

**GENERAL NOTES:**

- A. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACE AND UNDERGROUND FACILITIES DURING ALL PHASES OF WORK. UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS ARE FOR THE CONTRACTOR'S GUIDANCE ONLY. THE LOCATIONS OF ALL UNDERGROUND UTILITY FACILITIES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR SHALL CALL FOR THE UTILITIES COMPANIES TO MARK OR FLAG THE LOCATION OF THEIR FACILITIES IN THE FIELD (1-800-331-5666 OR 811) 48 HOURS PRIOR TO DIGGING. CALL ALL APPLICABLE UTILITY COMPANIES. THE CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ANY DAMAGES TO EXISTING FACILITIES CAUSED DIRECTLY OR INDIRECTLY BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTE THAT THERE MAY BE EXISTING UNDERGROUND FACILITIES THAT ARE NOT SHOWN ON THE PLANS. IT IS, THEREFORE, A REQUIREMENT OF THIS CONTRACT THAT THE CONTRACTOR FULLY INVESTIGATE ALL AREAS IN WHICH EXCAVATIONS WILL BE PERFORMED AND TAKE ALL REASONABLE MEASURES NECESSARY TO LOCATE ANY FACILITIES WHICH MAY NOT BE SHOWN ON THE PLANS.
- B. BEFORE PROCEEDING, THE CONTRACTOR SHALL SATISFY HIMSELF THAT A CONFLICT DOES NOT EXIST AND THAT THE UNDERGROUND WORK CAN BE PERFORMED AS SHOWN ON THE PLANS. IF, IN THE OPINION OF THE CONTRACTOR, A CONFLICT DOES EXIST, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER WHO WILL MAKE THE FINAL DETERMINATION FOR RESOLVING THE CONFLICT. THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR WORK RESULTING FROM A CONFLICT WHICH WAS NOT THOROUGHLY INVESTIGATED PRIOR TO PROCEEDING WITH HIS WORK. THE CONTRACTOR MAY REQUEST ADDITIONAL COMPENSATION FOR ANY ADDITIONAL WORK PERFORMED TO DIRECTLY RESOLVE THE CONFLICT AS DIRECTED IN WRITING BY THE ENGINEER.
- C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT AND OTHER IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR OUTSIDE THE CONSTRUCTION LIMITS. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS. THE CONTRACTOR SHALL PAY ALL PERMIT FEES, DUMP FEES AND OTHER ASSOCIATED FEES REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- E. THE CONTRACTOR SHALL SATISFACTORILY CLEAN THE AREA OF ALL RUBBISH, EXCESS MATERIAL, MUD AND DEBRIS AND ALL PARTS OF THE WORK AREA SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION. ALL DISTURBED AREAS SHALL BE RESTORED TO A LEVEL AND SMOOTH SURFACE PRIOR TO ACCEPTANCE OF THE WORK. DEBRIS, ETC. SHALL BE DISPOSED OF AT AN APPROVED FACILITY IN A LEGAL MANNER.
- F. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL UNSUITABLE MATERIALS AND DEBRIS ENCOUNTERED IN/OR GENERATED BY THE REMOVAL OPERATIONS, INCLUDING CONCRETE, ASPHALT, OIL TANK, BRICK, ROCK, PIPES, ETC. NO UNSUITABLE MATERIAL, SUCH AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHALL BE USED FOR BACKFILLING OR EMBANKMENT CONSTRUCTION. THE COST FOR DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE SUBSIDIARY TO THE PROJECT.
- G. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, LIGHTS, FLASHERS, AND FLAG PERSONS AS REQUIRED BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES\*, TO PROVIDE FOR THE SAFETY OF WORKERS AND THE PUBLIC AT LARGE. TEMPORARY FENCING SHALL BE INSTALLED AROUND ANY OPEN AREAS OF THE SITE. THE COST OF TRAFFIC CONTROL DEVICES AND TEMPORARY FENCING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- H. THE CONTRACTOR SHALL NOT START THE WORK UNTIL ALL PERMITS HAVE BEEN OBTAINED FROM THE JURISDICTIONAL AUTHORITIES, THE ENGINEER AND THE JURISDICTIONAL AUTHORITIES SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS BEFORE START OF CONSTRUCTION.
- I. WHERE ITEMS OF CONSTRUCTION ARE NOTED "IF REQUIRED" THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE PROJECT ENGINEER BEFORE PROCEEDING WITH SUCH WORK.
- J. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY, UTILITIES AND STRUCTURES, OUTSIDE THE SCOPE OF WORK AND REPAIR SAME AT HIS OWN EXPENSE.
- K. CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBER OF THEIR REPRESENTATIVE TO BE CONTACTED (AS NECESSARY) DURING WORKING AND NON-WORKING HOURS.
- L. A QUALIFIED SUPERINTENDENT, WHO IS ACCEPTABLE TO THE OWNER, SHALL BE PRESENT ON THE PROJECT SITE DURING CONSTRUCTION AND ONE SUPERVISOR TO THE WORK UNTIL ITS COMPLETION. THE SUPERINTENDENT SHALL HAVE FULL AUTHORITY TO ACT IN BEHALF OF THE CONTRACTOR, AND ALL DIRECTIONS GIVEN TO THE SUPERINTENDENT SHALL BE CONSIDERED GIVEN TO THE CONTRACTOR.
- M. THE CONTRACTOR SHALL NOT ENCRORCH ON PRIVATE PROPERTY OUTSIDE THE WORK AREAS WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER.
- N. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION STAKING.
- O. DUE TO SPACE RESTRICTIONS AND OTHER CONSTRUCTION, A CONTRACTOR STAGING AREA WILL NOT BE AVAILABLE.

**GENERAL REMOVAL NOTES:**

- A. STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED PRIOR TO ANY REMOVALS.
- B. REMOVE ALL TREES WITHIN THE CLEARING AND GRUBBING LIMITS, UNLESS OTHERWISE IDENTIFIED BY OWNER. TREE REMOVAL SHALL INCLUDE FULL STUMP REMOVAL.
- C. CONTRACTOR SHALL FULL DEPTH SAWCUT WITH A DIAMOND EDGE SAW BLADE ALL LOCATIONS WHERE PAVEMENT TO BE REMOVED ABUTS PAVEMENT TO REMAIN. REMOVE ALL COMBINATION CURB AND GUTTER PAVEMENT TO NEAREST JOINT EXCEPT WHERE SHOWN OTHERWISE.
- D. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND PROPERLY DISPOSED OF. THE OWNER SHALL HAVE FIRST RIGHTS TO ANY MATERIALS THAT HE DEEMS SALVAGEABLE. MISCELLANEOUS STRUCTURES, CONCRETE, RUBBLE AND OTHER ITEMS SHALL BE REMOVED COMPLETELY.
- E. THE CONTRACTOR SHALL LOCATE, REMOVE, AND CAP ANY EXISTING LAWN IRRIGATION VALVES, HEADS, PIPING, OR OTHER LAWN IRRIGATION APPURTENANCES THAT WILL BE AFFECTED BY CONSTRUCTION. THE CONTRACTOR SHALL CONSTRUCT ANY NEW PIPING, VALVES, OR ANY OTHER EQUIPMENT NECESSARY TO MAINTAIN THE EXISTING FUNCTIONALITY OF THE LAWN SPRINKLER SYSTEM TO REMAIN. THE CONTRACTOR SHALL ALSO ADJUST ANY EXISTING SPRINKLER HEADS TO PREVENT WATER FROM BEING THROWN AT BUILDINGS OR PAVED AREAS. AS-BUILTS AND OPERATING INSTRUCTIONS OF THE NEW SYSTEM SHALL BE SUBMITTED AFTER INSTALLATION AND VERIFICATION OF PROPER OPERATION.
- F. WITHIN THE PROPOSED SURCHARGE AREA (SEE CD103) THE PROPOSED SANITARY SEWER PIPE (SEE CU101) AND PROPOSED ELECTRICAL LINES (SEE EC102) SHALL BE CONSTRUCTED AND ACTIVE PRIOR TO REMOVAL OF EXISTING SANITARY SEWER AND ELECTRICAL LINES. ANY INTERRUPTION OF EITHER SERVICE SHALL NEED A MINIMUM OF 1 WEEK NOTICE FOR COORDINATION WITH THE OWNER.

**GENERAL GRADING NOTES:**

- A. TOPSOIL SHALL BE STRIPPED, STOCKPILED ON-SITE AND SPREAD AFTER GRADING OPERATIONS.
- B. OFF-SITE BORROW SOILS SHALL BE EVALUATED AND APPROVED BY THE SOILS ENGINEER PRIOR TO USE ON THE SITE. ALL PROPOSED FILL SOILS SHALL BE TESTED AND APPROVED PRIOR TO PLACEMENT.
- C. THE CONTRACTOR MUST COMPLY WITH ALL NOISE AND DUST CONTROL ORDINANCES OF THE CITY OF SIOUX FALLS.
- D. ALL DIMENSIONS OR ELEVATIONS MARKED WITH AND ASTERISKS(\*) SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.
- E. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. NO PONDING OF WATER SHALL BE ALLOWED OUTSIDE OF SPECIFICALLY DESIGNATED AREAS FOR EROSION CONTROL OR PROPOSED PONDS. MAINTAIN ALL EXISTING DRAINAGE PATTERNS UNTIL FINAL PLAN DRAINAGE PATTERNS ARE ESTABLISHED.
- F. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EXCAVATIONS ARE MADE IN ACCORDANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CONSTRUCTION STANDARDS. DETERMINATION OF ACTUAL OSHA SOIL TYPE IN THE FIELD IS THE RESPONSIBILITY OF THE CONTRACTOR. IN ADDITION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH OSHA STANDARDS AND REGULATIONS PERTAINING TO ALL ASPECTS OF THE WORK INCLUDING ENTERING CONFINED SPACES.
- G. ALL TOPSOIL OPERATIONS, INCLUDING REMOVAL, STOCKPILING AND SPREADING SHALL BE IN ACCORDANCE WITH CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD SPECIFICATIONS.
- H. TOPSOIL STOCKPILE LOCATION SHALL BE COORDINATED WITH OWNER AND HAVE A MAXIMUM SIDE SLOPE OF 3:1.
- I. AFTER GRADING OPERATIONS ARE WITHIN 6" OF FINAL GRADE, SPREAD 6" OF TOPSOIL FROM THE STOCKPILE ACROSS ALL AREAS TO BE SOODED. IF STORED MATERIAL DOES NOT EQUAL 6" THICK OF TOPSOIL, THE CONTRACTOR WILL HAUL TOPSOIL TO THE SITE AND SPREAD IT UNTIL THE 6" TOPSOIL THICKNESS IS REACHED.
- J. SUITABLE MATERIALS SHALL BE FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS AND SHALL HAVE A MAXIMUM PARTICLE LESS THAN 2 INCHES. IF FINE GRAINED SILT OR CLAY SOIL IS USED FOR FILL, CLOSE MOISTURE CONTROL WILL BE REQUIRED TO ACHIEVE THE RECOMMENDED COMPACTION. ORGANIC SOILS SHALL BE BLENDED WITH THE TOPSOIL SURFACE COVER.
- K. FINAL SUBGRADE PREPARATION BELOW PAVEMENTS AND FLOOR SLABS SHALL BE PERFORMED IMMEDIATELY PRIOR TO (WITHIN 48 HOURS BEFORE) CONCRETE OR PAVEMENT PLACEMENT. THE PAVEMENT OR FLOOR SUBGRADE SHALL BE REEVALUATED BY THE GEOTECHNICAL ENGINEER IF PRECIPITATION FALLS ON THE SITE AFTER FINAL PREPARATION IS COMPLETED. THE SITE IS ILLUMINATED BY ANY WATER, OR IF THE SUBGRADE IS ALLOWED TO FREEZE AFTER SUBGRADE IS PREPARED AND BEFORE SURFACE PAVEMENT OR CONCRETE IS PLACED.
- L. ALL FILL SHALL BE PLACED IN NEARLY LEVEL LIFTS WITH EACH LIFT PROPERLY COMPACTED BEFORE PLACEMENT OF THE SUBSEQUENT LIFT OF SOIL ABOVE. ON EXISTING SLOPES IT IS NECESSARY TO CUT LEVEL BENCHES INTO THE EXISTING SLOPE AT ABOUT 1 TO 2-FOOT INTERVALS IN ELEVATION OF THE SLOPE TO ELIMINATE A PLANE OF WEAKNESS ALONG THE CONTACT SURFACE. ONLY ONE BENCH CAN BE CUT AT ANY ONE TIME AND THE SOIL FILL PLACED TO THE TOP OF THAT BENCH IN THIN LIFTS BEFORE THE NEXT LEVEL BENCH IS CUT.
- M. WHEN RUBBLE IS ENCOUNTERED, IT SHALL BE OVEREXCAVATED AND REMOVED, AND LAWFULLY DISPOSED OF. THE OVEREXCAVATED AREAS SHALL BE RE-FILLED WITH STRUCTURAL FILL. A GEOTECHNICAL ENGINEER SHALL DETERMINE THE LIMIT OF REMOVAL.
- N. PROPOSED CONTOURS REPRESENT TOP OF PAVEMENT IN PAVED AREAS AND TOP OF FINISHED GRADE IN LANDSCAPED AREAS. SUBTRACT PAVEMENT THICKNESS FOR SUBGRADE ELEVATIONS.

**GENERAL UTILITY NOTES:**

- A. ALL EXISTING UTILITIES SHOWN ARE FROM PUBLIC RECORDS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
- B. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS AND RELOCATIONS. ALL CONNECTION COST, CONNECTION FEES, OR RELOCATION FEES WILL BE PAID BY THE CONTRACTOR.
- C. ALL WATER LINE SHALL HAVE 6" MINIMUM COVER.
- D. ALL VALVES, FITTINGS, AND WATER LINE DISINFECTION SHALL CONFORM TO LOCAL UTILITY COMPANY REQUIREMENTS.
- E. ALL VALVES, BENDS, FITTINGS, AND THRUST BLOCKS SHALL BE INCIDENTAL TO THE PROJECT.
- F. ALL DIMENSIONS ARE FROM OUTSIDE WALL OF BUILDING.
- G. COORDINATE LOCATION AND DEPTHS OF ALL SERVICE LINES WITH BUILDING MECHANICAL PLANS.
- H. ALL STORM SEWER, WATER, GAS, AND SANITARY SEWER LINES SHALL BE CONSTRUCTED TO A POINT 5'-0" FROM THE EXTERIOR WALLS OF THE BUILDING. COORDINATE LOCATION AND DEPTHS WITH BUILDING MECHANICAL PLANS.
- I. ROOF DRAIN PIPE SHALL BE P.V.C. (SCHEDULE 40) PROFILE WALL DRAIN PIPE AND FITTINGS OR APPROVED EQUAL. BEDDING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- J. CONTRACTOR ROOF DRAIN SYSTEM IN ACCORDANCE TO LOCAL PLUMBING CODES. SEE ARCHITECTURAL PLANS FOR SIZE AND LOCATIONS OF DOWNSPOUTS. CONTRACTOR SHALL PROVIDE ALL BENDS AND FITTINGS TO MAKE THE CONNECTION TO THE DOWNSPOUTS.
- K. CONTRACTOR SHALL COORDINATE THE RECONNECTION OF ALL DOWNSPOUTS TO THE ROOF DRAIN SYSTEM. SEE ARCHITECTURAL PLANS.
- L. SEE CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD PLATES FOR SEWER BEDDING DETAILS.
- M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE TESTING AND DISINFECTION.
- N. TRACER WIRE SHALL BE INSTALLED ON ALL NEW WATER MAIN.
- O. TRENCH BACKFILL SHALL BE FREE OF BRICK, STONE OR CONCRETE RUBBLE, AND ANY TRASH, DEBRIS, ORGANIC MATERIAL OR ANY OTHER MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- P. THE CONTRACTOR SHALL PROVIDE, PLACE AND MAINTAIN FENCING ALONG OPEN TRENCH AREAS TO ASSURE PROTECTION OF THE GENERAL PUBLIC AND TO SECURE ALL AREAS WITHIN THE CONSTRUCTION ZONE. THE FENCING SHALL BE A MINIMUM OF 48 INCHES IN HEIGHT. IT SHALL BE PLACED AND SECURED IN SUCH A MANNER TO GUARD AGAINST THE CREATION OF ENTRY POINTS AROUND OR THROUGH BY PERSONS AWARE OF SITE CONDITIONS OR DANGERS. THE FENCING MAY BE OF WIRE/LATH CONSTRUCTION OR SYNTHETIC FABRIC (SIMILAR TO SNOW FENCING) PROVIDED IT IS FREE OF BREAKS OR BREACHES. THE FENCING SHALL BE SECURED TO STEEL POSTS SET AT A MAXIMUM SPACING OF 8 FEET.
- Q. THE TRENCHES SHALL BE KEPT FREE OF WATER AT ALL TIMES AND THE TRENCH LIMITS SHALL BE MAINTAINED AS DETAILED BY THE PLANS. THE COST OF ALL Dewatering AS MAY BE NECESSARY SHALL BE SUBSIDIARY TO THE PROJECT.
- R. TRENCHING SHALL BE PERFORMED IN SUCH A MANNER AS TO SAFELY AND EFFECTIVELY LIMIT THE TOP TRENCH WIDTH, MINIMIZING THE VOLUME OF EXCAVATED EARTH, AND PROVIDING THE MAXIMUM PROTECTION TO EXISTING PLANTINGS AND STRUCTURES. THE MAXIMUM LENGTH OF OPEN EXCAVATION ON THIS PROJECT SHALL NOT EXCEED 25 FEET DURING PIPE LAYING OPERATIONS, UNLESS APPROVED BY THE ENGINEER.
- S. CONTRACTOR SHALL MAINTAIN FUNCTIONALITY OF UTILITIES TO EXISTING BUILDING AT ALL TIMES. ALL UTILITY SYSTEMS SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY EQUIPMENT AND/OR FACILITIES TO MAINTAIN FUNCTIONALITY, INCLUDING BYPASS PUMPING. TEMPORARY FACILITIES MUST CONFORM TO ALL APPLICABLE CODES AND STANDARDS.

**GENERAL LAYOUT NOTES:**

- A. CONTRACTOR SHALL VERIFY EXISTING FINISHED FLOOR ELEVATION AT PROPOSED CORRIDOR CONNECTION PRIOR TO COMMENCING ANY WORK AND NOTIFY ENGINEER IF A DISCREPANCY EXISTS.
- B. PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD SPECIFICATIONS AND PLATES. ALL JOINTING LAYOUTS SHALL BE SUBMITTED AS A SHOP DRAWING 7 DAYS PRIOR TO THE PLANNED INSTALLATION OF PAVING.
- C. CURING OF CONCRETE PAVING SHALL BE COMPLETED AS DESCRIBED WITHIN SPECIFICATION SECTION 302023 CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
- D. PAVING DIMENSIONS ARE AS SHOWN ON THE PLANS. ALL DIMENSIONS ARE BACK-OF-CURB TO BACK-OF-CURB OR EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
- E. DROP CURB FOR WHEELCHAIR RAMPS AT LOCATIONS SHOWN ON PLANS IN ACCORDANCE WITH CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD SPECIFICATIONS AND PLATES. DETECTABLE WARNINGS SHALL MATCH EXISTING COLOR THROUGHOUT THE VA CAMBUS.
- F. THE CONTRACTOR SHALL CONSTRUCT ALL PAVEMENTS TO CONFORM WITH THE FINISHED GRADES AS INDICATED ON THE PLANS. NO PONDING OF WATER SHALL BE ALLOWED.
- G. PAVEMENT TESTING SHALL BE DONE IN ACCORDANCE WITH CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD SPECIFICATIONS.
- H. COMPACTED BACKFILL SHALL BE COMPLETED WITHIN 4 TO 7 WORKING DAYS AFTER CURB PLACEMENT.
- I. WATER-REDUCING ADMIXTURE SHALL BE ADDED TO ALL HAND-PLACED AND FINISHED CONCRETE.
- J. A DIAMOND EDGE SAW BLADE SHALL BE USED FOR CUTTING ALL REQUIRED CONTRACTION AND LONGITUDINAL PAVEMENT JOINTS.
- K. ALL 4" PAVEMENT STRIPING SHALL BE PAINTED YELLOW IN COLOR AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- L. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND ASSOCIATED SAFETY MEASURES. TWO-WAY TRAFFIC SHALL BE MAINTAINED ON STREETS AT ALL TIMES.
- M. BUILDING FOOTPRINT SHOWN IS TO THE OUTSIDE OF BUILDING. CONTRACTOR SHALL VERIFY BUILDING FOOTPRINT WITH ARCHITECTURAL PLANS.
- N. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF CONCRETE PAVEMENT JOINTING, SPACING OF JOINTS, LOCATION OF EXPANSION JOINTS, CONTROL JOINTS AND CONTRACTION JOINTS. CONTRACTOR SHALL SUPPLY SHOP DRAWING OF JOINTING PLAN FOR APPROVAL 7 DAYS PRIOR TO THE PLANNED INSTALLATION OF PAVING.
- O. CONSTRUCT STRUCTURAL STOOP AT ALL DOOR LOCATIONS. TOP OF STRUCTURAL STOOP SHALL MATCH SLOPE OF PROPOSED PAVEMENT.

**GENERAL SODDING NOTES:**

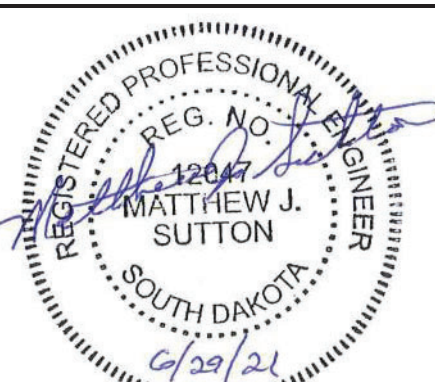
- A. ALL SODDING, INCLUDING FERTILIZING AND EROSION CONTROL, SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATION SECTION 32900 PLANTING.
- B. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS SO THAT THE SITE CAN BE SOODED AS SOON AS POSSIBLE FOLLOWING RE-SPREAD OF TOPSOIL. AREAS DISTURBED BY CONSTRUCTION SHALL BE SOODED. SOD SHALL BE MOWED JUST BEFORE CUTTING AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR.
- C. THE CONTRACTOR SHALL MOW ALL NEW GRASS AREAS THROUGH 3 MOWING CYCLES.

