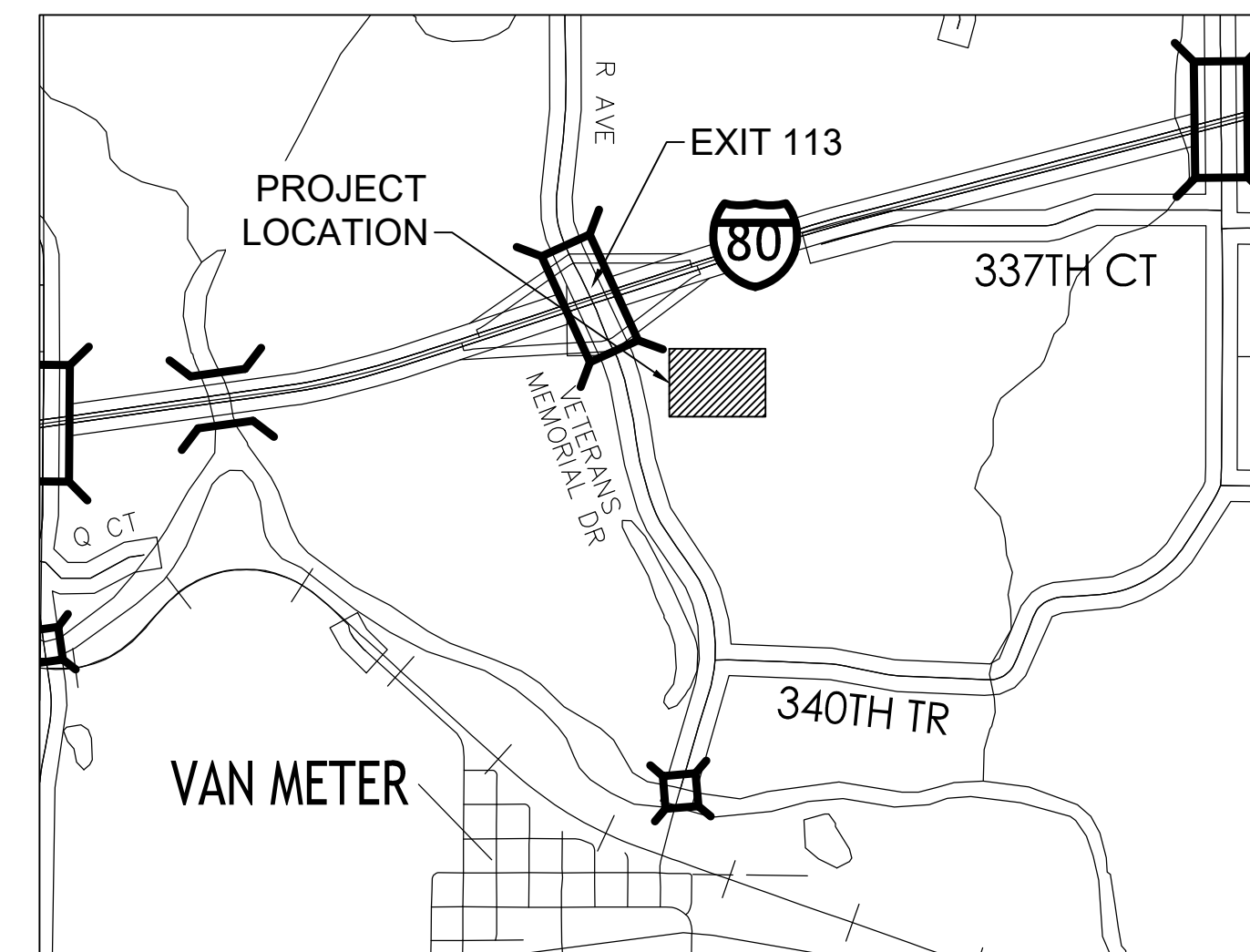


IDAS - IVC COLUMBARIUM AND IRRIGATION PACKAGE 1

DAS PROJECT NO: 9517.00

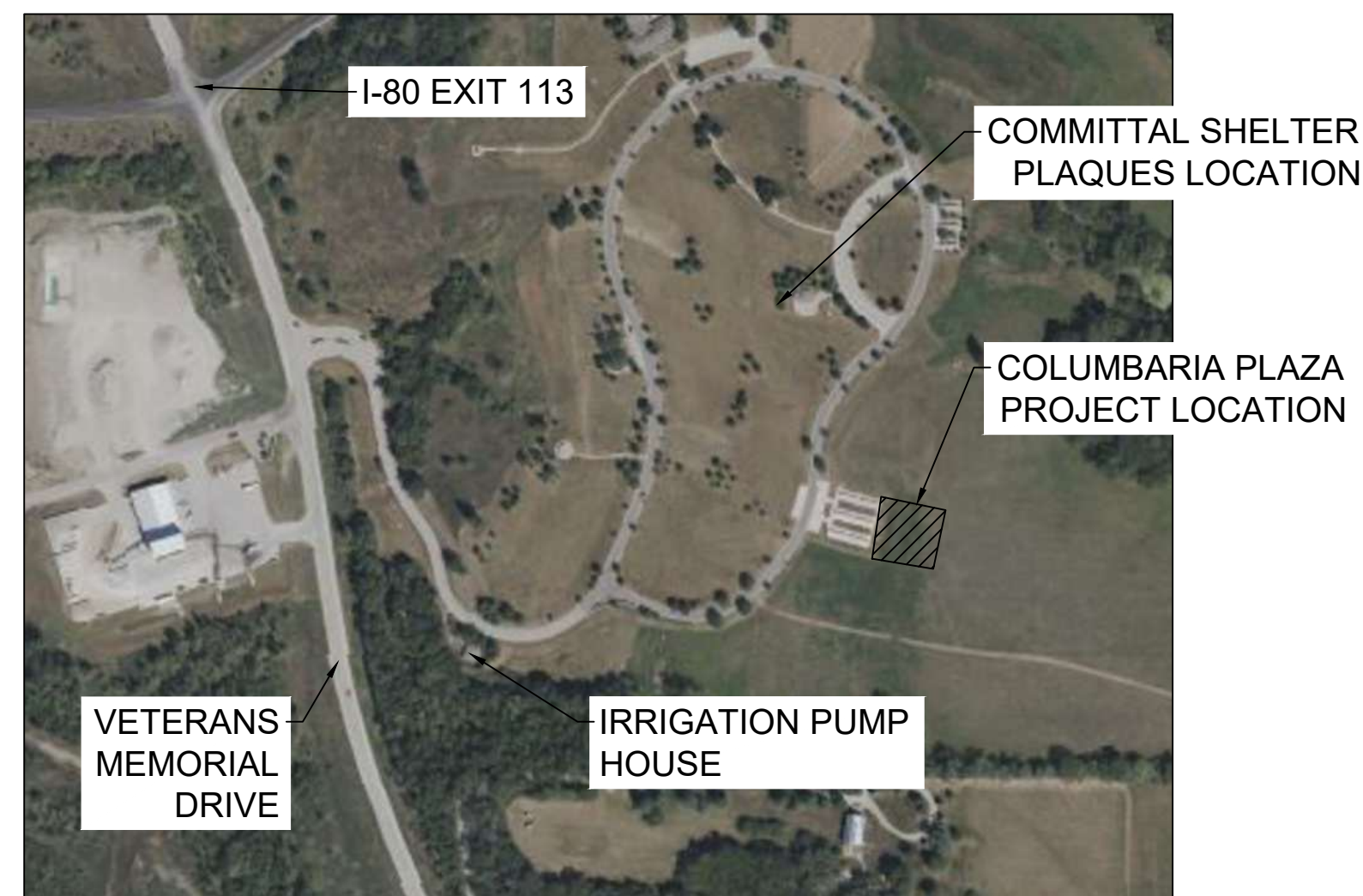
FAI NO: IA 23-04

IOWA DEPARTMENT OF VETERANS AFFAIRS
 34024 VETERANS MEMORIAL DRIVE
 ADEL, IA 50003



VICINITY MAP

NTS



PROJECT MAP

NTS

BURIAL SPACE EXPANSION
 PROPOSED COLUMBARIUM NICHES: 2160
 TOTAL CEMETERY AREA: 100.38 ACRES
 DISTURBED AREA FOR PROJECT: 0.49 ACRES

SURVEY COORDINATE SYSTEM
 IA STATE PLANE SOUTH 1402 NAD83 (2011) GEOID 18 US SURVEY FEET

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	CONSTRUCTION NOTES
C002	CONSTRUCTION NOTES
CD01	EXISTING CONDITIONS AND DEMOLITION PLAN
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C201	GRADING PLAN
C301	UTILITY PLAN
C501	CONSTRUCTION DETAILS
C502	EXISTING TREATMENT COMPONENTS
C503	REFURBISH DETAILS
A101	COLUMBARIUM WALL SECTION, ELEVATIONS, AND DETAILS
ID101	SITE IRRIGATION DEMOLITION PLAN
IR101	SITE IRRIGATION PLAN
IR201	IRRIGATION DETAILS
L101	LANDSCAPE PLAN
L102	LANDSCAPE NOTES AND DETAILS

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SITE ADDRESS

IOWA VETERANS CEMETERY
 34024 VETERANS MEMORIAL DRIVE
 ADEL, IA 50003

LEGEND

EXISTING		PROPOSED
	IRRIGATION VALVE	
	STORM SEWER	
	STORM INTAKE	
	CURB INTAKE	
	DRAINAGE MANHOLE	
	SIGN	
	MAJOR CONTOUR	
	MINOR CONTOUR	
	EROSION CONTROL	
	TREE	

CIVIL ENGINEER

LICENSED PROFESSIONAL ENGINEER

CHRISTOPHER R. BAUER

19737

IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Signature:

Date: 06-12-2026

Printed or typed name:
 License Number:
 My License Renewal Date is: DECEMBER 31, 2027

