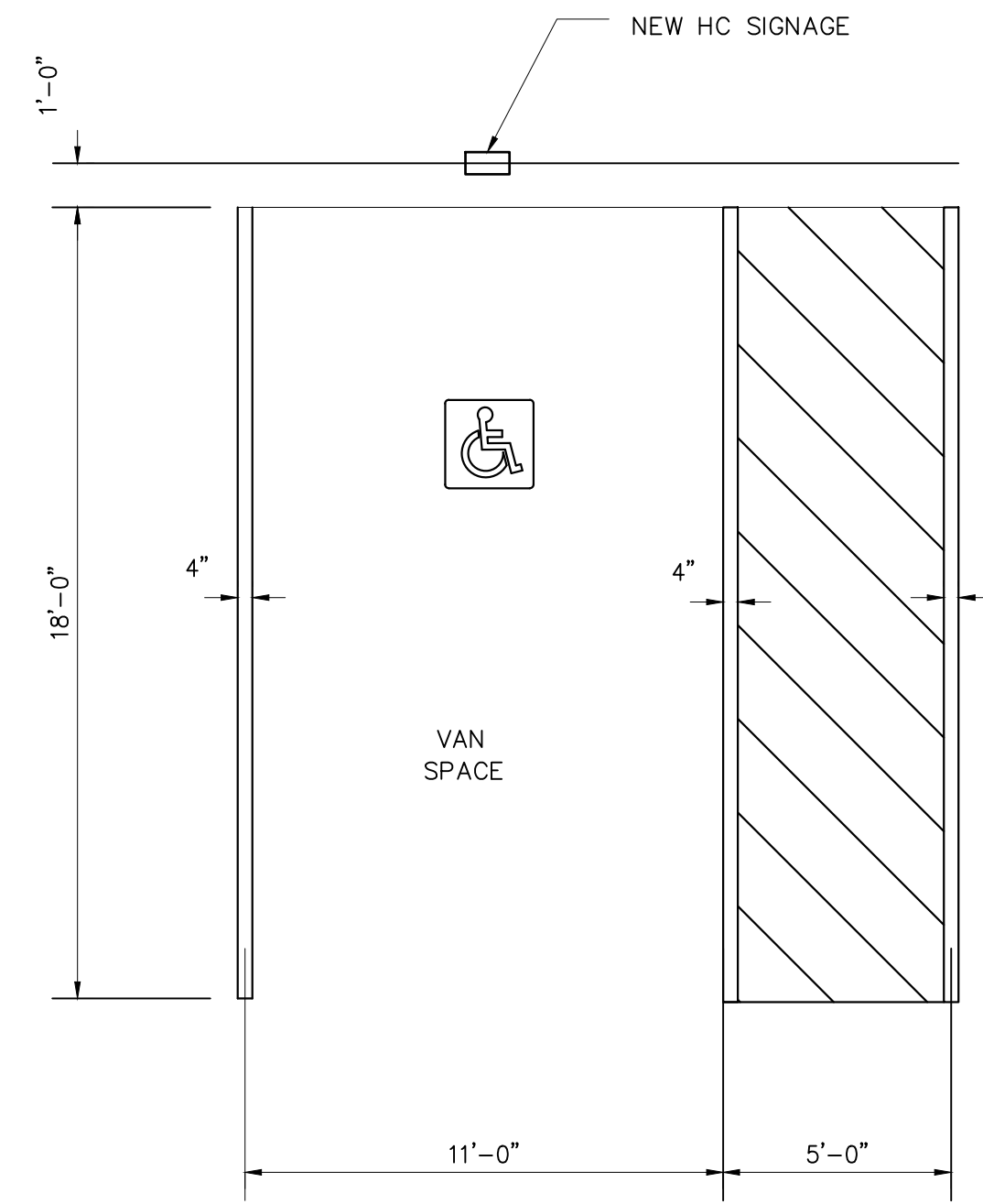
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NEW PUBLIC WORKS BUILDING
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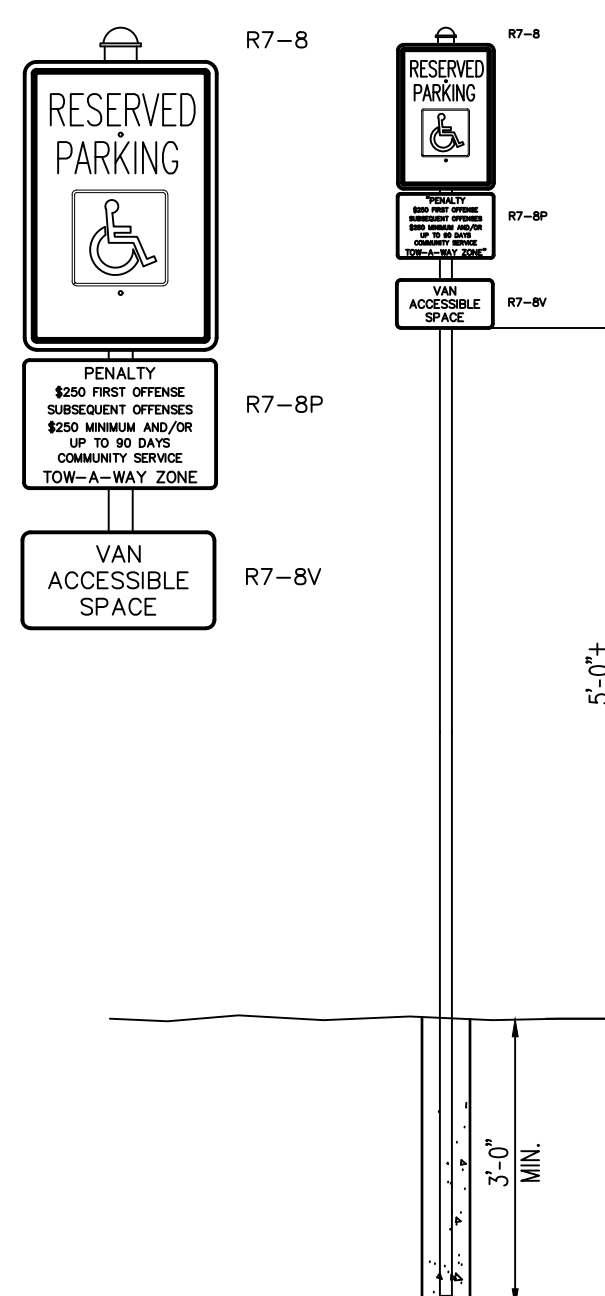
SITE DETAILS
SCALE AS NOTED
DATE: 9/10/2021
DWG: LTB
CHK: RJA

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

DRAWING NUMBER
C-209
SHEET OF

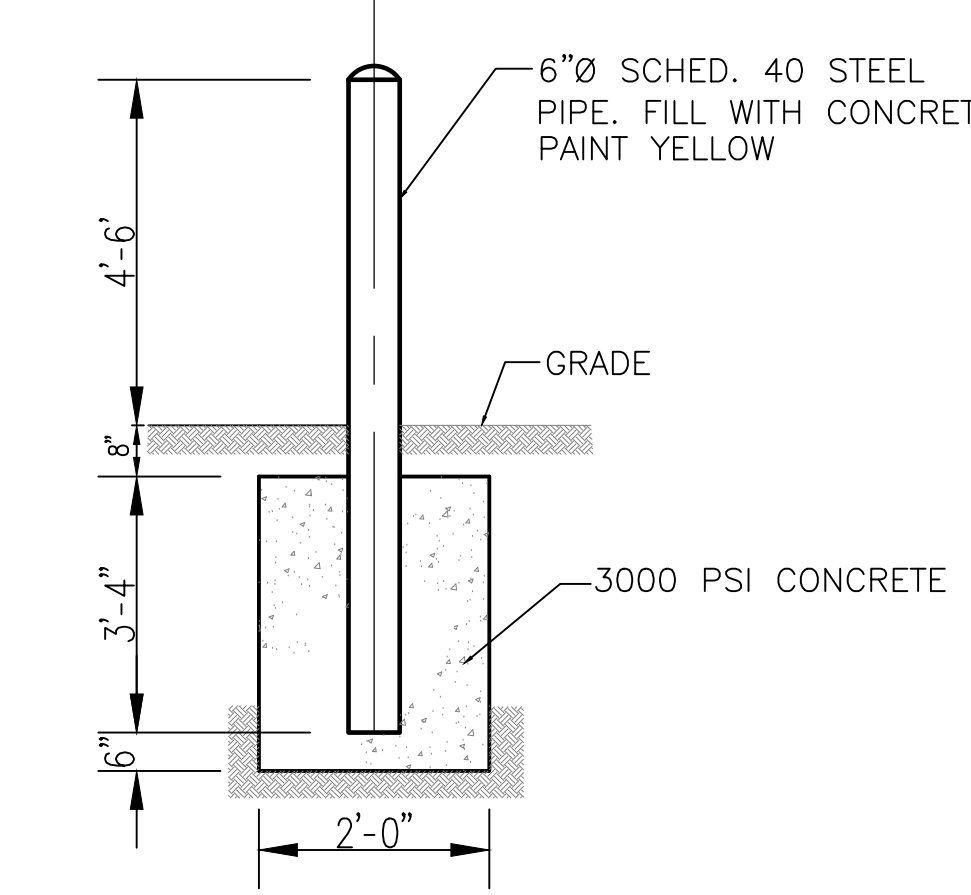


HANDICAP ACCESSIBLE PARKING SPACES
NTS

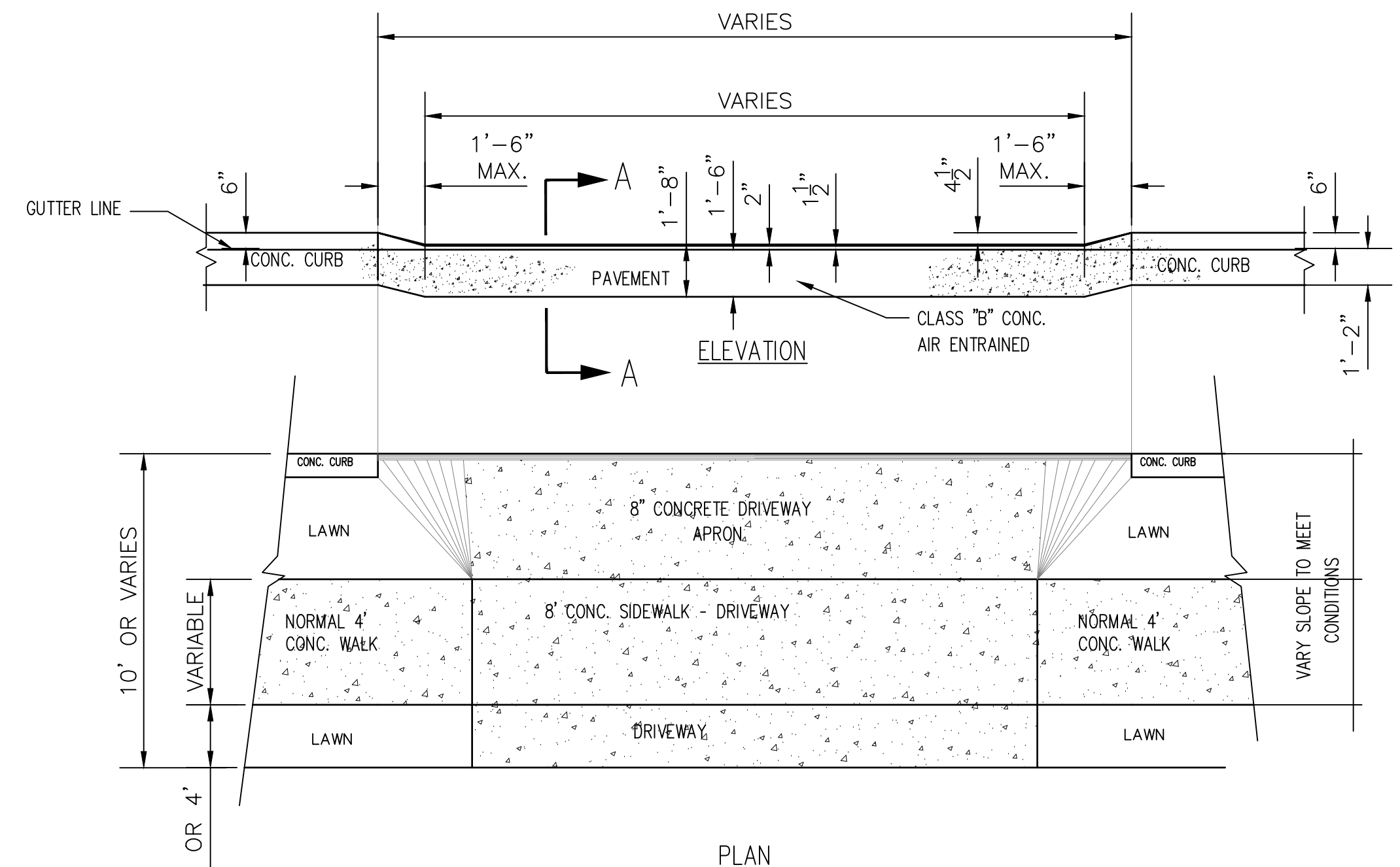


HANDICAP DETAIL
Scale: N.T.S.

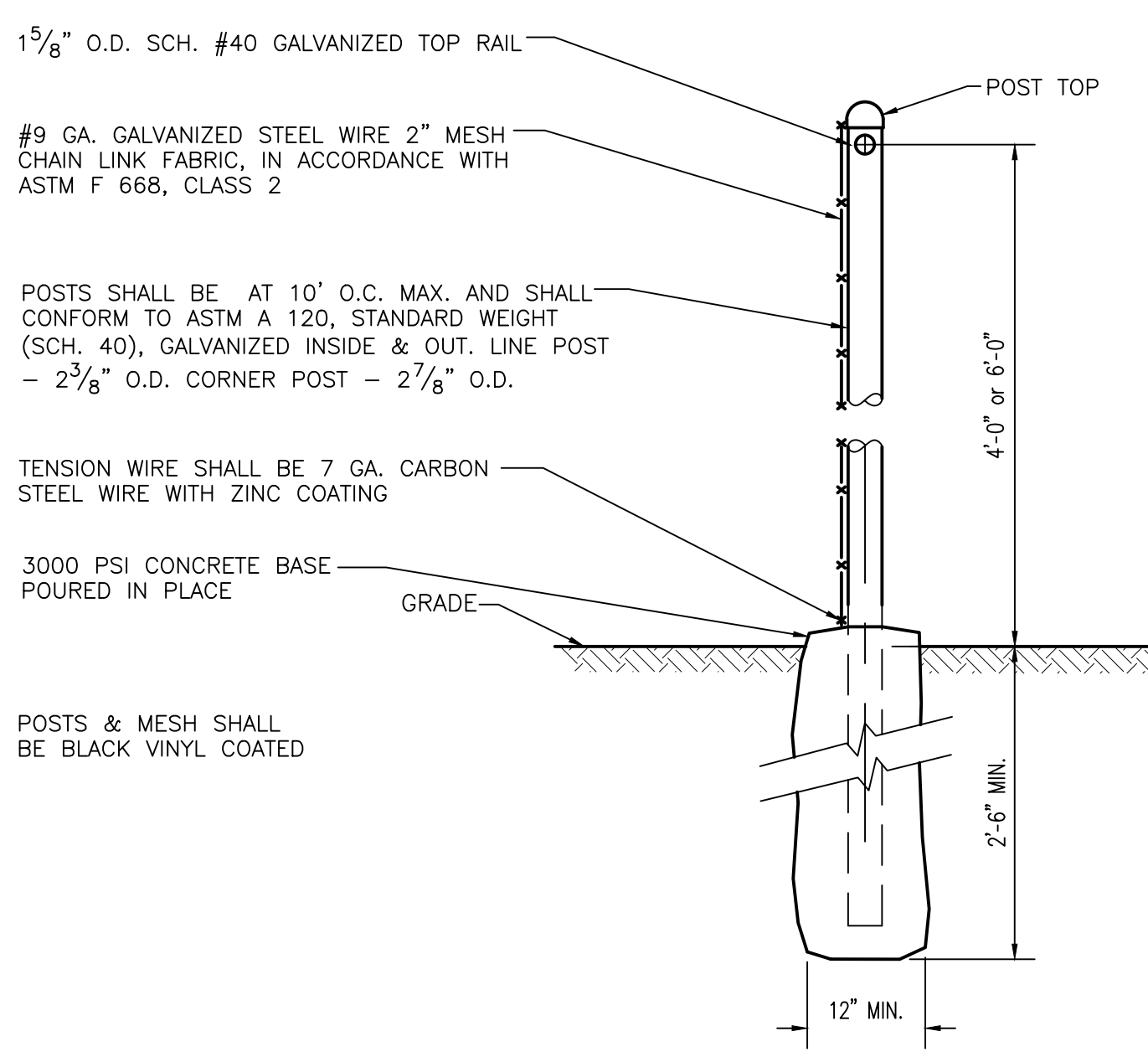
1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS OR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS".
2. STEEL POST SHALL BE EMBEDDED 3'-0" MIN.
3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT A.S.T.M. SPECIFICATIONS A 123.
4. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE ALL THREADS IN THE NUT.
5. SIGNS SHALL BE R7-8 & R7-8V AS DEPICTED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES



BOLLARD DETAIL
Scale: N.T.S.

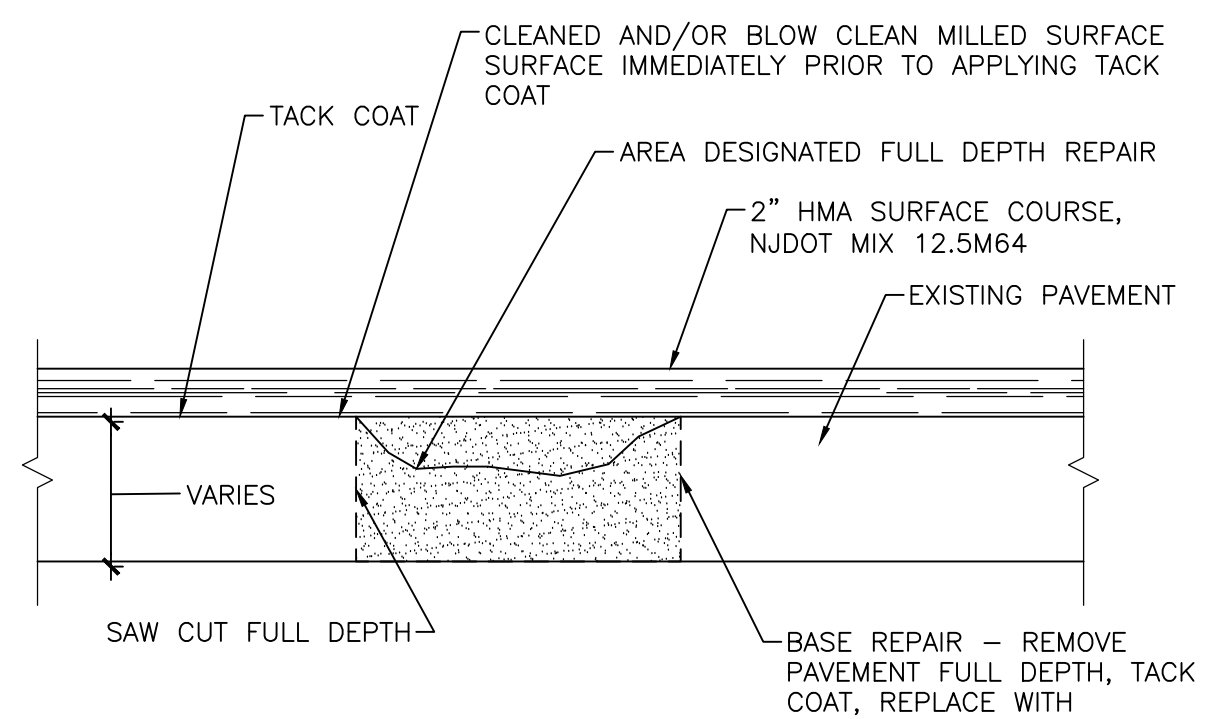


ON-SITE CONCRETE APRON/SIDEWALK DETAIL
Scale: N.T.S.

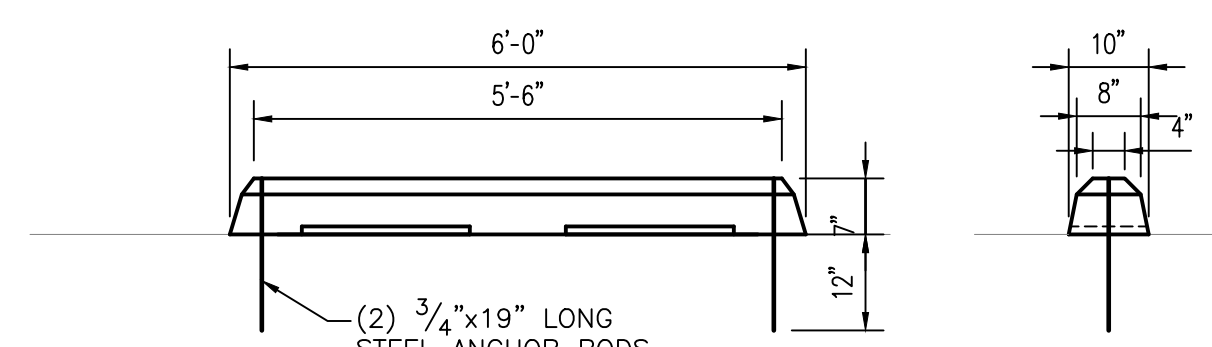


CHAIN LINK FENCE
Scale: N.T.S.

- 1 1/2" O.D. SCH. #40 GALVANIZED TOP RAIL
- #9 GA. GALVANIZED STEEL WIRE 2" MESH CHAIN LINK FABRIC, IN ACCORDANCE WITH ASTM F 668, CLASS 2
- POSTS SHALL BE AT 10' O.C. MAX. AND SHALL CONFORM TO ASTM A 120, STANDARD WEIGHT (SCH. 40), GALVANIZED INSIDE & OUT. LINE POST - 2 7/8" O.D. CORNER POST - 2 7/8" O.D.
- TENSION WIRE SHALL BE 7 GA. CARBON STEEL WIRE WITH ZINC COATING
- 3000 PSI CONCRETE BASE POURED IN PLACE
- POSTS & MESH SHALL BE BLACK VINYL COATED

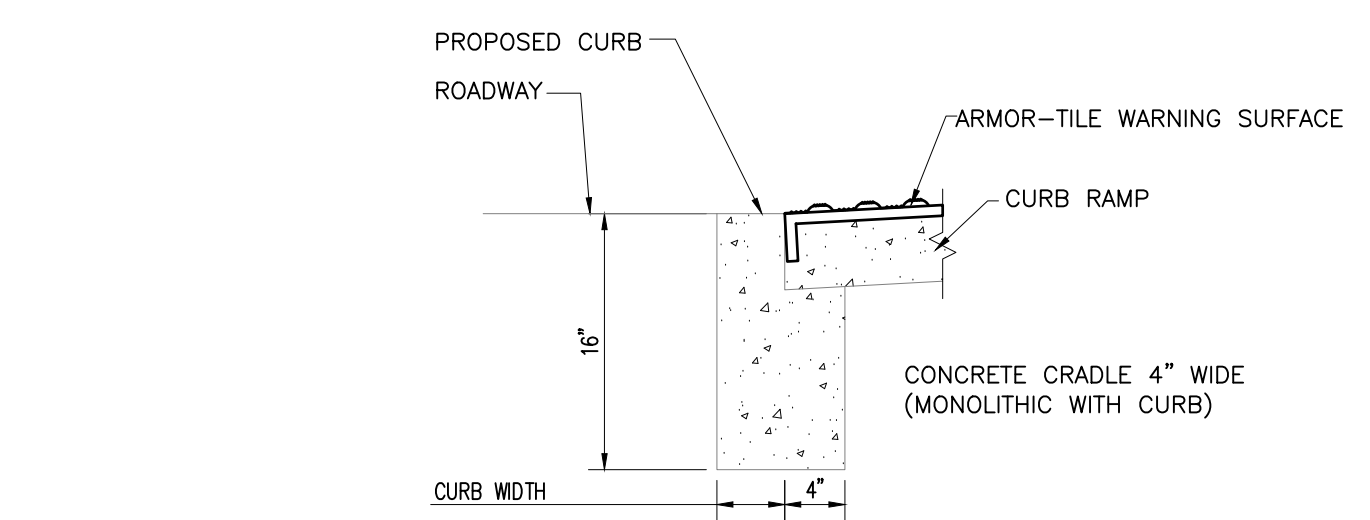


PAVEMENT OVERLAY DETAIL
Scale: N.T.S.