**GENERAL LANDSCAPING NOTES:**

- A. DO NOT BEGIN WORK UNTIL ALL REQUIRED PERMITS ARE IN HAND AND APPROVED DRAWINGS REFLECTING THE REQUIREMENTS OF THE PERMITS ARE PHYSICALLY ON THE JOB SITE. REQUIRED PERMITS SHALL INCLUDE BUT NOT BE LIMITED TO THE LANDSCAPE PERMIT.
- B. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING CONSTRUCTION AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- C. VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CARE SHOULD BE TAKEN NOT TO DISTURB UTILITIES DURING CONSTRUCTION.
- D. ALL WORK PERFORMED ON THIS PROJECT SHALL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES, STANDARDS, ORDINANCES, ETC.
- E. ALL PLANTS TO BE GUARANTEED FOR ONE FULL YEAR AT FULL REPLACEMENT VALUE INCLUDING LABOR.
- F. ALL DEBRIS FROM CONSTRUCTION SHALL BE LAWFULLY DISPOSED OF OFF SITE.
- G. ALL AREAS SEEDED, SOODED OR LANDSCAPED SHALL BE IRRIGATED.
- H. ALL PLANTING AREAS MUST BE FREE OF ALL WEEDS AND DEBRIS BEFORE BEGINNING WORK.
- I. PROVIDE AND INSTALL A LOCALLY AVAILABLE WASHED RIVER ROCK IN ALL LANDSCAPED AREAS. SHAPE EXISTING SOIL LEVELS WITHIN PLANTING BEDS SO THAT THE 2"-3" THICKNESS OF RIVER ROCK DOES NOT EXCEED THE ELEVATION OF THE SIDEWALK, CURB OR NATURALLY DUG EDGING. ALL ROCKED AREAS SHALL BE COVERED WITH A COMMERCIAL GRADE LANDSCAPE FABRIC BEFORE INSTALLING RIVER ROCK.
- J. INSTALL STEEL EDGING PER SPECIFICATIONS.
- K. ALL PLANT MATERIAL SHALL BE OF GOOD QUALITY AND SIZES SHALL MEET REQUIRED SIZES SPECIFIED. ALL PLANTS SHALL BE APPROVED BY THE COR.
- L. ALL GRADING AND BERMING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- M. THE CONTRACTOR SHALL LOCATE, REMOVE, AND CAP ANY EXISTING LAWN IRRIGATION VALVES, HEADS, PIPING, OR OTHER LAWN IRRIGATION APPURTENANCES THAT WILL BE AFFECTED BY CONSTRUCTION. THE CONTRACTOR SHALL CONSTRUCT ANY NEW PIPING, VALVES, OR ANY OTHER EQUIPMENT NECESSARY TO MAINTAIN THE EXISTING FUNCTIONALITY OF THE LAWN SPRINKLER SYSTEM TO REMAIN. THE CONTRACTOR SHALL ALSO ADJUST ANY EXISTING SPRINKLER HEADS TO PREVENT WATER FROM BEING THROWN AT BUILDINGS OR PAVED AREAS. AS-BUILTS AND OPERATING INSTRUCTIONS OF THE NEW SYSTEM SHALL BE SUBMITTED AFTER INSTALLATION AND VERIFICATION OF PROPER OPERATION.

**CONSULTANTS:**

**ARCHITECT/ENGINEERS:**



**SCHEMMER**  
Design with Purpose. Build with Confidence.

TSA PROJECT NO.: 06054.034

Drawing Title  
**SITE SPECIFICATIONS & GENERAL NOTES**

Approved:

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIOUX FALLS, SD**

Date  
06/30/2021

Checked  
MS

Drawn  
DJK

Project Number  
438-420

Building Number  
54

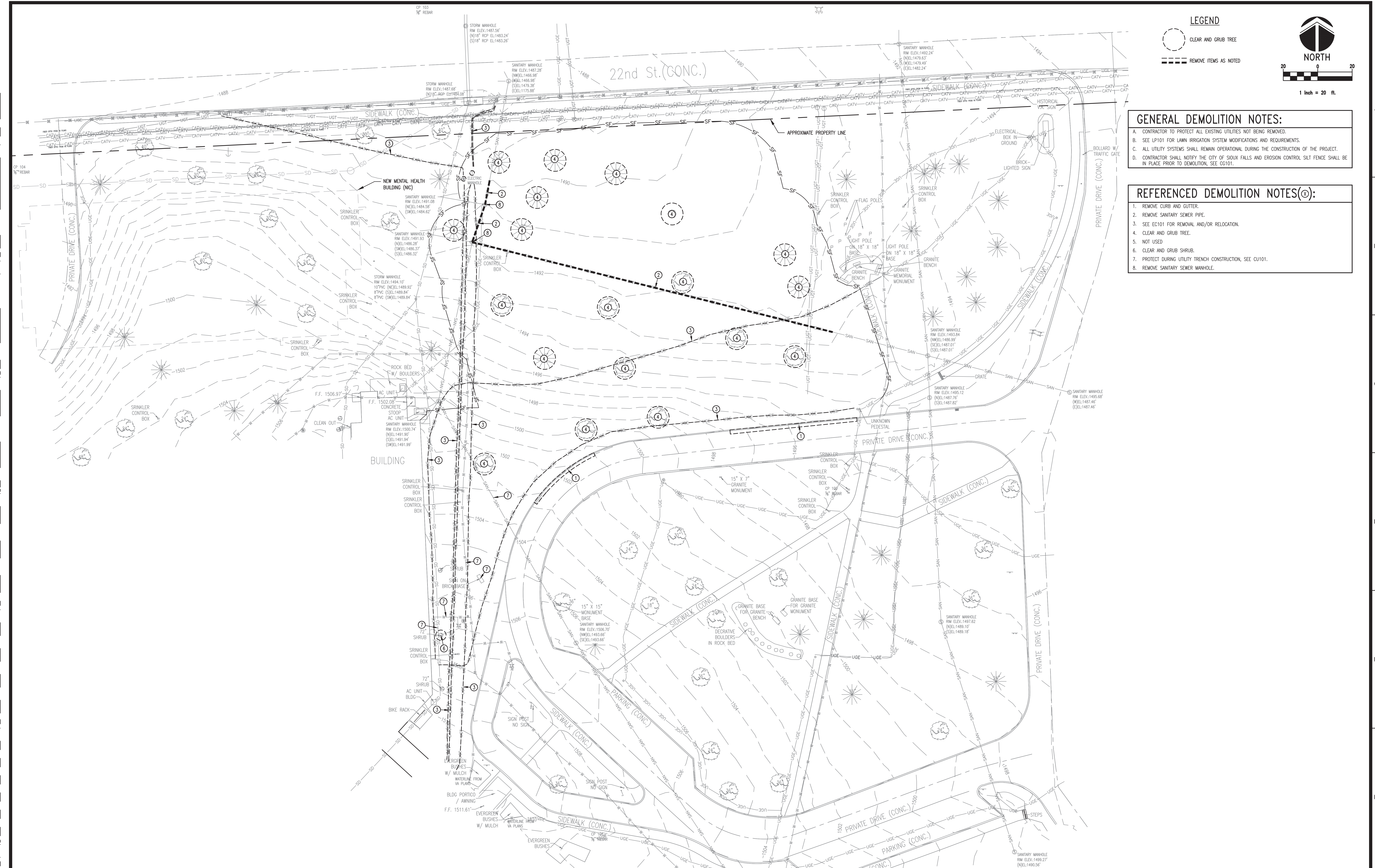
Drawing Number  
CD101

Dwg. 4 of 90

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Construction  
and Facilities  
Management







**LEGEND**

○ CLEAR AND GRUB TREE

--- REMOVE ITEMS AS NOTED

**NORTH**

1 inch = 20 ft.

**GENERAL DEMOLITION NOTES:**

- CONTRACTOR TO PROTECT ALL EXISTING UTILITIES NOT BEING REMOVED.
- SEE LP101 FOR LAWN IRRIGATION SYSTEM MODIFICATIONS AND REQUIREMENTS.
- ALL UTILITY SYSTEMS SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION OF THE PROJECT.
- CONTRACTOR SHALL NOTIFY THE CITY OF SIOUX FALLS AND EROSION CONTROL SILT FENCE SHALL BE IN PLACE PRIOR TO DEMOLITION, SEE CU101.

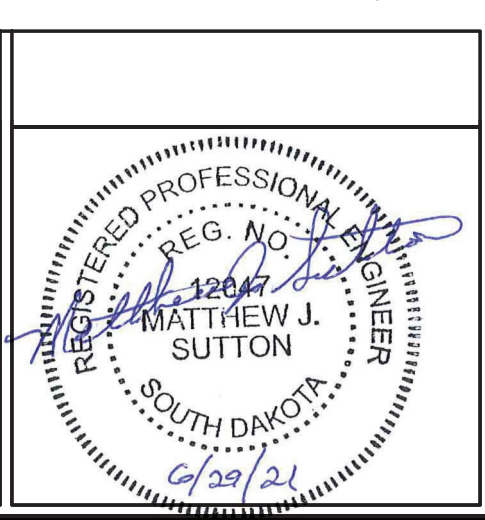
**REFERENCED DEMOLITION NOTES(2):**

- REMOVE CURB AND GUTTER.
- REMOVE SANITARY SEWER PIPE.
- SEE EC101 FOR REMOVAL AND/OR RELOCATION.
- CLEAR AND GRUB TREE.
- NOT USED.
- CLEAR AND GRUB SHRUB.
- PROTECT DURING UTILITY TRENCH CONSTRUCTION, SEE CU101.
- REMOVE SANITARY SEWER MANHOLE.



Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**SCHEMMER**

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TSA PROJECT NO. 06054.034

Drawing Title  
**SITE DEMOLITION PLAN**

Approved: \_\_\_\_\_

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIOUX FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Project Number  
438-420

Building Number  
54

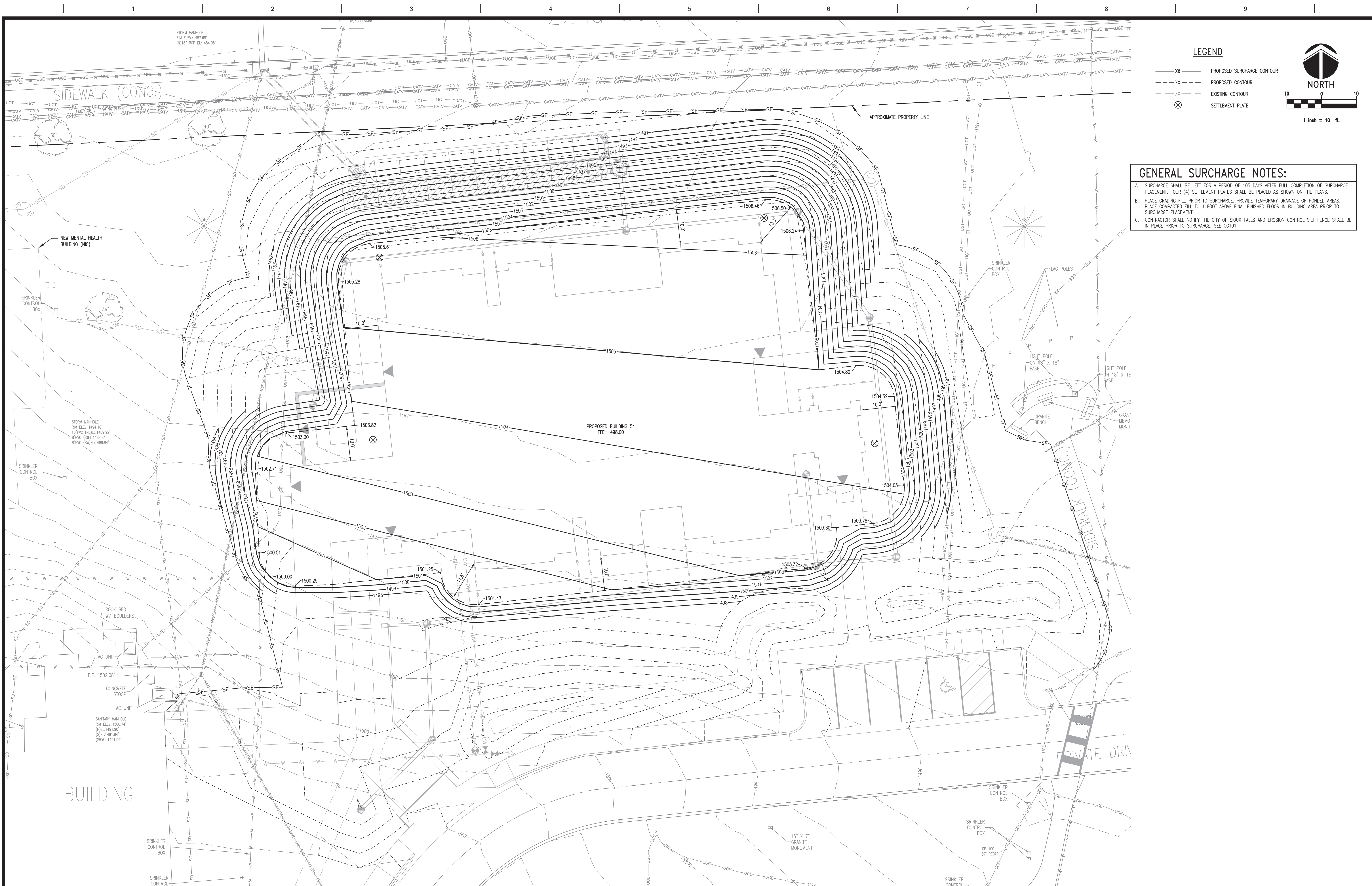
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CD102

Dwg. 5 of 90

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Management

Department of  
Veterans Affairs





**LEGEND**

- XX — PROPOSED SURCHARGE CONTOUR
- - - - - PROPOSED CONTOUR
- — — — — EXISTING CONTOUR
- ⊗ SETTLEMENT PLATE

**NORTH**

10 0 10

1 inch = 10 ft.

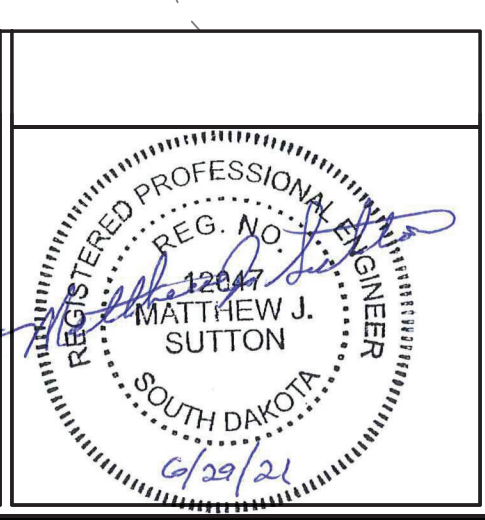
**GENERAL SURCHARGE NOTES:**

- A. SURCHARGE SHALL BE LEFT FOR A PERIOD OF 105 DAYS AFTER FULL COMPLETION OF SURCHARGE PLACEMENT. FOUR (4) SETTLEMENT PLATES SHALL BE PLACED AS SHOWN ON THE PLANS.
- B. PLACE GRADING FILL PRIOR TO SURCHARGE. PROVIDE TEMPORARY DRAINAGE OF PONDED AREAS. PLACE COMPACTED FILL TO 1 FOOT ABOVE FINAL FINISHED FLOOR IN BUILDING AREA PRIOR TO SURCHARGE PLACEMENT.
- C. CONTRACTOR SHALL NOTIFY THE CITY OF SIOUX FALLS AND EROSION CONTROL SILT FENCE SHALL BE IN PLACE PRIOR TO SURCHARGE. SEE CS101.

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**SCHEMMER**

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TSA PROJECT NO. 06054.034

Drawing Title  
**SITE SURCHARGE PLAN**

Approved:

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIOUX FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Project Number  
438-420

Building Number  
54

Drawing Number  
CD103

Dwg. 6 of 90

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LEGEND

- XX PROPOSED CONTOUR
- XX EXISTING CONTOUR
- PROPOSED STORM SEWER
- SF SILT FENCE
- INLET PROTECTION
- ROOF DRAIN PIPING



1 inch = 20 ft.

REFERENCED CONSTRUCTION NOTES:

1. PROVIDE, INSTALL AND MAINTAIN SILT FENCE PER CITY OF SIOUX FALLS STANDARD PLATE 734.09.
2. NOT USED.
3. PROTECT EXISTING SANITARY PIPE TO REMAIN DURING CORRIDOR CONSTRUCTION. ENCASE EXISTING PIPE WITH STEEL PIPING TO A POINT 5' MINIMUM OUTSIDE OF CORRIDOR PER CITY OF SIOUX FALLS STANDARD PLATE 950.16.
4. UNDERGROUND STORMWATER STORAGE. SEE CG104 FOR ADDITIONAL INFORMATION.
5. CONNECT DOWNSPOUT TO PROPOSED STORM SEWER SYSTEM, SEE 4/CS101.
6. CONSTRUCT ACO S300K POWERDRAIN WITH LOAD CLASS E DUCTILE IRON LONGITUDINAL GRATE AND SK3-903D CATCH BASIN OR APPROVED EQUAL. PIPE TO PROPOSED DRAIN BASIN.
7. PROVIDE, INSTALL AND MAINTAIN INLET PROTECTION PER CITY OF SIOUX FALLS STANDARD PLATE 734.16.
8. CONNECT DOWNSPOUT TO EXISTING STORM SEWER PIPE WITH INSERTA TEE OR WYE FITTING.
9. PROTECT EXISTING STORM PIPE TO REMAIN DURING CORRIDOR CONSTRUCTION. ENCASE EXISTING PIPE WITH STEEL PIPING TO A POINT 5' MINIMUM OUTSIDE OF CORRIDOR.
10. PROVIDE, INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE PER CITY OF SIOUX FALLS STANDARD PLATE 734.02. CONTRACTOR SHALL VERIFY LOCATION WITH OWNER PRIOR TO CONSTRUCTION.
11. PROVIDE, INSTALL AND MAINTAIN INLET PROTECTION PER CITY OF SIOUX FALLS STANDARD PLATE 734.17.
12. PROTECT EXISTING WATER LINE TO REMAIN DURING CORRIDOR CONSTRUCTION. ENCASE EXISTING PIPE WITH STEEL PIPING TO A POINT 5' MINIMUM OUTSIDE OF CORRIDOR PER CITY OF SIOUX FALLS STANDARD PLATE 900.09.
13. CONTRACTOR SHALL FIELD VERIFY ELEVATION OF EXISTING STORM SEWER PIPING PRIOR TO CONSTRUCTION OF UTILITY TRENCH. IF A CONFLICT EXISTS, NOTIFY VA COR FOR ADJUSTMENTS TO STORM SEWER PIPING.

STORM SEWER STRUCTURE TABLE:

STRUCTURE NAME	TYPE	DETAILS	LOCATION
1	TYPE I JUNCTION BOX PER CITY OF SIOUX FALLS STANDARD PLATE 460.05 WITH 24" SUMP	RIM: 1493.31 I.E. 12": 1489.00 (S) I.E. 12": 1488.42 (N) I.E. 24": 1486.17 (W)	N: 457635.38 E: 2916845.66
2	PVC MANHOLE, SEE 3/CS101	RIM: 1497.73 I.E. 12": 1489.94 (W) I.E. 12": 1489.94 (E) I.E. 12": 1489.84 (N)	N: 457617.46 E: 2916847.61
3	PVC MANHOLE, SEE 3/CS101	RIM: 1496.92 I.E. 12": 1490.54 (SE) I.E. 12": 1490.44 (W)	N: 457622.84 E: 2916897.05
4	PVC MANHOLE, SEE 3/CS101	RIM: 1496.47 I.E. 12": 1491.01 (S) I.E. 12": 1490.91 (NW)	N: 457592.43 E: 2916917.69
5	PVC MANHOLE, SEE 3/CS101	RIM: 1497.44 I.E. 12": 1491.80 (W) I.E. 12": 1491.70 (N)	N: 457523.53 E: 2916925.33
6	PVC DRAIN BASIN, SEE 3/CS101	RIM: 1496.81 I.E. 12": 1492.13 (W) I.E. 12": 1493.31 (N) I.E. 12": 1492.03 (E)	N: 457520.97 E: 2916902.31
7	PVC DRAIN BASIN, SEE 3/CS101	RIM: 1496.85 I.E. 12": 1493.45 (S) I.E. 8": 1493.45 (W) I.E. 12": 1493.35 (E)	N: 457504.29 E: 2916790.25
8	PVC MANHOLE, SEE 3/CS101	RIM: 1499.95 I.E. 12": 1495.17 (SW) I.E. 12": 1495.07 (N)	N: 457470.89 E: 2916791.74
8A	PVC DRAIN BASIN, SEE 3/CS101	RIM: 1498.96 I.E. 12": 1495.46 (NE)	N: 457450.85 E: 2916771.33
9	PVC DRAIN BASIN, SEE 3/CS101	RIM: 1497.75 I.E. 12": 1494.25 (S)	N: 457547.24 E: 2916899.40
10	PVC MANHOLE, SEE 3/CS101	RIM: 1497.33 I.E. 12": 1490.85 (S) I.E. 12": 1490.75 (E)	N: 457608.64 E: 2916766.82
11	OUTLET STRUCTURE, SEE 1/CS102	RIM: 1491.56 I.E. 18": 1484.90 (NW) I.E. 12": 1486.11 (E)	N: 457633.96 E: 2916770.11
12	SK3-903D CATCH BASIN	RIM: 1497.11 I.E. 8": 1493.97 (E)	N: 457503.80 E: 2916779.14
13	PVC DRAIN BASIN, SEE 3/CS101	RIM: 1497.77 I.E. 12": 1491.28 (N)	N: 457567.14 E: 2916757.51

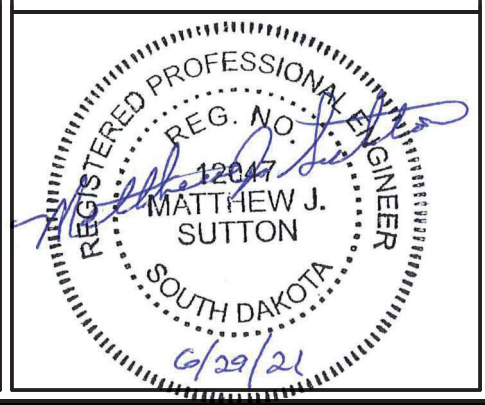
STORM SEWER PIPE TABLE:

NAME	SIZE	LENGTH	SLOPE
1	12"	18.02'	4.66%
2	12"	49.73'	1.00%
3	12"	36.76'	1.00%
4	12"	69.32'	1.00%
5	12"	23.16'	1.00%
6	12"	113.30'	1.07%
7	12"	33.43'	4.85%
8	12"	28.61'	1.00%
9	12"	26.43'	3.56%
10	12"	81.28'	1.00%
11	18"	40.04'	1.75%
12	8"	11.12'	4.67%
13	12"	42.53'	1.00%

CONSULTANTS:

ARCHITECT/ENGINEERS:

**SCHEMMER**  
Design with Purpose. Build with Confidence.



Drawing Title  
**SITE EROSION CONTROL, GRADING & STORM SEWER PLAN**

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Project Number  
438-420

Building Number  
54

Approved:

Location  
**SIOUX FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Drawing Number  
**CG101**