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
 ALL SHEETS

A	B	C	D	E	F		
1	<p>GENERAL NOTES:</p> <p>1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP (PUBLIC OR PRIVATE) SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE IOWA STATEWIDE URBAN AND DESIGN AND SPECIFICATIONS (SUDAS), UNLESS OTHERWISE NOTED ON THE DRAWINGS.</p> <p>2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE AGENCY CODES, STANDARDS AND SPECIFICATIONS.</p> <p>3. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION TO BE ALLOWED FOR THE COMPLETION OF THIS WORK.</p> <p>4. WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE OWNERS REPRESENTATIVE, AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNERS REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID FOR.</p> <p>5. STAGING LOCATION FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER.</p> <p>6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.</p> <p>7. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FROM THE APPLICABLE GOVERNING AUTHORITIES.</p> <p>8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES, ELEVATIONS, SETBACKS, AND EASEMENTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.</p> <p>9. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED BY THE CONTRACTOR AFTER SUCH A DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.</p> <p>10. PROTECT ALL EXISTING FEATURES (INCLUDING BUT NOT LIMITED TO WALLS, TREES, LANDSCAPING, DRIVEWAYS, SIDEWALKS, CURBS, PAVEMENT, UTILITIES, ETC.) NOT SPECIFICALLY NOTED FOR REMOVAL. FEATURES NOT DESIGNATED FOR REMOVAL THAT ARE DAMAGED OR REMOVED RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.</p>		<p>SITE PREPARATION AND DEMOLITION NOTES:</p> <p>1. ALL EXISTING CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER, AND MISCELLANEOUS IMPROVEMENTS NOTED TO BE REMOVED AND/OR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT SHALL BE DEMOLISHED, REMOVED FROM THE SITE, AND LEGALLY DISPOSED OF BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR LEGAL DISPOSAL SITES FOR DEMOLISHED ITEMS. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER OR OWNER. CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND TEMPORARY HAUL ROADS TO PREVENT THE SPREAD OF DUST. OFF-SITE DISPOSAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE GOVERNMENTAL REGULATIONS.</p> <p>2. WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED A MINIMUM OF TWO FEET BEYOND THE EDGE OF THE TRENCH CUT AND TO THE NEAREST JOINT.</p> <p>3. DOUBLE SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO REMOVAL TO PREVENT DAMAGE TO ADJACENT SLABS AND FIXTURES.</p> <p>4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL TREES AND SHRUBS IN PROJECT AREA FROM DAMAGE DUE TO CONSTRUCTION ACTIVITY UNLESS SHOWN ON THE PLANS OR DIRECTED BY THE OWNER'S REPRESENTATIVE.</p> <p>5. REMOVAL AND DISPOSAL OF EXISTING TREES AND SHRUBS WITHIN CONSTRUCTION LIMITS SHALL BE INCIDENTAL TO THE PROJECT. STUMPS ARE TO BE REMOVED TO TWO FEET BELOW FINISHED GRADE.</p> <p>6. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF EXISTING SITE FEATURES NOT NOTED FOR REMOVAL.</p> <p>7. THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY PROVIDED TO THE ENGINEER FOR DESIGN. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY REQUIRE REMOVAL FOR THE PROPOSED SITE IMPROVEMENTS BUT THAT ARE NOT SHOWN HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SUCH ITEMS.</p> <p>8. VOIDS LEFT BY ANY ITEM REMOVED (FENCE POST, UTILITIES, SIGN, ETC.) SHALL BE BACKFILLED IN ACCORDANCE WITH SUDAS SPECIFICATION AND THE PROJECT SPECIFICATIONS.</p> <p>9. AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER SUDAS SPECIFICATIONS TO PRESENT A NEAT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES OR OTHER MEANS OF MAINTAINING ADEQUATE SITE DRAINAGE.</p> <p>10. ALL EXISTING SANITARY SEWERS, STORM SEWERS, WATER MAINS OR IRRIGATION LINES AND APPURTENANCES NOTED FOR REMOVAL WITHIN THE AREA OF THE PROPOSED CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.</p> <p>11. CONSTRUCTION FENCE TO HAVE OPAQUE NETTING THAT IS SECURELY FASTENED</p>		<p>GRADING NOTES:</p> <p>1. ALL GRADING AND SITE PREPARATION WORK SHALL CONFORM WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN SUDAS SECTION 2010.