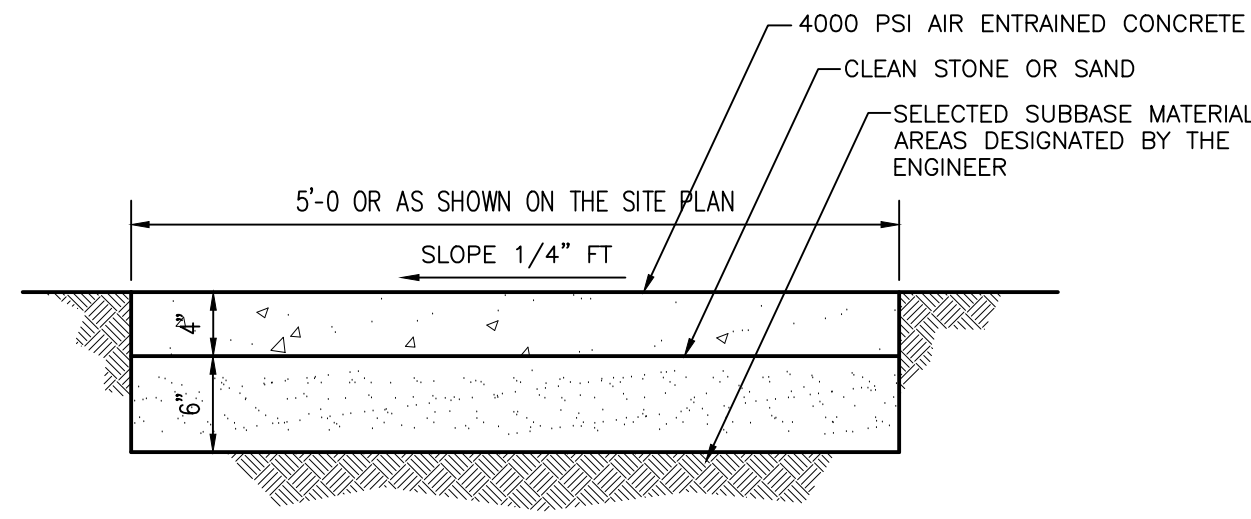


WHEEL STOP DETAIL
Scale: N.T.S.

3000 PSI CONC. WITH DEFORMED BAR REINFORCEMENT AS MANUFACTURED BY GASTEX CORP.

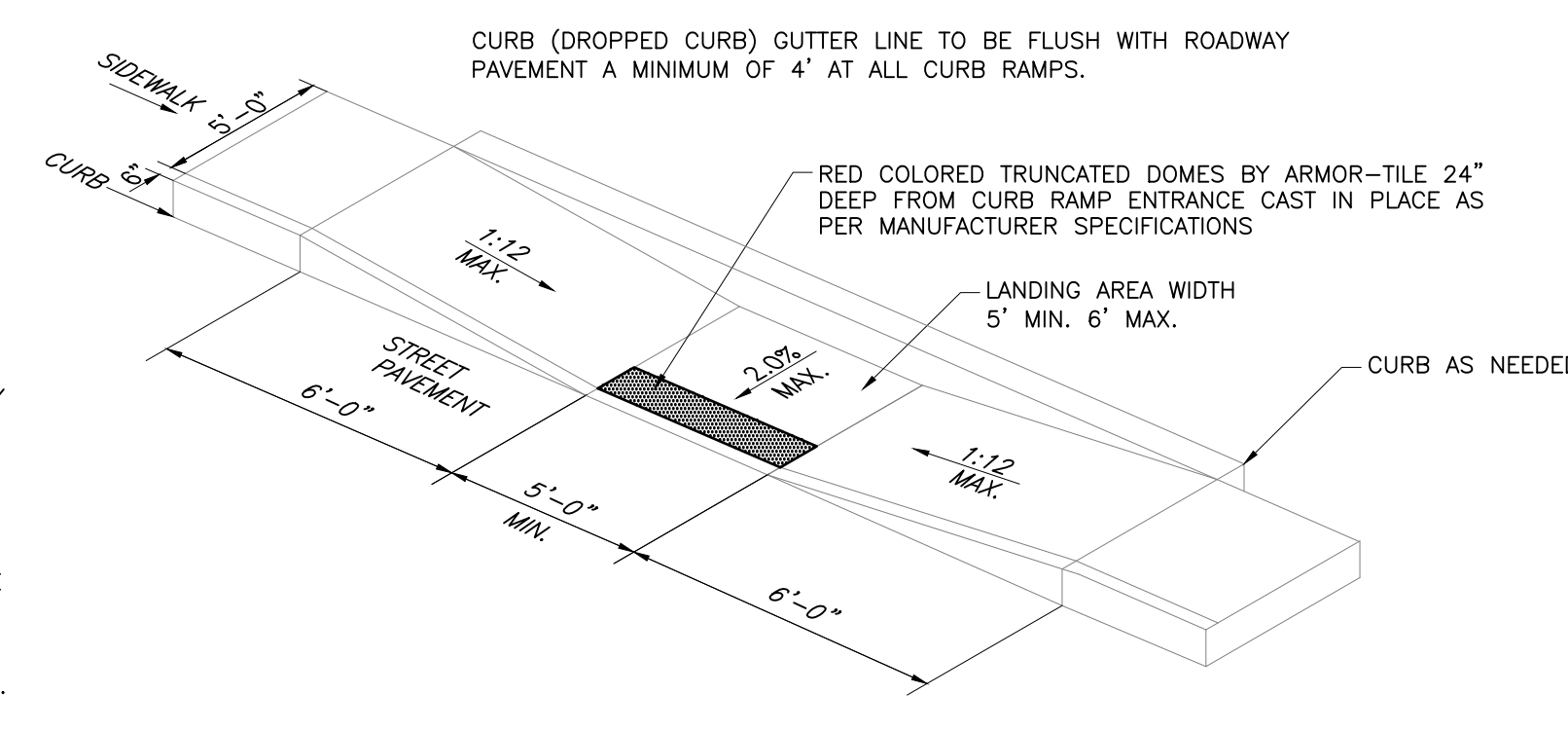


DEPRESSED CURB & CRADLE DETAIL
Scale: N.T.S.

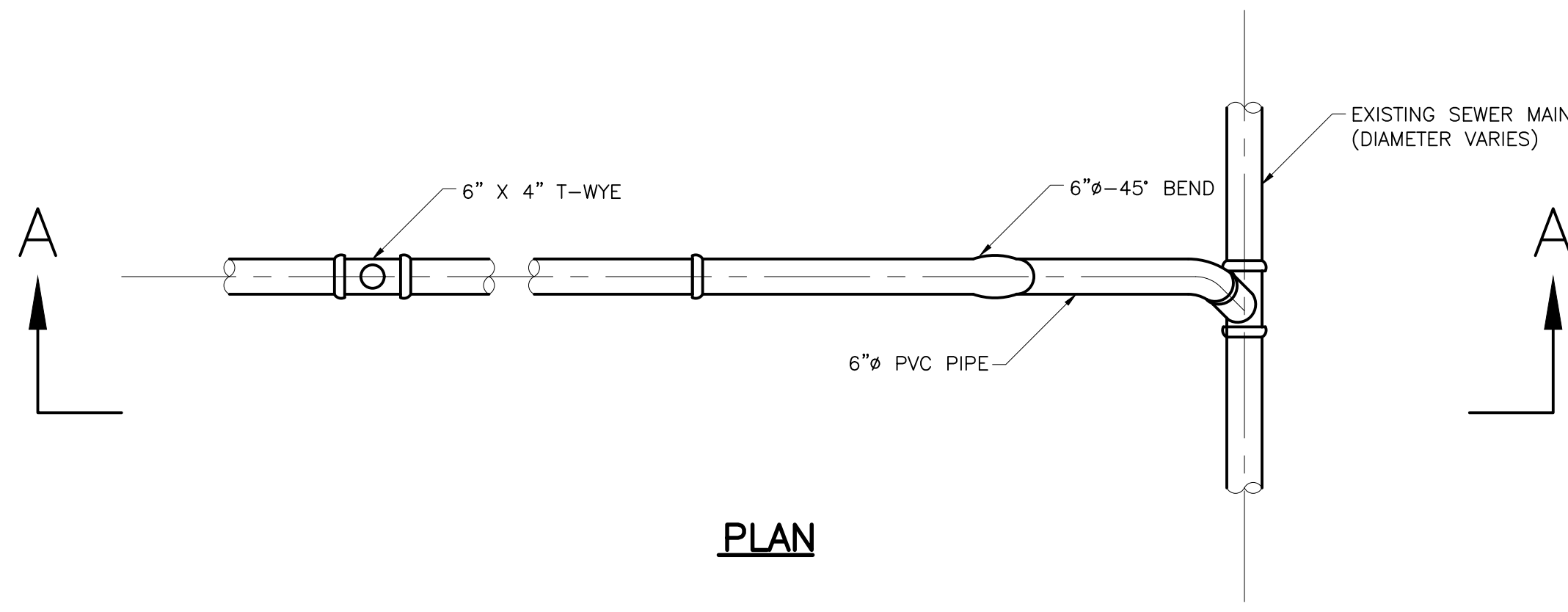


4" CONCRETE ON-SITE SIDEWALK DETAIL
Scale: N.T.S.

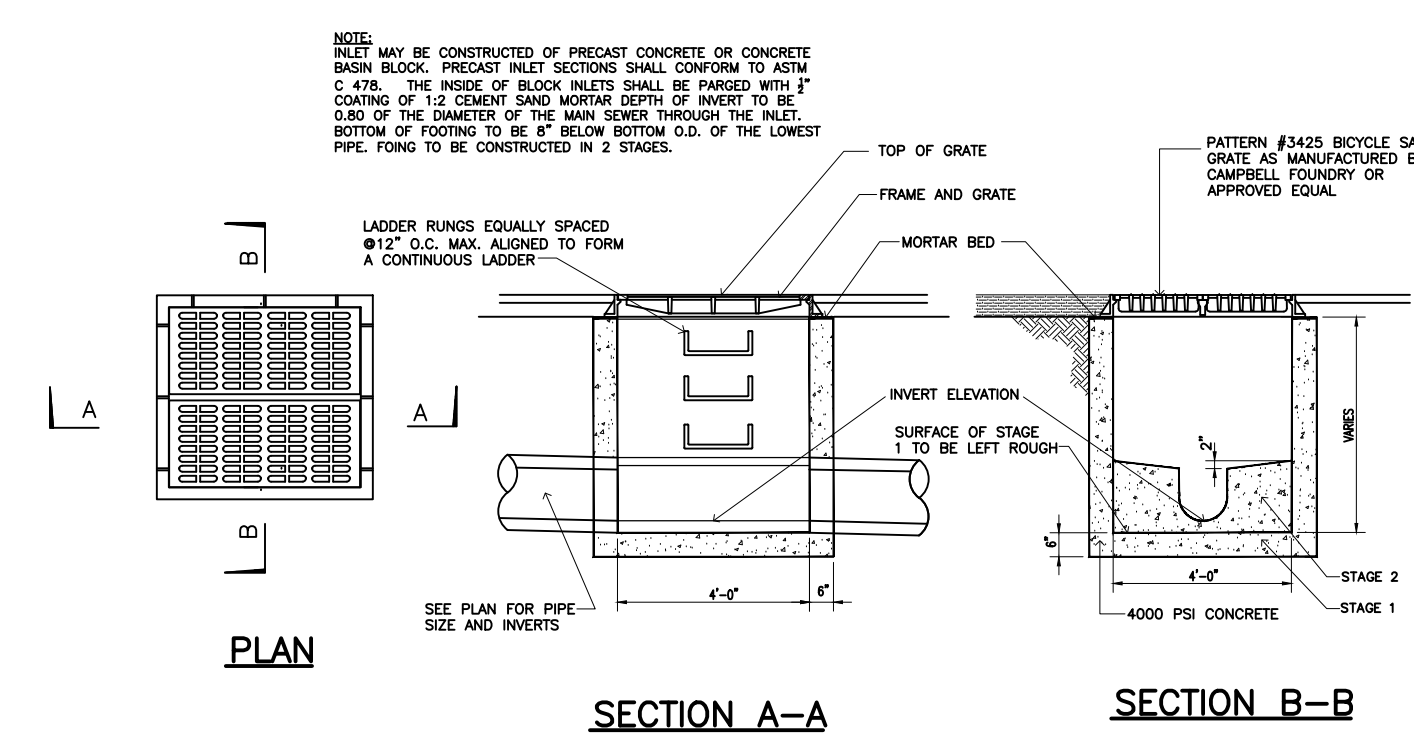
- NOTES:
1. CONCRETE TO TEST 4000 PSI PER SQ. INCH MINIMUM ON 28 DAY COMPRESSIVE TEST.
 2. ALL CONCRETE IS TO BE PROPERLY CURED USING A CURING COMPOUND, SALT HAY, BURLAP OR OTHER METHOD ACCEPTABLE TO MUNICIPAL ENGINEER.
 3. CONCRETE SLUMP TO BE 3(+1) INCHES OR AS DIRECTED BY THE MUNICIPAL ENGINEER.
 4. STEEL SEPARATORS SHALL BE USED WITH ALL THE FORMS TO CREATE A CONSTRUCTION JOINT EVERY 8 FEET ALONG THE SIDEWALK.
 5. A HALF INCH EXPANSION JOINT OF A NON-EXTRUDABLE, FIBROUS BITUMASTIC MATERIAL SHALL BE PLACED ON 16 FOOT CENTERS MAXIMUM.
 6. CONTRACTORS TO NOTIFY MUNICIPAL ENGINEER 24 HOURS PRIOR TO POURING.
 7. A HALF INCH EXPANSION JOINT OF NON-EXTRUDABLE, FIBROUS BITUMASTIC MATERIAL SHALL BE ADDED CONTINUOUSLY BETWEEN THE CURB AND SIDEWALK WHERE A GRASS AREA IS NOT APPROVED.



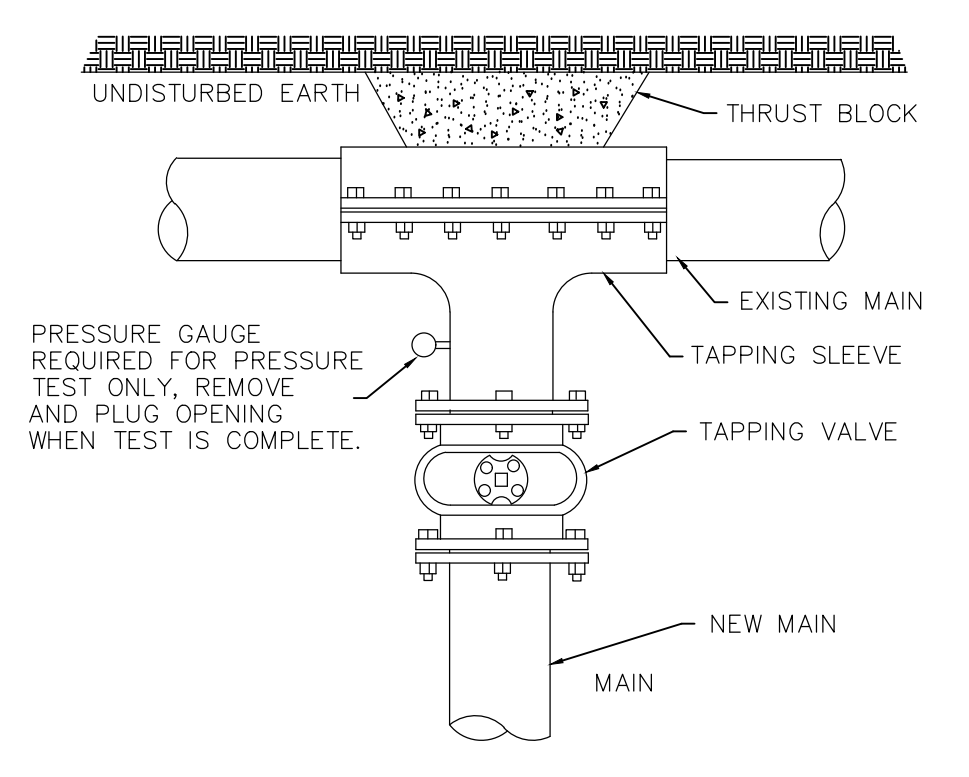
ON-SITE HANDICAP RAMP DETAIL
Scale: N.T.S.



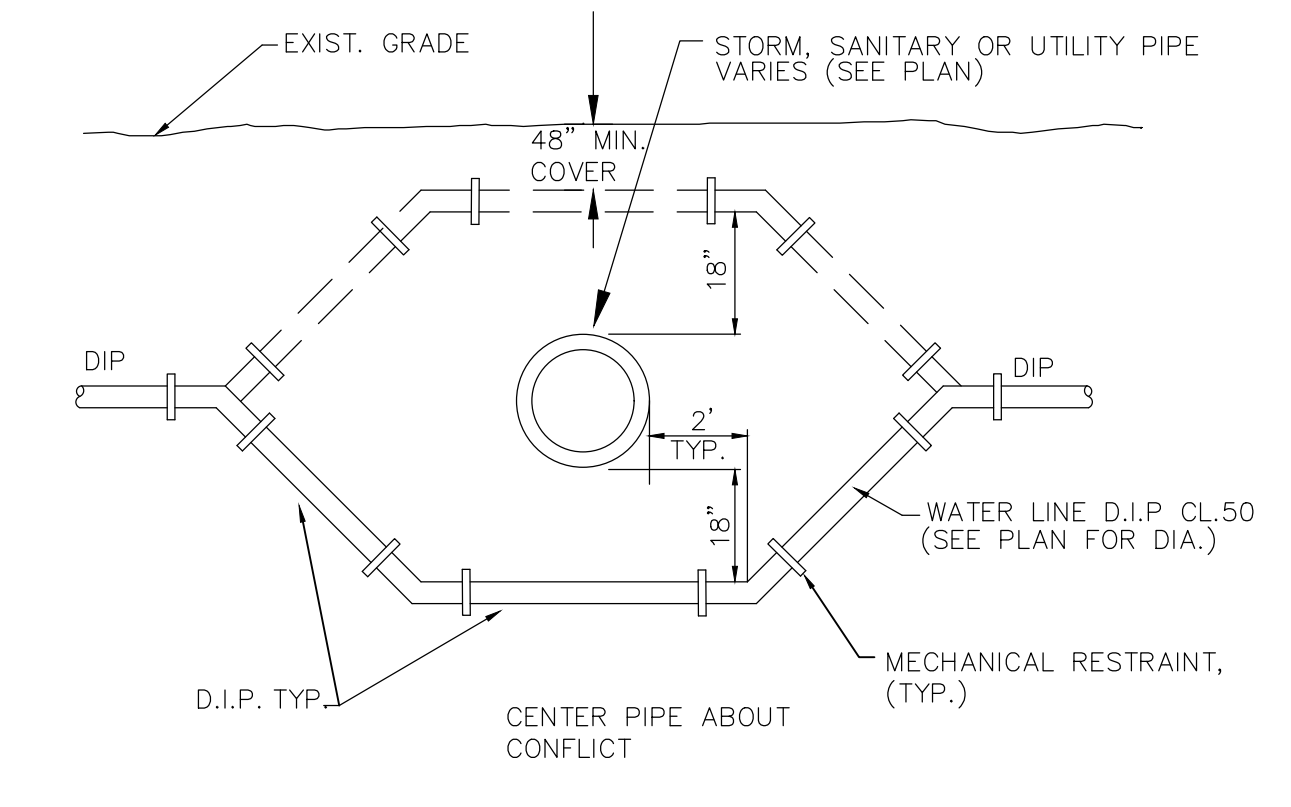
PLAN



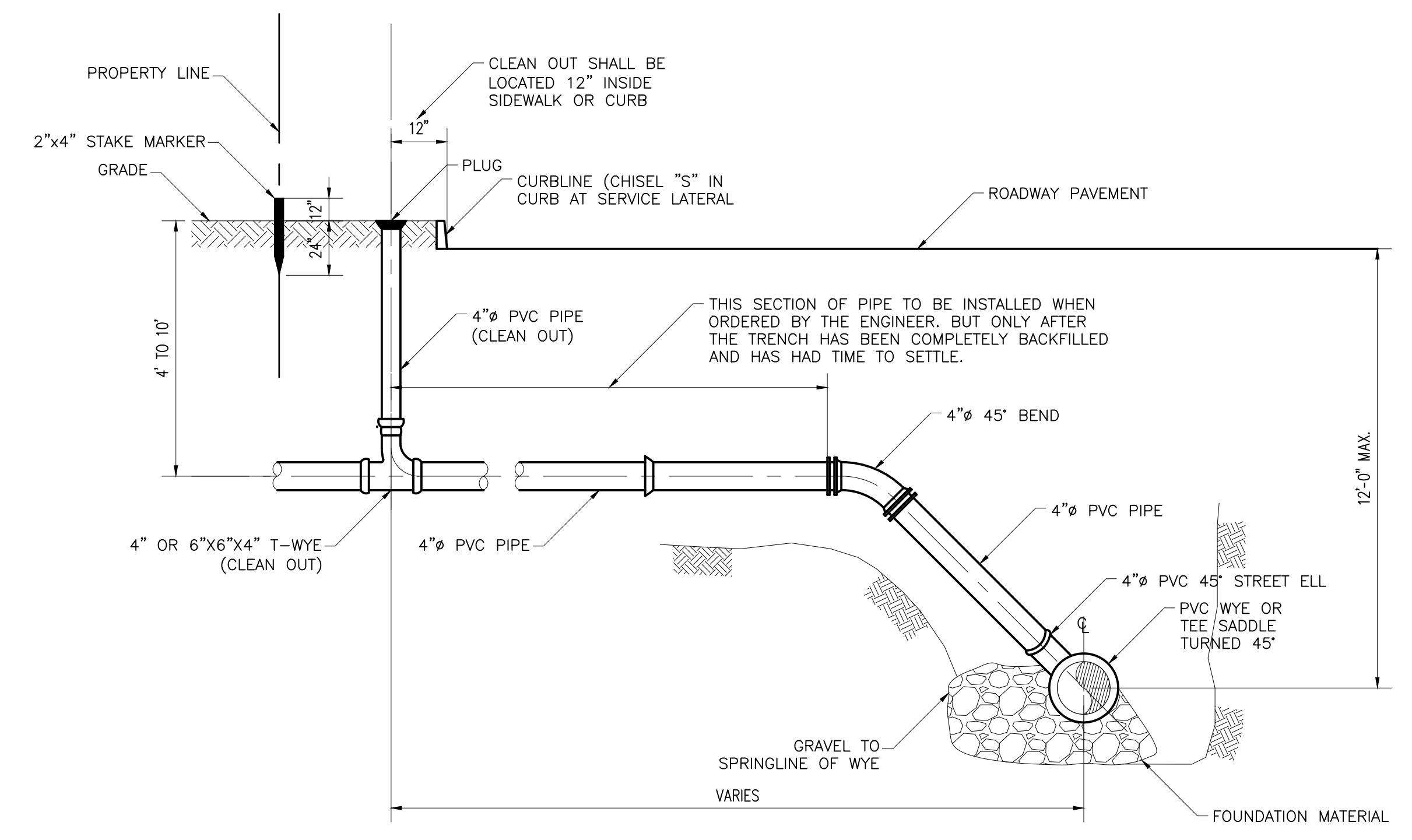
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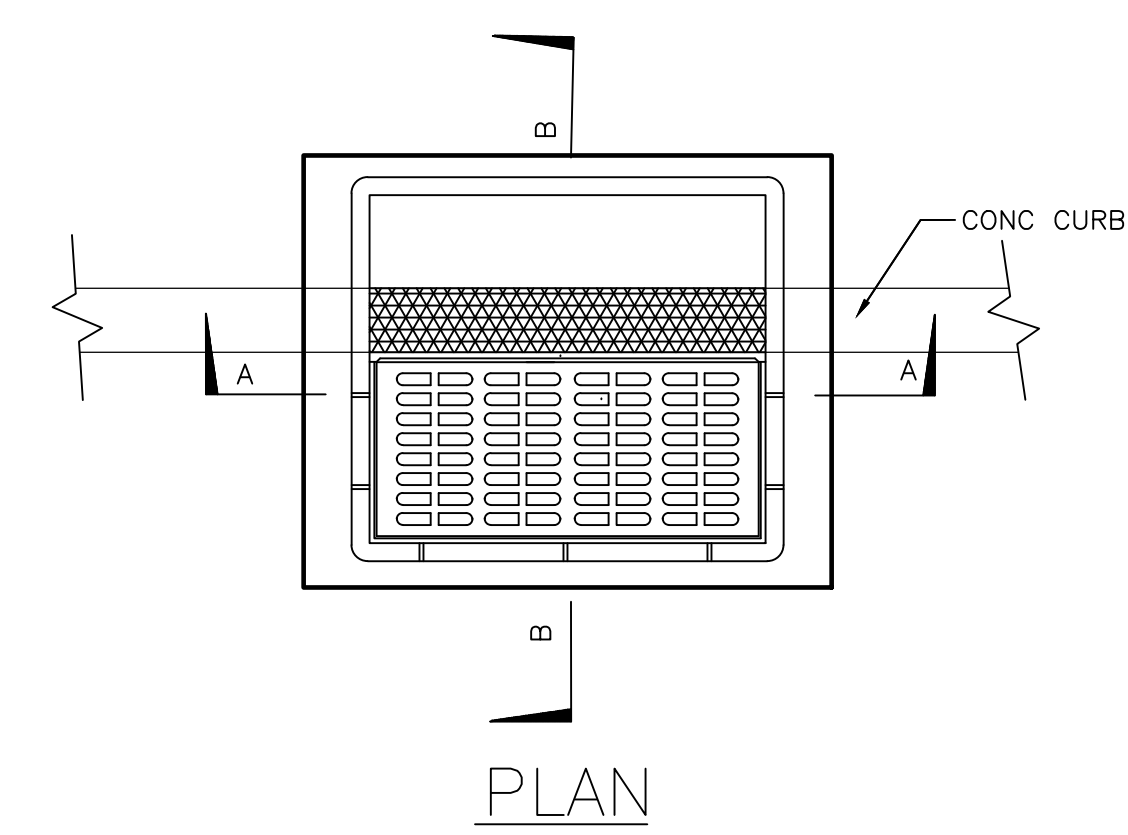
WET TAP
Scale: N.T.S.