Dwg. 7 of 90

Office of  
Construction  
and Facilities  
Management

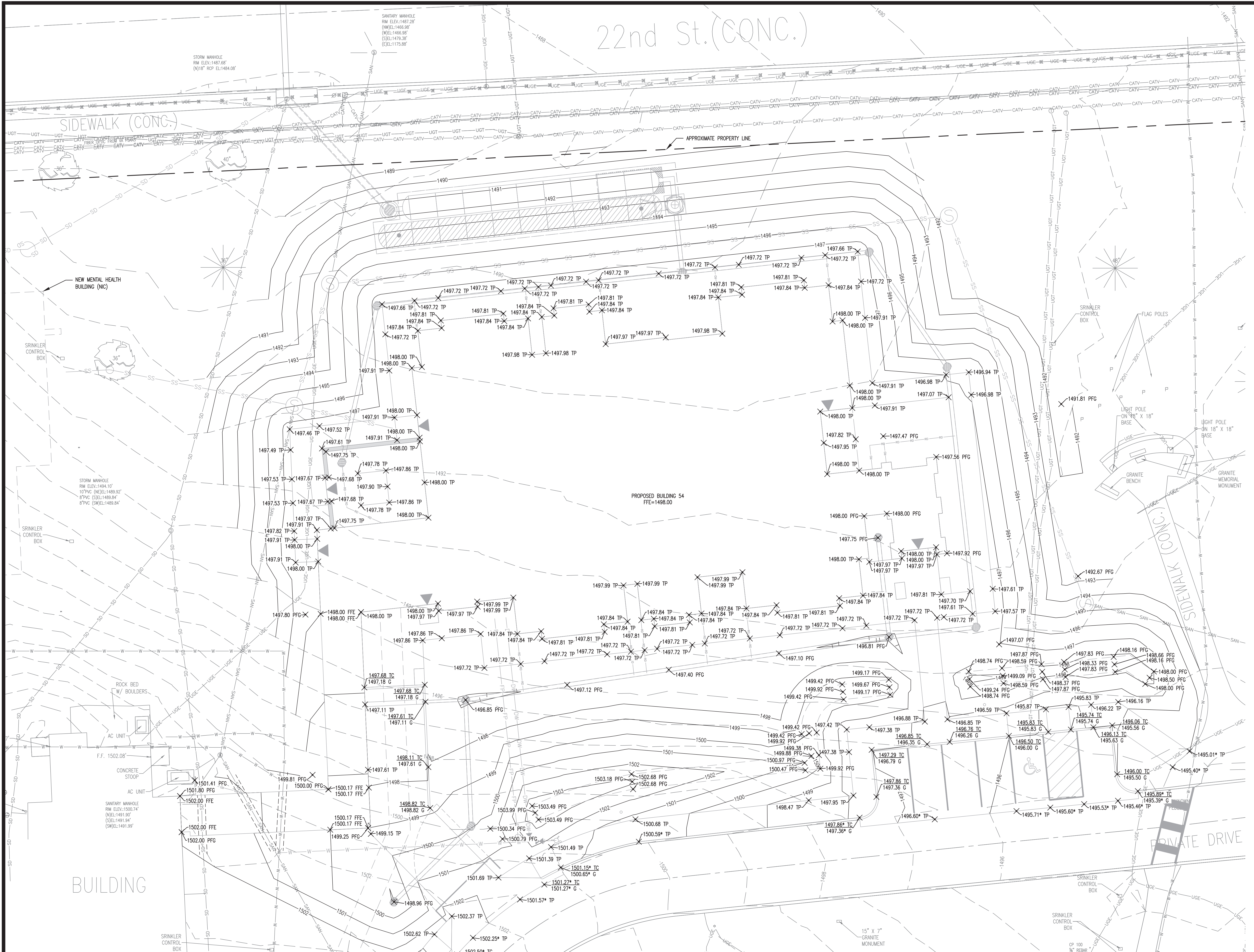
Department of  
Veterans Affairs

three eighths inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



**LEGEND**

- XX — PROPOSED CONTOUR
- - - - - EXISTING CONTOUR
- TC TOP OF CURB ELEVATION
- G GUTTER ELEVATION
- TP TOP OF PAVEMENT ELEVATION
- PFG FINISH GRADE ELEVATION
- FIELD VERIFY EXISTING ELEVATION



three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot

**CONSULTANTS:**

Name	Date

**ARCHITECT/ENGINEERS:**

<b>SCHEMMER</b> Design with Purpose. Build with Confidence. <small>TSA PROJECT NO. 06054.034</small>	

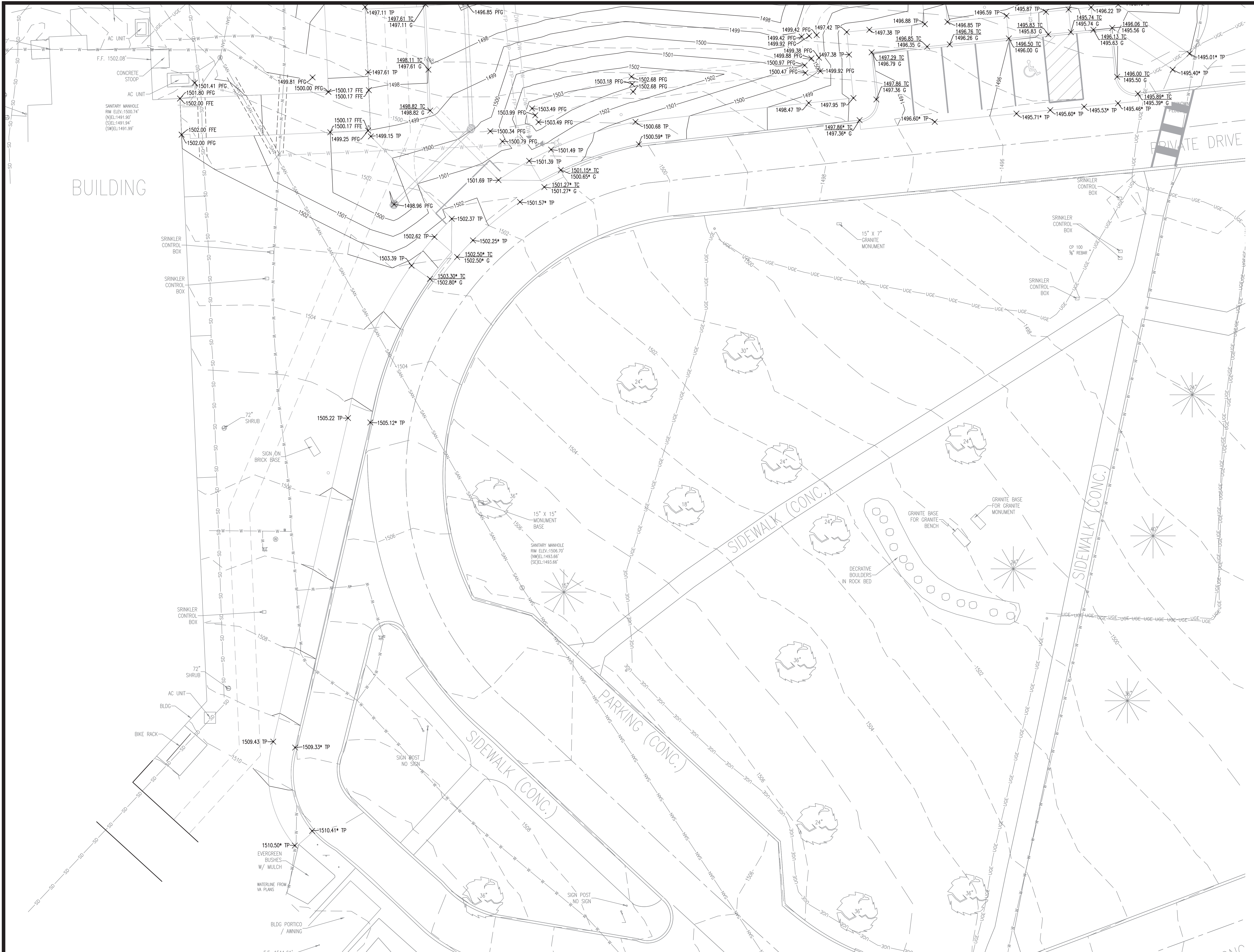
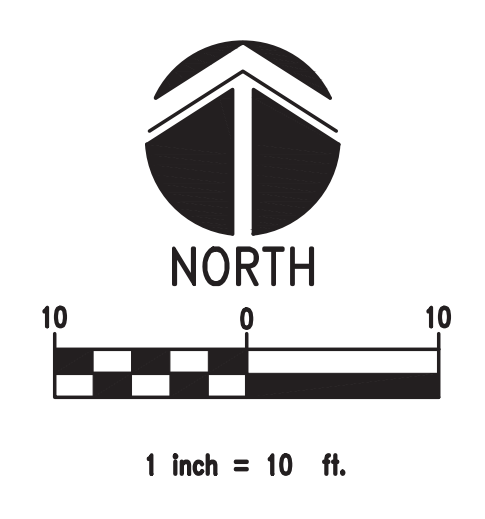
Drawing Title <b>SPOT ELEVATION PLAN</b>	
Approved: _____	

Project Title <b>CONSTRUCT CLC COTTAGE - HOSPICE</b>		Project Number 438-420
Location <b>SIOUX FALLS, SD</b>		Building Number 54
Date 06/30/2021	Checked MJS	Drawn DJK
Drawing Number <b>CG102</b>		Dwg. # of 90

**Office of  
Construction  
and Facilities  
Management**



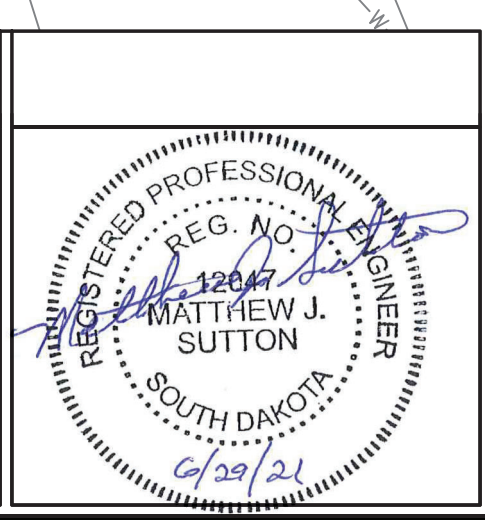
- LEGEND**
- XX PROPOSED CONTOUR
  - XX EXISTING CONTOUR
  - TC TOP OF CURB ELEVATION
  - G GUTTER ELEVATION
  - TP TOP OF PAVEMENT ELEVATION
  - PFG FINISH GRADE ELEVATION
  - TW TOP OF WALL ELEVATION
  - BW BOTTOM OF WALL ELEVATION
  - FIELD VERIFY EXISTING ELEVATION



three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**SCHEMMER**

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TSA PROJECT NO.: 06054.034

Drawing Title  
**SPOT ELEVATION PLAN**

Approved: \_\_\_\_\_

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIoux FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Project Number  
438-420

Building Number  
54

Drawing Number  
**CG103**

Dwg. 9 of 90

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Construction  
and Facilities  
Management

Department of  
Veterans Affairs



**MC-3500 STORMTECH CHAMBER SPECIFICATIONS**

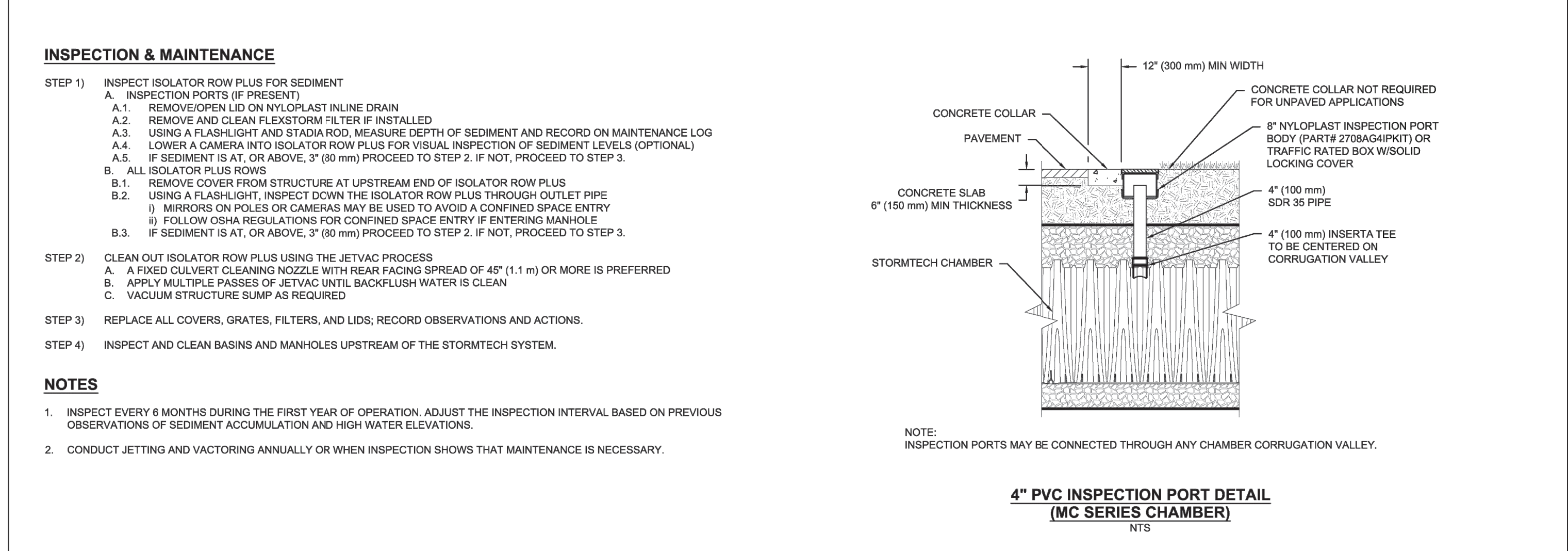
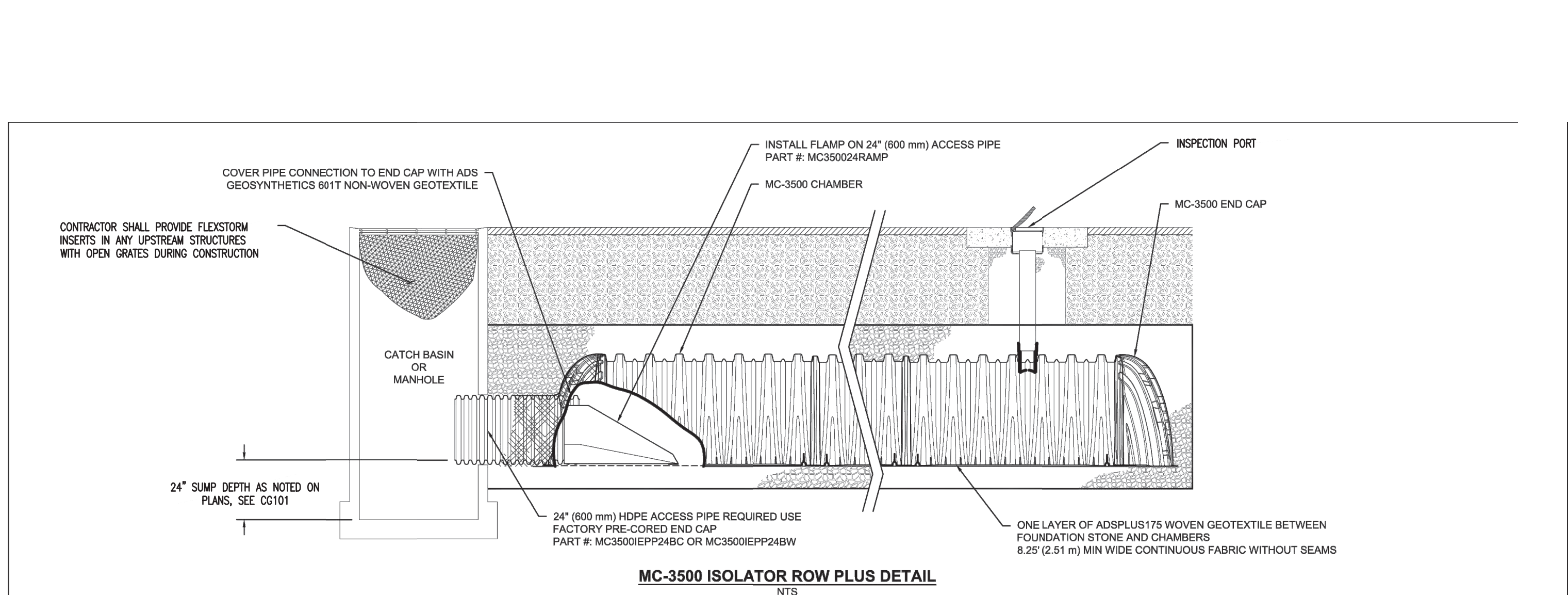
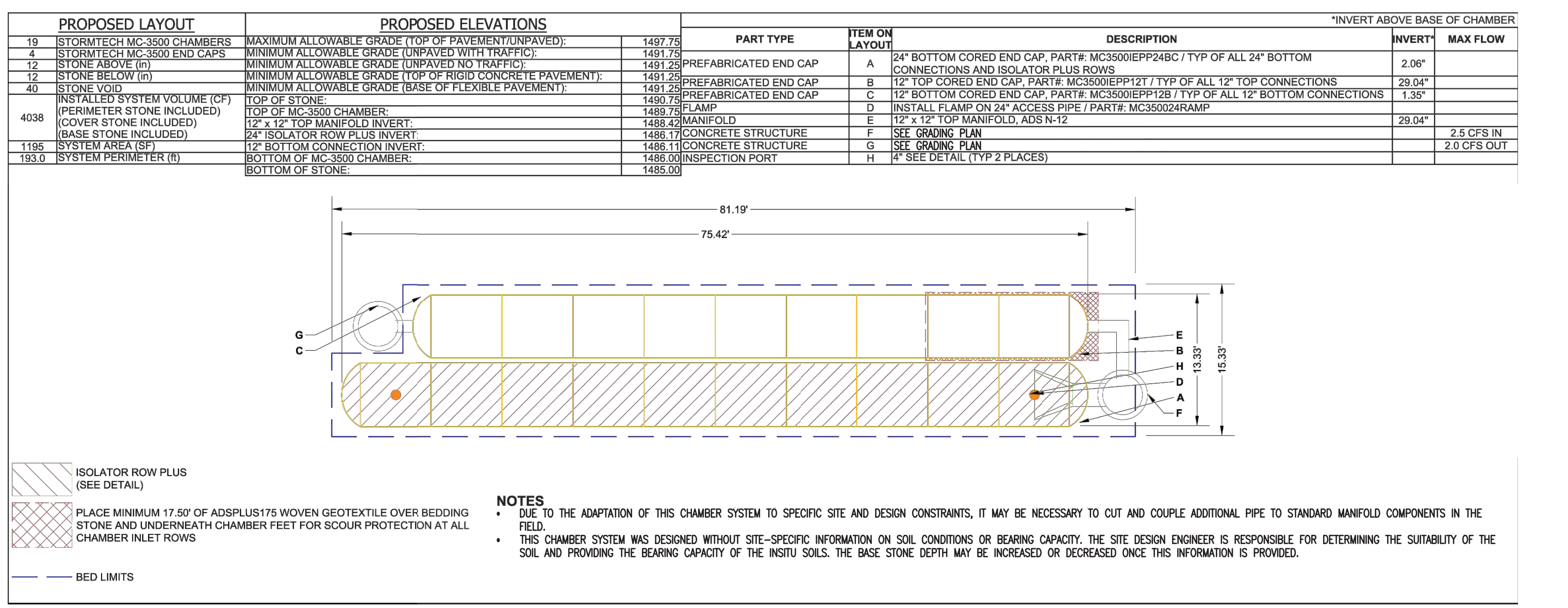
- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBTURATED INTERNAL SPACE WITH NO INTERNAL STRUCTURES THAT WOULD IMPED FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, (a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN, AND (b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73°F/23°C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.85 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

**IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM**

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONES/ROCKS LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 1" (25 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

**NOTES FOR CONSTRUCTION EQUIPMENT**

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
    - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
    - NO RUBBER TREAD LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNLESS PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
    - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - FULL 3/8" (9.5 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