</p> <p>2. THE FACILITY WILL PROVIDE SOIL BORROW AND WASTE LOCATIONS ON-SITE AT THE CEMETERY. CONTRACTOR TO COORDINATE WITH THE CONSTRUCTION MANAGER AND FACILITY FOR ALL THE REQUIRED SOIL BORROW AND WASTE REQUIREMENTS. SOIL WASTE AND BORROW REQUIREMENTS SHALL BE INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE FRO SOIL BORROW OR WASTE INCLUDING HAULING REQUIREMENTS.</p> <p>3. GEOTECHNICAL SERVICES AND ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT, AND OTHER SOILS RELATED OPERATIONS SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL TESTING AND INSPECTION SERVICES.</p> <p>4. PROVIDE COMPACTION TESTS FOR AREAS UNDER PAVING AND STRUCTURES. TESTING TO BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL REQUIRED TESTING AND INSPECTION SERVICES.</p> <p>5. NO ROCK EXCAVATION IS ANTICIPATED ON THIS PROJECT, SHOULD ROCK BE ENCOUNTERED DURING CONSTRUCTION, NOTIFY THE OWNER'S REPRESENTATIVE.</p> <p>6. STRIP EXISTING VEGETATION WITHIN THE PROJECT LIMITS AND AREAS TO RECEIVE FILL.</p> <p>7. STRIP EXISTING TOPSOIL 6 INCHES DEEP WITHIN THE PROJECT LIMITS AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL SHALL BE STOCKPILED ON SITE AT A LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE. NOTE TOPSOIL DEPTHS MAY VARY ON-SITE.</p> <p>8. REMOVE AND RECOMPACT AREAS OF SUBGRADE WHICH ARE SOFT OR UNSTABLE TO MEET SPECIFIED LIMITS FOR DENSITY AND MOISTURE CONTENT. PAVED AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR.</p> <p>9. SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY FOR LOW- PLASTICITY COHESIVE SOILS AND 98% STANDARD PROCTOR DENSITY FOR GRANULAR SOILS.</p> <p>10. SUBGRADE PREPARATION SHALL BE A MINIMUM OF 8 INCHES DEEP AFTER FINE GRADING OR TRIMMING AND SHALL EXTEND TO A MINIMUM OF 2 FEET BEYOND THE EDGE OF THE PAVEMENT.</p> <p>11. DO NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS.</p> <p>12. PLACE FILL MATERIAL IN 8 INCH MAXIMUM LIFTS. FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN PAVED AREAS. FILLS BELOW LAWN AREAS SHALL BE COMPACTED TO 90% OF MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698).</p> <p>13. FILL MATERIAL SHOULD CONSIST OF APPROVED MATERIALS WHICH SHALL BE SOIL OR SOIL AND ROCK MIXTURE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTAIN NO ROCKS OR LUMPS OF 6 INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS SHALL BE LARGER THAN 2-1/2 INCHES IN GREATEST DIMENSION.</p> <p>14. MAINTAIN OPTIMUM MOISTURE CONTENT OF FILL MATERIALS TO ATTAIN REQUIRED COMPACTION DENSITY. CONTRACTOR IS RESPONSIBLE FOR CONDITIONING AND RECONDITIONING AS NEEDED. IT IS INCIDENTAL TO THE PROJECT. PLACE FILL MATERIAL OF LOW PLASTICITY COHESIVE SOILS WITHIN -2% TO +3% OF OPTIMUM MOISTURE CONTENT. FOR GRANULAR MATERIAL, THE ACCEPTABLE RANGE IS -3% TO +3% OF OPTIMUM MOISTURE CONTENT. CONTRACTOR IS RESPONSIBLE FOR CONDITIONING/RECONDITIONING AS NEEDED AT NO ADDITIONAL COST TO OWNER.</p> <p>15. EVENLY RESPREAD TOPSOIL STOCKPILE TO A MINIMUM 6 INCHES DEPTH WITHIN PROPOSED PERVIOUS AREAS.</p> <p>16. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVEMENT SECTIONS (ROADS,WALKS,DRIVE, ETC.) OR TOPSOIL AS INDICATED ON THE PLANS</p> <p>17. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS, UNLESS CALLED OUT ON THE PLANS</p> <p>18. FINISH CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO TOP OF PAVEMENT OR TO TOP OF TOPSOIL, UNLESS OTHERWISE NOTED.</p> <p>19. UNSUITABLE SOILS MAY EXIST IN THE AREAS OF THE SITE REQUIRING FILL. THESE SOILS MAY NEED TO BE REMOVED AND REPLACED WITH STABILIZED SUBGRADE. STABILIZED SUBGRADE MATERIAL SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF UNSUITABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION SHALL NOT PROCEED UNTIL UNSUITABLE SOILS ARE PROPERLY REMOVED AND REPLACED BY STABILIZED SUBGRADE MATERIALS TO THE SATISFACTION OF THE OWNER.</p>		