UTILITY CONFLICT
Scale: N.T.S.

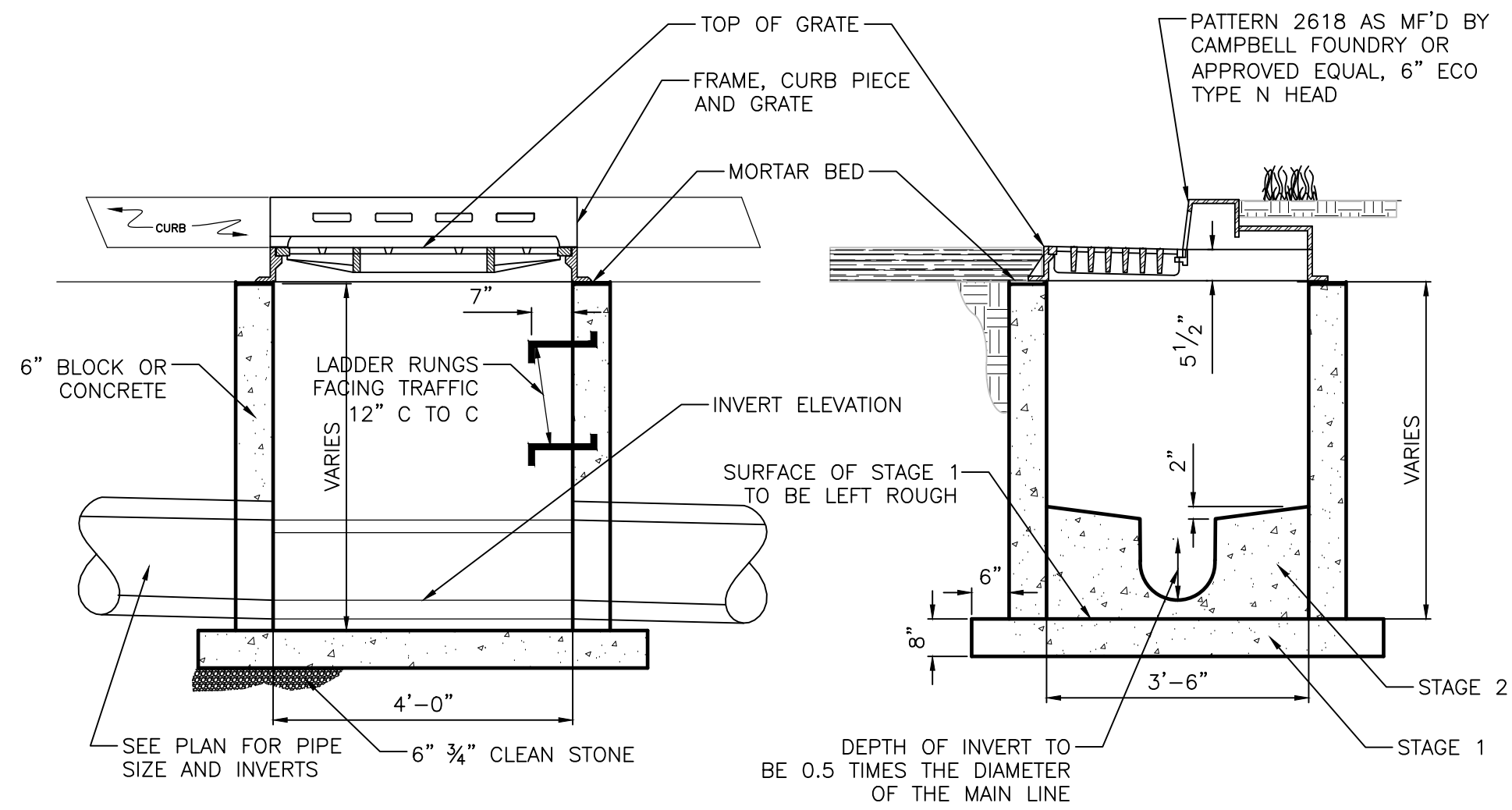


PROFILE
SEWER SERVICE DETAIL
Scale: N.T.S.

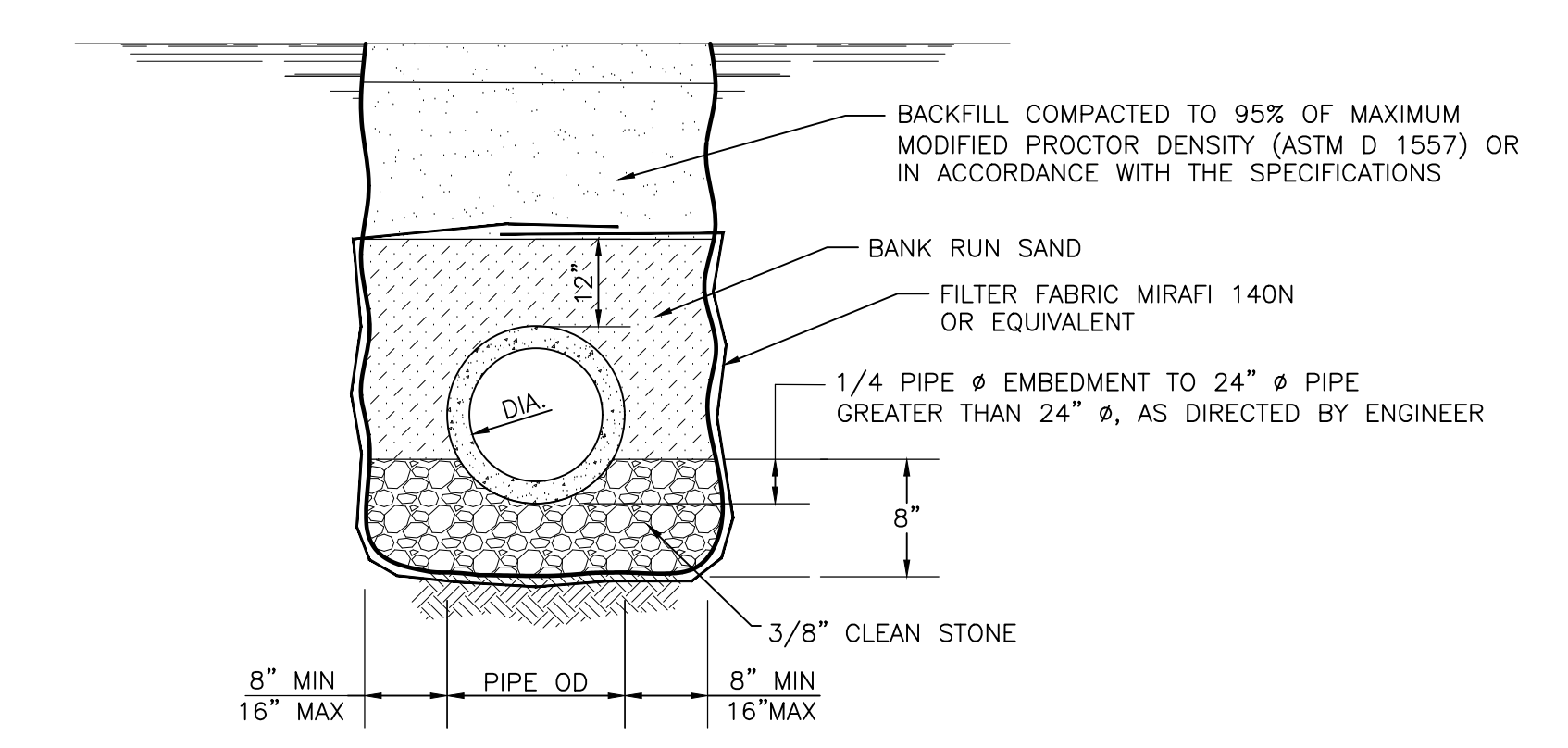


PLAN

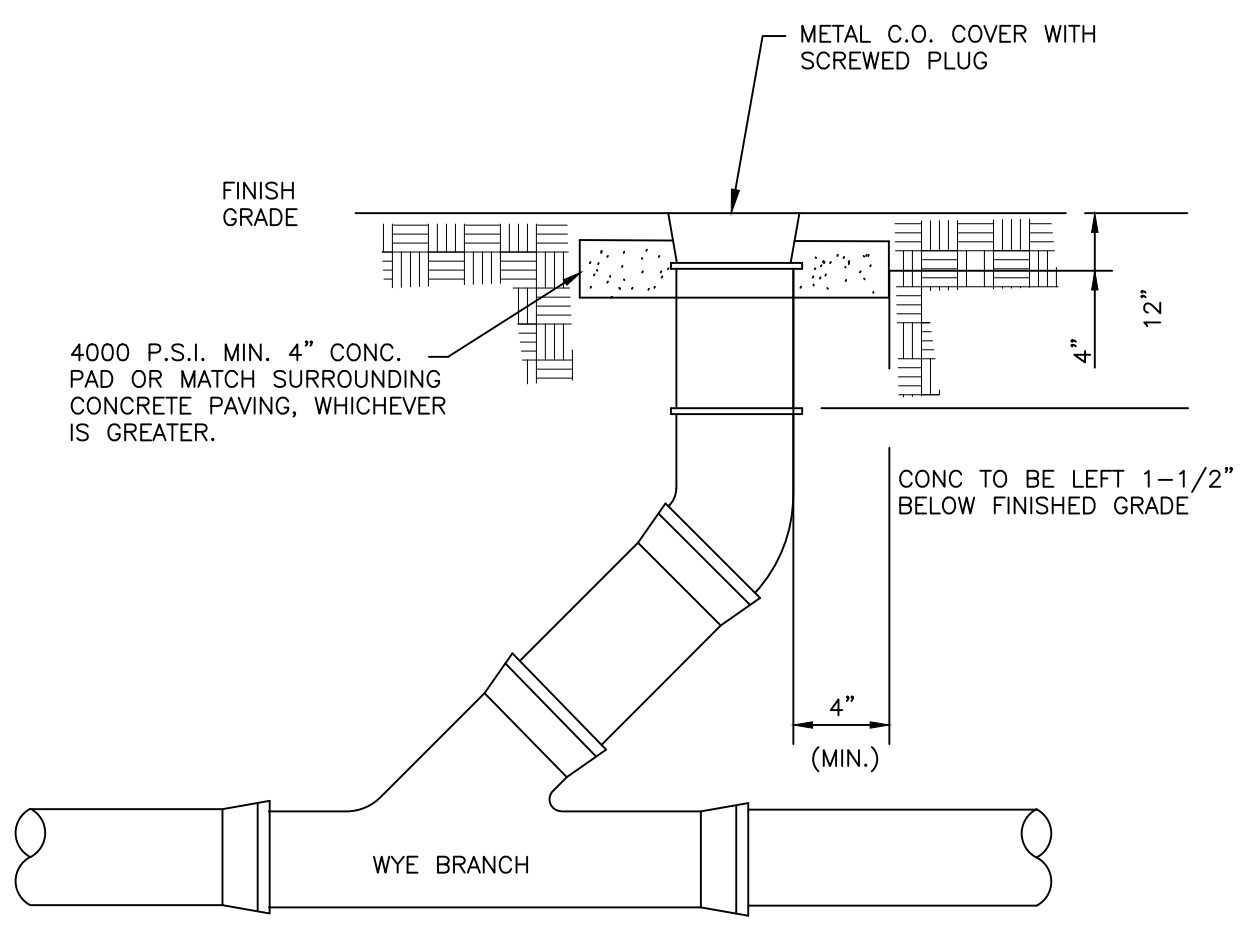
- NOTES:**
1. INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT THE RATE OF GRADE OF 2 INCHES PER FOOT.
 2. THIS INLET MAY BE CONSTRUCTED OF CONCRETE OR CONCRETE BLOCK. IF CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT OF 1:2 CEMENT MORTAR. THE INSIDE WALLS SHALL BE STRUCK & POINTED.
 3. PROVIDE 3/8" DIA. X 7" X 12" ALUMINUM LADDER RUNGS.
 4. INLET FRAME AND GRATES TO BE CAMPBELL FOUNDRY PATTERN NO. 2618 OR APPROVED EQUAL.
 5. WHEN DEPTH IS GREATER THAN 12' THE WALLS SHOULD BE EITHER 8" CONCRETE OR 8" BLOCK AND THE FOOTING SHALL BE EXTENDED TO 12" BEYOND THE OUTSIDE WALLS.
 6. PRECAST INLET SECTIONS SHALL CONFORM TO ASTM C 478. INSIDE WALLS JOINTS SHALL BE STRUCK & POINTED.
 7. TRIM PIPE FLUSH WITH INSIDE WALL. PROVIDE SEAL AROUND PIPE TO PREVENT LEAKAGE.



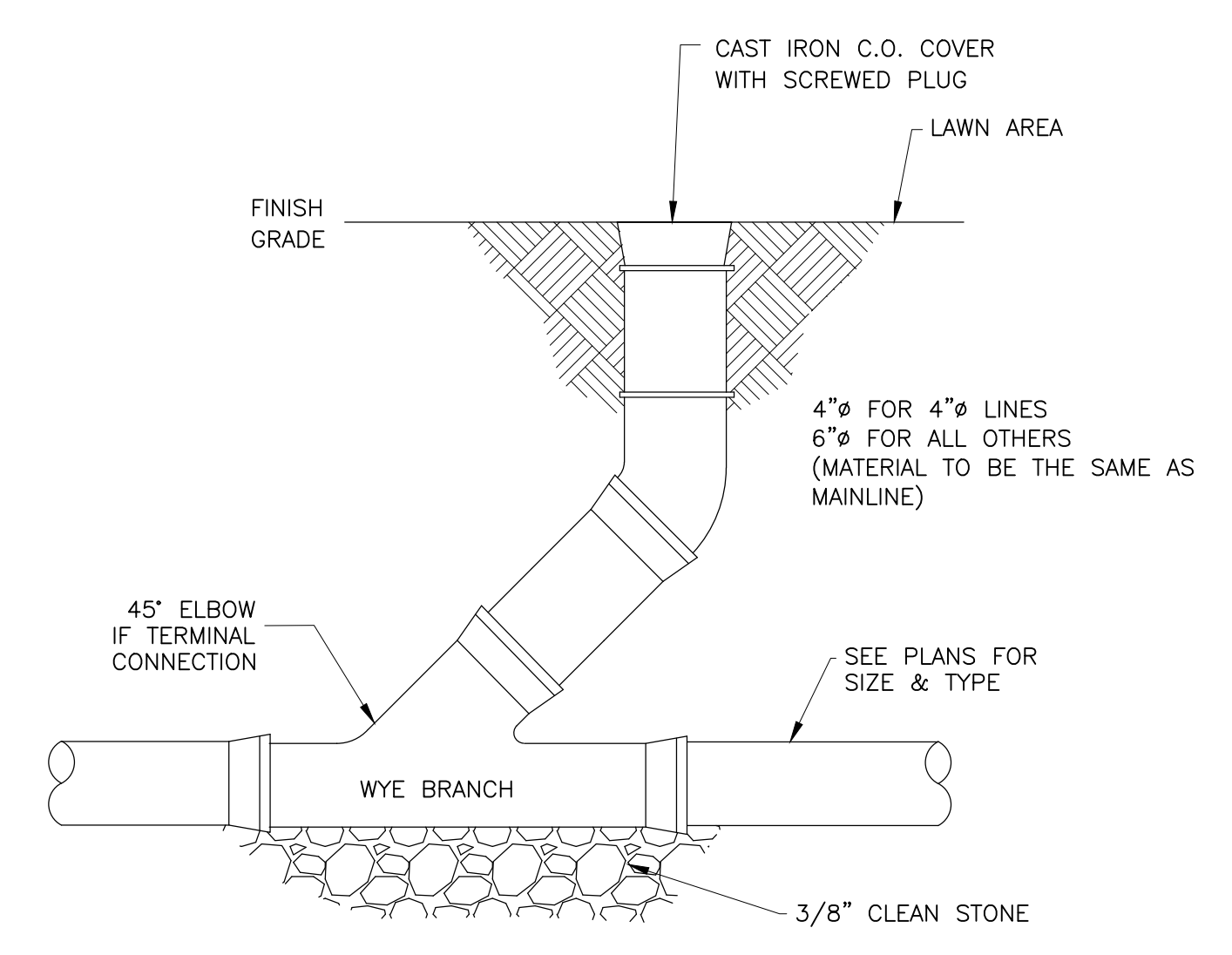
SECTION A-A
SECTION B-B
TYPE "B" INLET
N.T.S.



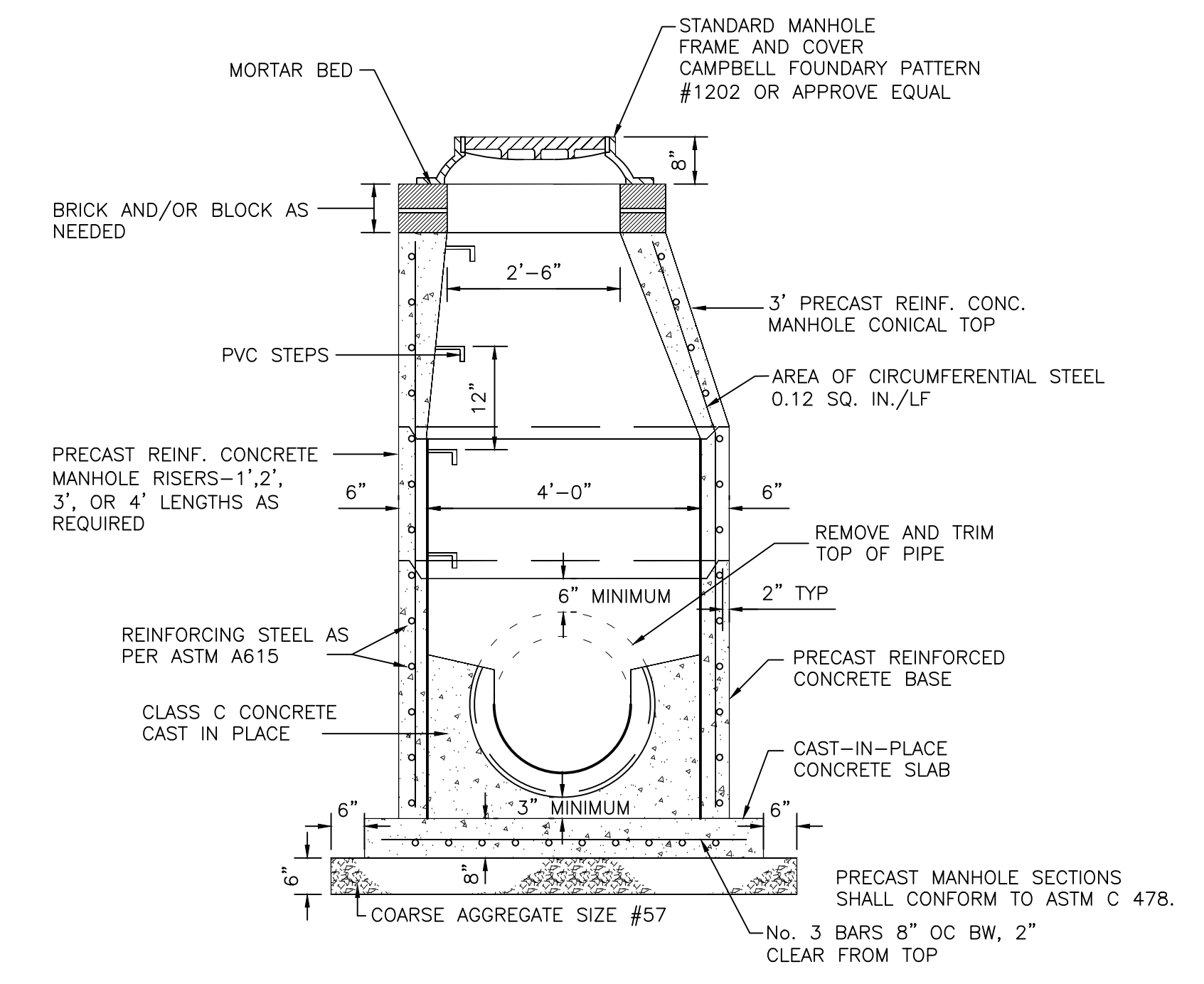
TRENCH BEDDING DETAIL
Scale: N.T.S.