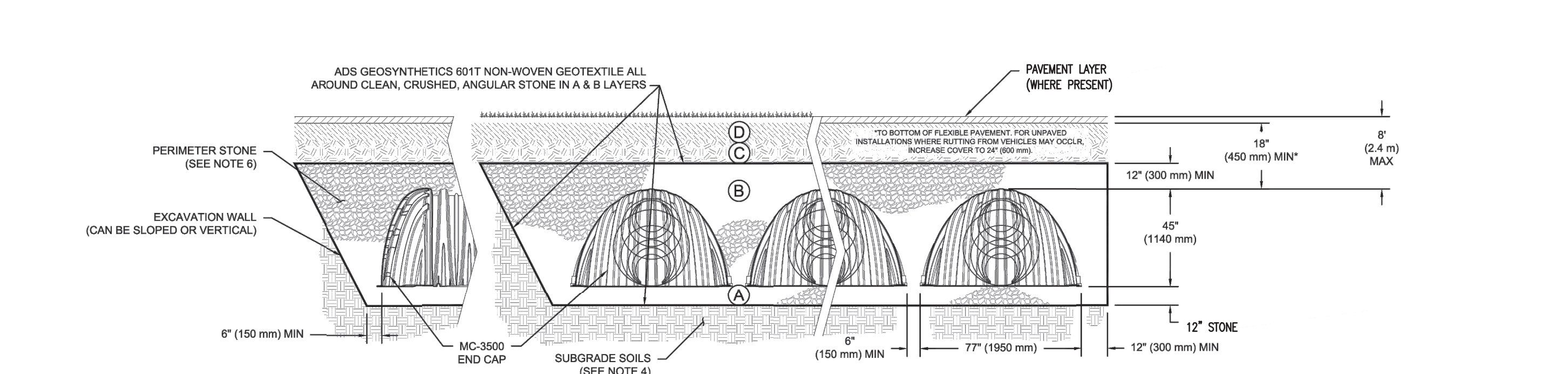


**ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS**

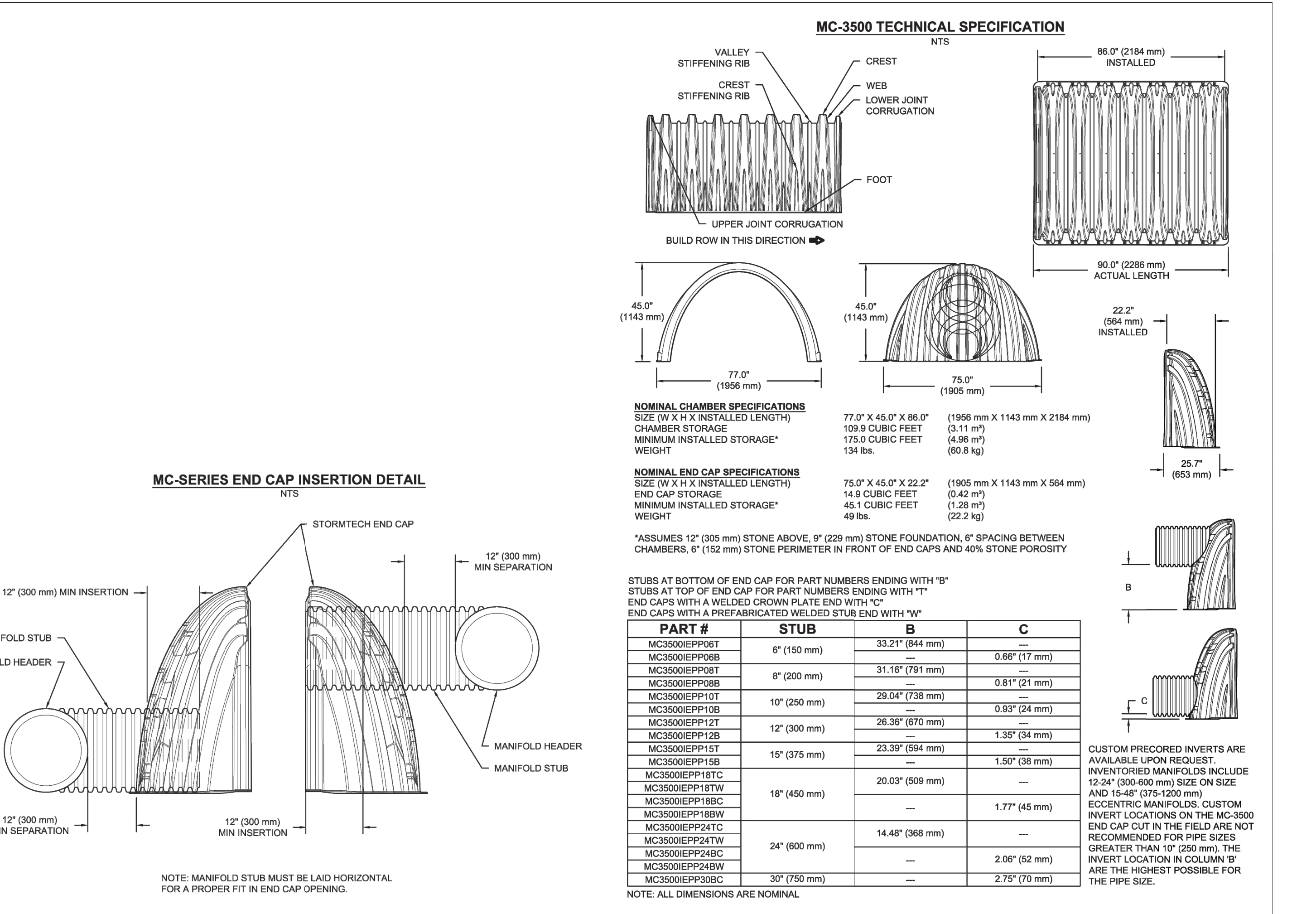
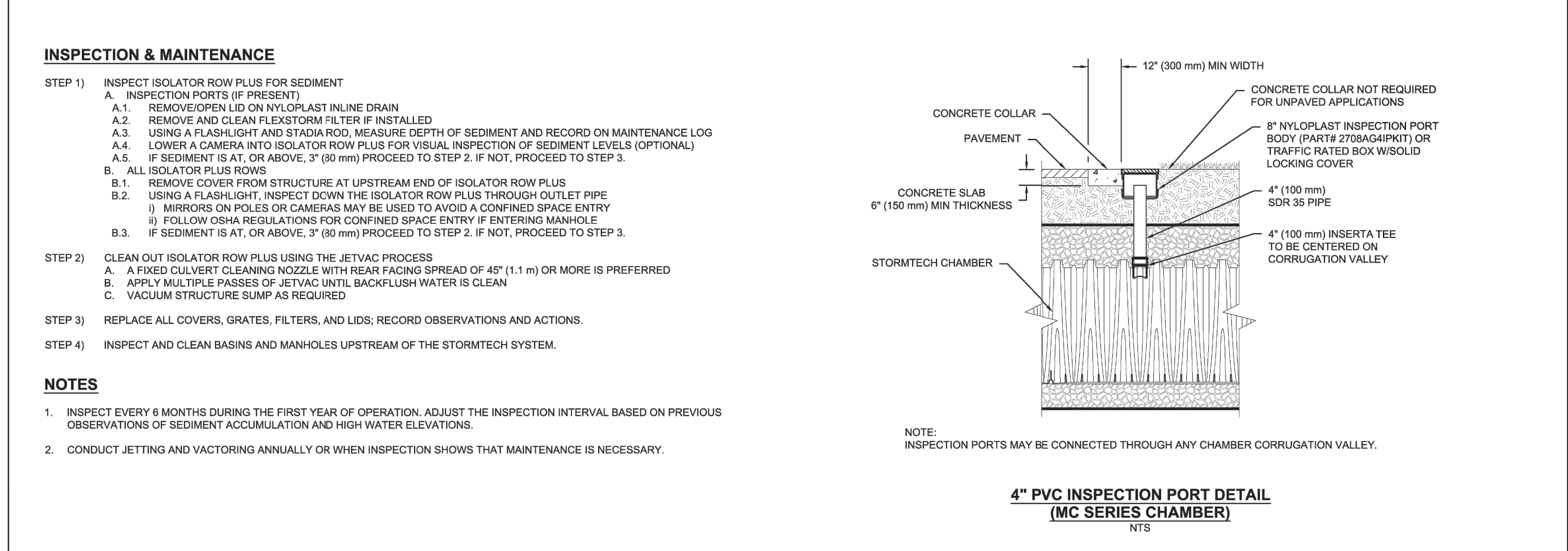
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT/SUBGRADE REQUIREMENTS.	N/A PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (7\"/>		

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6\"/>



- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
  - MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
  - REQUIREMENTS FOR HANDLING AND INSTALLATION:
    - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
    - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
    - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, (a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN, AND (b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73°F/23°C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.



**CONSULTANTS:**

**ARCHITECT/ENGINEERS:**

**SCHEMMER**  
Design with Purpose. Build with Confidence.

TS&A PROJECT NO.: 0654.034

Drawing Title: UNDERGROUND STORMWATER STORAGE

Project Title: CONSTRUCT CLC COTTAGE - HOSPICE

Location: SIOUX FALLS, SD

Date: 06/30/2021

Checked: MJS

Drawn: DJK

Project Number: 438-420

Building Number: 54

Drawing Number: CG104

Dwg. 10 of 90

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

1

2

3

4

5

6



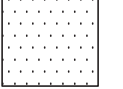
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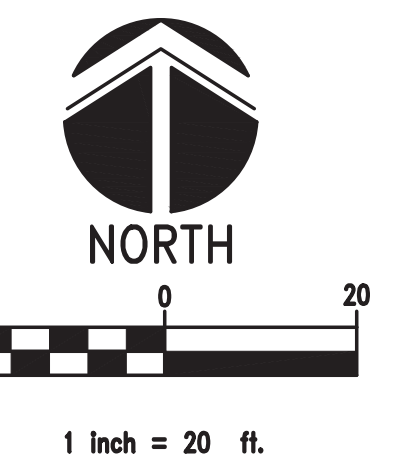
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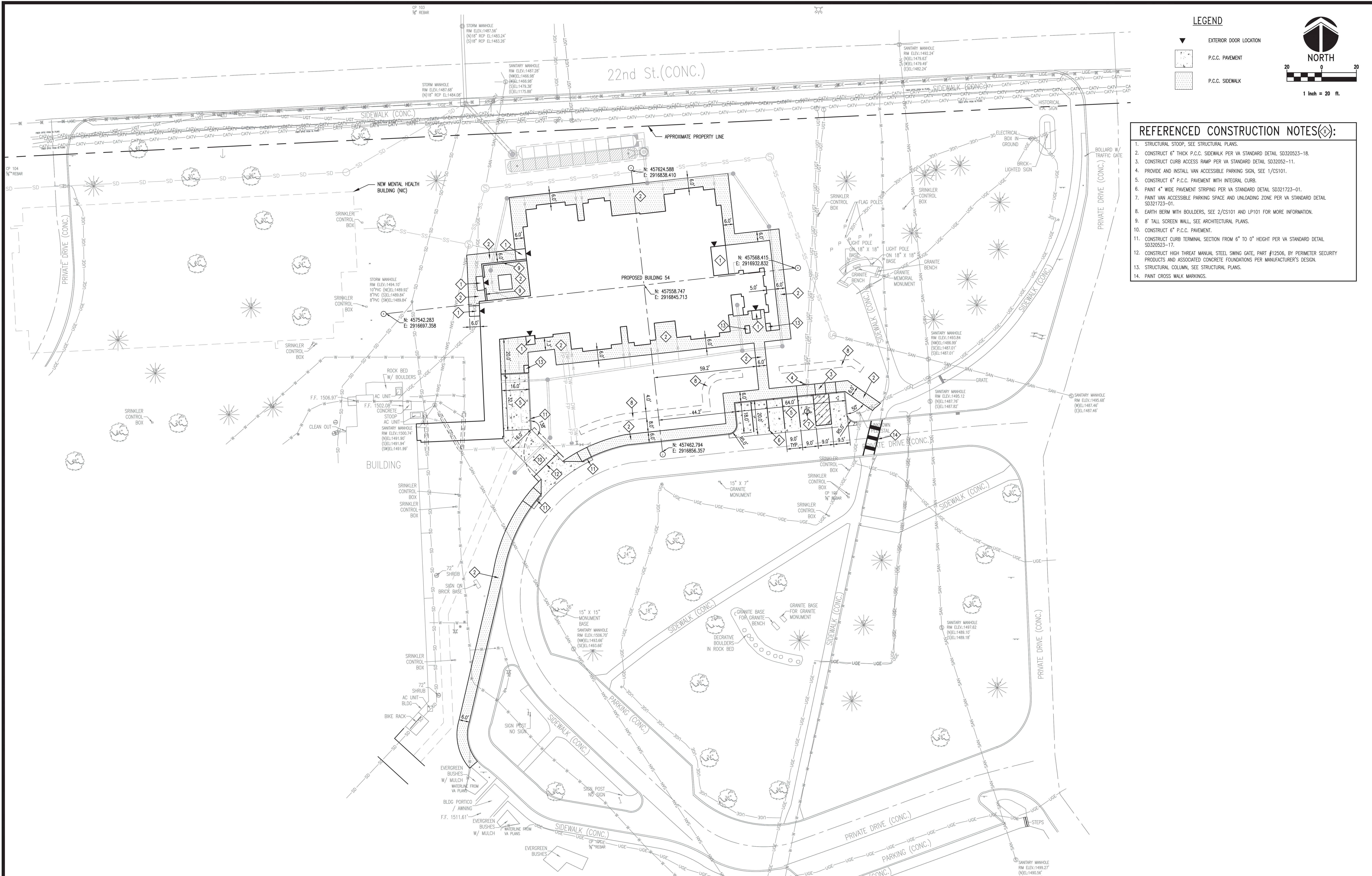
**LEGEND**

-  EXTERIOR DOOR LOCATION
-  P.C.C. PAVEMENT
-  P.C.C. SIDEWALK



**REFERENCED CONSTRUCTION NOTES:**

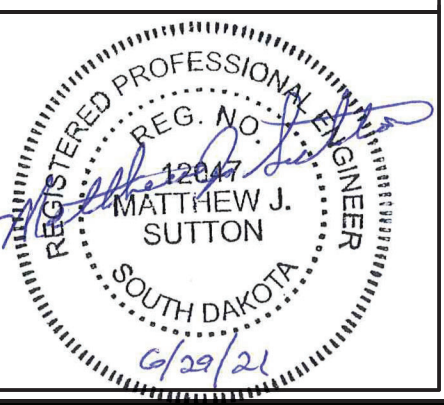
1. STRUCTURAL STOOP, SEE STRUCTURAL PLANS.
2. CONSTRUCT 6" THICK P.C.C. SIDEWALK PER VA STANDARD DETAIL SD320523-18.
3. CONSTRUCT CURB ACCESS RAMP PER VA STANDARD DETAIL SD32052-11.
4. PROVIDE AND INSTALL VAN ACCESSIBLE PARKING SIGN, SEE 1/CS101.
5. CONSTRUCT 6" P.C.C. PAVEMENT WITH INTEGRAL CURB.
6. PAINT 4" WIDE PAVEMENT STRIPING PER VA STANDARD DETAIL SD321723-01.
7. PAINT VAN ACCESSIBLE PARKING SPACE AND UNLOADING ZONE PER VA STANDARD DETAIL SD321723-01.
8. EARTH BERM WITH BOULDERS, SEE 2/CS101 AND LP101 FOR MORE INFORMATION.
9. 8' TALL SCREEN WALL, SEE ARCHITECTURAL PLANS.
10. CONSTRUCT 6" P.C.C. PAVEMENT.
11. CONSTRUCT CURB TERMINAL SECTION FROM 6" TO 0" HEIGHT PER VA STANDARD DETAIL SD320523-17.
12. CONSTRUCT HIGH THREAT MANUAL STEEL SWING GATE, PART #12506, BY PERIMETER SECURITY PRODUCTS AND ASSOCIATED CONCRETE FOUNDATIONS PER MANUFACTURER'S DESIGN.
13. STRUCTURAL COLUMN, SEE STRUCTURAL PLANS.
14. PAINT CROSS WALK MARKINGS.



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 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot

Revisions:	Date:

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**SCHEMMER**

*Design with Purpose. Build with Confidence.*

TSA PROJECT NO. 06054.034

Drawing Title  
**SITE LAYOUT & PAVING PLAN**

Approved: \_\_\_\_\_

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIoux FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Project Number  
438-420

Building Number  
54

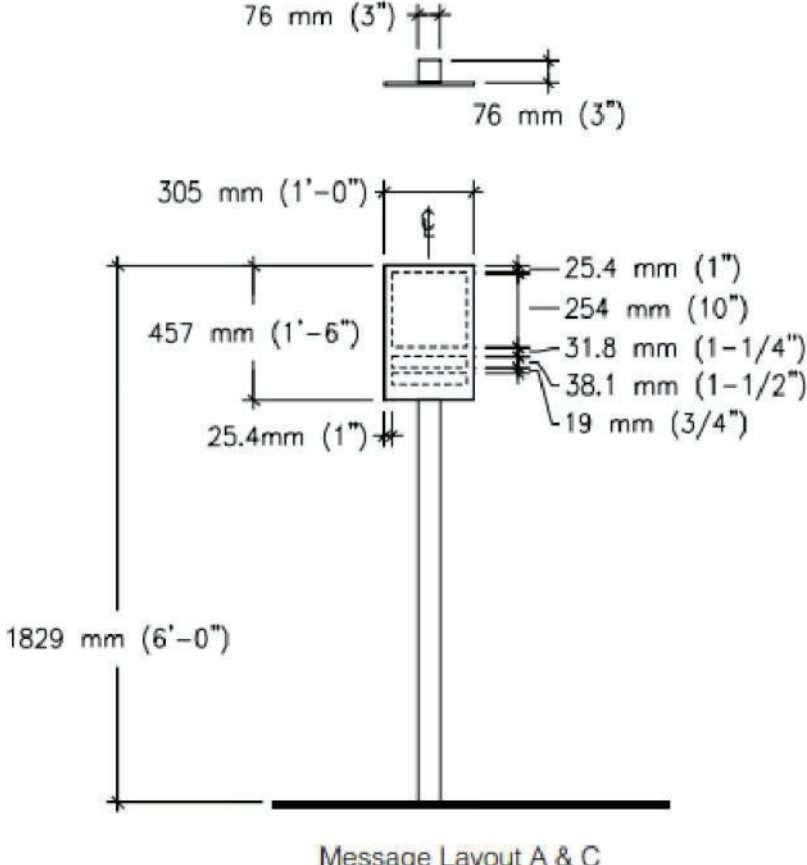
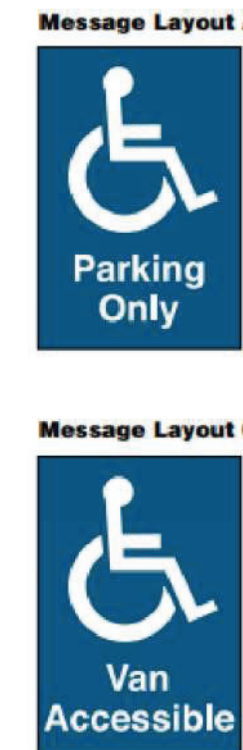
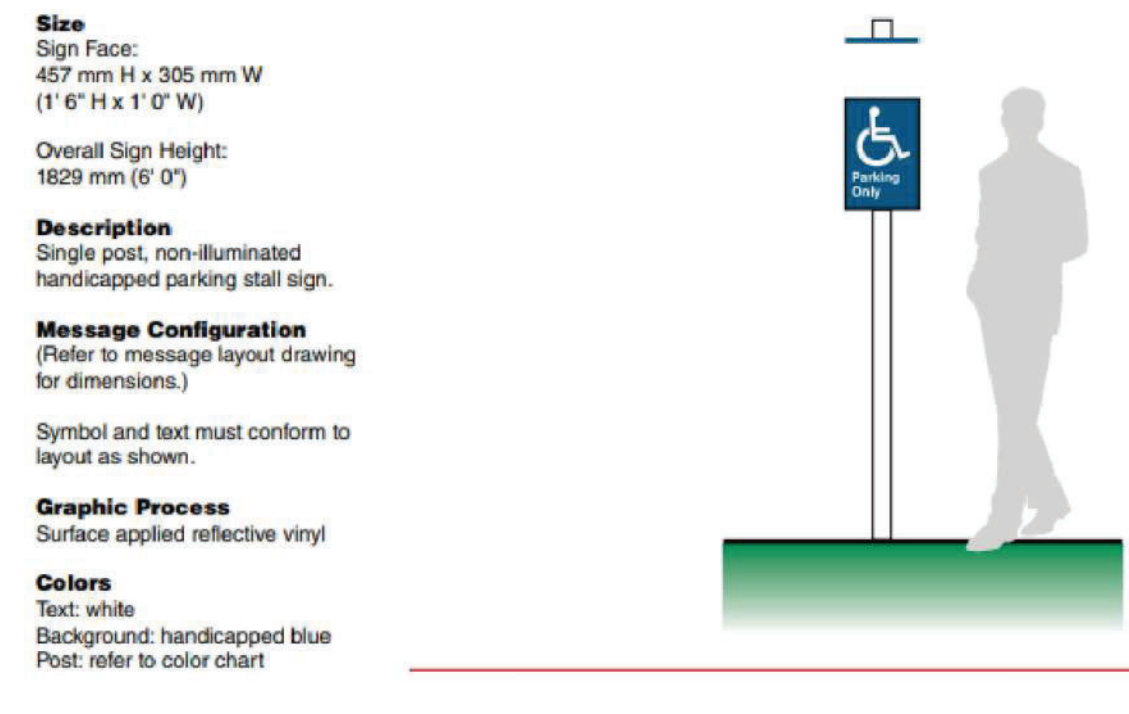
Drawing Number  
CP101