	2	<p>11. CONTRACTOR SHALL ADJUST ALL VALVES, MANHOLES, CASTINGS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.</p> <p>12. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. EXACT LOCATION, ELEVATION AND INVERTS OF ALL UTILITIES,SERVICES AND CONNECTIONS MUST BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.</p> <p>13. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL BY CALLING 811 OR 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.</p> <p>14. CONTRACTOR SHALL SCHEDULE A UTILITY LOCATING SERVICE AND/OR NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION AND HORIZONTAL AND VERTICAL ELEVATION OF UNDERGROUND UTILITIES AND PROPOSED POINTS OF CONNECTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. IF CONFLICTS ARE FOUND, NOTIFY THE ENGINEER. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PUBLIC AND PRIVATE UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES MARKED PRIOR TO CONSTRUCTION.</p> <p>15. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS PRIOR TO EACH STAGE OF CONSTRUCTION. NOTIFY THE APPROPRIATE PUBLIC AND PRIVATE UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ON ANY FACILITIES OWNED OR OPERATED BY THAT UTILITY.</p> <p>16. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES/OWNERS REGARDING OUTAGES, RELOCATION, ADJUSTMENT, CONNECTIONS, OR TEMPORARY SUPPORT OF THEIR FACILITIES. COORDINATE ALL UTILITY OUTAGES WITH PROVIDER OF UTILITY A MINIMUM OF 12 BUSINESS DAYS IN ADVANCE.</p> <p>17. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. AT NO TIME WILL EITHER THE OWNER/OPERATOR OR THE ENGINEER TAKE RESPONSIBILITY FOR EITHER THE MEANS OF THE WORK OR THE SAFETY OF THE CONTRACTOR'S EMPLOYEES.</p> <p>18. ALL OPEN EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH REGULATORY REQUIREMENTS.</p> <p>19. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION. ANY DAMAGE CAUSED BY A FAILURE TO MAINTAIN POSITIVE DRAINAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.</p> <p>20. CONSTRUCTION ACTIVITIES ARE TO BE LIMITED TO THE LIMITS OF THE PROJECT AS INDICATED ON THE PLANS. IF ADDITIONAL AREAS ARE NEEDED FOR STAGING, STORAGE, ETC., IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN WRITTEN PERMISSION FROM THE PROPERTY OWNER(S).</p> <p>21. ALL EMERGENCY ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.</p> <p>22. SITE CLEAN-UP TO BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. WITHIN AND ADJACENT TO PROJECT LIMITS SHALL BE KEPT CLEAN AT ALL TIMES. ALL COSTS FOR CLEANING SHALL BE INCIDENTAL TO THE CONTRACT.</p> <p>23. ALL TRAFFIC AND PEDESTRIAN CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).</p> <p>24. ALL CONSTRUCTION STAKING, LAYOUT, SCHEDULING, AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.</p>		<p>SURFACE RESTORATION:</p> <p>1. REFER TO LANDSCAPE PLAN FOR PERMANENT SEEDING LOCATIONS, MIXES, PLANTING INSTRUCTIONS AND DETAILS.</p> <p>2. ALL DISTURBED AREAS NOT PAVED OR HARD SURFACE ON THE SITE SHALL RECEIVE 6 INCHES OF TOPSOIL. SCARIFY AREAS TO RECEIVE TOPSOIL TO A DEPTH OF 6 INCHES. REMOVE ALL STONES, WOOD, AND OTHER DEBRIS LARGER THAN 3 INCHES FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL.</p> <p>3. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SUDAS SPECIFICATION SECTION 9010. SPRING SEEDING SHALL BE COMPLETED BETWEEN MARCH 1 AND MAY 31. FALL SEEDING SHALL BE COMPLETED BETWEEN AUGUST 10 AND SEPTEMBER 30.</p> <p>4. ALL SOD SHALL FOLLOW SUDAS SPECIFICATION SECTION 9020.</p> <p>5. CONTRACTOR TO SUBMIT PROPOSED SEED MIX, FERTILIZER, AND MULCH PRODUCTS FOR OWNER APPROVAL PRIOR TO APPLICATION.</p> <p>6. ALL AREAS DISTURBED BY CONSTRUCTION, NOT DESIGNATED AS PLANTED, TO BE SEEDED USING SUDAS TYPE 1 SEED MIX.</p> <p>7. ALL SEEDED AREAS SHALL BE MULCHED WITH HYDRAULIC MULCHING PER SUDAS SPECIFICATION SECTION 9010.2.07.B.</p> <p>8. MAINTAIN ANY SEEDED AREAS UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN ESTABLISHED. RESEED ANY AREAS AS NECESSARY DURING MAINTENANCE PERIOD.</p>		<p>19. UNSUITABLE SOILS MAY EXIST IN THE AREAS OF THE SITE REQUIRING FILL. THESE SOILS MAY NEED TO BE REMOVED AND REPLACED WITH STABILIZED SUBGRADE. STABILIZED SUBGRADE MATERIAL SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF UNSUITABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION SHALL NOT PROCEED UNTIL UNSUITABLE SOILS ARE PROPERLY REMOVED AND REPLACED BY STABILIZED SUBGRADE MATERIALS TO THE SATISFACTION OF THE OWNER.</p> <p>20. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL AND STATE REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.</p> <p>21. CONTROL DUST FROM ALL WORK AND STAGING AREAS.</p> <p>22. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.</p> <p>23. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PERIODIC CHECKING AND REINSTALLATION/MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES. EROSION CONTROL DEVICES SHALL BE CHECKED ONCE PER WEEK AND AFTER EACH RAINFALL TO ENSURE WORKING ORDER.</p>	
		3					
4							