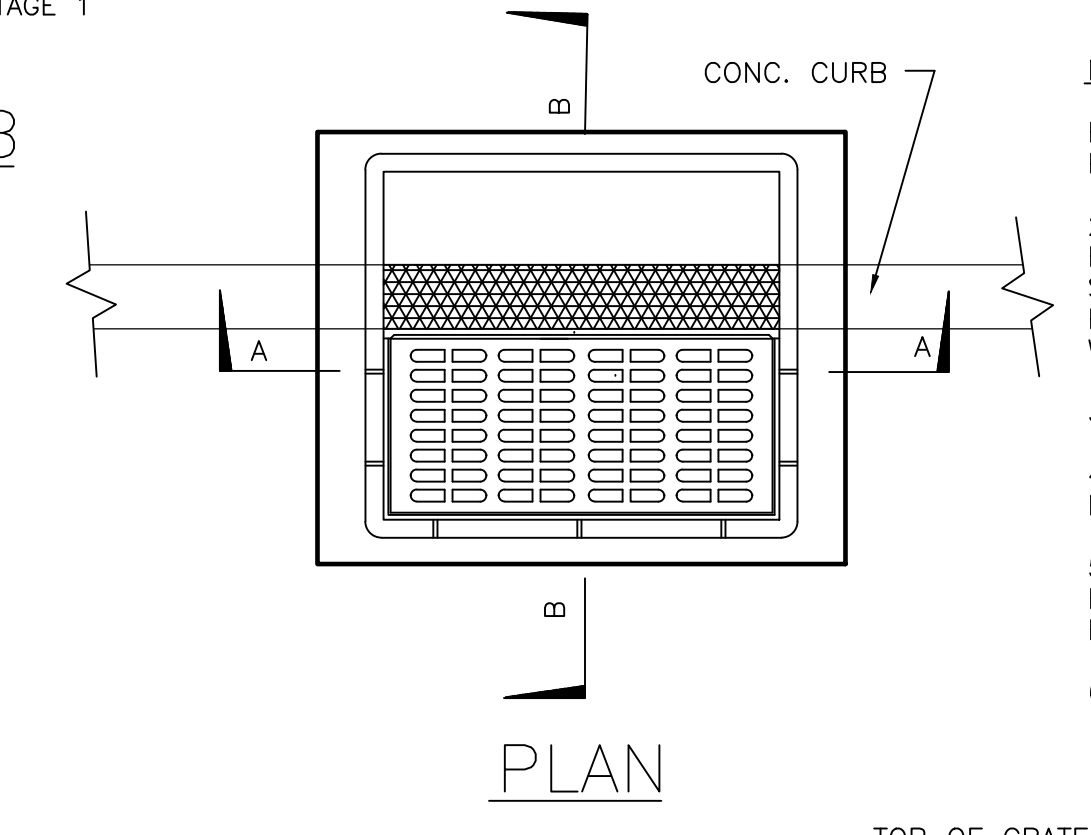
SANITARY SEWER CLEANOUT DETAIL
Scale: N.T.S.



STORM CLEANOUT DETAIL
SCALE: N.T.S.

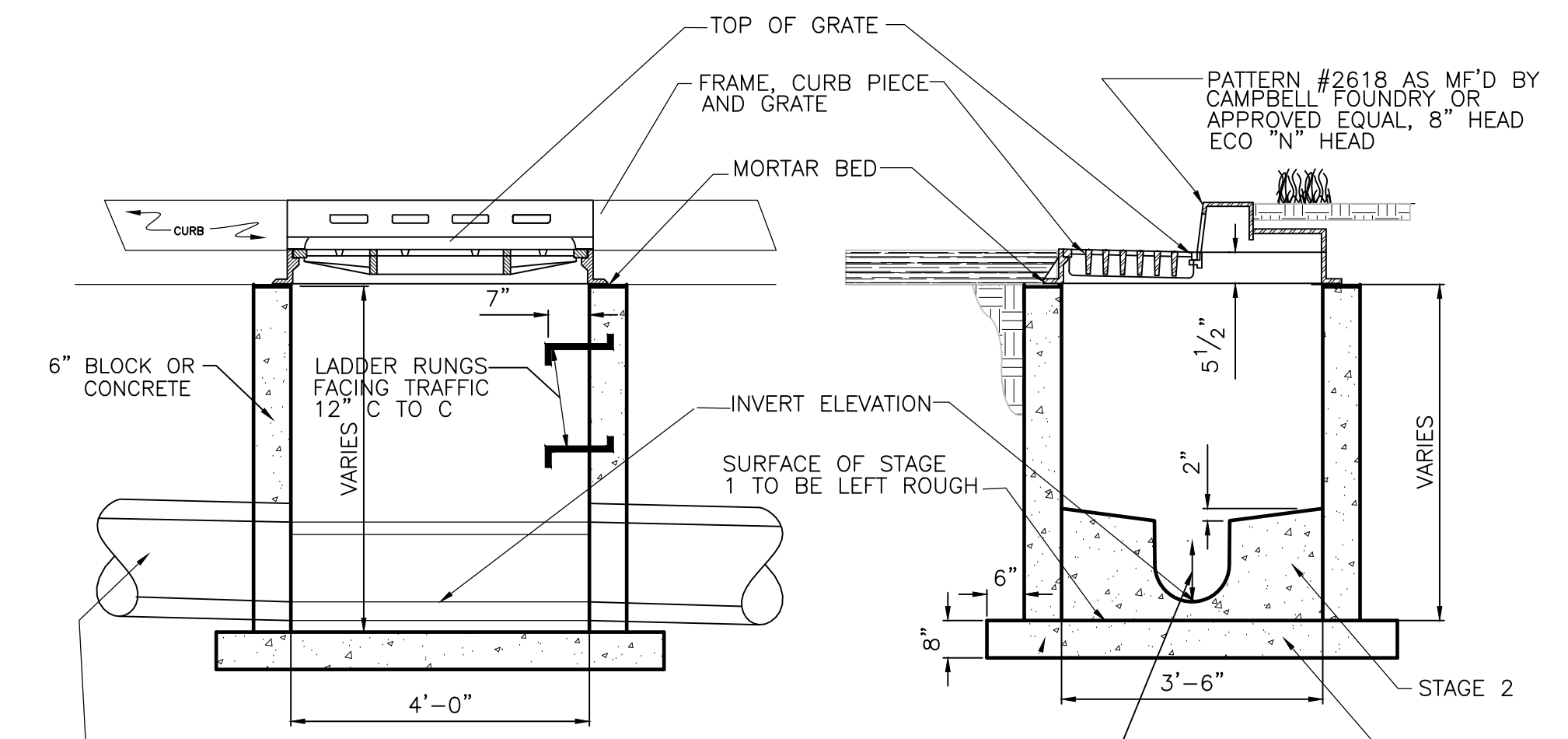


DOGHOUSE STORM MANHOLE
Scale: N.T.S.



PLAN

- NOTES:**
1. INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT THE RATE OF GRADE OF 2 INCHES PER FOOT.
 2. THIS INLET MAY BE CONSTRUCTED OF CONCRETE OR CONCRETE BLOCK. IF CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT OF 1:2 CEMENT MORTAR. THE INSIDE WALLS SHALL BE STRUCK & POINTED.
 3. PROVIDE 7/8" DIA. X 7" X 12" ALUMINUM LADDER RUNGS.
 4. INLET FRAME AND GRATES TO BE CAMPBELL FOUNDRY PATTERN NO. 2618 OR APPROVED EQUAL.
 5. WHEN DEPTH IS GREATER THEN 12' THE WALLS SHOULD BE EITHER 8" CONCRETE OR 8" BLOCK AND THE FOOTING SHALL BE EXTENDED TO 12" BEYOND THE OUTSIDE WALLS.
 6. PRECAST INLET SECTIONS SHALL CONFORM TO ASTM C 478. INSIDE WALLS JOINTS SHALL BE STRUCK & POINTED.



SECTION A-A
SECTION B-B
TYPE "B" INLET
Scale: N.T.S.

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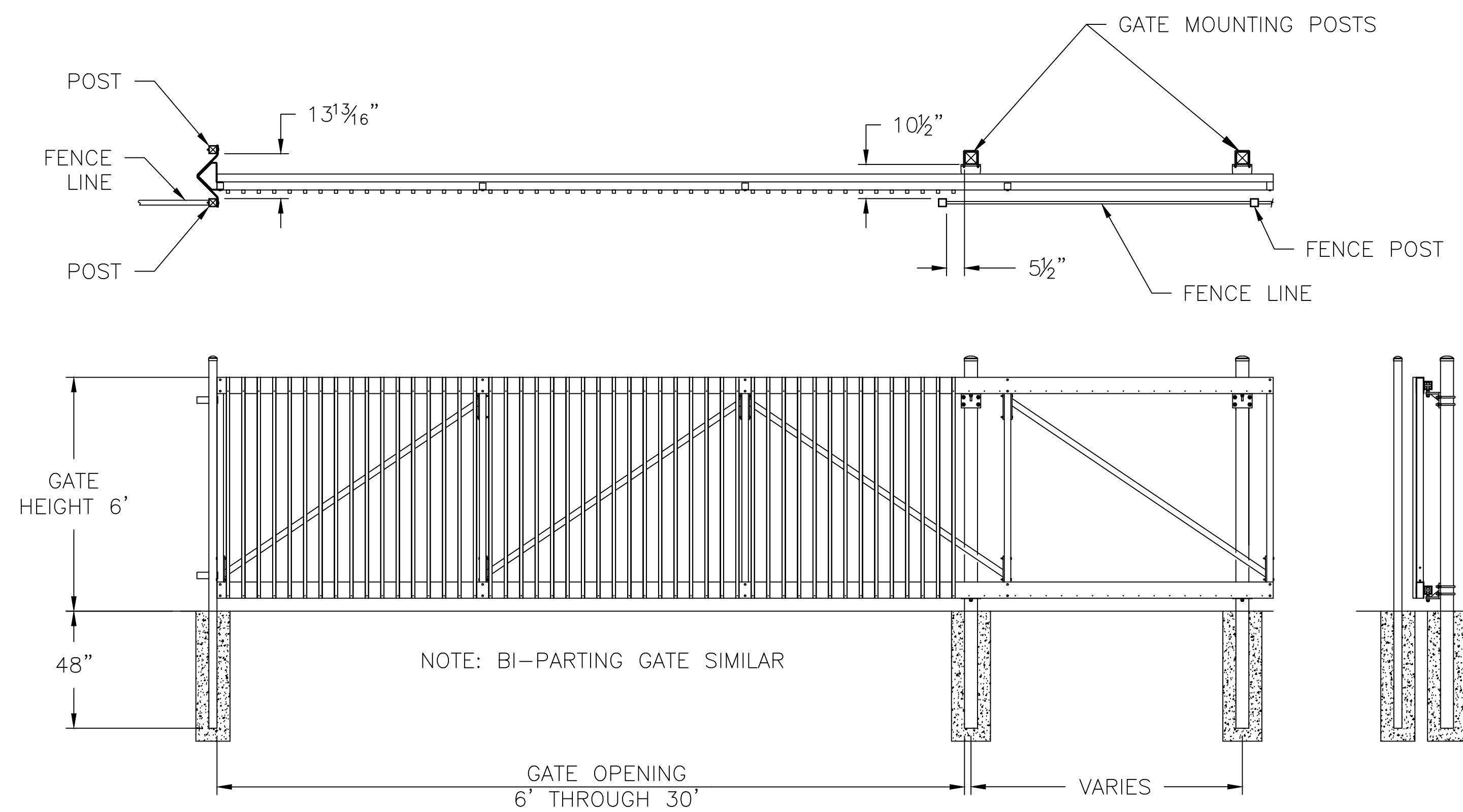
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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
BLOCK 44, LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07704

SITE DETAILS
SCALE AS NOTED
DATE: 9/1/2021
DWG: LTB
CHK: RJA

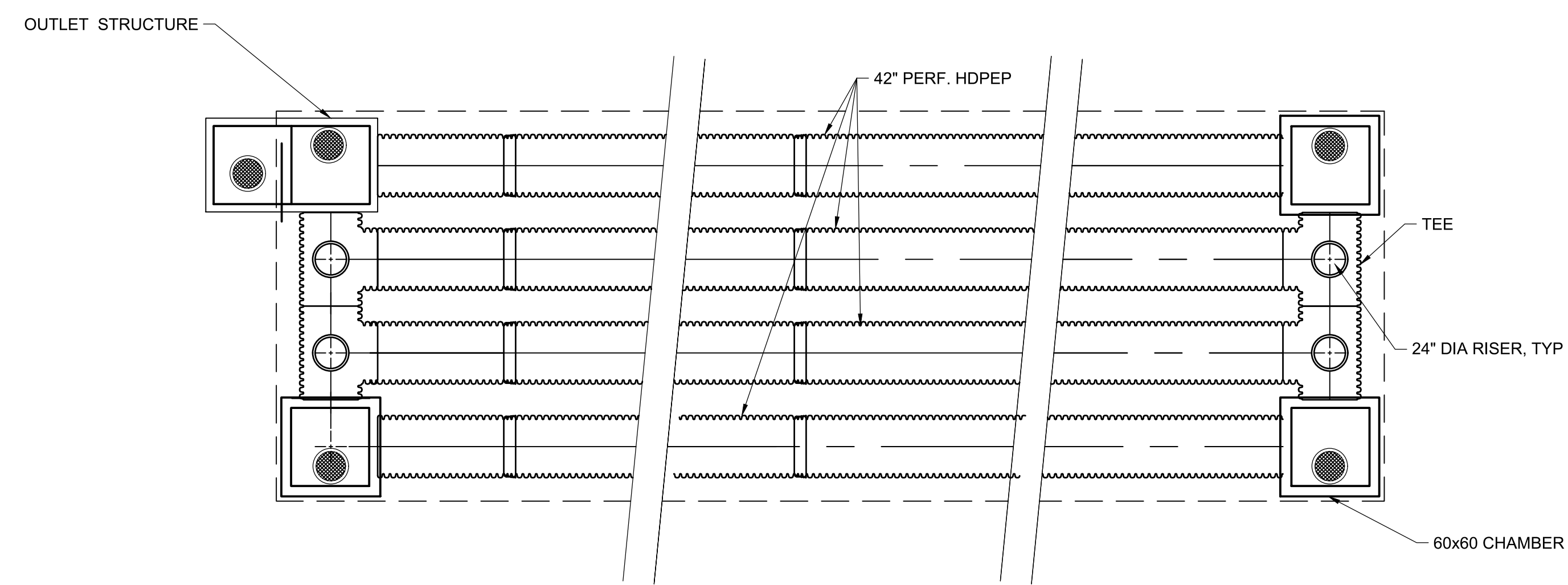
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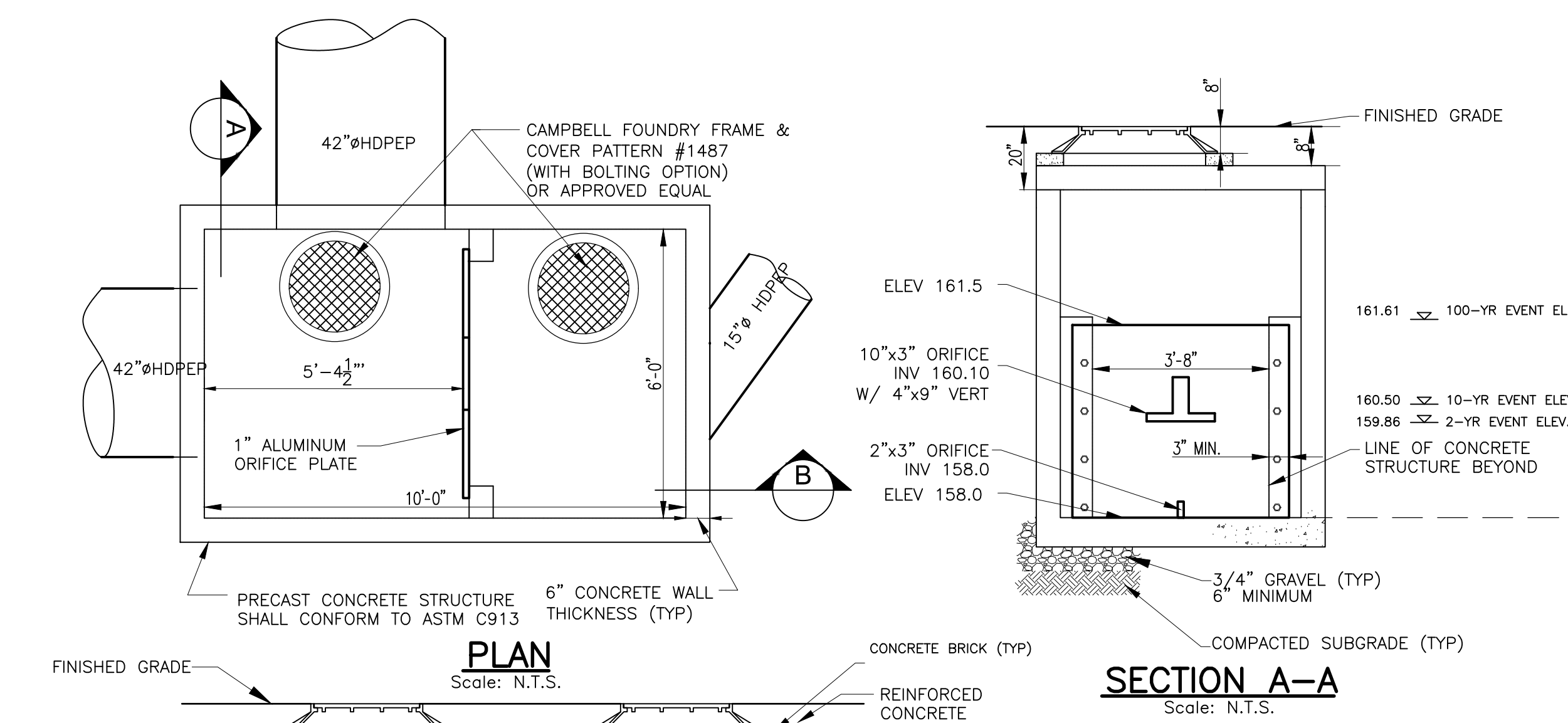
TUBULAR STEEL CANTILEVER SLIDING GATRE

Scale: N.T.S.



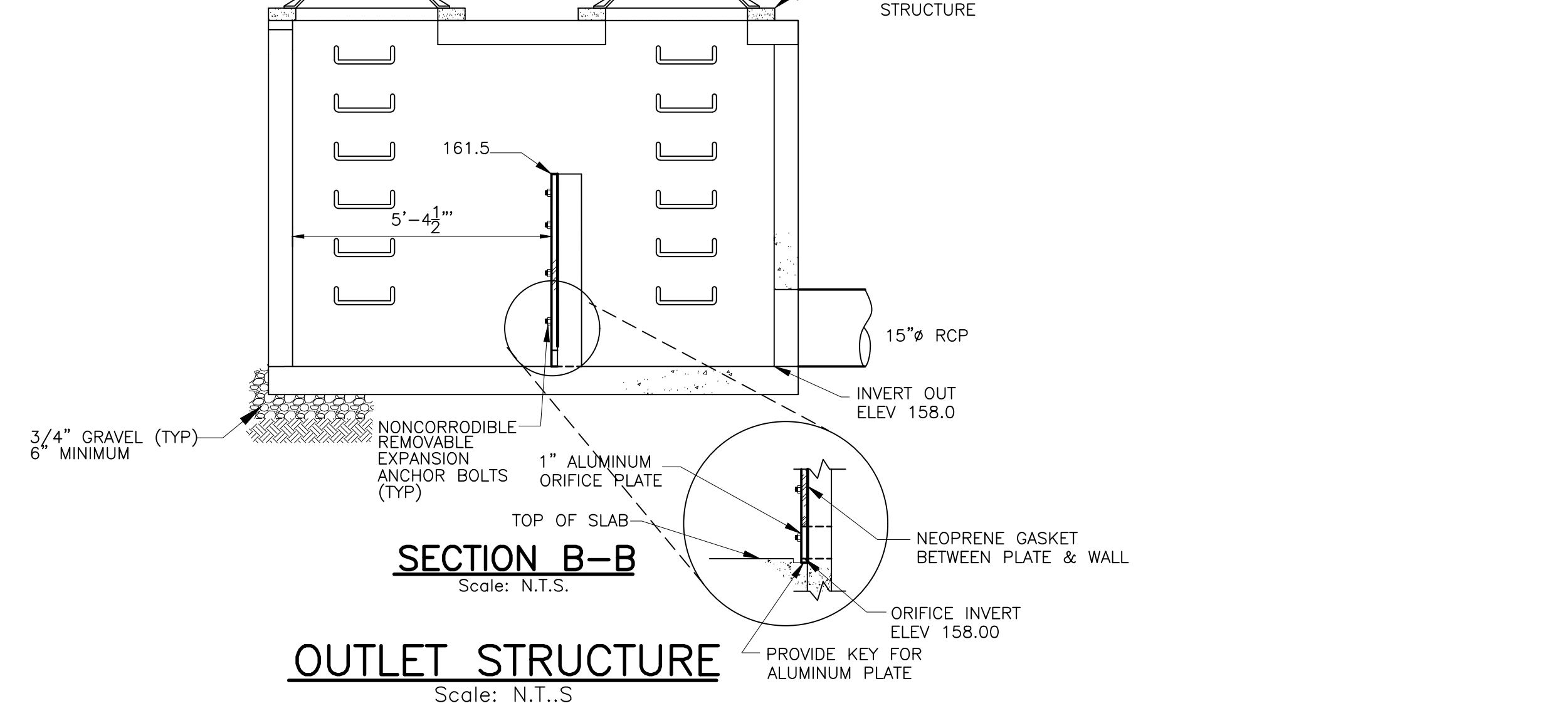
CHAMBER DETENTION SYSTEM DETAIL

Scale: N.T.S.



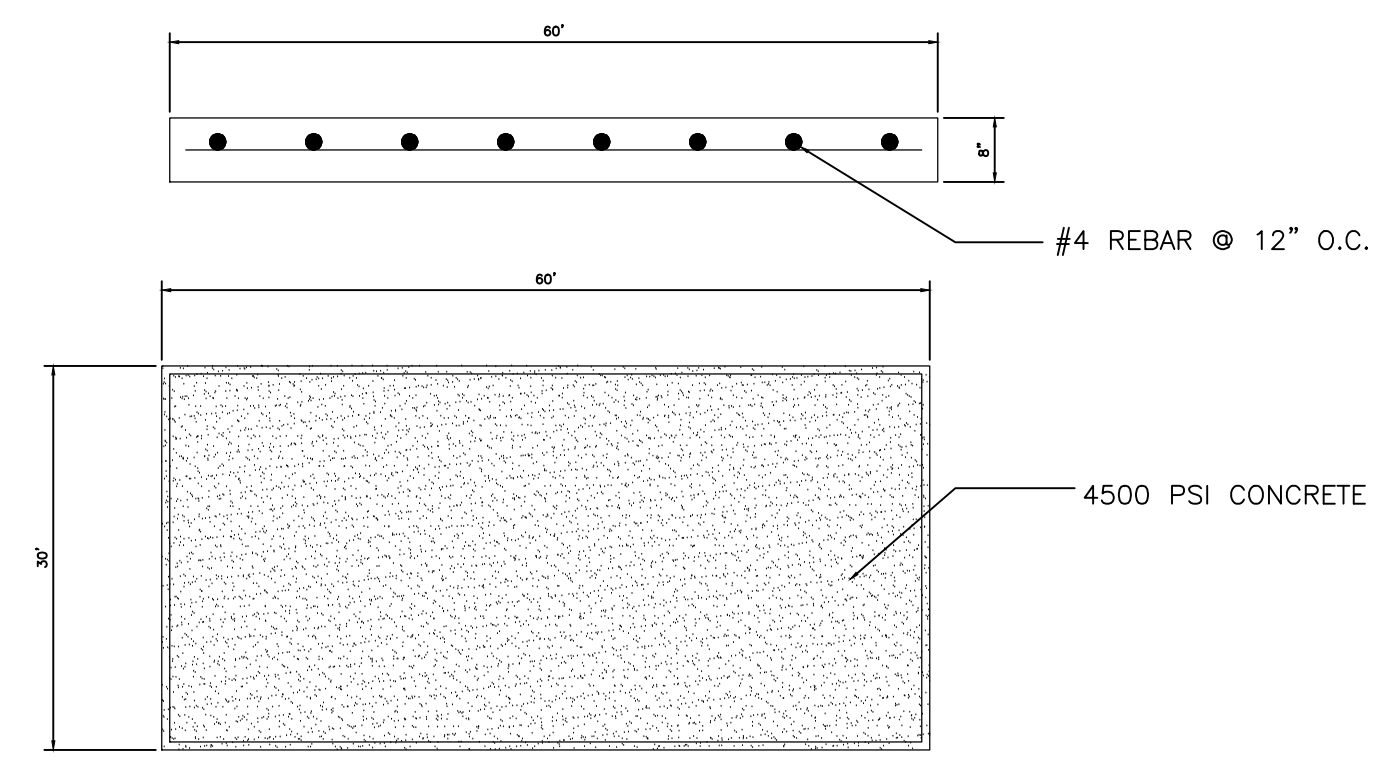
CHAMBER DETAIL

Scale : N.T.S.