Dwg. 11 of 90

Office of  
Construction  
and Facilities  
Management

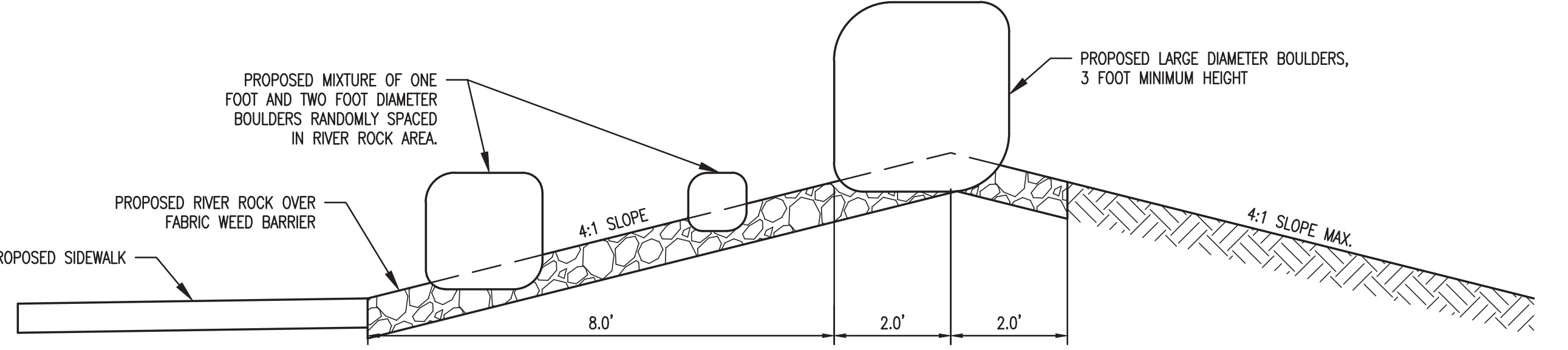
Department of  
Veterans Affairs



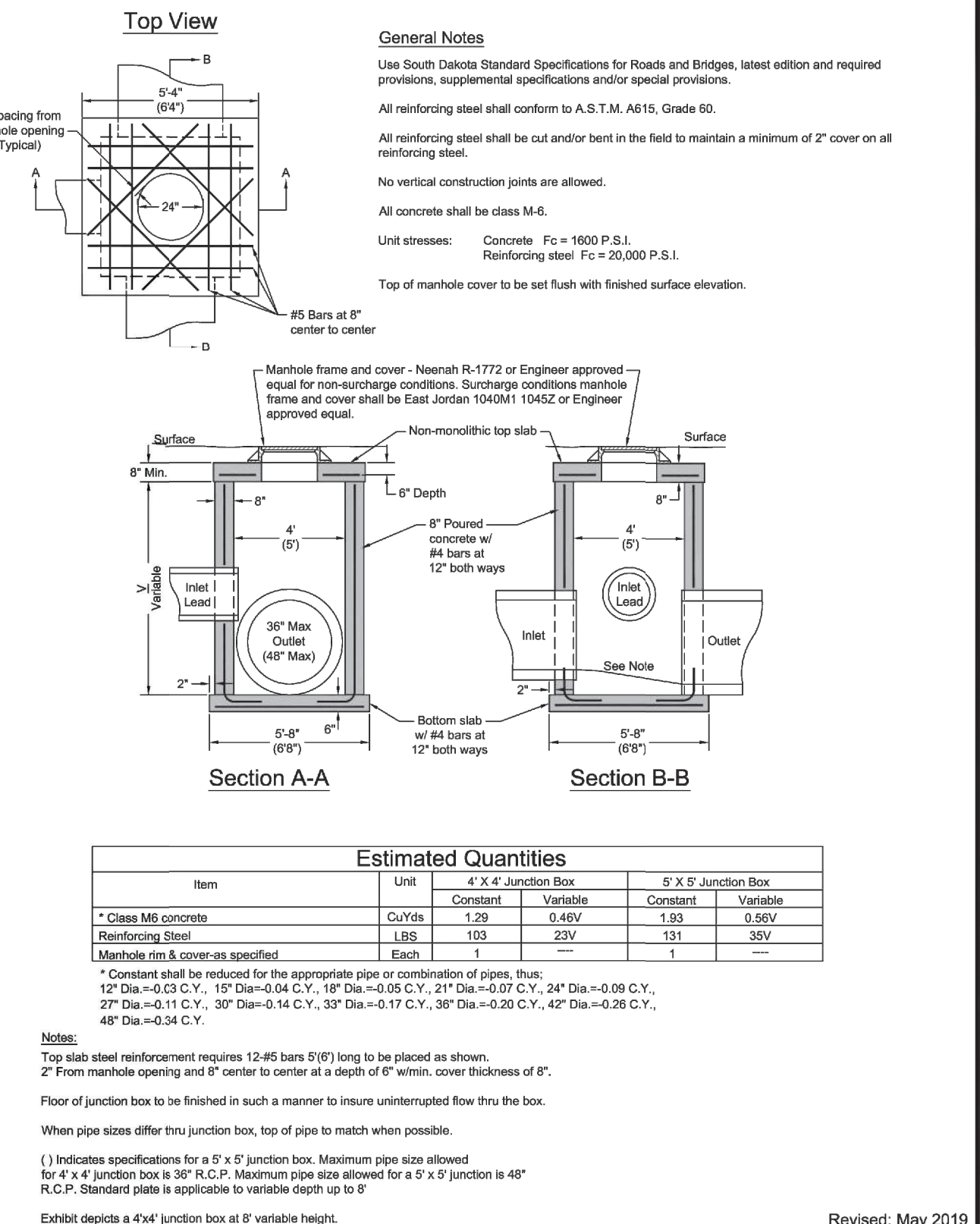
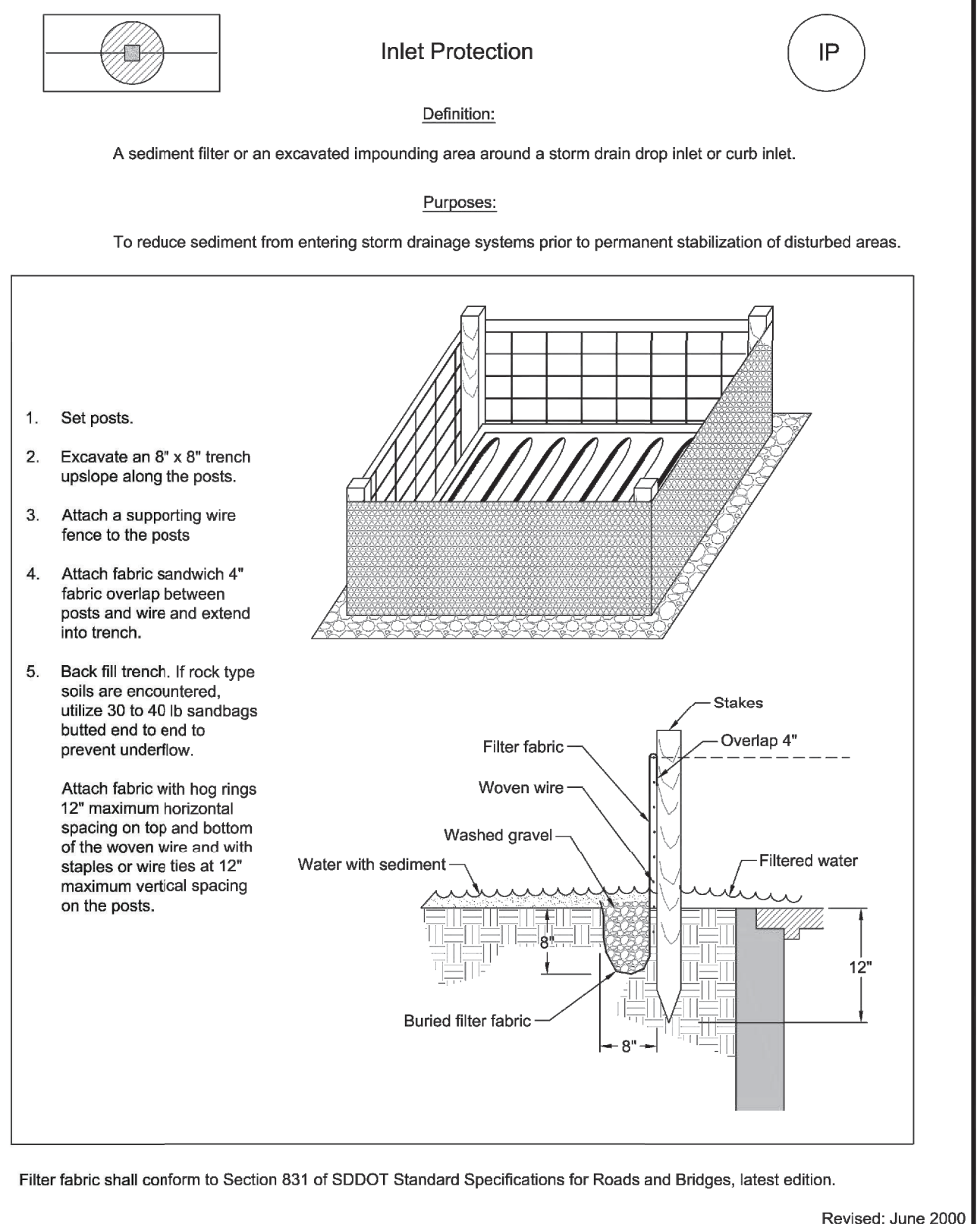
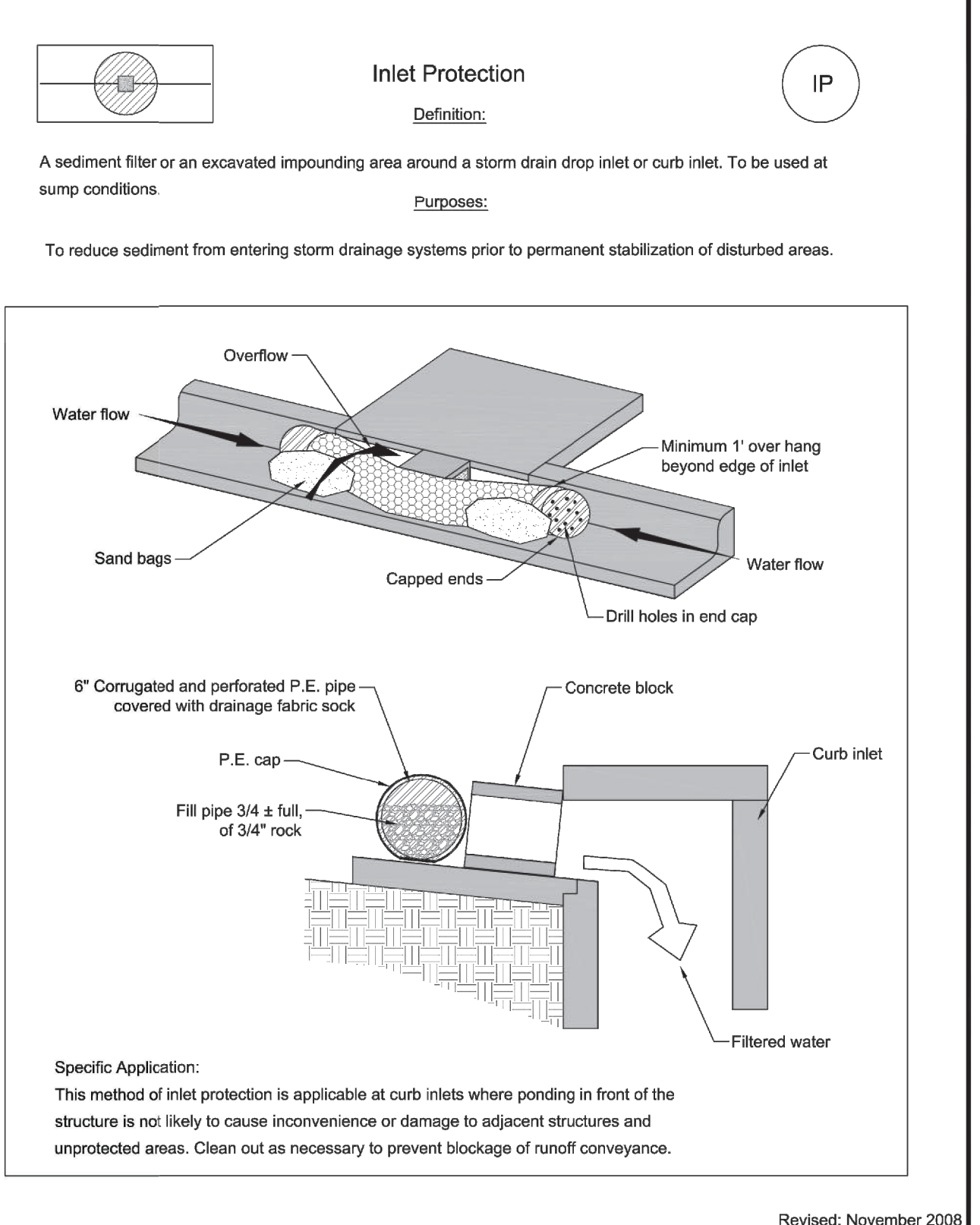
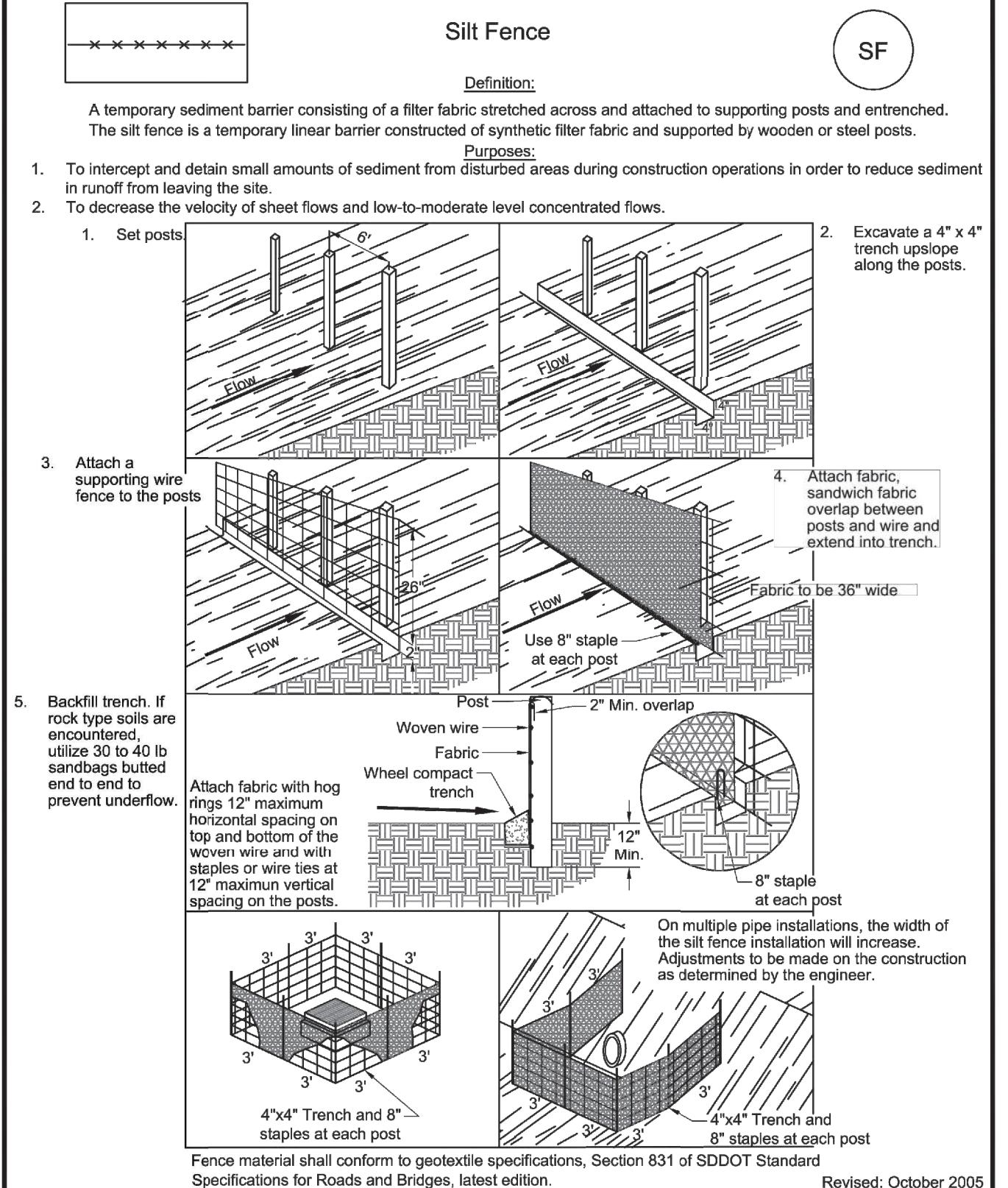
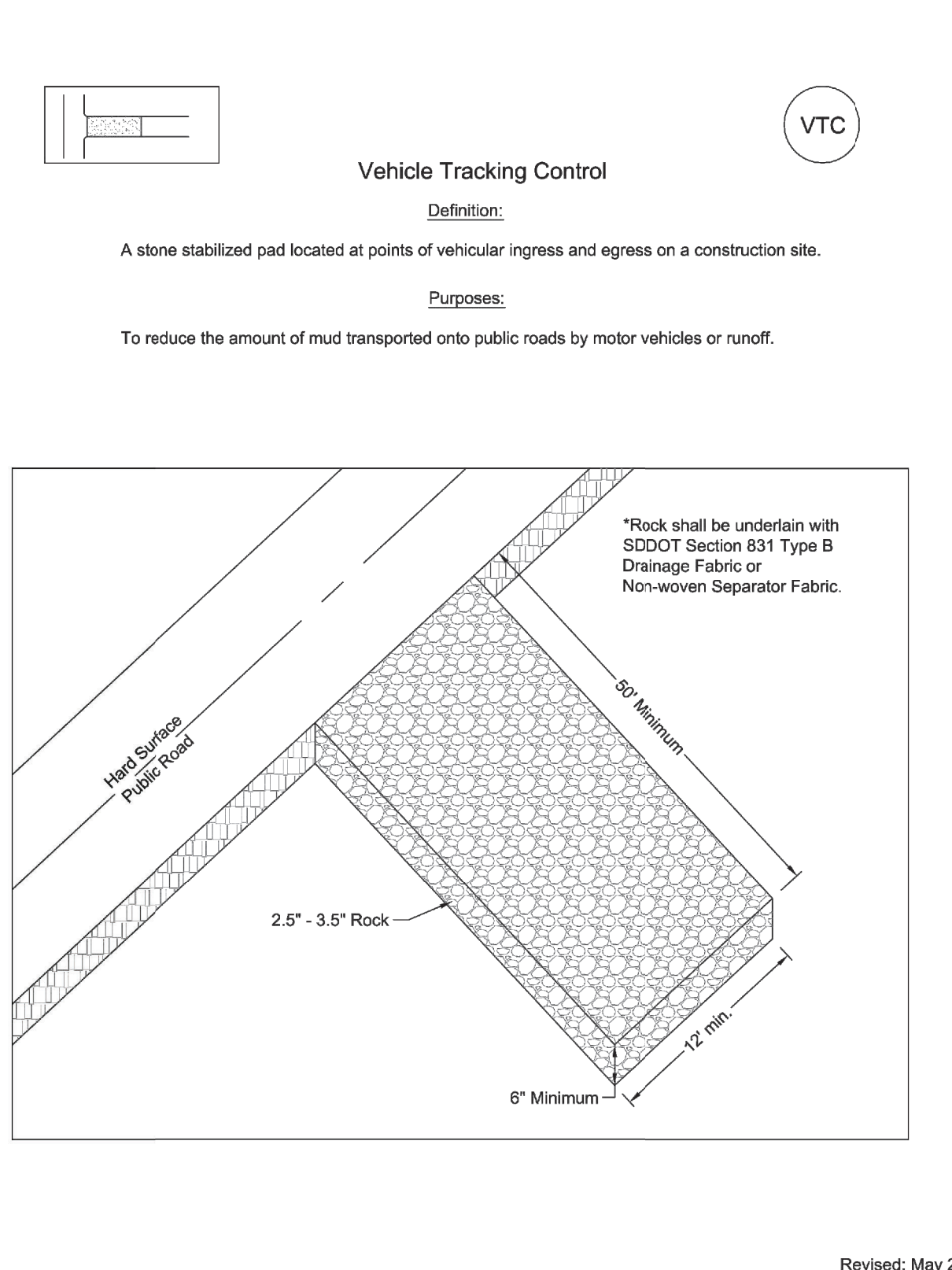


- NOTES:**
- FABRICATE SIGNS THAT COMPLY WITH VA SIGNAGE DESIGN GUIDE.
  - NON-ILLUMINATED SINGLE POST SIGN:
    - PROVIDE SIGN CONSTRUCTED OF AN EXTRUDED ALUMINUM SQUARE POST WITH ALUMINUM PLATE SIGN PANEL.
    - SIGN PANEL: 3.2 MM (0.125 INCH) ALUMINUM PLATE, MECHANICALLY FASTEN PANEL TO SUPPORT POST WITH TAMPER RESISTANT FASTENERS.
    - POSTS: ALUMINUM, MINIMUM 3.2 MM (0.125 INCH) WALL THICKNESS.
    - POST CAPS: WELDED OR MECHANICALLY ATTACHED WITH CONCEALED FASTENERS.

1 ACCESSIBLE PARKING SIGN  
NO SCALE



2 EARTH BERM WITH BOULDERS  
NO SCALE



CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	Temporary Vehicle Tracking Control	Specification Reference No. 734	Plate Number 734.02
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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	Silt Fence (Woven Wire)	Specification Reference No. 734	Plate Number 734.09
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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	Corrugated Pipe and Fabric Inlet Protection - Overflow	Specification Reference No. 734	Plate Number 734.16
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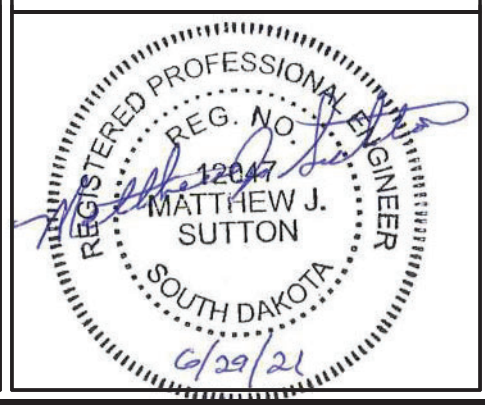
CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	Silt Fence Drop Inlet Sediment Filter	Specification Reference No. 734	Plate Number 734.17
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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	Type I Junction Box for Storm Water	Specification Reference No. 460	Plate Number 460.05
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CONSULTANTS:

ARCHITECT/ENGINEERS:

**SCHEMMER**  
Design with Purpose. Build with Confidence.

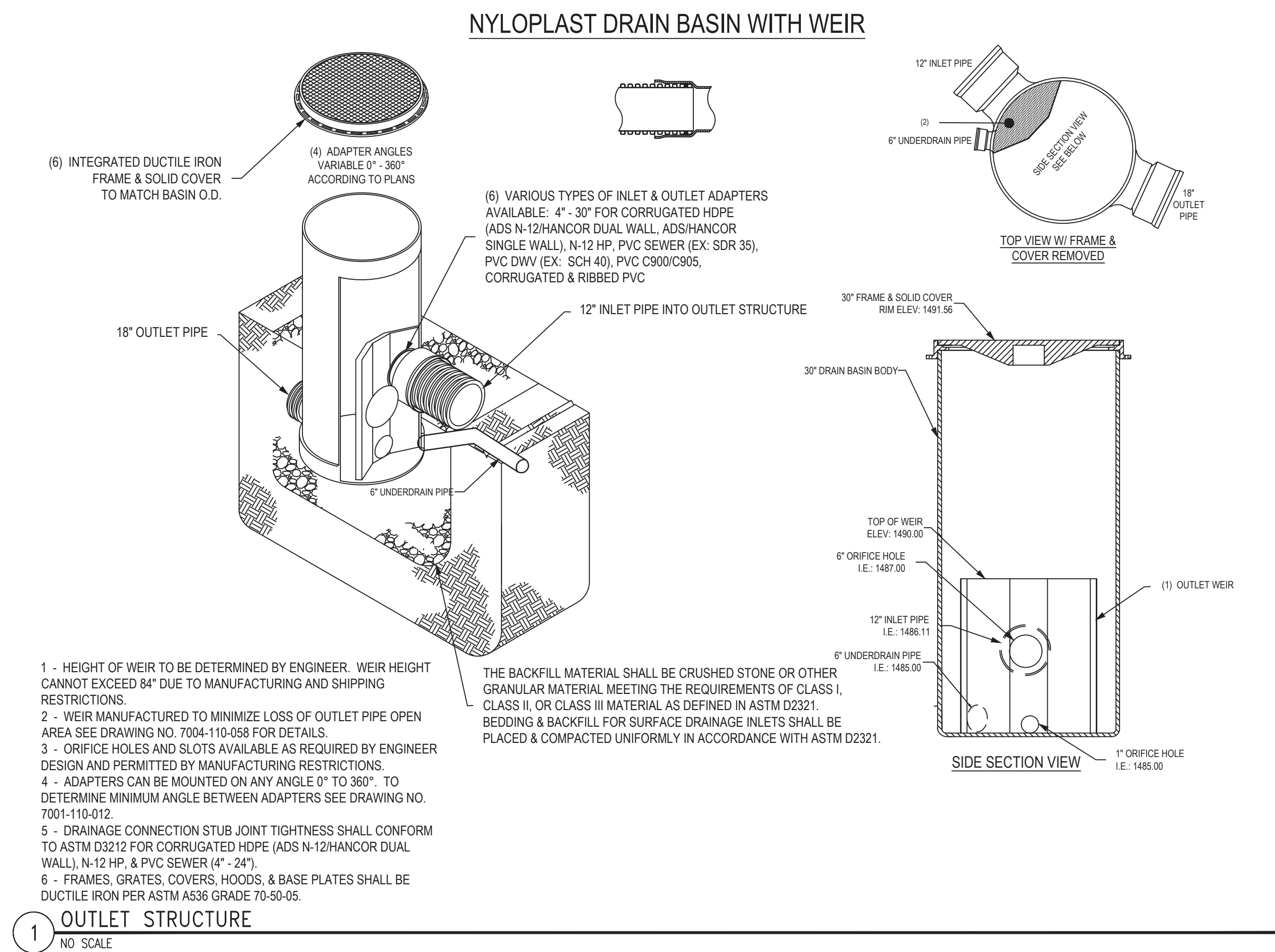
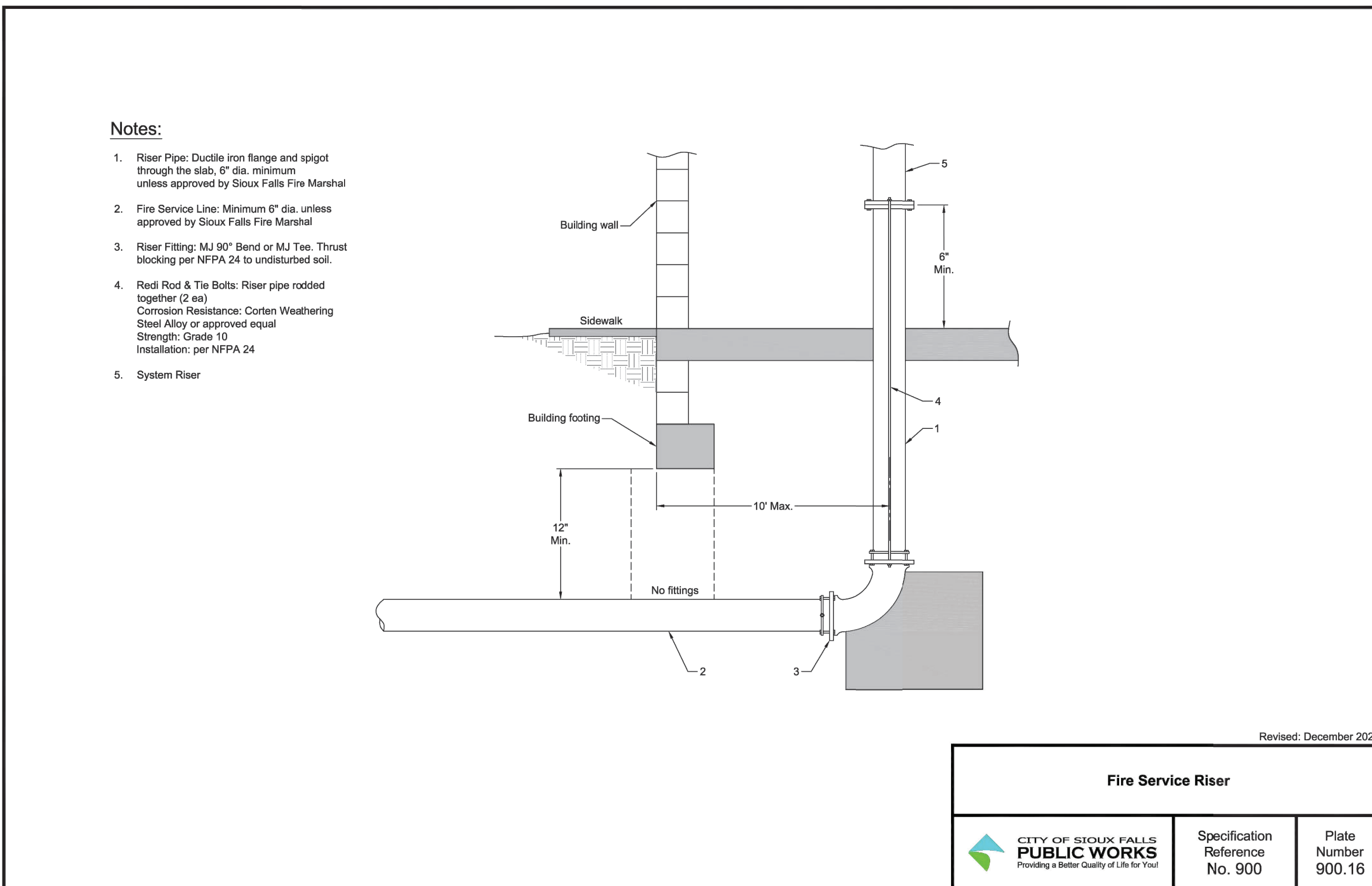
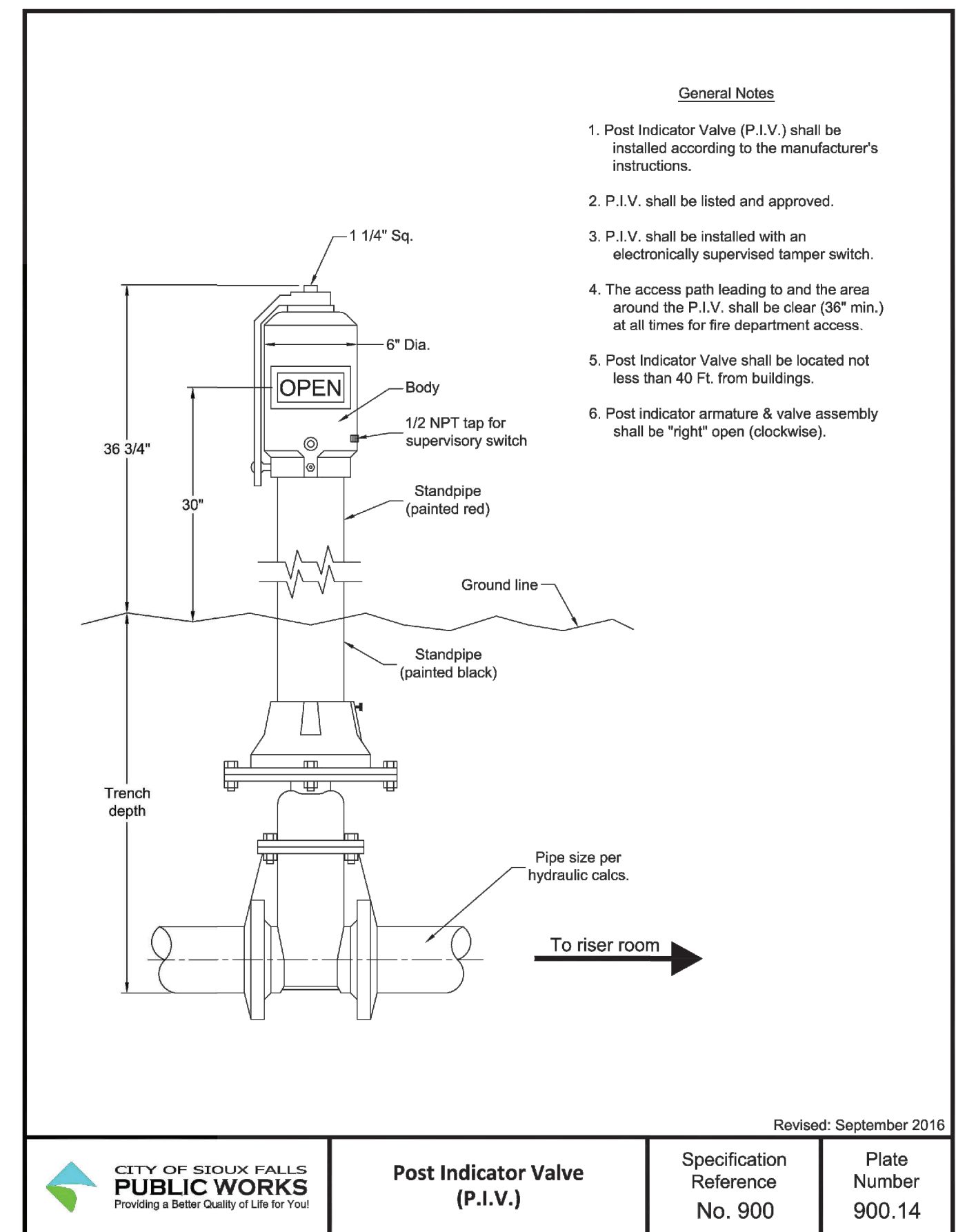
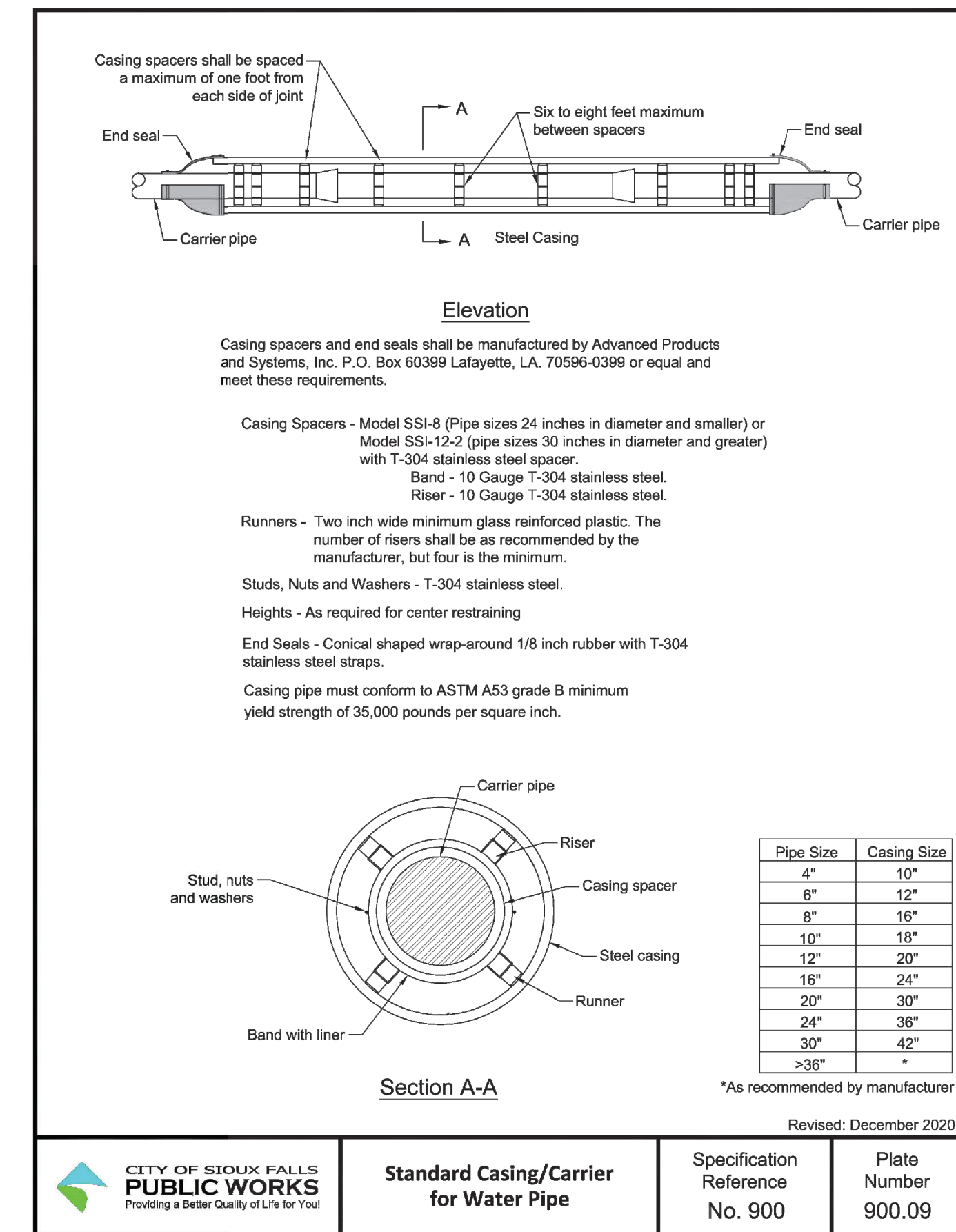
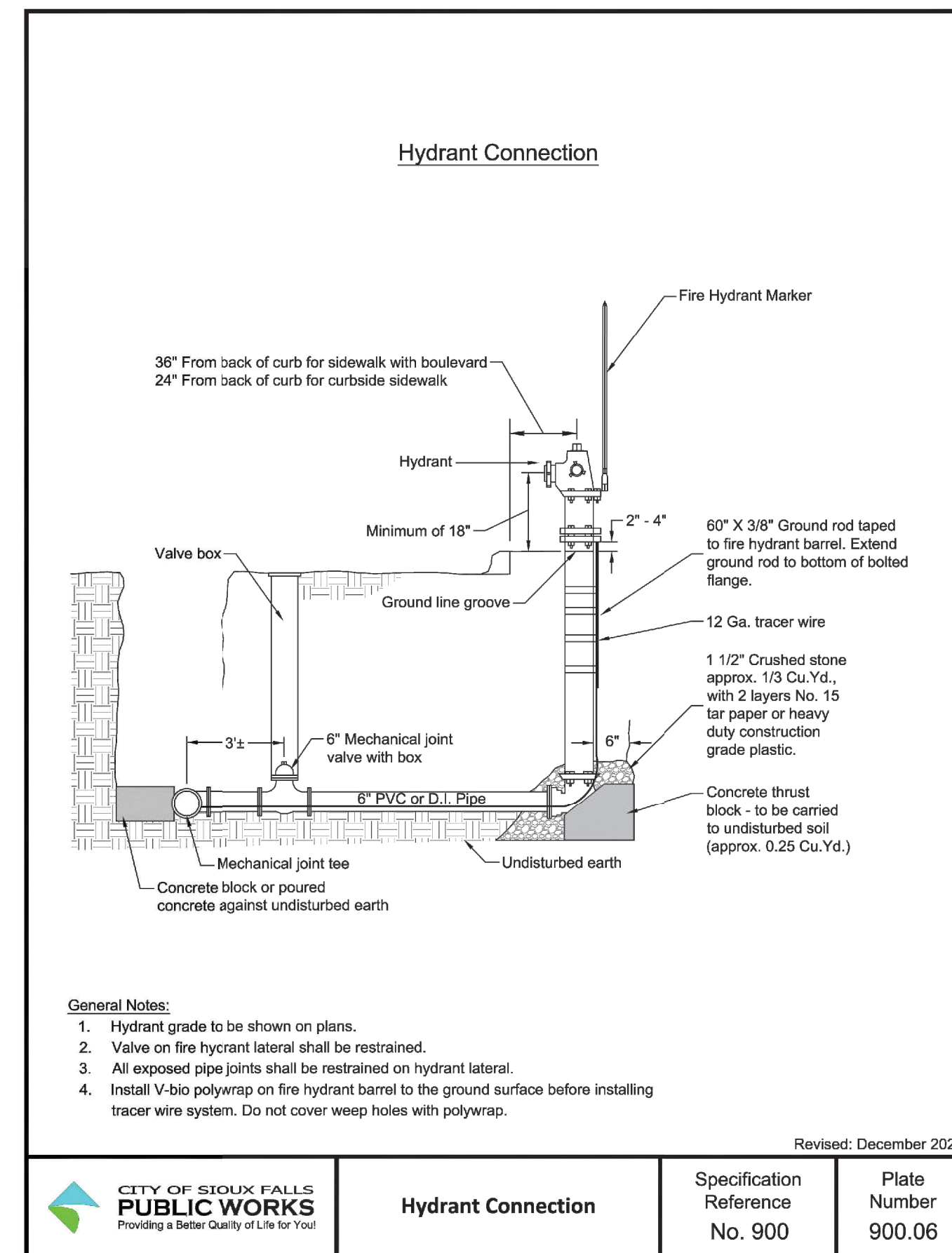
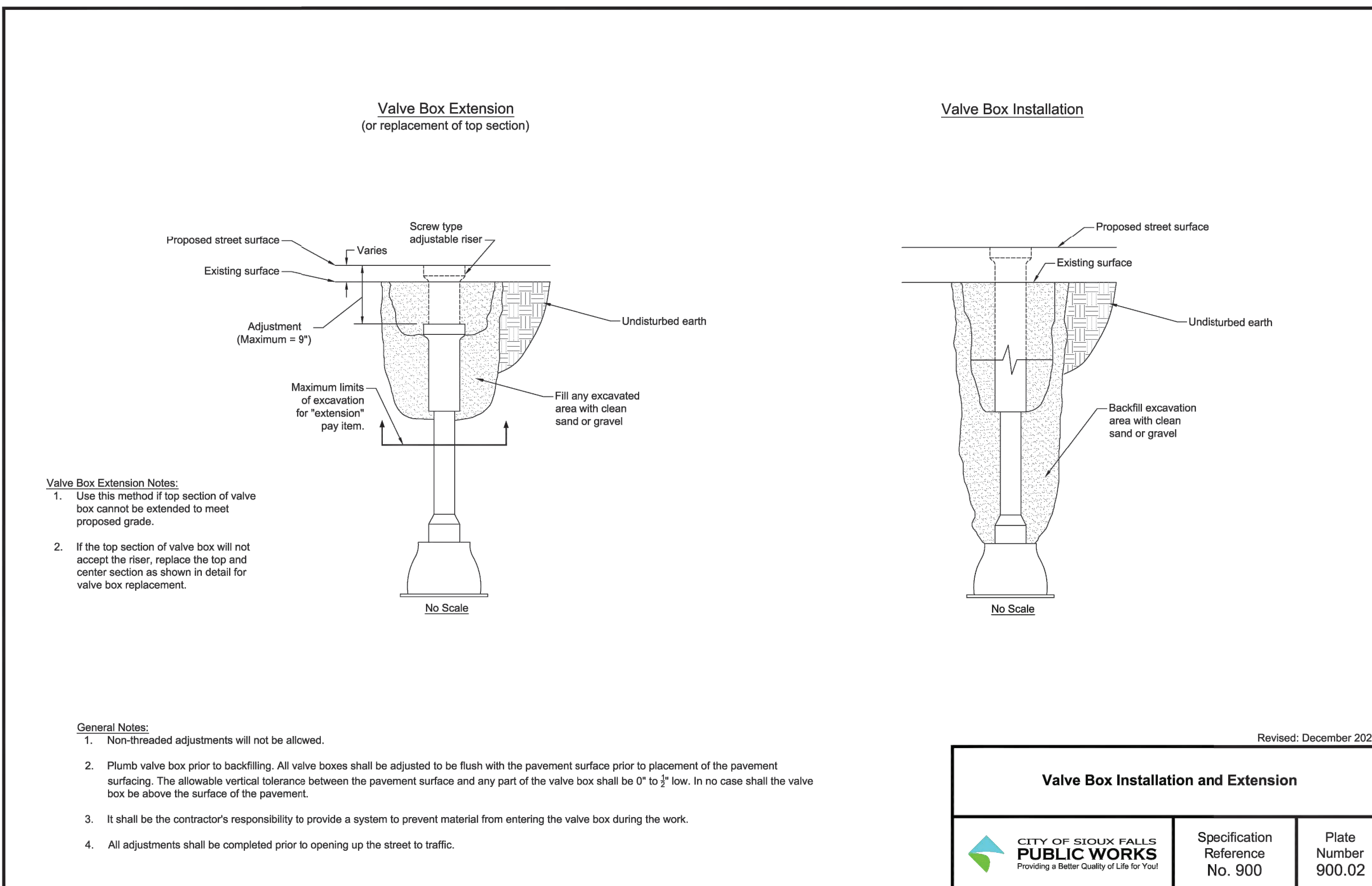


Drawing Title SITE DETAILS	Project Title CONSTRUCT CLC COTTAGE - HOSPICE	Project Number 438-420
Approved:	Location SIOUX FALLS, SD	Building Number 54
Date 06/30/2021	Checked MJS	Drawn DJK
		Drawing Number CS101
		Dwg. 12 of 90

Office of Construction and Facilities Management  
Department of Veterans Affairs

one quarter inch = one foot  
one half inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
two and one half inches = one foot  
three inches = one foot  
three and one half inches = one foot  
four inches = one foot  
four and one half inches = one foot  
five inches = one foot  
five and one half inches = one foot  
six inches = one foot  
six and one half inches = one foot  
seven inches = one foot  
seven and one half inches = one foot  
eight inches = one foot  
eight and one half inches = one foot  
nine inches = one foot  
nine and one half inches = one foot  
ten inches = one foot  
ten and one half inches = one foot  
eleven inches = one foot  
eleven and one half inches = one foot  
twelve inches = one foot





CONSULTANTS:

ARCHITECT/ENGINEERS:

**SCHEMMER**  
Design with Purpose. Build with Confidence.

Drawing Title  
**SITE DETAILS**

Approved:

Project Title  
**CONSTRUCT CLC COTTAGE - HOSPICE**

Location  
**SIOUX FALLS, SD**

Date  
06/30/2021

Checked  
MJS

Drawn  
DJK

Project Number  
438-420

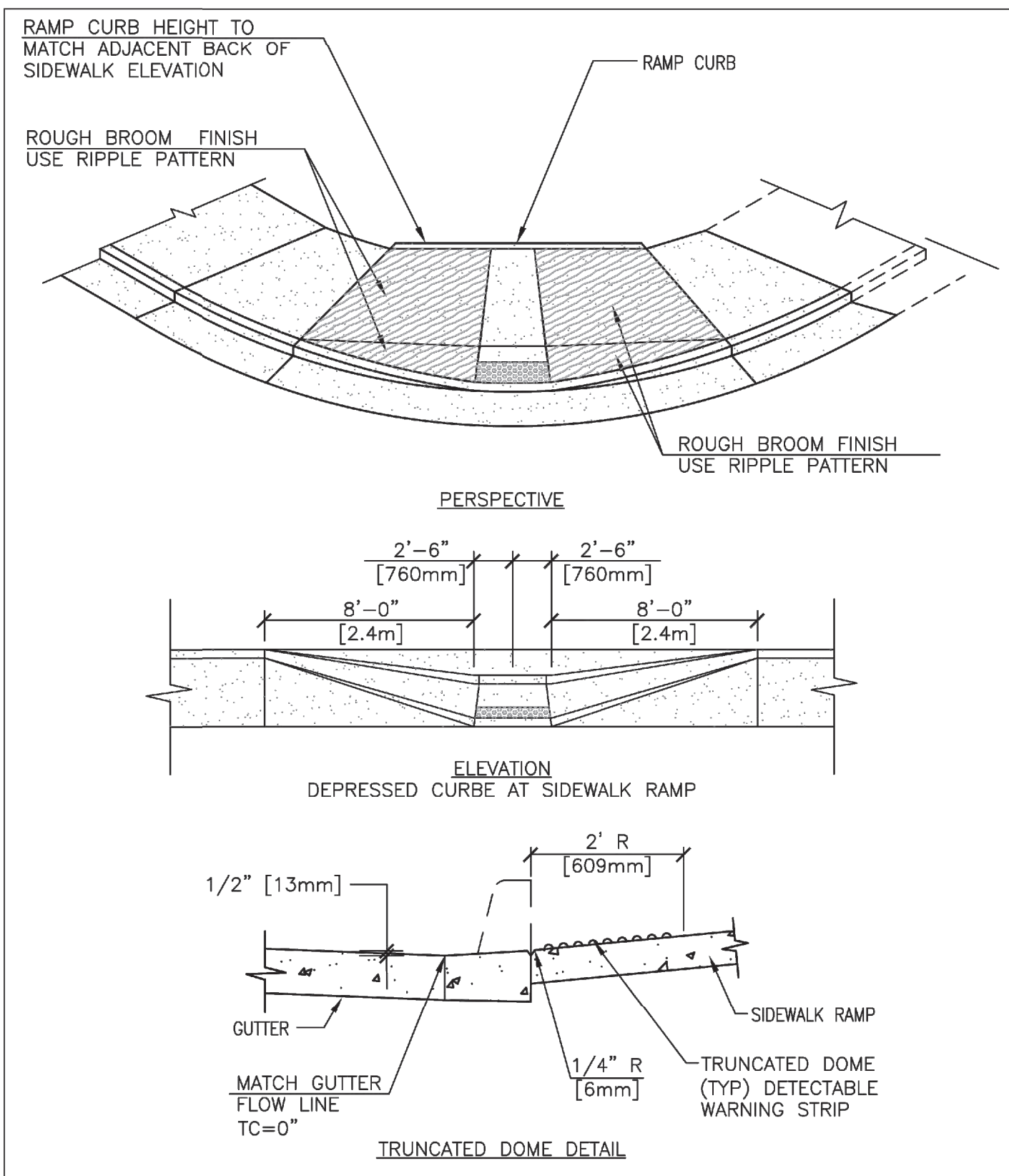
Building Number  
54

Drawing Number  
**CS102**

Dwg. 13 of 90

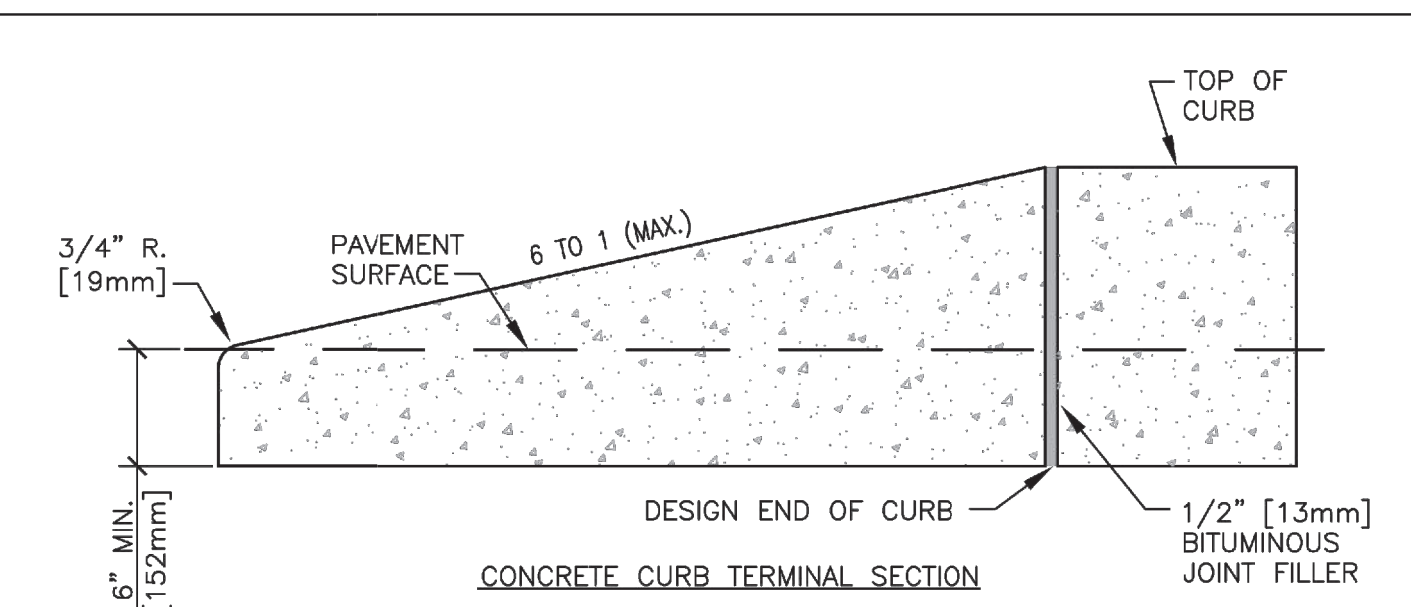
Office of Construction and Facilities Management  
Department of Veterans Affairs