SHIVE-HATTERY ARCHITECTURE+ENGINEERING 800.798.0313 SHIVE-HATTERY.COM	IDAS - IVC COLUMBARIUM AND IRRIGATION PACKAGE 1	IOWA DEPARTMENT OF VETERANS AFFAIRS DAS PROJECT NUMBER: 0517.00 34024 VETERANS MEMORIAL DR, ADEL, IA 50003	BDD	CRB								
			DRAWN BY	APPROVED BY	ISSUED FOR	ISSUE DATE	PROJECT NUMBER	CLIENT PROJECT NUMBER				
					100% CONSTRUCTION DOCUMENTS	2025-06-12	2250022390					
CONSTRUCTION NOTES												
C001												

GENERAL UTILITY NOTES:

1. ALL UTILITY WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH SUDAS STANDARD SPECIFICATIONS AND CITY REQUIREMENTS.
2. TRENCH, EXCAVATION AND BACKFILL SHALL FOLLOW DIVISION 3 SUDAS SPECIFICATION SECTIONS.
3. DEWATERING IS INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL MAKE PROVISIONS TO HANDLE WATER ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE OF THE PROPOSED METHOD OF DEWATERING.
4. SEE ARCHITECTURAL PLANS FOR FOUNDATION DRAIN DESIGN.
5. ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRUCTURES OR PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL STORM FLOW ONSITE UNTIL NEW SYSTEM IS INSTALLED.
7. ALL STORM BENDS AND CONNECTIONS SHALL BE MANUFACTURED CONNECTIONS.
8. THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET WITH WITNESS DIMENSIONS TO ALL CONNECTIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.

STORM SEWER NOTES:

1. STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SUDAS DIVISIONS 4 AND 6.
2. HDPE STORM SEWER PIPE SHALL BE TYPE S CORRUGATED EXTERIOR AND SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE PIPE WITH WATERTIGHT JOINTS PER SUDAS SPECIFICATION SECTION 4020.
3. HDPE AND PVC STORM SEWER PIPE BEDDING SHALL BE SUDAS DIVISION 3, SW-103 CLASS F-2, UNLESS NOTED OTHERWISE ON THE PLANS.
4. CONTRACTOR SHALL CONNECT ALL SUBDRAINS INTO STORM INTAKES OR ADJACENT STORM SEWERS AS SHOWN ON THE PLANS WITH MANUFACTURER FITTINGS.

PAVEMENT GENERAL NOTES:

1. SEE ARCHITECTURAL PLANS FOR ANY SPECIAL EXCAVATION AND FILL REQUIREMENTS WITHIN THE NICHE WALL FOOTPRINT.
2. ALL DIMENSIONS AND CURB RADII SHOWN ARE MEASURED FROM BACK OF CURB TO BACK OF CURB/EDGE OF PAVEMENT TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY AREAS OF EXISTING OR PROPOSED PAVEMENTS THAT HAVE POTENTIAL TO POND WATER AND MAKE ANY ADJUSTMENTS NECESSARY TO ENSURE THAT WATER WILL POSITIVELY DRAIN ACROSS THE PAVING OR OVERLAY.
4. ALL SIDEWALKS SHALL BE CONSTRUCTED PER SUDAS SECTION 7030.
5. ALL PROPOSED PCC PAVEMENT SHALL BE PROTECTED ACCORDING TO SUDAS SECTION 7010-3.04.

PCC PAVEMENT NOTES:

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND 2,800 PSI AT 7 DAYS, WITH AIR CONTENT OF 7.0% ± 1.5% FOR HAND FINISHED OR 8.0% ± 2.0% FOR MACHINE FINISHED, AND LIMESTONE AGGREGATE 1-1/2 INCH MAXIMUM SIZE. SLUMP SHALL BE 1/2" - 4" FOR HAND FINISHED OR 1/2" - 2" FOR MACHINE FINISHED. PROVIDE ENGINEER WITH CONCRETE MIX DESIGN FOR APPROVAL.
2. MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO SUDAS SPECIFICATION 7010 FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT. M-MIX CAN BE USED WITH APPROVAL OF ENGINEER.
3. COARSE AGGREGATE DURABILITY SHALL BE CLASS II.
4. ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. OR ONE PER DAY IF LESS THAN 100 CY FROM SAME READY MIX PLANT. TESTING TO BE COMPLETED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK. SUBMIT ALL REPORTS TO THE ENGINEER.
5. PER SUDAS SECTION 7010, CONTRACTOR SHALL APPLY WHITE PIGMENT LIQUID CURING COMPOUND IN A FINE SPRAY TO FORM CONTINUOUS UNIFORM FILM AFTER FINISHING AND SURFACE MOISTURE HAS DISAPPEARED, OR WITHIN 30 MINUTES OF PLACEMENT.
6. COLD-WEATHER PLACEMENT: COMPLY WITH SUDAS SECTION 7010 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
 - a. WHEN AVERAGE HIGH AND LOW TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEG F FOR THREE SUCCESSIVE DAYS, MAINTAIN DELIVERED CONCRETE MIXTURE TEMPERATURE WITHIN THE TEMPERATURE RANGE REQUIRED BY SUDAS SECTION 7010.
 - b. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS.
 - c. DO NOT USE CALCIUM CHLORIDE, SALT, OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIXTURE DESIGNS.
7. CURBS SHALL BE CAST INTEGRAL WITH CONCRETE PAVEMENT UNLESS NOTED OTHERWISE. EDGES SHALL BE ROUNDED BUT NOT ROLLED.
8. THE CONTRACTOR SHALL SUBMIT A JOINTING AND A PAVEMENT POURING DIAGRAM TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO PAVEMENT OPERATIONS.