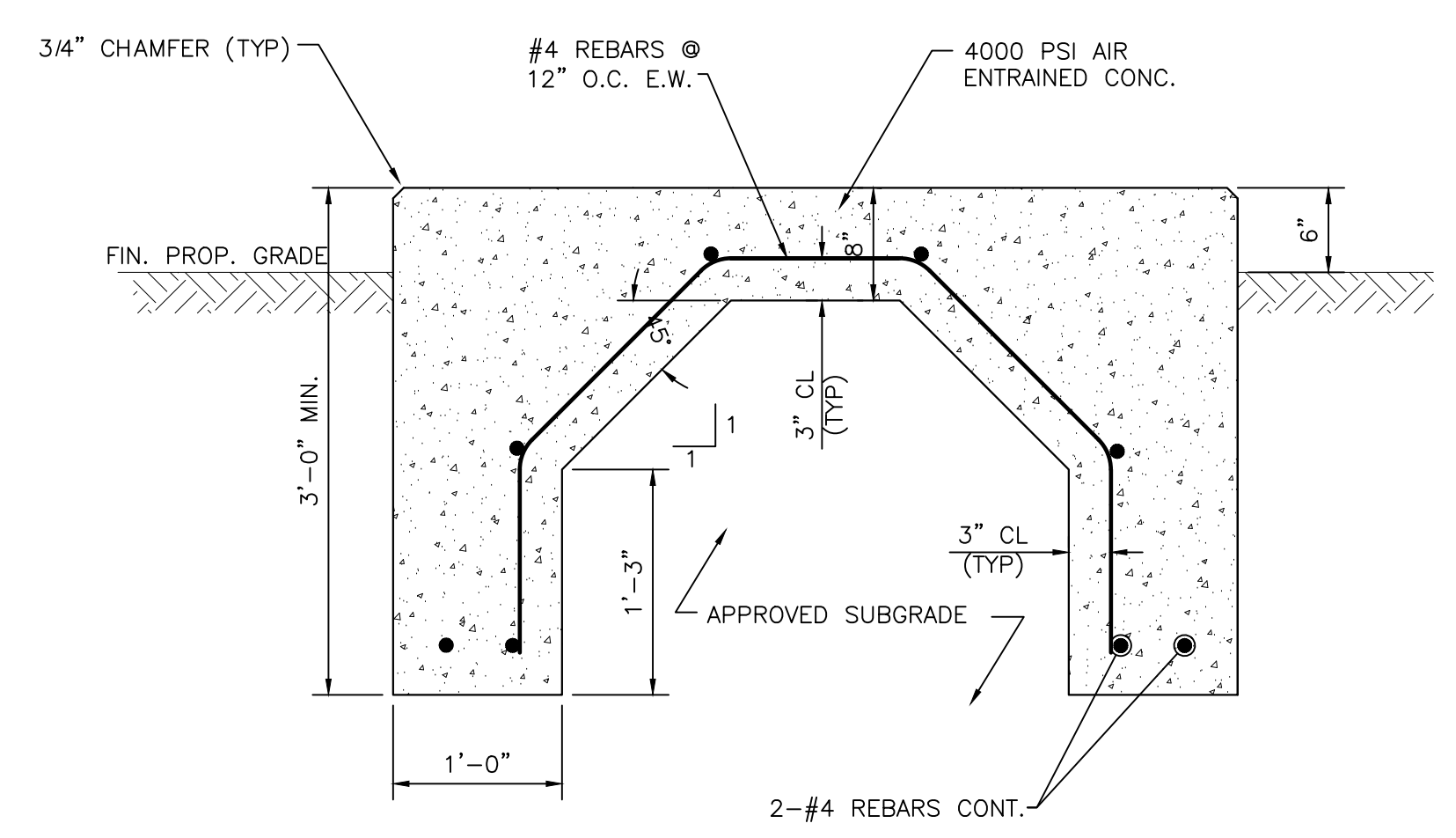
OUTLET STRUCTURE

Scale: N.T.S.



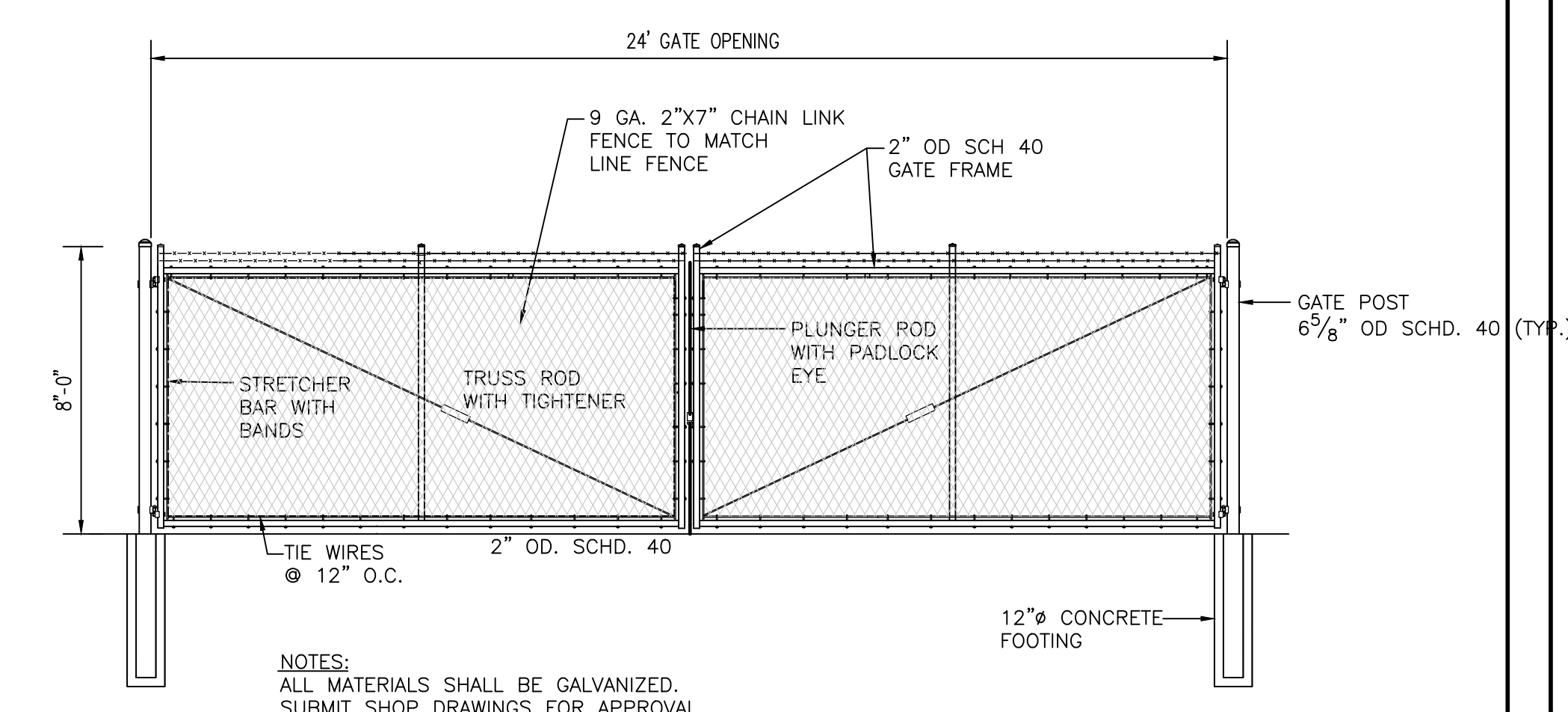
RECYCLING CENTER PAD

Scale: N.T.S.



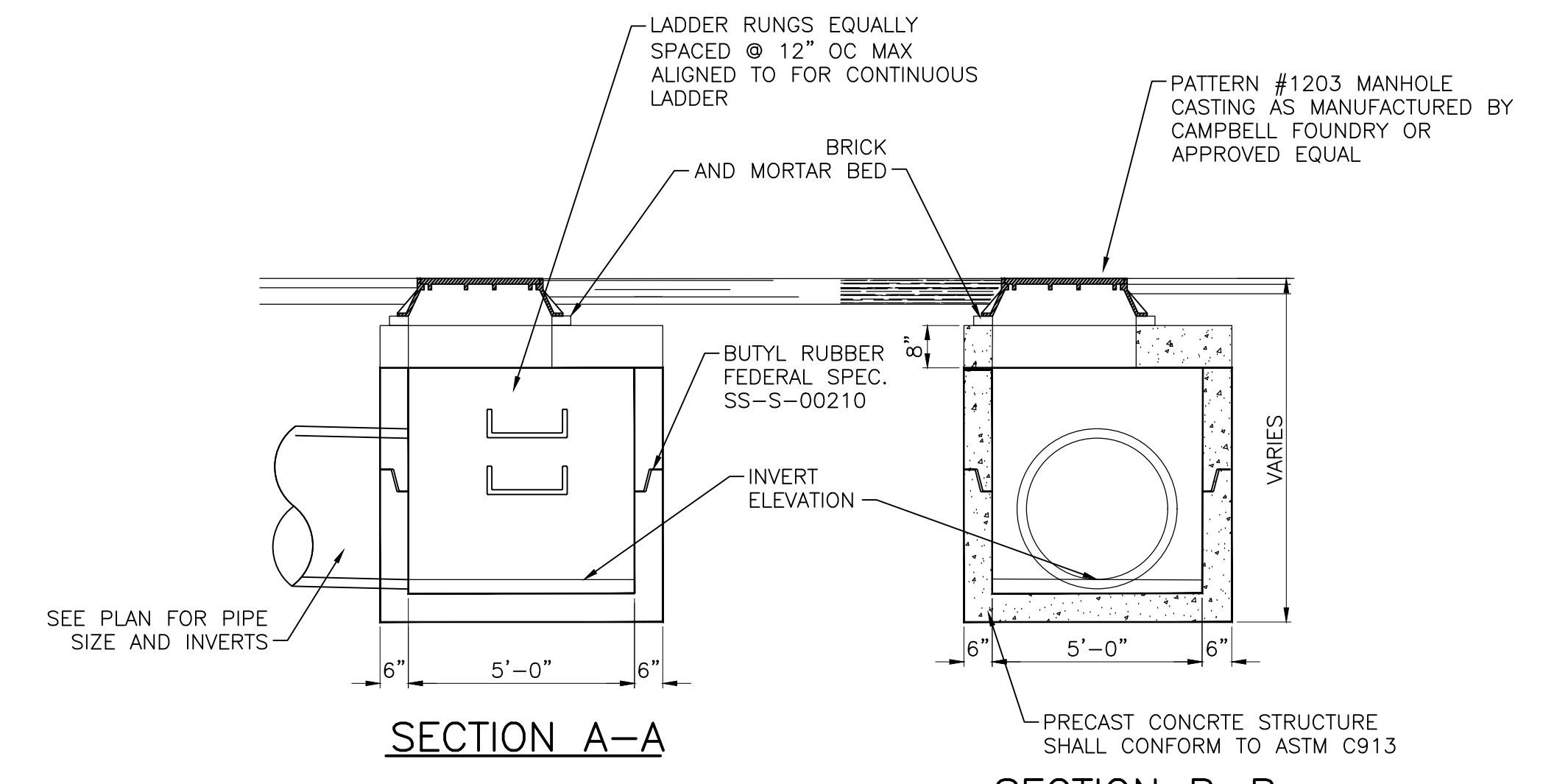
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Scale: N.T.S.



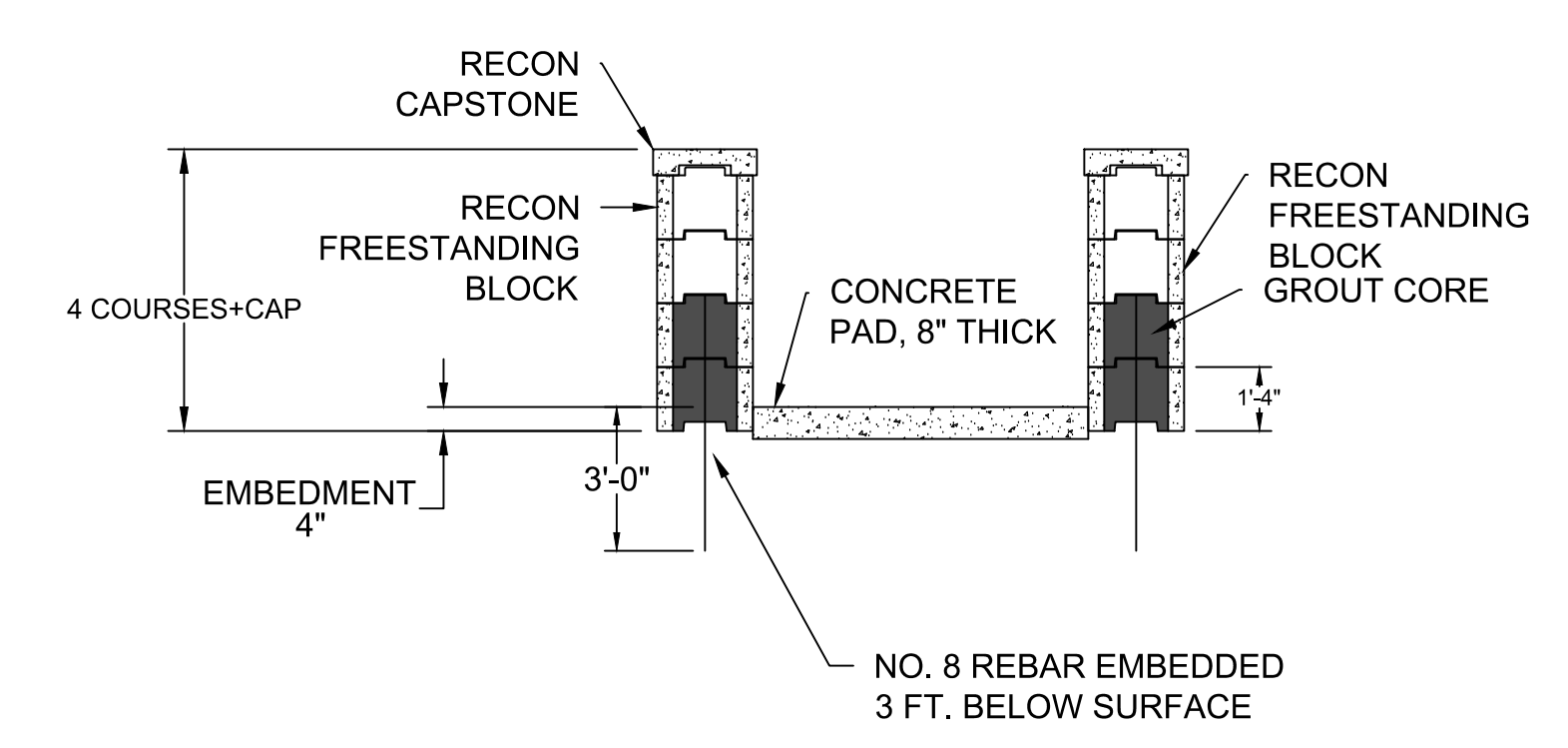
ELEVATION OF DOUBLE SWING GATE

Scale: 1/4\"/>



CHAMBER DETAIL

Scale : N.T.S.



STORAGE BIN

Scale: N.T.S.