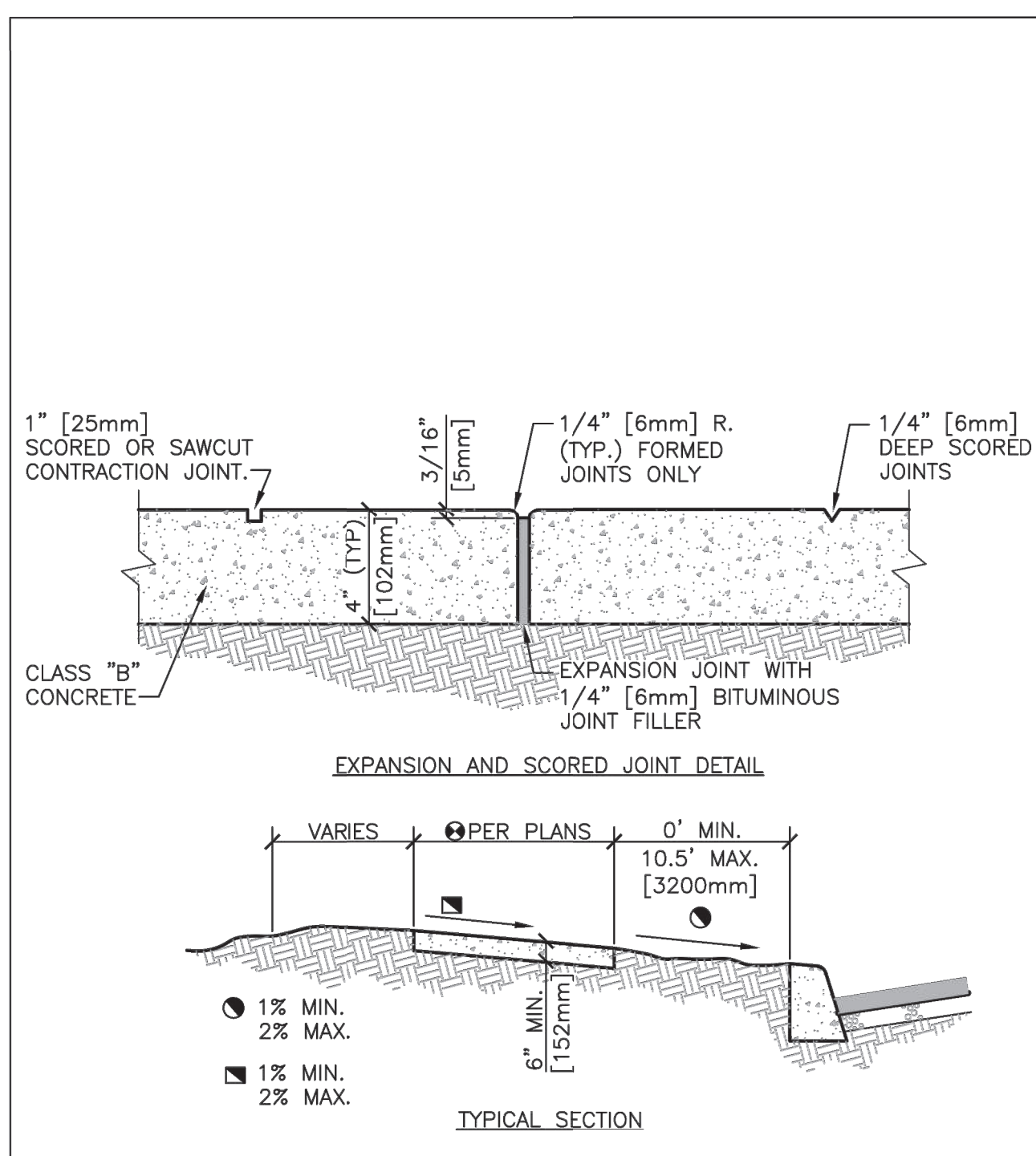
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NTS

Department of Veterans Affairs  
 DETAIL TITLE / CURB ACCESS RAMP  
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 DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-11.DWG



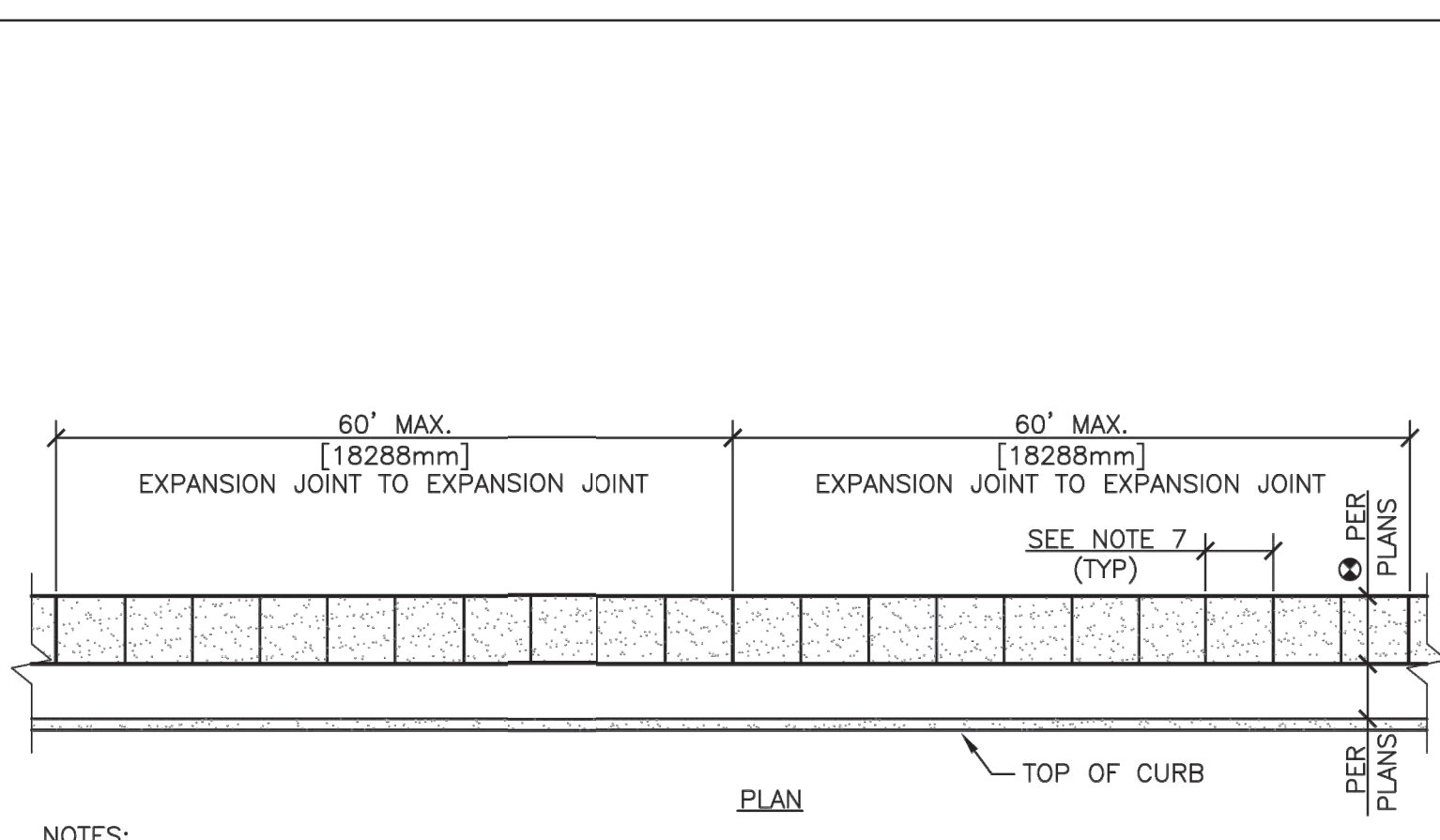
- 2 CONCRETE CURB AND TERMINAL SECTION**  
NTS
- NOTES:
1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
  2. MAXIMUM SPACING ON SCORED JOINTS SHALL BE 15' [4572mm].
  3. 1/2" [13mm] THICK EXPANSION JOINTS SHALL BE LOCATED AT TANGENT POINTS IN CURB RETURNS, TRANSITIONS, AND AT A MAXIMUM OF 60' [1828.8cm] INTERVALS. EXPANSION MATERIAL SHALL ALSO BE PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND CURB ACCESS RAMPS. THE 1/2" [13mm] JOINT FILLER SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
  4. CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
  5. SINGLE CURB MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED.
  6. ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.
  7. FOR REVEALS OF 6" [152mm] TO LESS THAN 8" [203mm].
  8. FOR REVEALS OF 8" [203mm] TO 10" [254mm].

Department of Veterans Affairs  
 DETAIL TITLE / CONCRETE CURB AND TERMINAL SECTION  
 SCALE : NONE  
 DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-17.DWG



**3 CONCRETE SIDEWALK**  
NTS

Department of Veterans Affairs  
 DETAIL TITLE / CONCRETE SIDEWALK  
 SCALE : NONE  
 DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-16.DWG

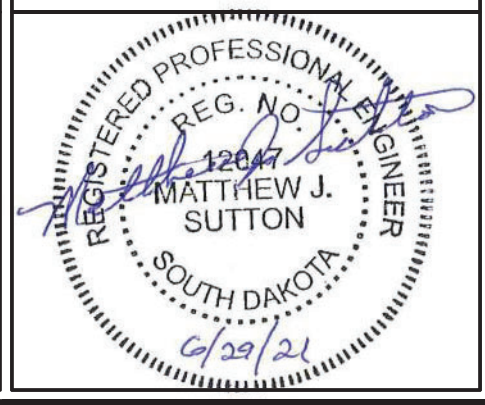


**4 PARKING STALL LAYOUT**  
NTS

Department of Veterans Affairs  
 DETAIL TITLE / PARKING STALL LAYOUT  
 SCALE : NONE  
 DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD321723-01.DWG

**CONSULTANTS:**

**ARCHITECT/ENGINEERS:**



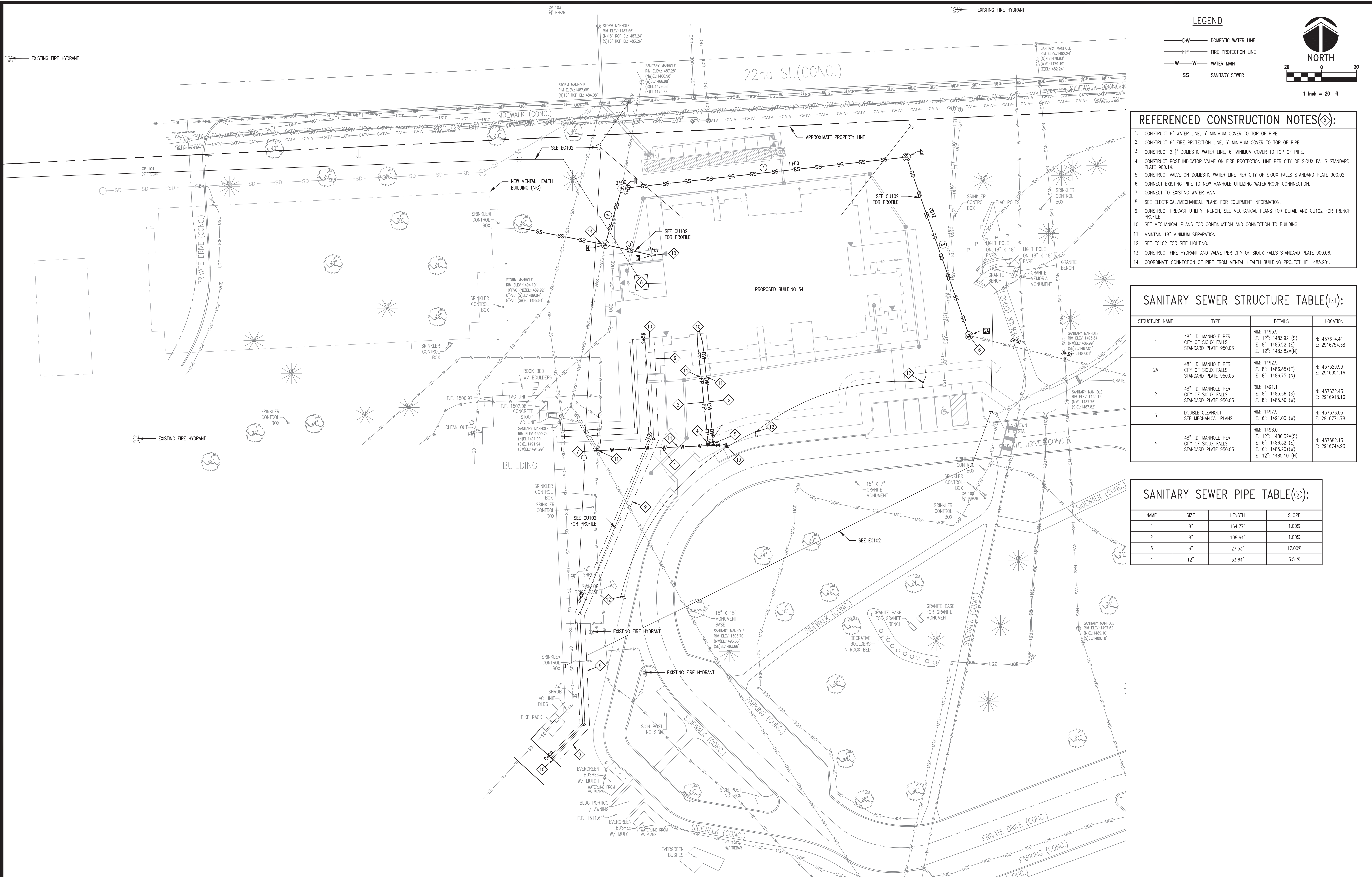
**SCHEMMER**  
 Design with Purpose. Build with Confidence.  
 TSA PROJECT NO.: 06054.034

Drawing Title SITE DETAILS	Project Title CONSTRUCT CLC COTTAGE - HOSPICE	Project Number 438-420
Approved:	Location SIOUX FALLS, SD	Building Number 54
Date 06/30/2021	Checked MJS	Drawn DJK
		Drawing Number CS103
		Dwg. 14 of 90

Office of Construction and Facilities Management  
 Department of Veterans Affairs

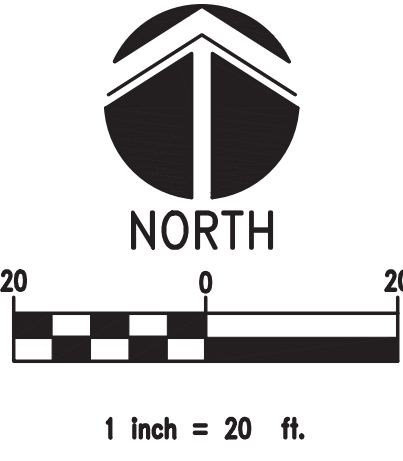
three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one half inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
 three inches = one foot  
 four inches = one foot  
 five inches = one foot  
 six inches = one foot  
 seven inches = one foot  
 eight inches = one foot  
 nine inches = one foot  
 ten inches = one foot  
 eleven inches = one foot  
 twelve inches = one foot





**LEGEND**

- DW — DOMESTIC WATER LINE
- FP — FIRE PROTECTION LINE
- W — WATER MAIN
- SS — SANITARY SEWER



**REFERENCED CONSTRUCTION NOTES:**

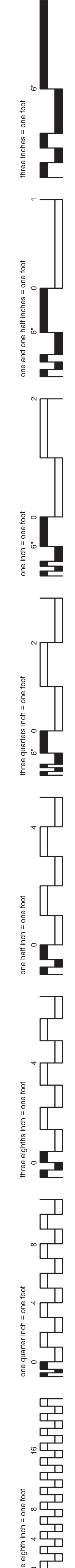
1. CONSTRUCT 6" WATER LINE, 6' MINIMUM COVER TO TOP OF PIPE.
2. CONSTRUCT 6" FIRE PROTECTION LINE, 6' MINIMUM COVER TO TOP OF PIPE.
3. CONSTRUCT 2 1/2" DOMESTIC WATER LINE, 6' MINIMUM COVER TO TOP OF PIPE.
4. CONSTRUCT POST INDICATOR VALVE ON FIRE PROTECTION LINE PER CITY OF SIOUX FALLS STANDARD PLATE 900.14.
5. CONSTRUCT VALVE ON DOMESTIC WATER LINE PER CITY OF SIOUX FALLS STANDARD PLATE 900.02.
6. CONNECT EXISTING PIPE TO NEW MANHOLE UTILIZING WATERPROOF CONNECTION.
7. CONNECT TO EXISTING WATER MAIN.
8. SEE ELECTRICAL/MECHANICAL PLANS FOR EQUIPMENT INFORMATION.
9. CONSTRUCT PRECAST UTILITY TRENCH, SEE MECHANICAL PLANS FOR DETAIL AND CU102 FOR TRENCH PROFILE.
10. SEE MECHANICAL PLANS FOR CONTINUATION AND CONNECTION TO BUILDING.
11. MAINTAIN 18" MINIMUM SEPARATION.
12. SEE EC102 FOR SITE LIGHTING.
13. CONSTRUCT FIRE HYDRANT AND VALVE PER CITY OF SIOUX FALLS STANDARD PLATE 900.06.
14. COORDINATE CONNECTION OF PIPE FROM MENTAL HEALTH BUILDING PROJECT, IE=1485.20\*

**SANITARY SEWER STRUCTURE TABLE:**

STRUCTURE NAME	TYPE	DETAILS	LOCATION
1	48" I.D. MANHOLE PER CITY OF SIOUX FALLS STANDARD PLATE 950.03	RIM: 1493.9 I.E. 12": 1483.92 (S) I.E. 8": 1483.92 (E) I.E. 12": 1483.82*(N)	N: 457614.41 E: 2916754.38
2A	48" I.D. MANHOLE PER CITY OF SIOUX FALLS STANDARD PLATE 950.03	RIM: 1492.9 I.E. 8": 1486.85*(E) I.E. 8": 1486.75 (W)	N: 457529.93 E: 2916954.16
2	48" I.D. MANHOLE PER CITY OF SIOUX FALLS STANDARD PLATE 950.03	RIM: 1491.1 I.E. 8": 1485.66 (S) I.E. 8": 1485.56 (W)	N: 457632.43 E: 2916918.16
3	DOUBLE CLEANOUT, SEE MECHANICAL PLANS	RIM: 1497.9 I.E. 6": 1491.00 (W)	N: 457576.05 E: 2916771.78
4	48" I.D. MANHOLE PER CITY OF SIOUX FALLS STANDARD PLATE 950.03	RIM: 1496.0 I.E. 12": 1486.32*(S) I.E. 8": 1486.32 (E) I.E. 6": 1485.20*(W) I.E. 12": 1485.10 (N)	N: 457582.13 E: 2916744.93