PCC JOINTING NOTES:

1. JOINTING SHOULD CONFORM TO SUDAS SECTION 7010.
2. ALL JOINT TYPES REFERRED TO IN THE FOLLOWING NOTES OR ELSEWHERE ON THE PLANS ARE DETAILED IN IOWA SUDAS STANDARD DETAIL 7010.101.
3. PAVEMENT LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE TYPE "C". TYP. SIDEWALK PAVING JOINTS SHOULD BE LAID OUT AND SPACED TO MATCH THE EXISTING COLUMBARIUM JOINTING PATTERNS.
4. INSTALL 1 INCH EXPANSION JOINT AT ALL LOCATIONS WHERE PAVEMENT ABUTS A STRUCTURE OR BACK-OF-CURB.
5. ALL EXPANSION JOINTS SHALL BE SEALED WITH A PEDESTRIAN RATED, SELF-LEVELING, ELASTOMERIC POLYURETHANE SEALANT, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUBMITTAL OF ALL SEALANTS TO ENGINEER FOR REVIEW.
6. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR APPROVAL, PRIOR TO PAVING.

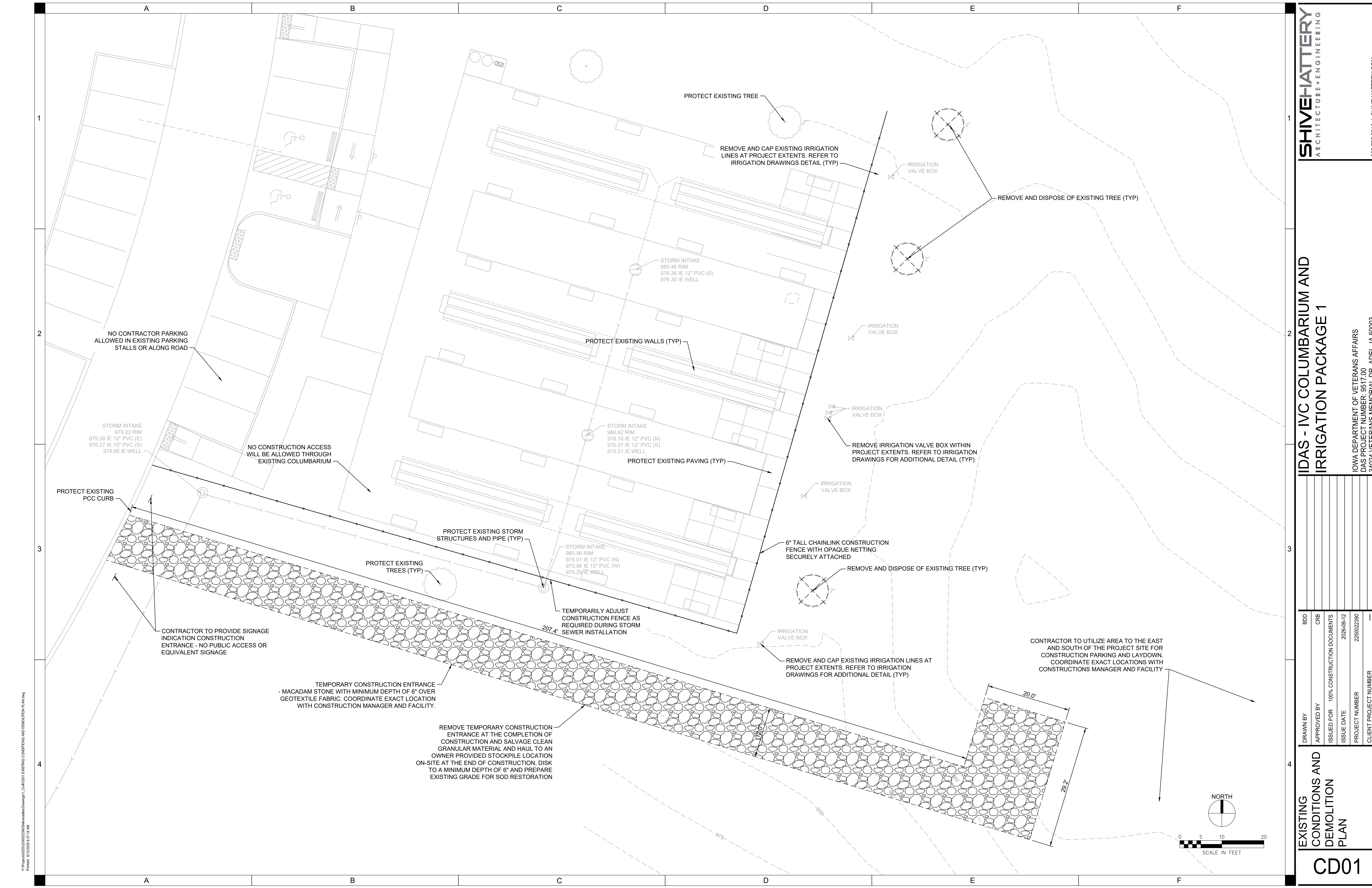
**IDAS - IVC COLUMBARIUM AND
IRRIGATION PACKAGE 1**