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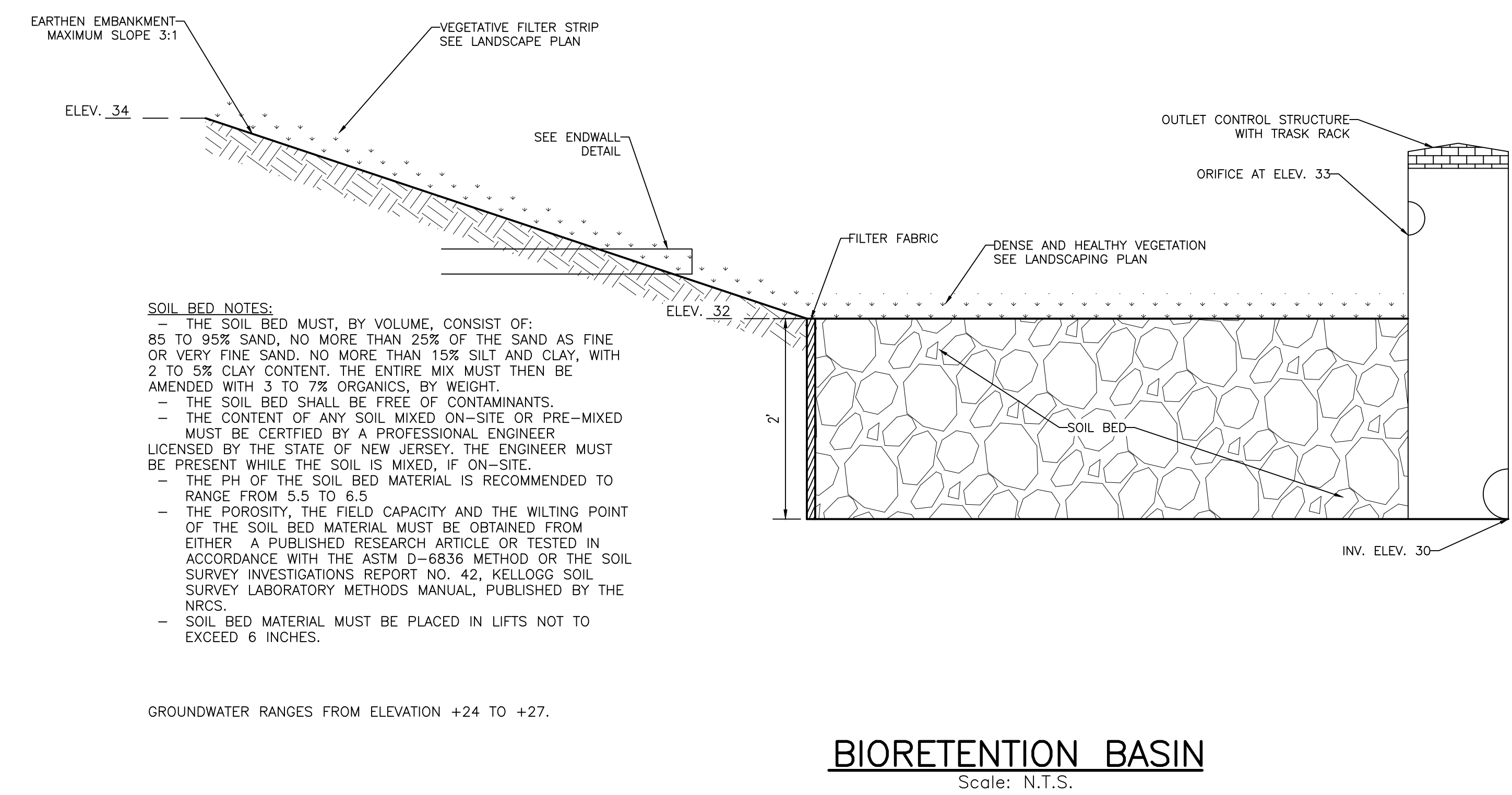
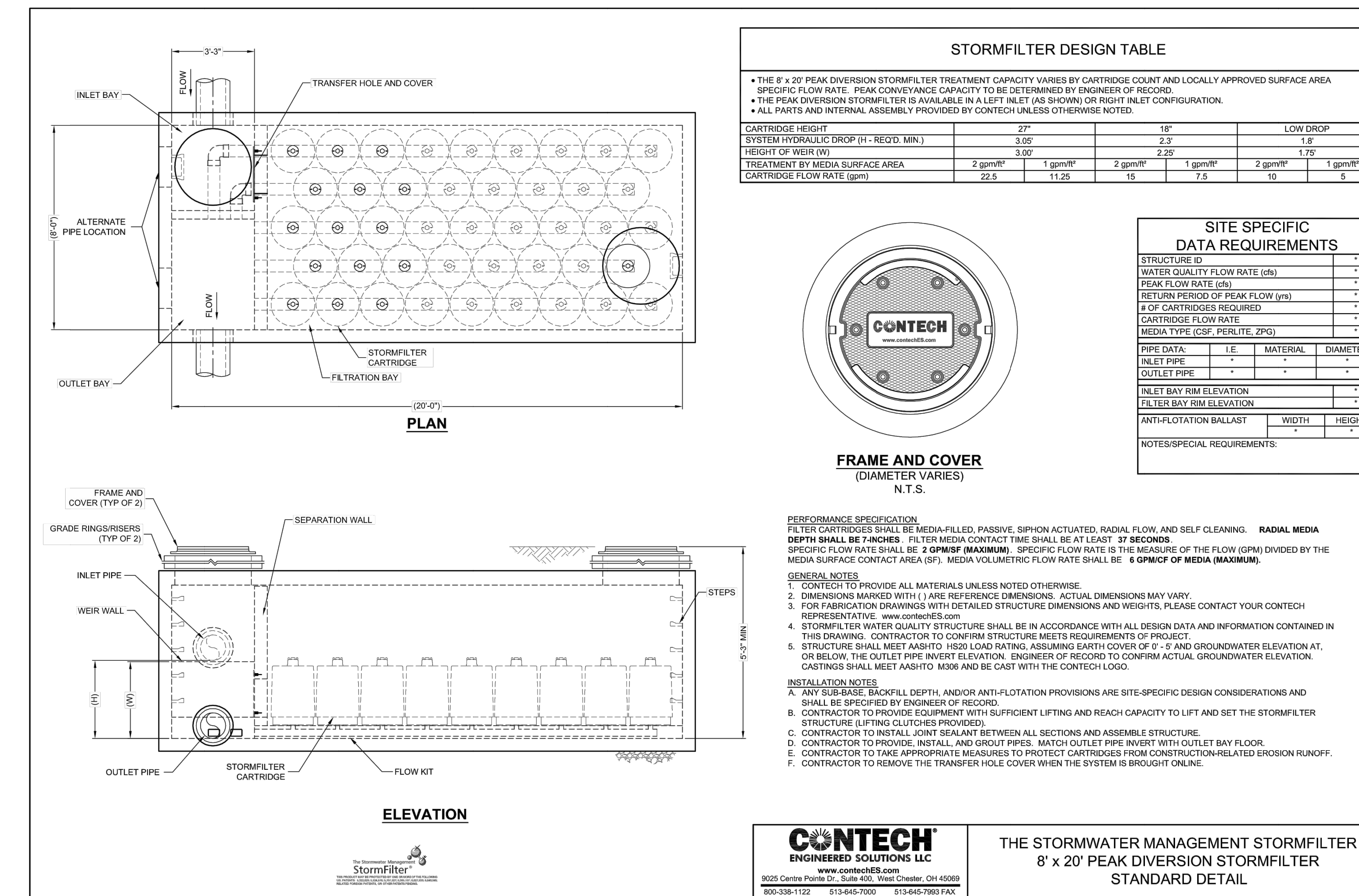
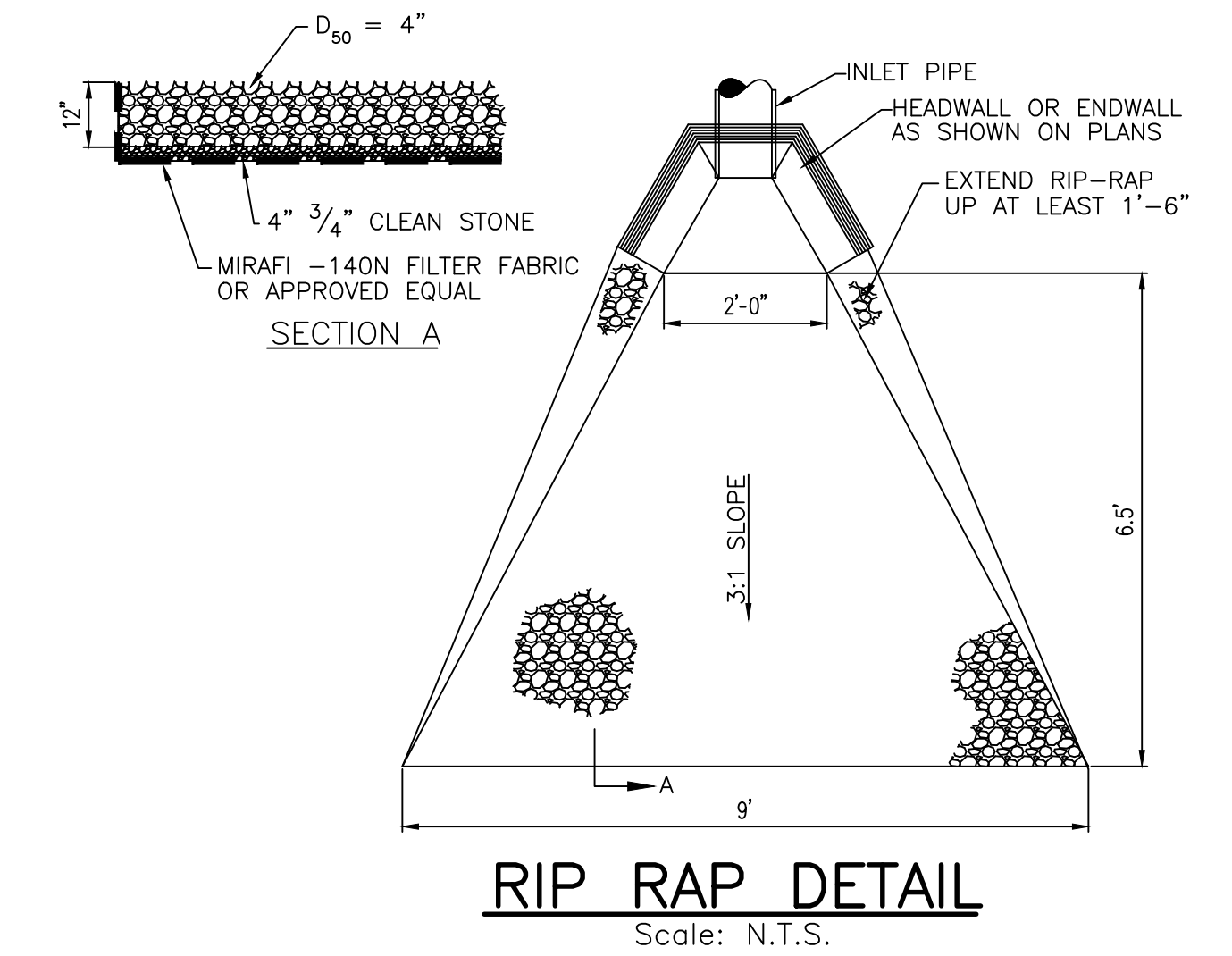
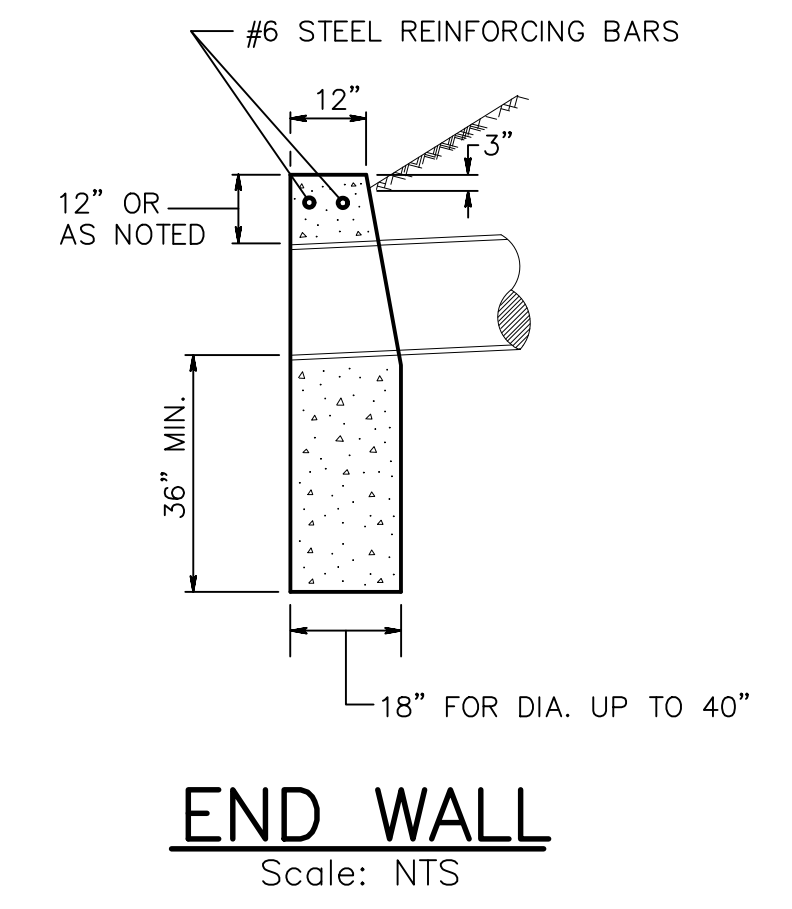
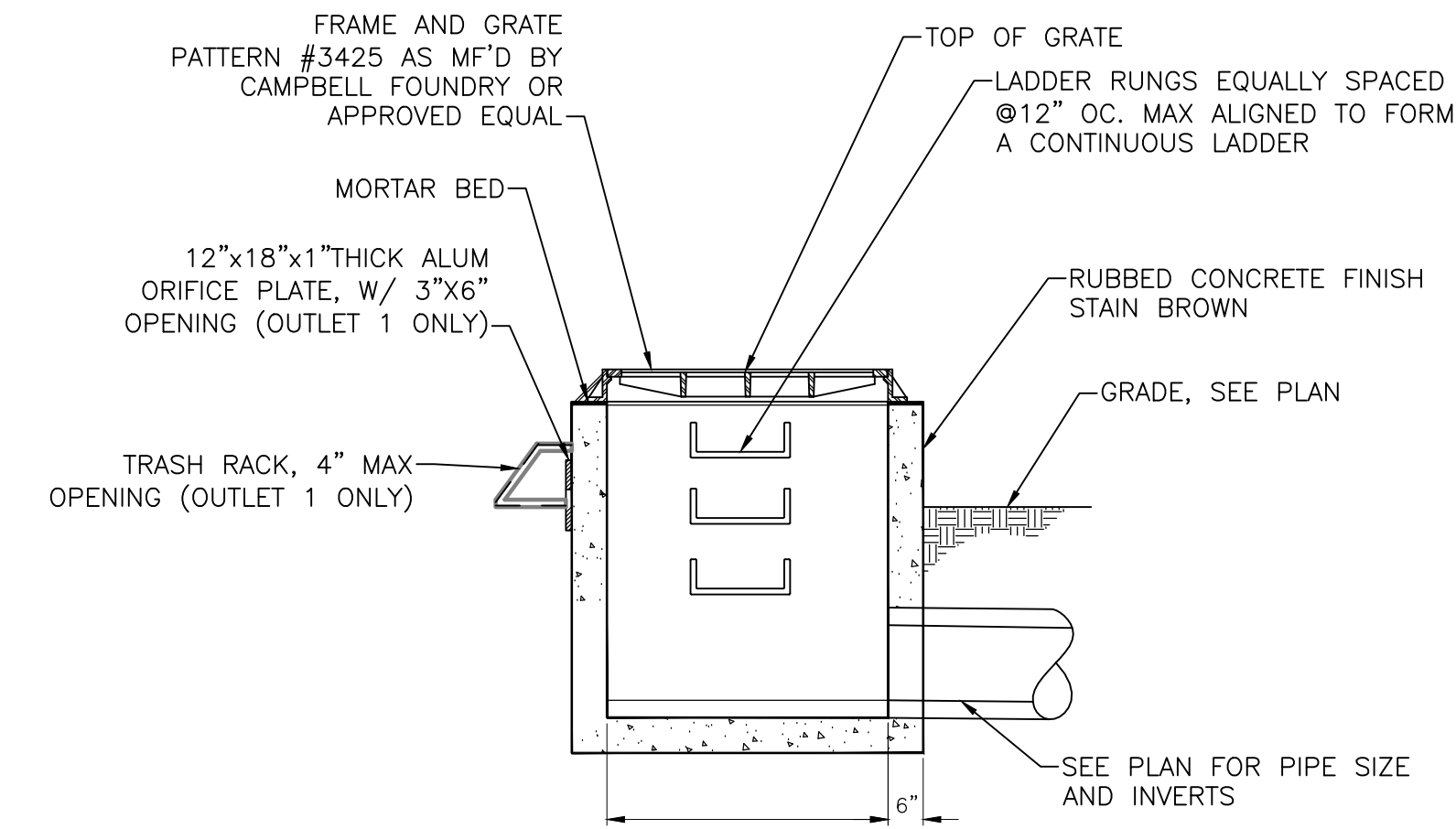
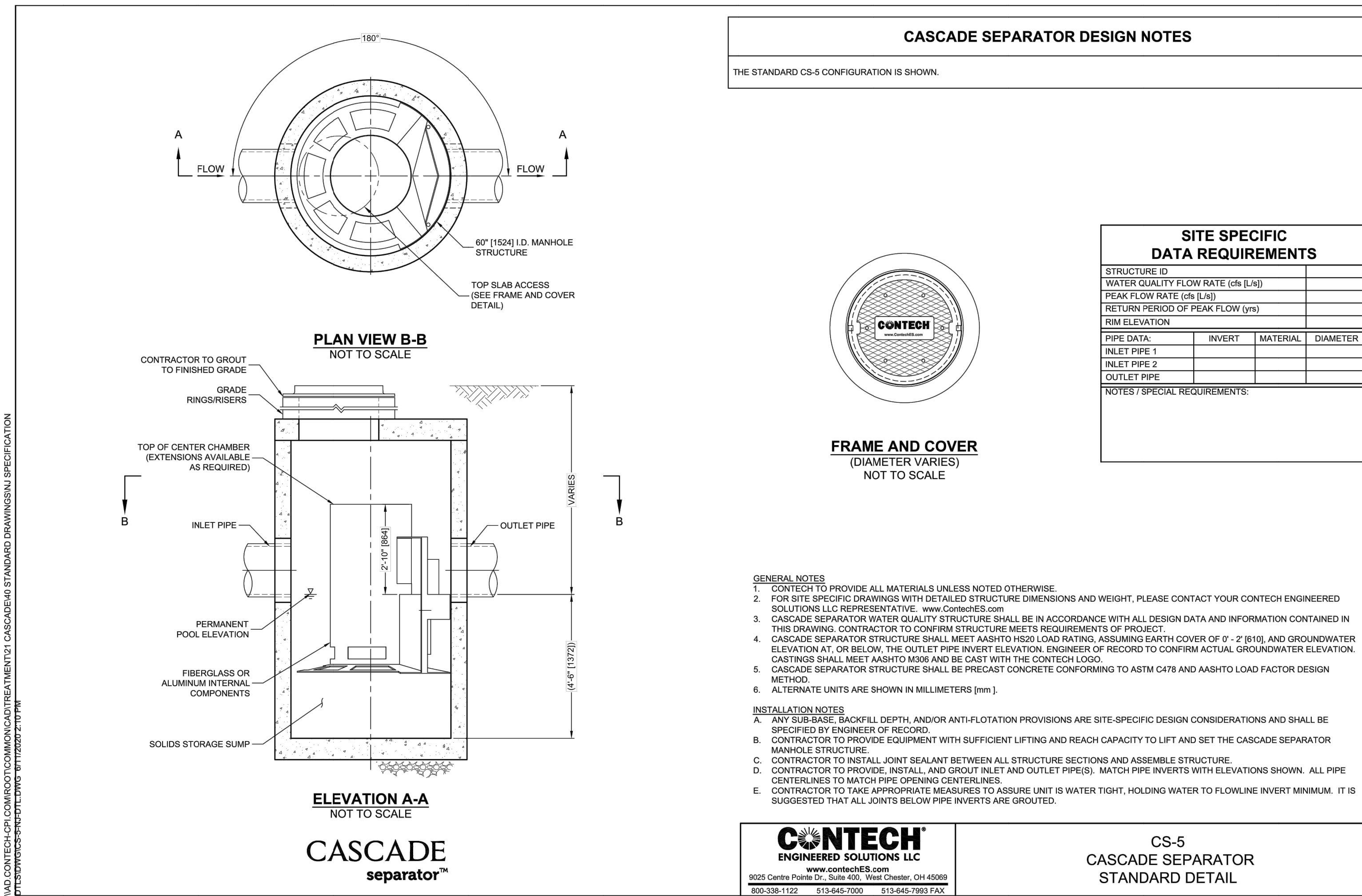
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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
 BLOCK 44 LOT 2
 1 ALLEN STREET
 FAIR HAVEN, NJ 07410

SITE DETAILS
 SCALE AS NOTED
 DATE: 9/1/2021
 DWG: LTB
 CHK: EJA

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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN

BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07704

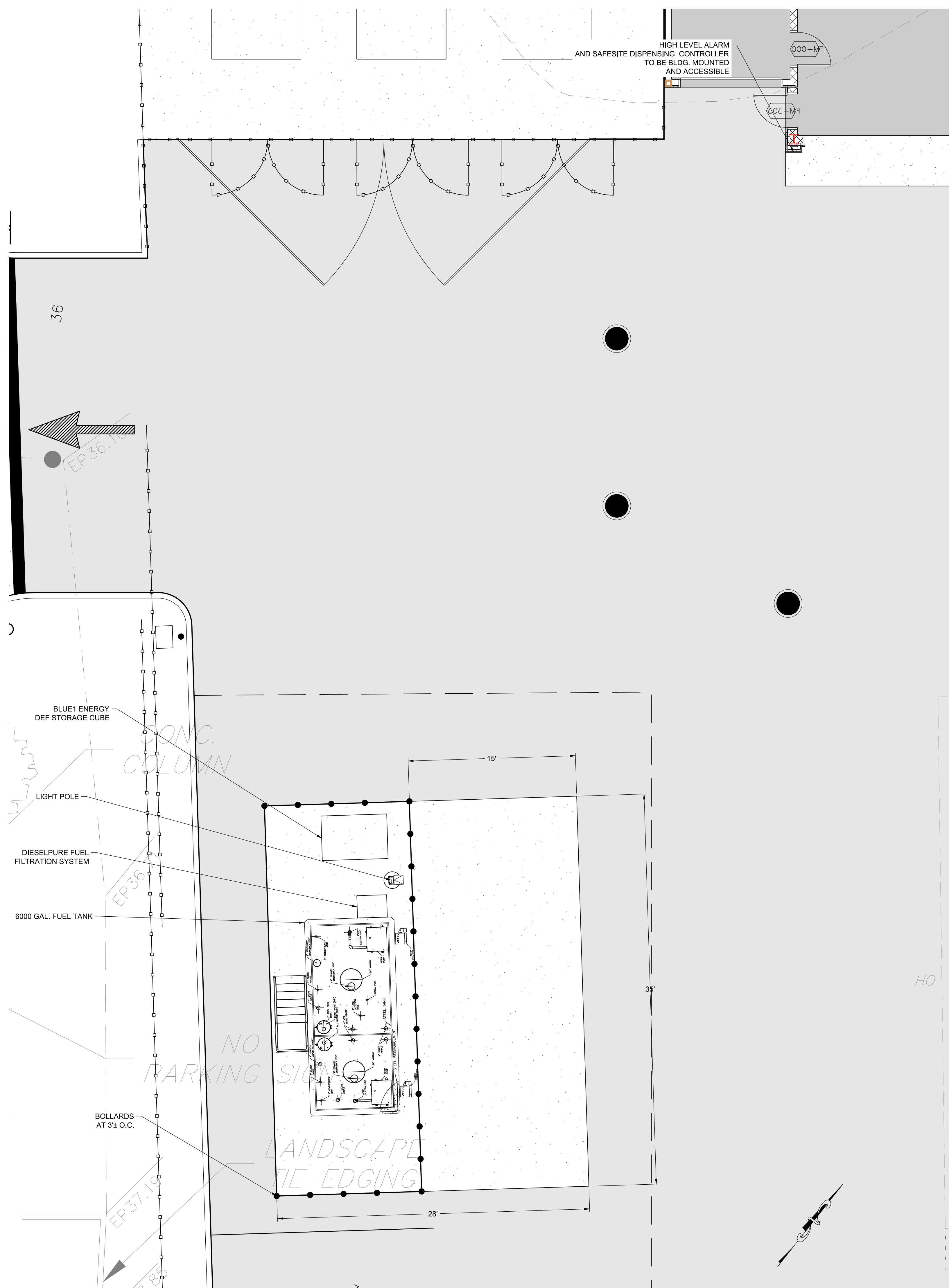
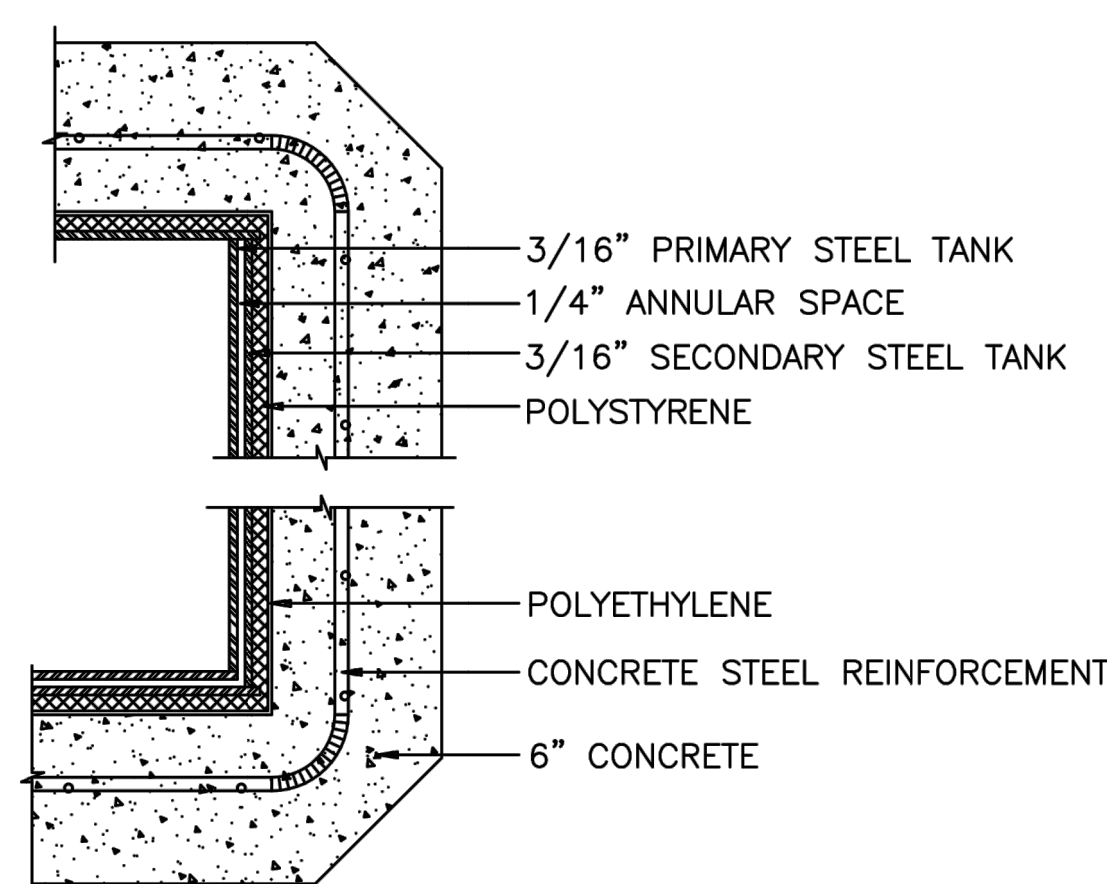
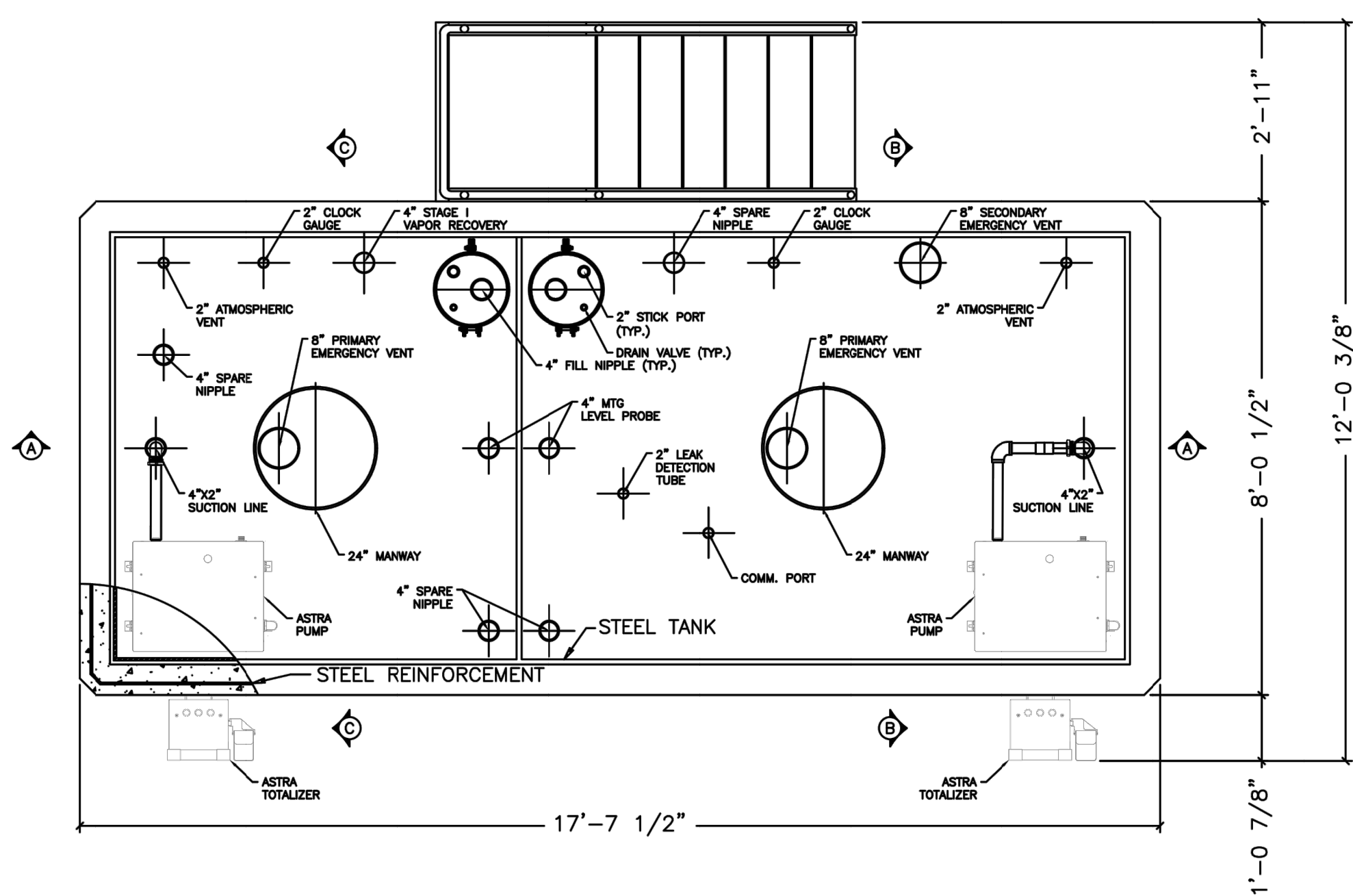
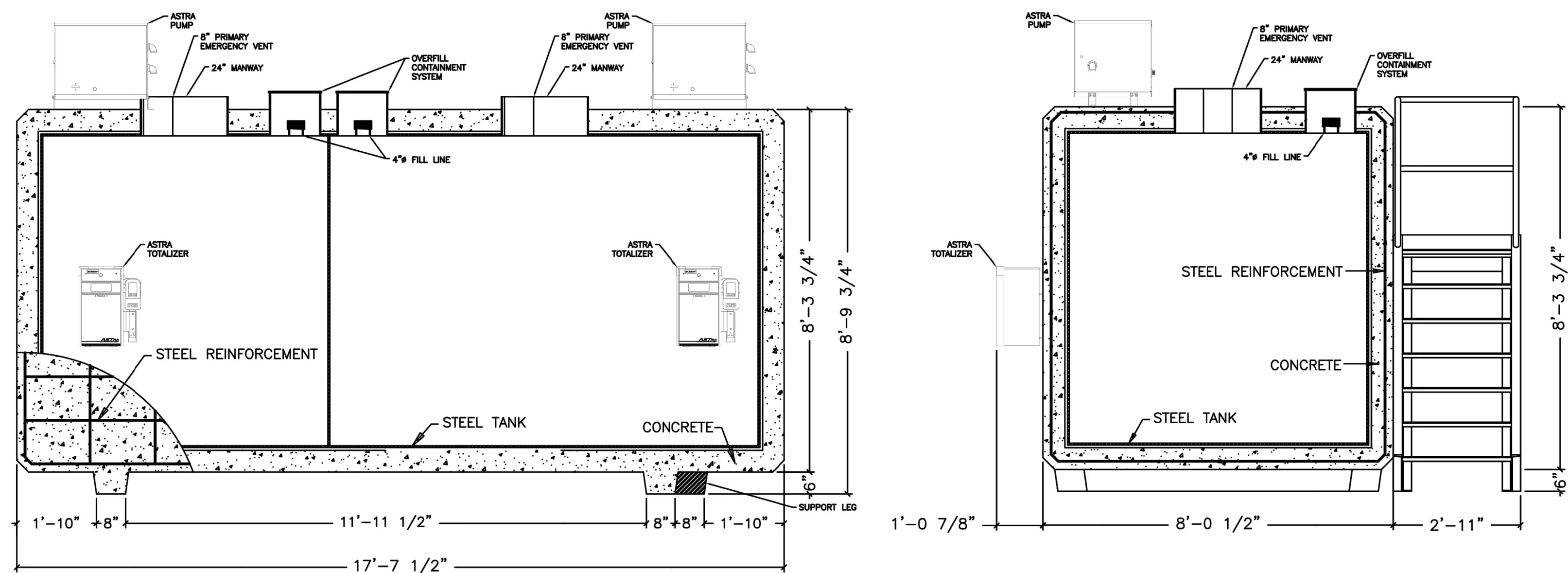
SITE DETAILS