**SANITARY SEWER PIPE TABLE:**

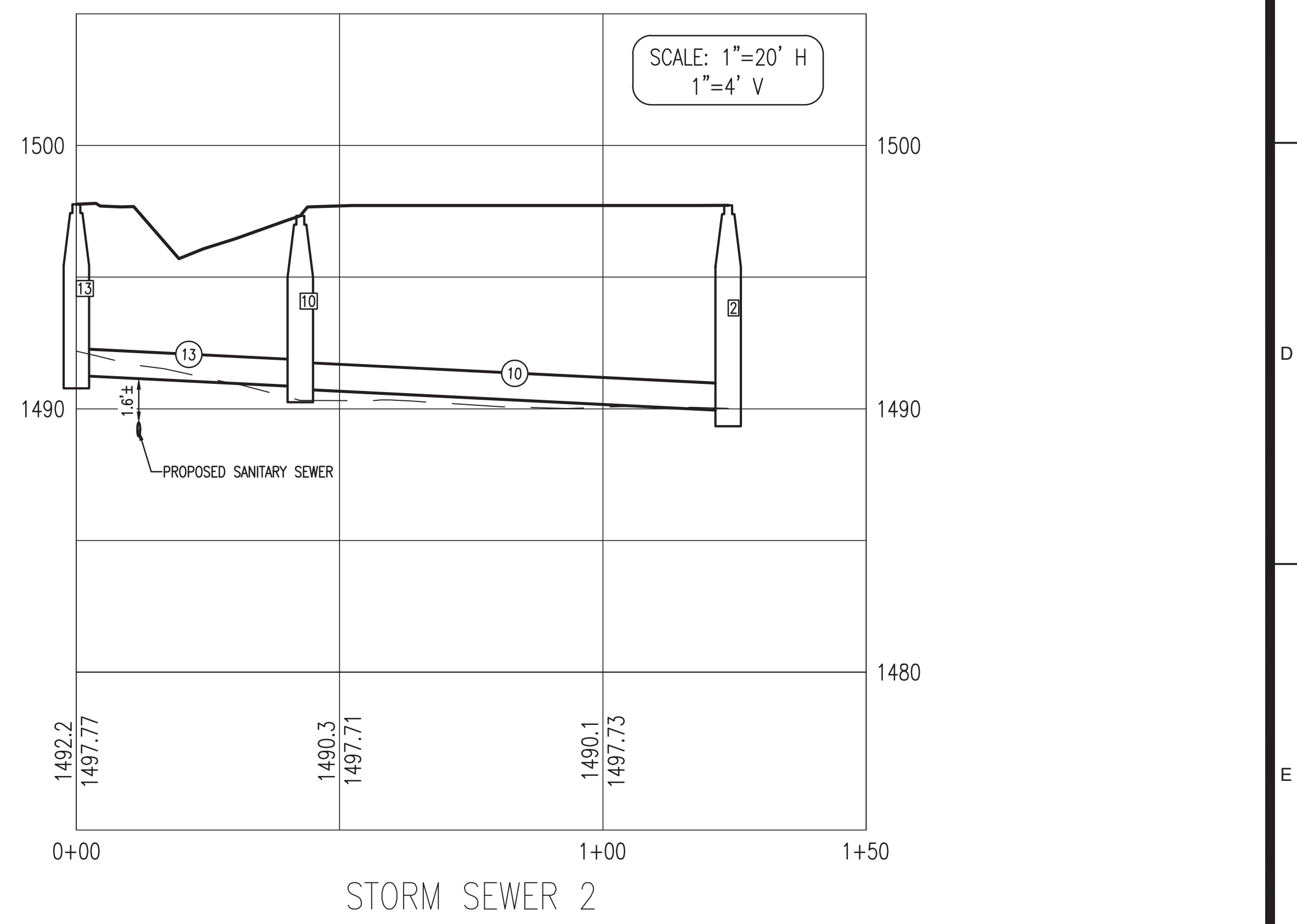
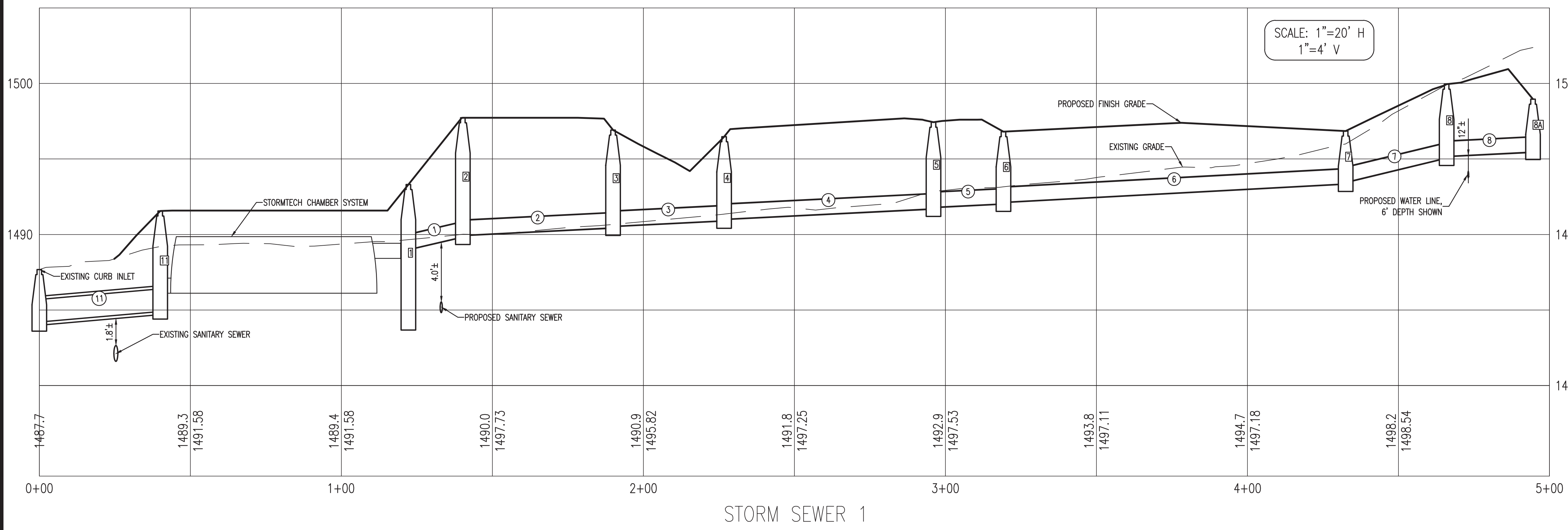
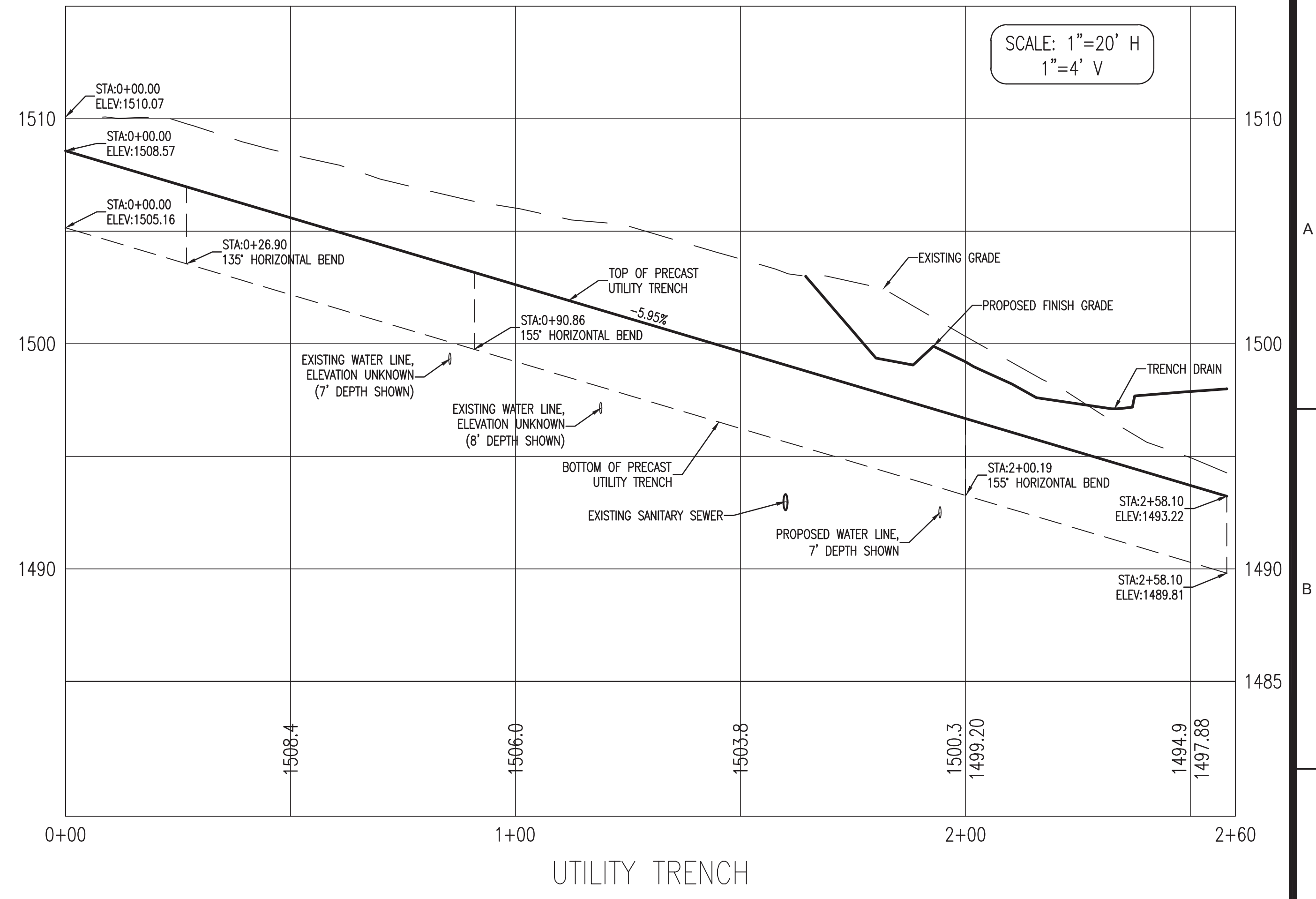
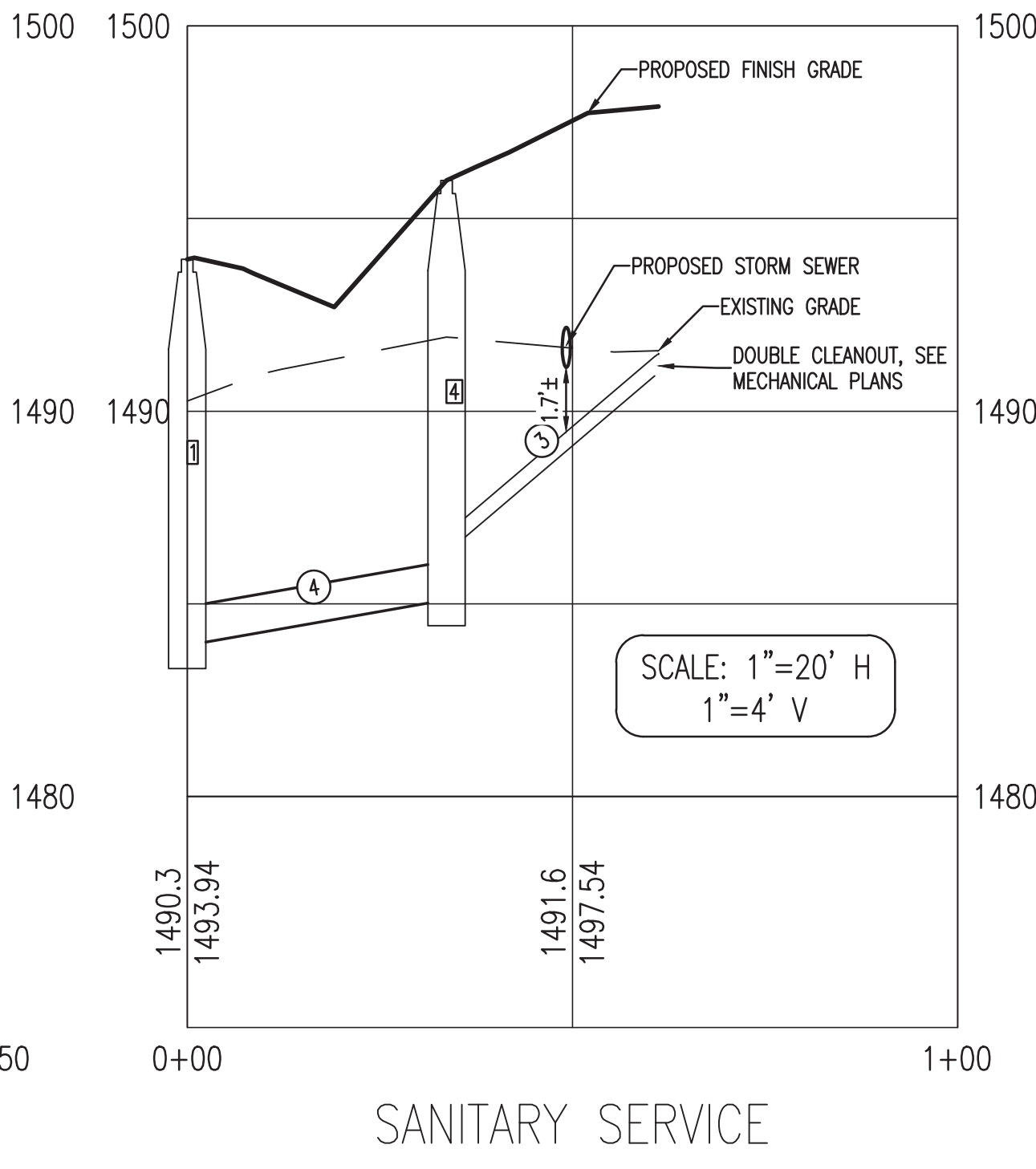
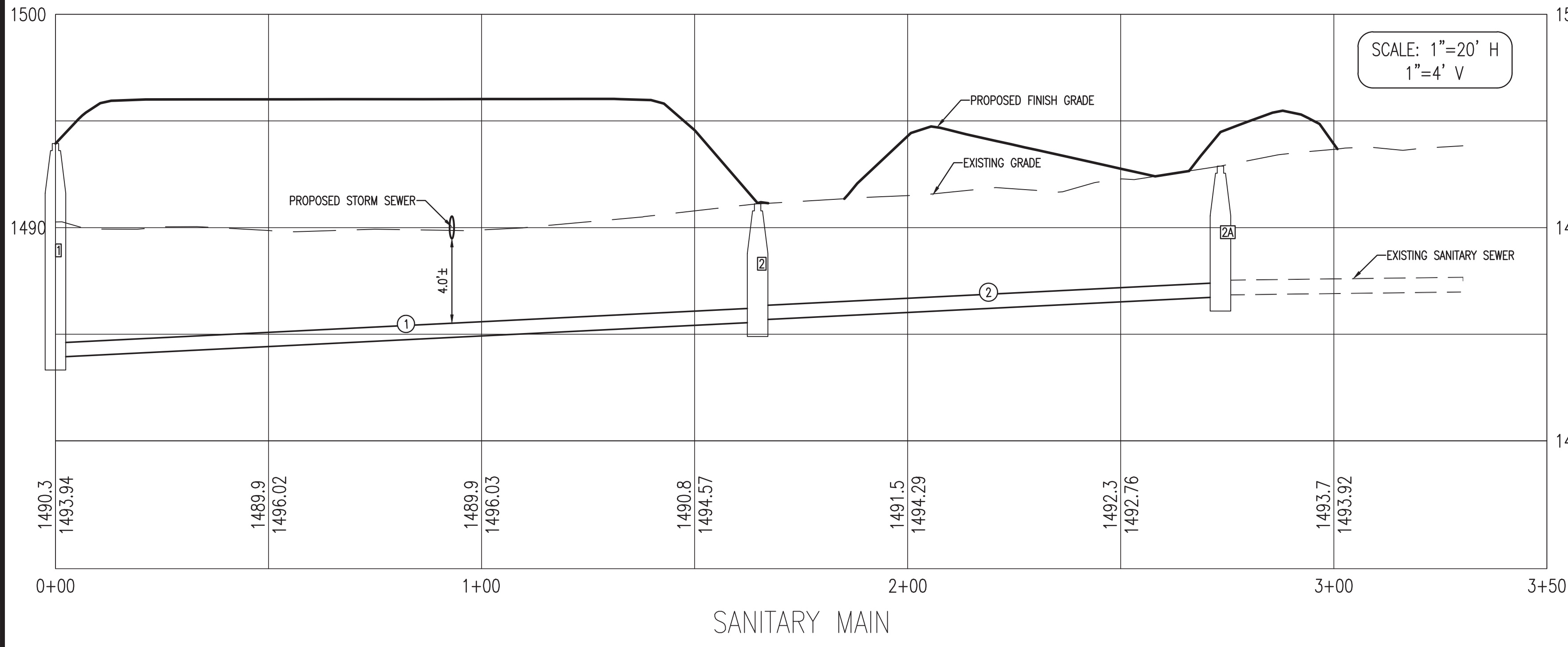
NAME	SIZE	LENGTH	SLOPE
1	8"	164.77'	1.00%
2	8"	108.64'	1.00%
3	6"	27.53'	17.00%
4	12"	33.64'	3.51%



<p><b>CONSULTANTS:</b></p>	<p><b>ARCHITECT/ENGINEERS:</b></p> <p><b>SCHEMMER</b></p> <p><i>Design with Purpose. Build with Confidence.</i></p> <p>TSA PROJECT NO.: 06054.034</p>	<p>Drawing Title</p> <p><b>SITE UTILITY PLAN</b></p> <p>Approved:</p>	<p>Project Title</p> <p><b>CONSTRUCT CLC COTTAGE - HOSPICE</b></p> <p>Location</p> <p><b>SIOUX FALLS, SD</b></p> <p>Date</p> <p>06/30/2021</p>	<p>Project Number</p> <p>438-420</p> <p>Building Number</p> <p>54</p> <p>Drawing Number</p> <p>CU101</p> <p>Dwg. 15 of 90</p>	<p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>
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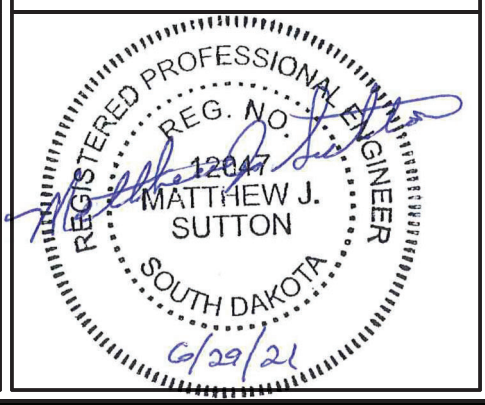
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 one quarter inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot



**NOTES:**  
 A. SEE CG101 FOR STORM SEWER PIPE AND STRUCTURE TABLES.  
 B. SEE CU101 FOR SANITARY SEWER PIPE AND STRUCTURE TABLES.

CONSULTANTS:

ARCHITECT/ENGINEERS:

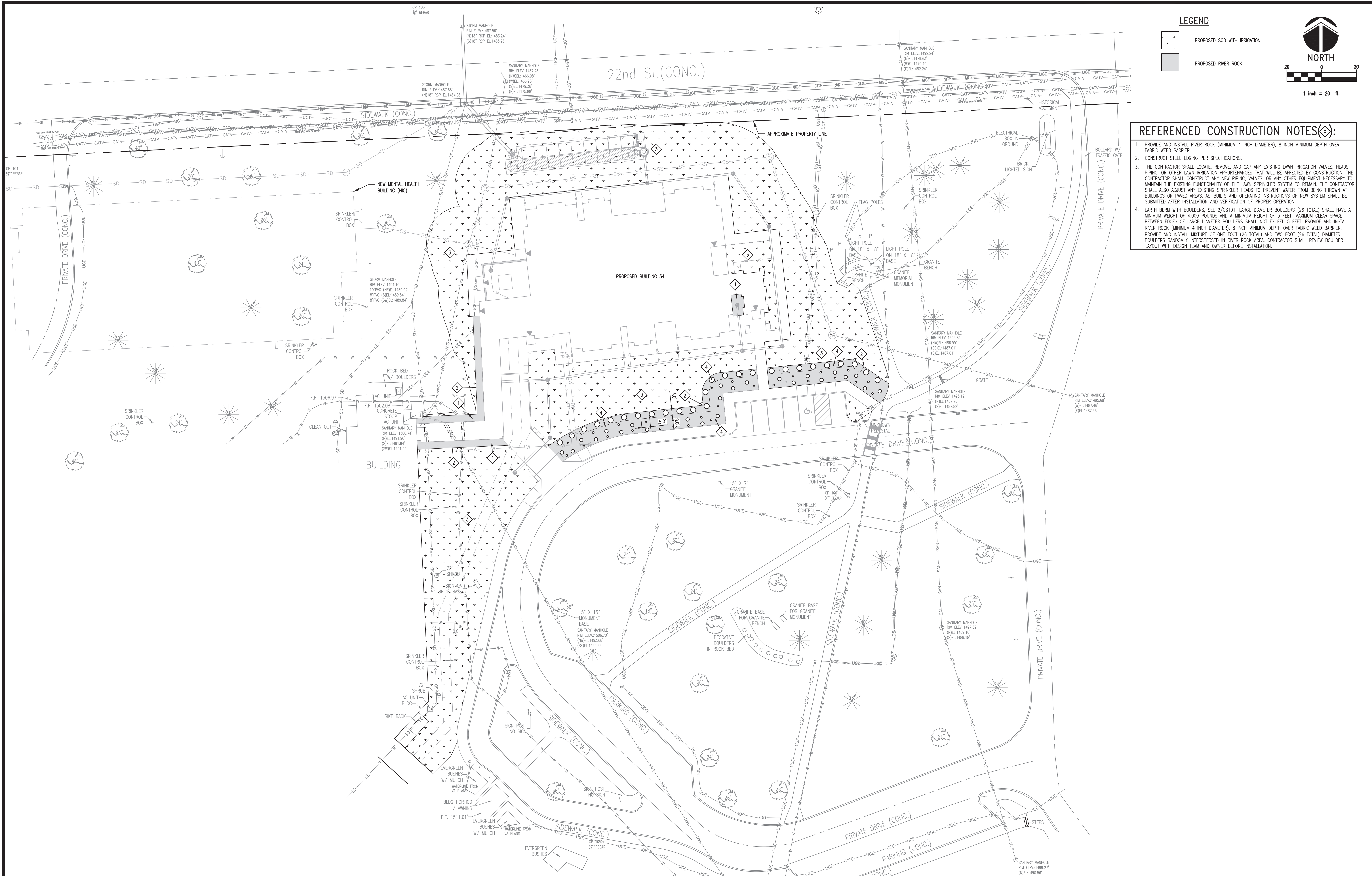


Drawing Title SITE UTILITY PROFILES	
Approved:	

Project Title CONSTRUCT CLC COTTAGE - HOSPICE		Project Number 438-420
Location SIOUX FALLS, SD		Building Number 54
Date 06/30/2021	Checked MJS	Drawn DJK
Drawing Number CU102		Dwg. 16 of 90

Office of  
 Construction  
 and Facilities  
 Management  
 Department of  
 Veterans Affairs





**LEGEND**

- PROPOSED SOD WITH IRRIGATION
- PROPOSED RIVER ROCK

NORTH  
 20 0 20  
 1 inch = 20 ft.

- REFERENCED CONSTRUCTION NOTES:**
1. PROVIDE AND INSTALL RIVER ROCK (MINIMUM 4 INCH DIAMETER), 8 INCH MINIMUM DEPTH OVER FABRIC WEED BARRIER.
  2. CONSTRUCT STEEL EDGING PER SPECIFICATIONS.
  3. THE CONTRACTOR SHALL LOCATE, REMOVE, AND CAP ANY EXISTING LAWN IRRIGATION VALVES, HEADS, PIPING, OR OTHER LAWN IRRIGATION APPURTENANCES THAT WILL BE AFFECTED BY CONSTRUCTION. THE CONTRACTOR SHALL CONSTRUCT ANY NEW PIPING, VALVES, OR ANY OTHER EQUIPMENT NECESSARY TO MAINTAIN THE EXISTING FUNCTIONALITY OF THE LAWN SPRINKLER SYSTEM TO REMAIN. THE CONTRACTOR SHALL ALSO ADJUST ANY EXISTING SPRINKLER HEADS TO PREVENT WATER FROM BEING THROWN AT BUILDINGS OR PAVED AREAS. AS-BUILTS AND OPERATING INSTRUCTIONS OF NEW SYSTEM SHALL BE SUBMITTED AFTER INSTALLATION AND VERIFICATION OF PROPER OPERATION.
  4. EARTH BERM WITH BOULDERS, SEE 2/CS101. LARGE DIAMETER BOULDERS (26 TOTAL) SHALL HAVE A MINIMUM HEIGHT OF 4,000 POUNDS AND A MINIMUM HEIGHT OF 3 FEET MAXIMUM CLEAR SPACE BETWEEN EDGES OF LARGE DIAMETER BOULDERS SHALL NOT EXCEED 5 FEET. PROVIDE AND INSTALL RIVER ROCK (MINIMUM 4 INCH DIAMETER), 8 INCH MINIMUM DEPTH OVER FABRIC WEED BARRIER. PROVIDE AND INSTALL MIXTURE OF ONE FOOT (26 TOTAL) AND TWO FOOT (26 TOTAL) DIAMETER BOULDERS RANDOMLY INTERSPERSED IN RIVER ROCK AREA. CONTRACTOR SHALL REVIEW BOULDER LAYOUT WITH DESIGN TEAM AND OWNER BEFORE INSTALLATION.

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

<p><b>CONSULTANTS:</b></p>	<p><b>ARCHITECT/ENGINEERS:</b></p> <p style="font-size: 2em; font-weight: bold; margin: 0;">SCHEMMER</p> <p style="font-size: 0.8em; margin: 0;">Design with Purpose. Build with Confidence.</p> <p style="font-size: 0.6em; margin: 0;">TSA PROJECT NO. 06054.034</p>	<p>Drawing Title</p> <p style="font-weight: bold;">SITE LANDSCAPE PLAN</p> <p>Approved:</p>	<p>Project Title</p> <p style="font-weight: bold;">CONSTRUCT CLC COTTAGE - HOSPICE</p> <p>Location</p> <p style="font-weight: bold;">SIOUX FALLS, SD</p> <p>Date</p> <p>06/30/2021</p>	<p>Project Number</p> <p>438-420</p> <p>Building Number</p> <p>54</p> <p>Drawing Number</p> <p style="font-weight: bold;">LP101</p> <p>Dwg. 17 of 90</p>	<p>Office of Construction and Facilities Management</p> <p style="font-size: 0.8em;">Department of Veterans Affairs</p>
<p>Revisions: _____ Date _____</p>					