SCALE AS NOTED
DATE: 9/1/2021

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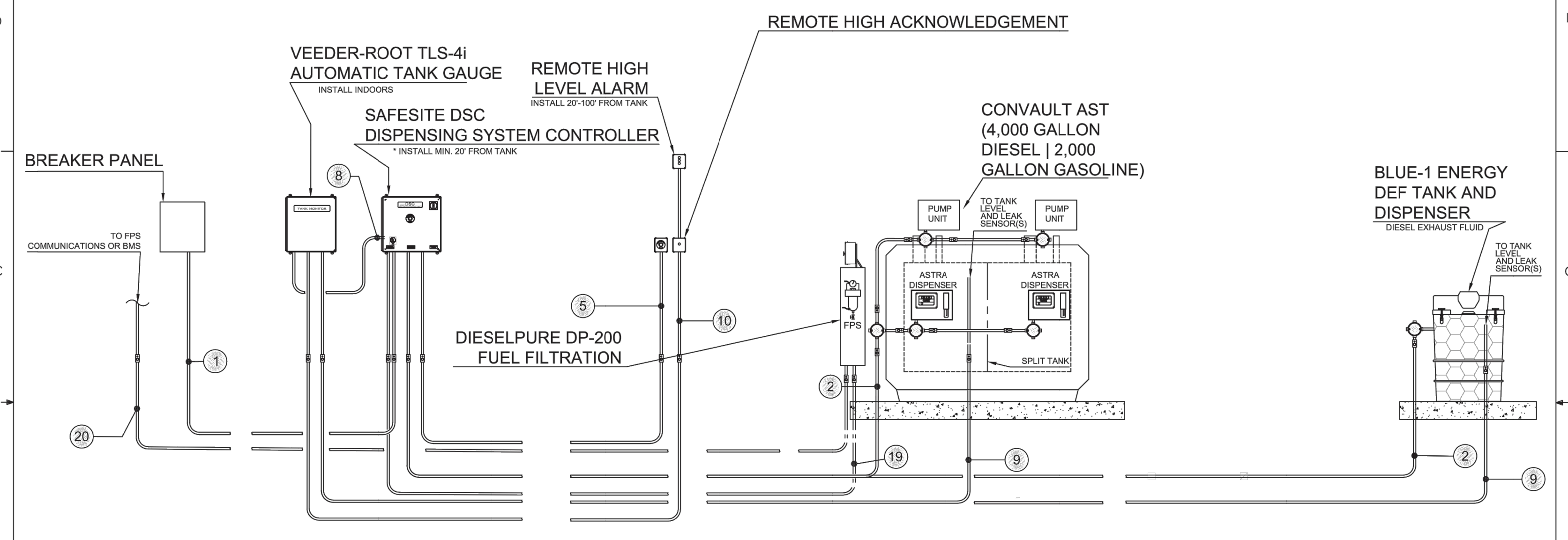
DRAWING NUMBER
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SHEET OF



- General Notes:
1. INSTALL THE DSC OUTDOORS 20 TO 100 FEET AWAY VISIBLE FROM THE FUELING AREA.
 2. IF INSTALLED INDOORS OR NOT VISIBLE FROM THE FUELING AREA, AN ADDITIONAL REMOTE EMERGENCY STOP BUTTON MUST BE USED.
 3. RIGID METAL CONDUIT IS REQUIRED BY THE DISPENSER MANUFACTURER AND VEEDER-ROOT.
 4. ALL WIRING TO COMPLY WITH NEC.

SAFESITE™ DSC (Dispensing System Controller)

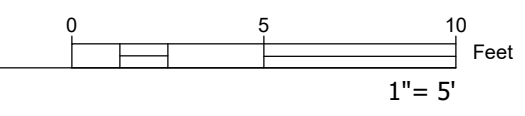
Equipment and Conduit Layout
Gasboy - Astra Pump and Dispensers



TYPICAL WIRING

CONDUIT	DEVICE	POWER	WIRE TYPE	COMMENTS
1	INCOMING POWER FEED	SINGLE PHASE (208/230)	(4) #10 AWG THHN STRANDED	L1, L2, NEUT & GROUND
2	PUMP(S) POWER	SINGLE PHASE (208/230)	(3) #12 AWG THHN STRANDED	L1, L2 & GROUND
2	DISPENSER POWER	SINGLE PHASE (115)	(3) #12 AWG THHN STRANDED	HOT, NEUT & GROUND, HANDLE FEED
2	ANTI-SIPHON SOLENOID VALVE(S)	SINGLE PHASE (115)	(3) #14 AWG THHN STRANDED	HOT, NEUT & GROUND
5	REMOTE EMERGENCY STOP	SINGLE PHASE (115)	(4) #14 AWG THHN STRANDED	HOT FEED, HOT RETURN
8	TANK MONITOR SYSTEM POWER	SINGLE PHASE (115)	(2) #14 AWG THHN, (2) #12 AWG THHN STRANDED	HOT, NEUT, (2) #12 GROUND(S)
9	VEEDER-ROOT TANK MONITOR LEVEL PROBES	INTRINSICALLY SAFE	PROBES BELDEN #88760 OR 8760	
9	VEEDER-ROOT TANK MONITOR LEAK SENSORS	INTRINSICALLY SAFE	SENSORS BELDEN #88760 OR 8760	
10	VEEDER-ROOT TANK MONITOR REMOTE ALARM	115 VAC	#16 MIN THHN OR TFFN STRANDED	+24, -24, RESET, TEST, TANKS
19	FUEL POLISHING SYSTEM	SINGLE PHASE / THREE PHASE (208/230)	(5) #12 AWG STRANDED	HOT, HOT, HOT, NEUTRAL, GROUND
20	FPS COMMUNICATION RS 232	COMMUNICATION	BELDEN 8102, 3073F / 9451, 1419A OR EQUAL	22 AWG. MIN

1 FUEL STATION LAYOUT



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NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN

BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07704

SITE DETAILS

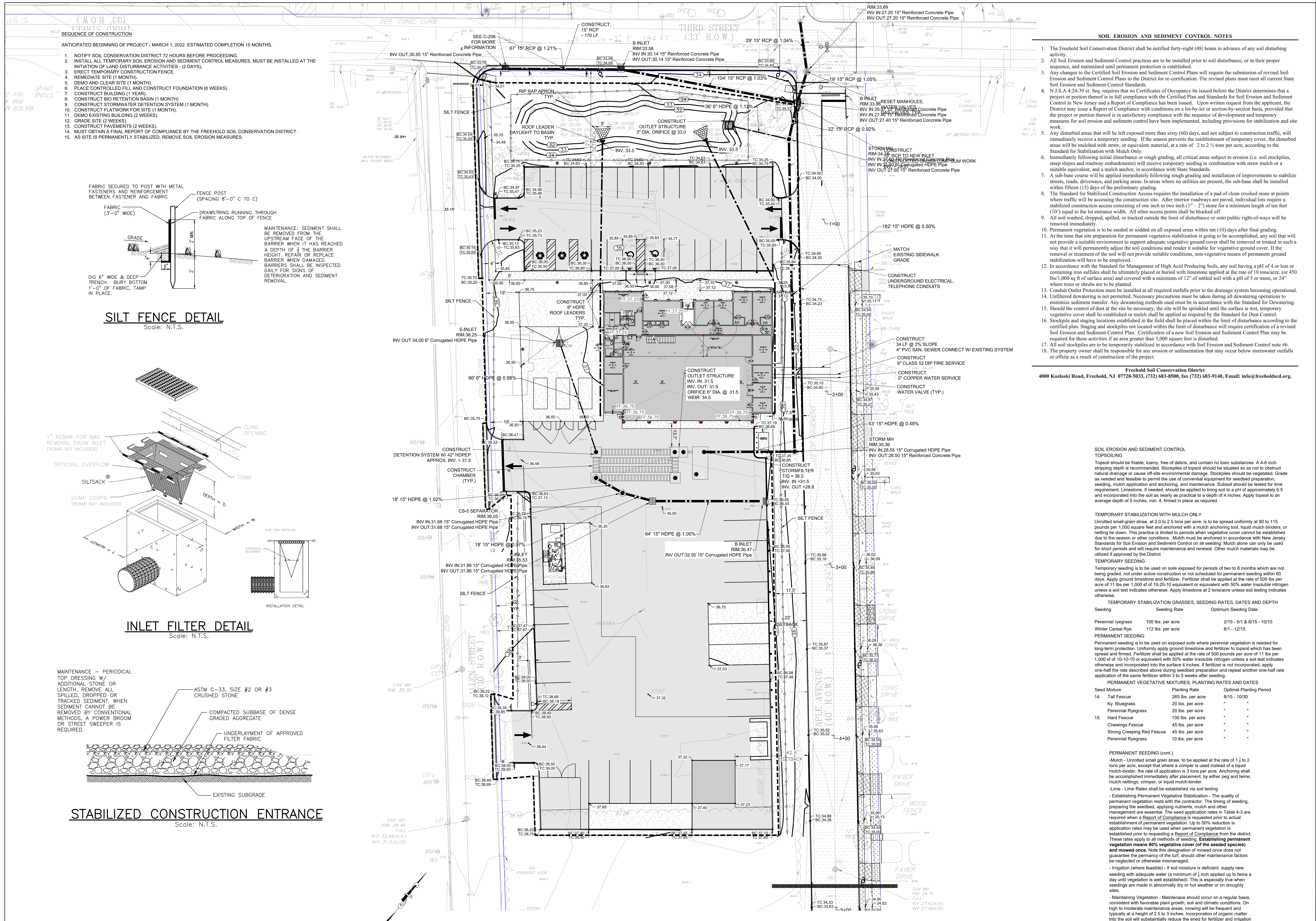
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DATE: 9/1/2021

DWN: LTB
CKD: EJA

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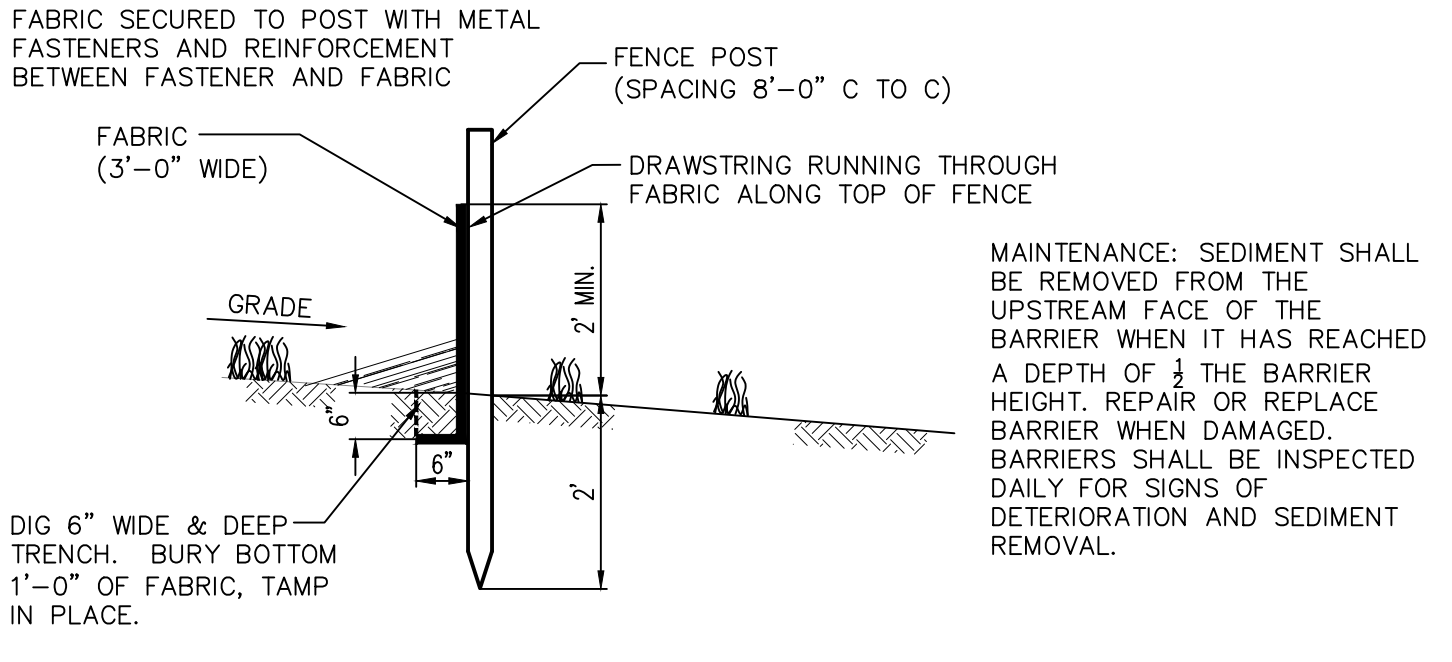
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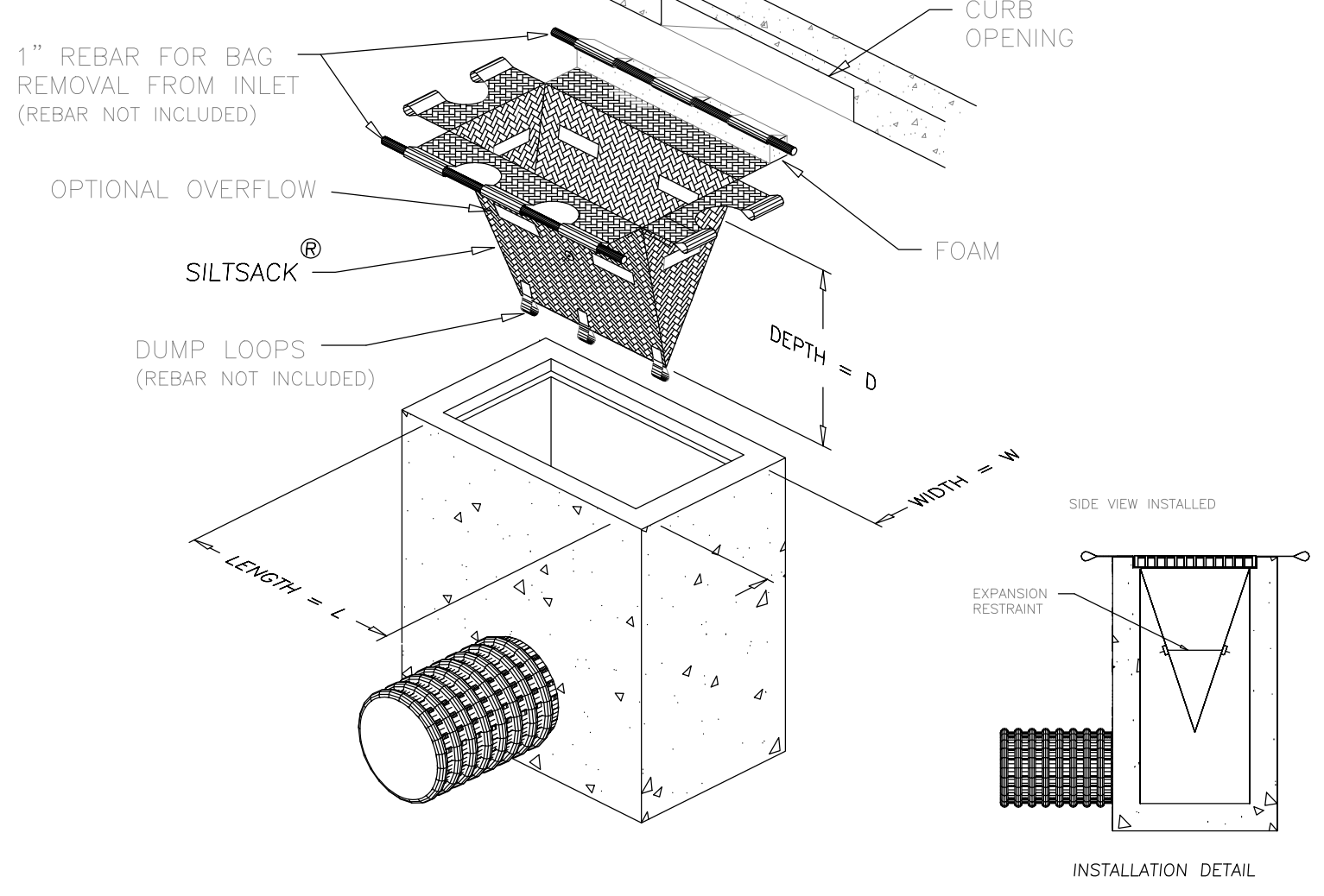


SEQUENCE OF CONSTRUCTION

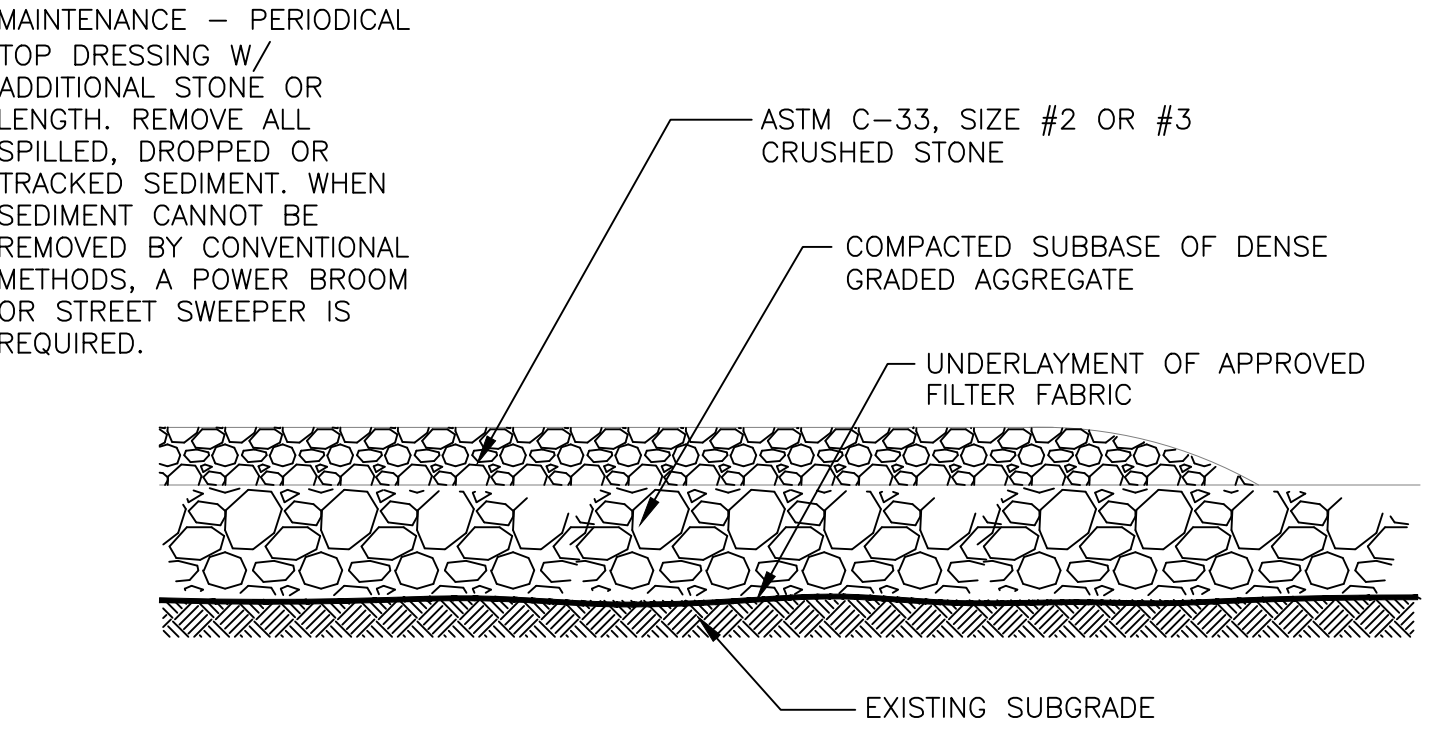
1. NOTIFY SOIL CONSERVATION DISTRICT 72 HOURS BEFORE PROCEEDING.
2. INSTALL ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES. MUST BE INSTALLED AT THE INITIATION OF LAND DISTURBANCE ACTIVITIES - (2 DAYS).
3. ERECT TEMPORARY CONSTRUCTION FENCE.
4. REMEDIATE SITE (1 MONTH).
5. DEMO AND CLEAR SITE (1 MONTH).
6. PLACE CONTROLLED FILL AND CONSTRUCT FOUNDATION (6 WEEKS).
7. CONSTRUCT BUILDING (1 YEAR).
8. CONSTRUCT BIO RETENTION BASIN (1 MONTH).
9. CONSTRUCT STORMWATER DETENTION SYSTEM (1 MONTH).
10. CONSTRUCT FLATWORK FOR SITE (1 MONTH).
11. DEMO EXISTING BUILDING (2 WEEKS).
12. GRADE SITE (2 WEEKS).
13. CONSTRUCT PAVEMENTS (2 WEEKS).
14. MUST OBTAIN A FINAL REPORT OF COMPLIANCE BY THE FREEHOLD SOIL CONSERVATION DISTRICT.
15. AS SITE IS PERMANENTLY STABILIZED, REMOVE SOIL EROSION MEASURES.



SILT FENCE DETAIL
Scale: N.T.S.



INLET FILTER DETAIL
Scale: N.T.S.



STABILIZED CONSTRUCTION ENTRANCE
Scale: N.T.S.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. The Freehold Soil Conservation District shall be notified forty-eight (48) hours in advance of any soil disturbing activity.
2. All Soil Erosion and Sediment Control practices are to be installed prior to soil disturbance, or in their proper sequence, and maintained until permanent protection is established.
3. Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control Plans to the District for re-certification. The revised plans must meet all current State Soil Erosion and Sediment Control Standards.
4. N.J.S.A. 4:24-39 et. Seq. requires that no Certificates of Occupancy be issued before the District determines that a project or portion thereof is in full compliance with the Certified Plan and Standards for Soil Erosion and Sediment Control in New Jersey and a Report of Compliance has been issued. Upon written request from the applicant, the District may issue a Report of Compliance on a lot-by-lot or section-by-section basis, provided that the project or portion thereof is in satisfactory compliance with the sequence of development and temporary measures for soil erosion and sediment control have been implemented, including provisions for stabilization and site work.
5. Any disturbed areas that will be left exposed more than sixty (60) days, and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of 2 to 2 1/2 tons per acre, according to the Standard for Stabilization with Mulch Only.
6. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. soil stockpiles, steep slopes and roadway embankments) will receive temporary seeding in combination with straw mulch or a suitable equivalent, and a mulch anchor, in accordance with State Standards.
7. A sub-base course will be applied immediately following rough grading and installation of improvements to stabilize streets, roads, driveways, and parking areas. In areas where no utilities are present, the sub-base shall be installed within fifteen (15) days of the preliminary grading.
8. The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed stone at points where traffic will be accessing the construction site. After interior roadways are paved, individual lots require a stabilized construction access consisting of one inch to two inch (1" - 2") stone for a minimum length of ten feet (10') equal to the lot entrance width. All other access points shall be blocked off.
9. All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public right-of-ways will be removed immediately.
10. Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading.
11. At the time that site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover shall be removed or treated in such a way that it will permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground stabilization will have to be employed.
12. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or containing iron sulfides shall be ultimately placed or buried with limestone applied at the rate of 10 tons/acre, (or 450 lbs/1,000 sq ft of surface area) and covered with a minimum of 12" of settled soil with a pH of 5 or more, or 24" where trees or shrubs are to be planted.
13. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.
14. Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize sediment transfer. Any dewatering methods used must be in accordance with the Standard for Dewatering.
15. Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetative cover shall be established or mulch shall be applied as required by the Standard for Dust Control.
16. Stockpile and staging locations established in the field shall be placed within the limit of disturbance according to the certified plan. Staging and stockpiles not located within the limit of disturbance will require certification of a revised Soil Erosion and Sediment Control Plan. Certification of a new Soil Erosion and Sediment Control Plan may be required for these activities if an area greater than 5,000 square feet is disturbed.
17. All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control note #6.
18. The property owner shall be responsible for any erosion or sedimentation that may occur below stormwater outfalls or offsite as a result of construction of the project.

Freehold Soil Conservation District
4000 Koszloski Road, Freehold, NJ 07728-5033, (732) 683-8500, fax (732) 683-9140, Email: info@freeholdscd.org.

SOIL EROSION AND SEDIMENT CONTROL

TOPSOILING
Topsoil should be friable, loamy, free of debris, and contain no toxic substances. A 4-6 inch striping device is to be used to apply topsoil. Stockpiles of soil to be recycled so as not to obstruct natural drainage or cause off-site environmental damage. Stockpiles should be vegetated. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application and other maintenance. Subsoil should be tested for lime requirement. Limestone, if needed, should be applied to bring soil to pH of approximately 6.5 and incorporated into the soil as nearly as practical to a depth of 4 inches. Apply topsoil to an average depth of 5 inches, min. 4, firmed in place as required.

TEMPORARY STABILIZATION WITH MULCH ONLY
Unrotted small-grain straw, at 2.0 to 2.5 tons per acre, is to be spread uniformly at 90 to 115 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting to down. This practice is limited to periods when vegetative cover cannot be established due to the season or other conditions. Mulch alone can only be used for short periods and will require maintenance and renewal. Other mulch materials may be utilized if approved by the District.

TEMPORARY SEEDING
Temporary seeding is to be used on soils exposed for periods of two to six months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days. Apply ground limestone and fertilizer. Fertilizer shall be applied at the rate of 500 lbs per acre of 11 lbs per 1,000 sq ft of 10-20-10 equivalent or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Apply limestone at 2 tons/acre unless soil testing indicates otherwise.

TEMPORARY STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH

Seeding	Seeding Rate	Optimal Seeding Date
Perennial ryegrass	100 lbs. per acre	2/15 - 5/1 & 8/15 - 10/15
Winter Cereal Rye	112 lbs. per acre	8/1 - 12/15

PERMANENT SEEDING
Permanent seeding is to be used on exposed soils where perennial vegetation is needed for long-term protection. Uniformly apply ground limestone and fertilizer to topsoil which has been spread and firmed. Fertilizer shall be applied at the rate of 500 pounds per acre of 11 lbs per 1,000 sq ft of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seedbed preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.

PERMANENT VEGETATIVE MIXTURES, PLANTING RATES AND DATES

Seed Mixture	Planting Rate	Optimal Planting Period
14. Tall Fescue	265 lbs. per acre	8/15 - 10/30
Ky. Bluegrass	20 lbs. per acre	-
Perennial Ryegrass	20 lbs. per acre	-
15. Hard Fescue	130 lbs. per acre	-
Chewings Fescue	45 lbs. per acre	-
Strong Creeping Red Fescue	45 lbs. per acre	-
Perennial Ryegrass	10 lbs. per acre	-

PERMANENT SEEDING (cont.)
- Mulch - Unrotted small grain straw, to be applied at the rate of 1 1/2 to 2 tons per acre, except that where a crimper is used instead of a liquid mulch-binder, the rate of application is 3 tons per acre. Anchoring shall be accomplished immediately after placement, by either peg and twine, mulch nettings, crimper, or liquid mulch-binder.
- Lime - Lime Rates shall be established via soil testing
- Establishing Permanent Vegetative Stabilization - The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rates in Table 4-3 are required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and mowed once. Note this designation of mowed once does not guarantee the permanency of the turf, should other maintenance factors be neglected or otherwise mismanaged.
- Irrigation (where feasible) - If soil moisture is deficient, supply new seeding with adequate water (a minimum of 1/2 inch applied up to twice a day until vegetation is well established). This is especially true when seedings are made in abnormally dry or hot weather or on droughty sites.
- Maintaining Vegetation - Maintenance should occur on a regular basis, consistent with favorable plant growth, soil and climatic conditions. On high to moderate maintenance areas, mowing will be frequent and typically at a height of 2.5 to 3 inches. Incorporation of organic matter into the soil will substantially reduce the need for fertilizer and irrigation inputs. Fertilizer and lime should be applied as needed to maintain a dense stand of desirable species. Lime requirement should be established via soil testing every 2 or 3 years. Control of weeds or brush is accomplished by using herbicides or mechanical methods. Tall and dry vegetation is a fire hazard. Prune trees and shrubs to remove dead or damaged branches.

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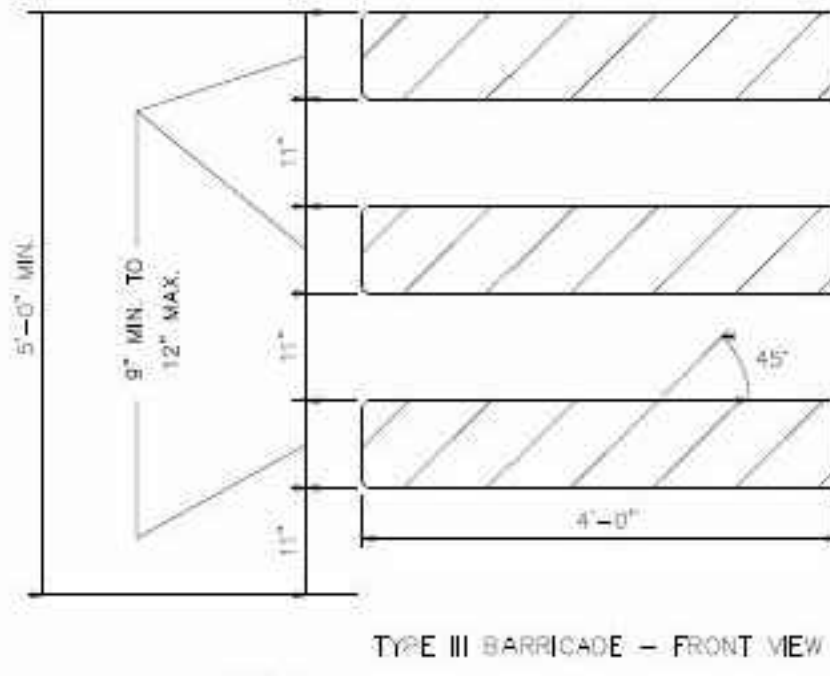
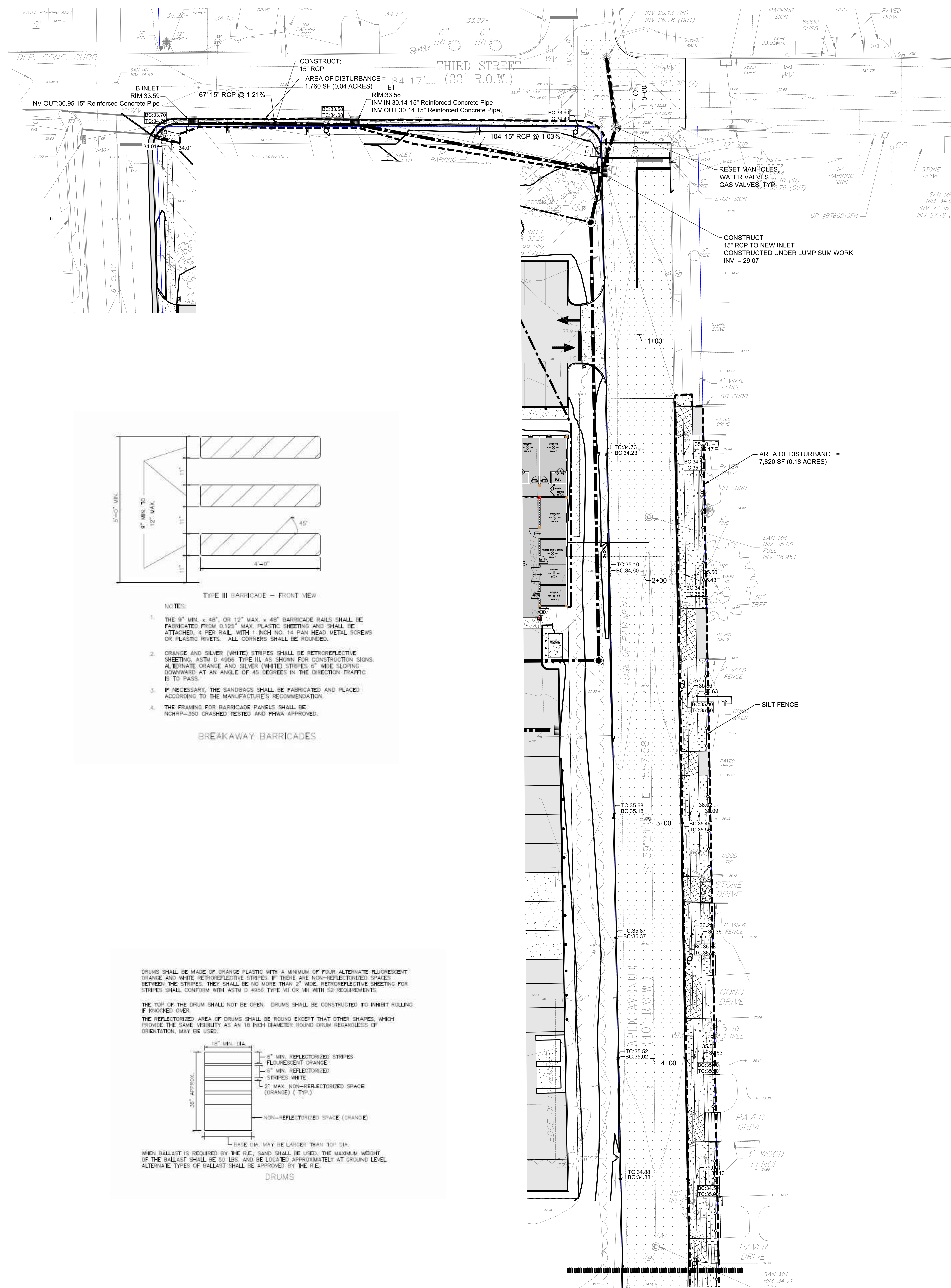
NEW PUBLIC WORKS BUILDING
BOROUGH OF FAIR HAVEN
BLOCK 44 LOT 2
1 ALLEN STREET
FAIR HAVEN, NJ 07704

SOIL EROSION AND SEDIMENT CONTROL PLAN
SCALE AS NOTED
DATE: 9/1/2021
DWN: LTB
CKD: EJA

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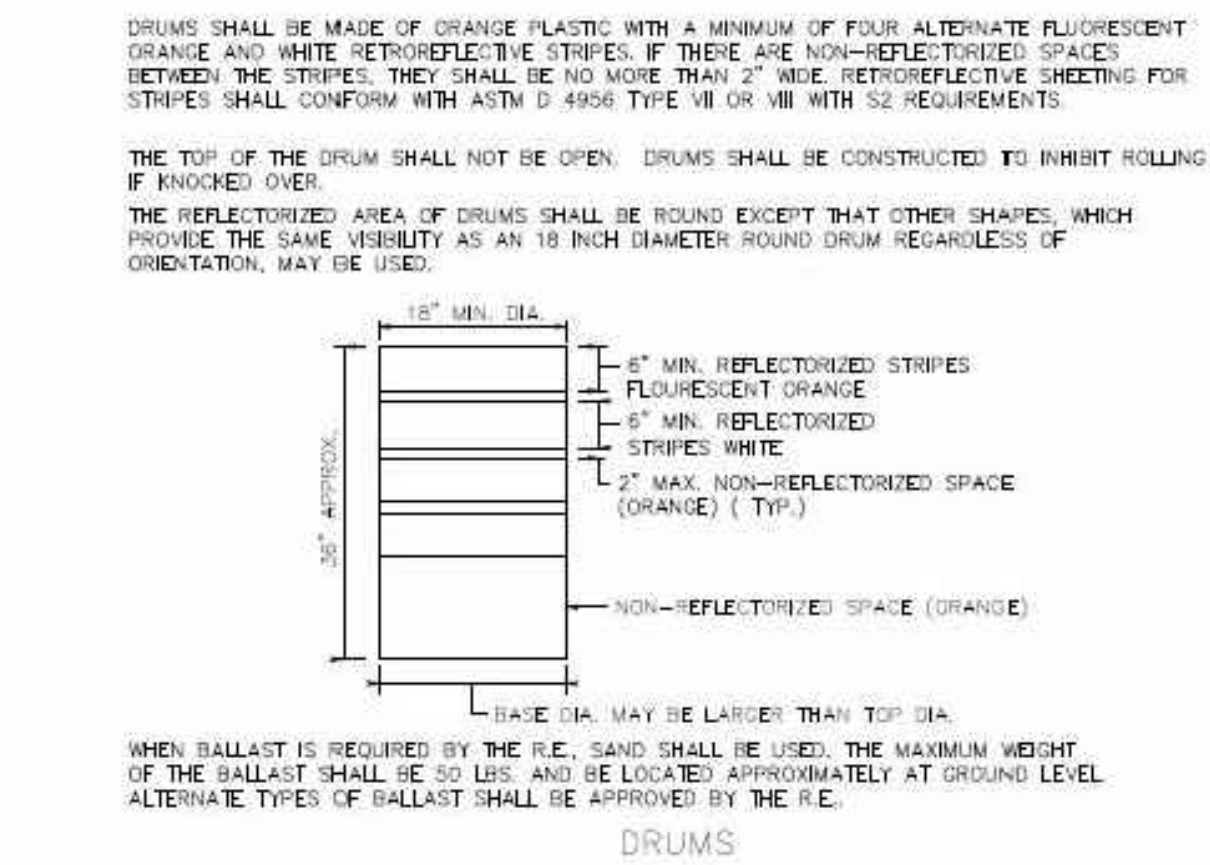
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SOIL EROSION AND SEDIMENT CONTROL PLAN



- NOTES:
1. THE 9" MIN. x 48" x 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED TO THE RAIL WITH 1/8" DIA. 18 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
 2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D-4956 TYPE III AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
 3. IF NECESSARY, THE SANDRAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
 4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHPM-350 CRASHED TESTED AND PHVA APPROVED.

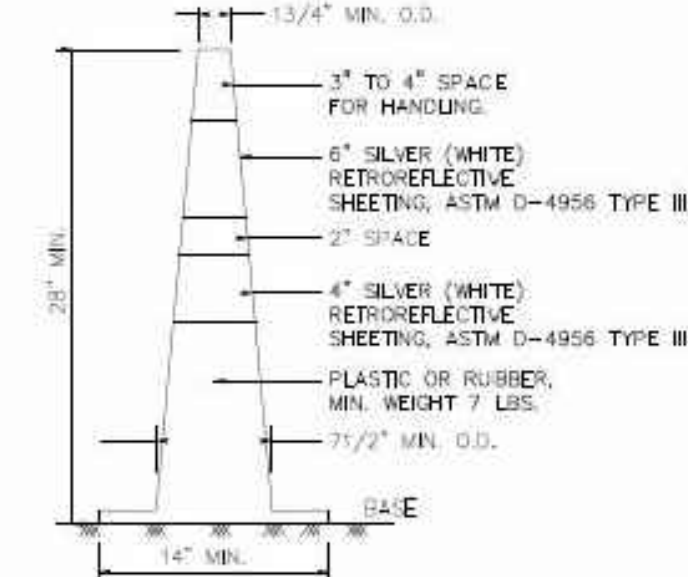
BREAKAWAY BARRICADES



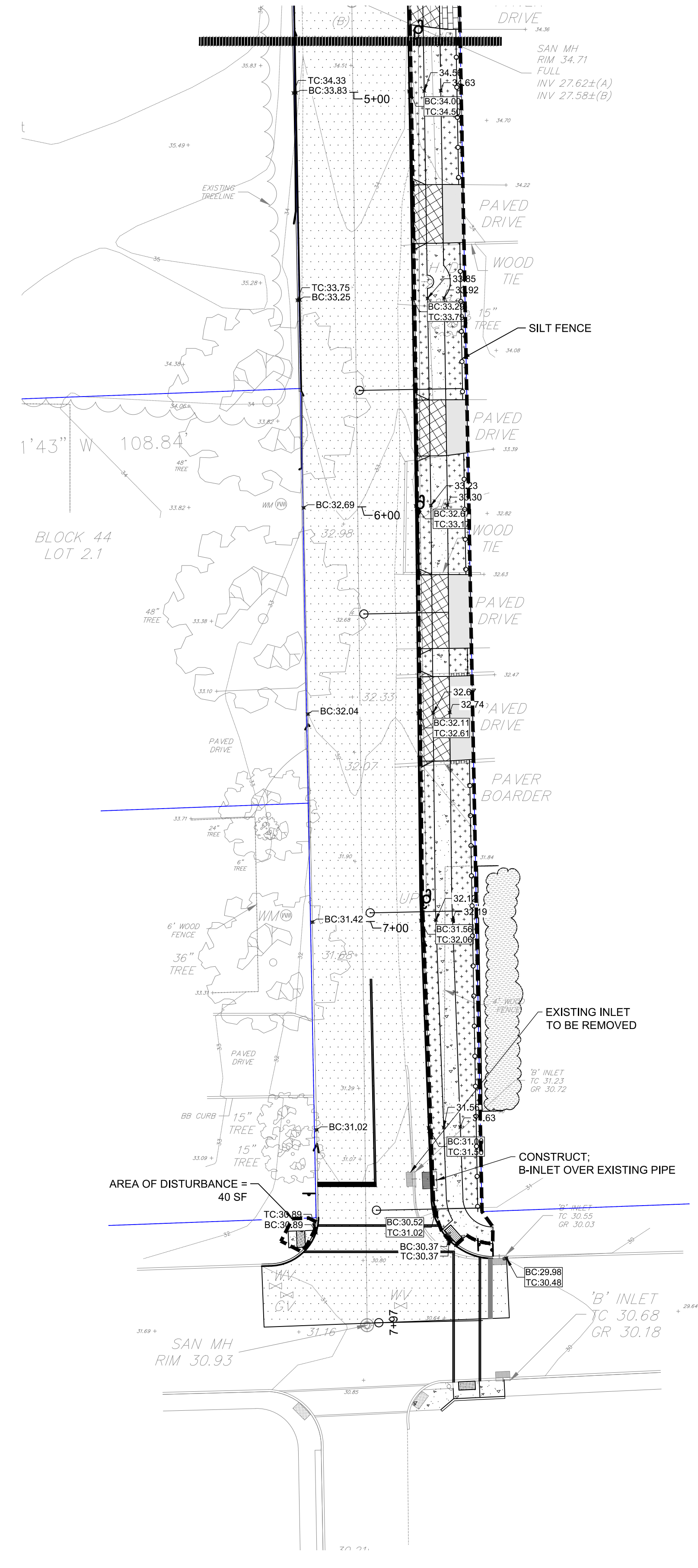
- DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D-4956 TYPE VII OR VIII WITH S2 REQUIREMENTS.
- THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF INKNOCKED OVER.
- THE REFLECTED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.

DRUMS

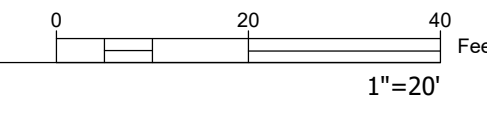
- NOTES:
1. TRAFFIC CONES SHALL BE PREDOMINANTLY ORANGE BY COLOR.
 2. BASES MAY BE OF BREAKAWAY BALLASTED TYPE.
 3. MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.



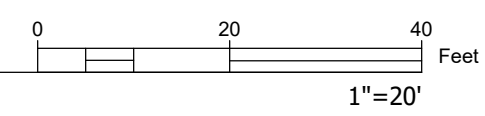
TRAFFIC CONES



2 MAPLE AVENUE IMPROVEMENTS SOIL EROSION AND SEDIMENT CONTROL PLAN - SOUTH



1 MAPLE AVENUE IMPROVEMENTS SOIL EROSION AND SEDIMENT CONTROL PLAN - NORTH



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MAPLE AVENUE
 IMPROVEMENTS AND
 SOIL EROSION AND
 SEDIMENT CONTROL PLAN

DRAWN BY: CMC/EA
 SCALE: AS NOTED
 DATE: 9/1/2021

THIS DRAWING IS
 INCOMPLETE UNLESS
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 CONTRACT DOCUMENTS.

DRAWING NUMBER
C-215

SHEET OF