IOWA DEPARTMENT OF VETERANS AFFAIRS
DAS PROJECT NUMBER: 0617.00
34024 VETERANS MEMORIAL DR, ADEL, IA 50003

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**CONSTRUCTION
NOTES**

C002



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EXISTING CONDITIONS AND DEMOLITION PLAN
CD01

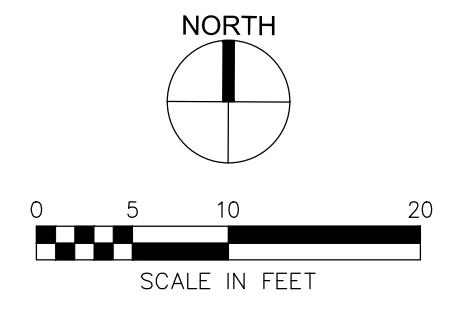
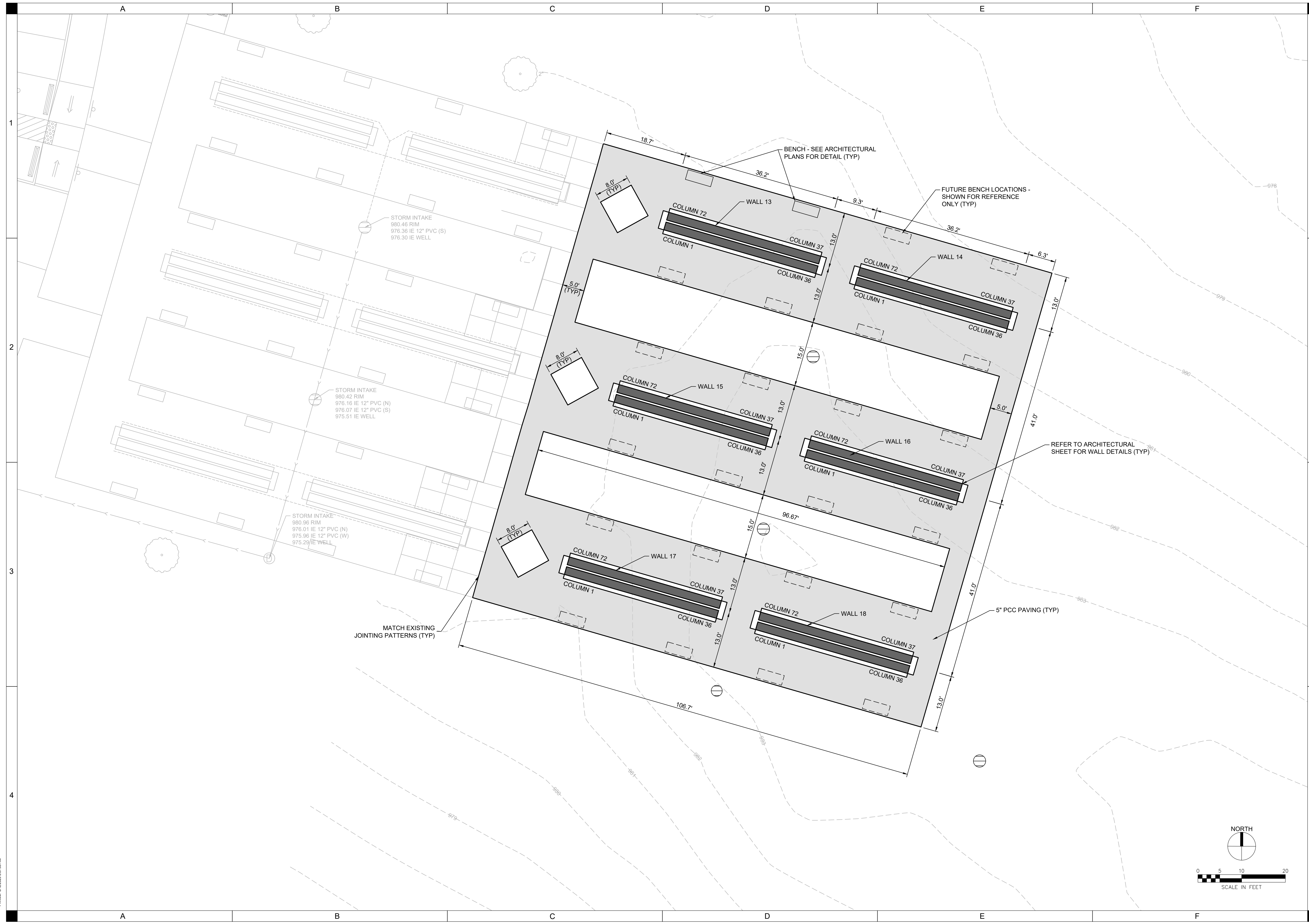
**IDAS - IVC COLUMBARIUM AND
IRRIGATION PACKAGE 1**

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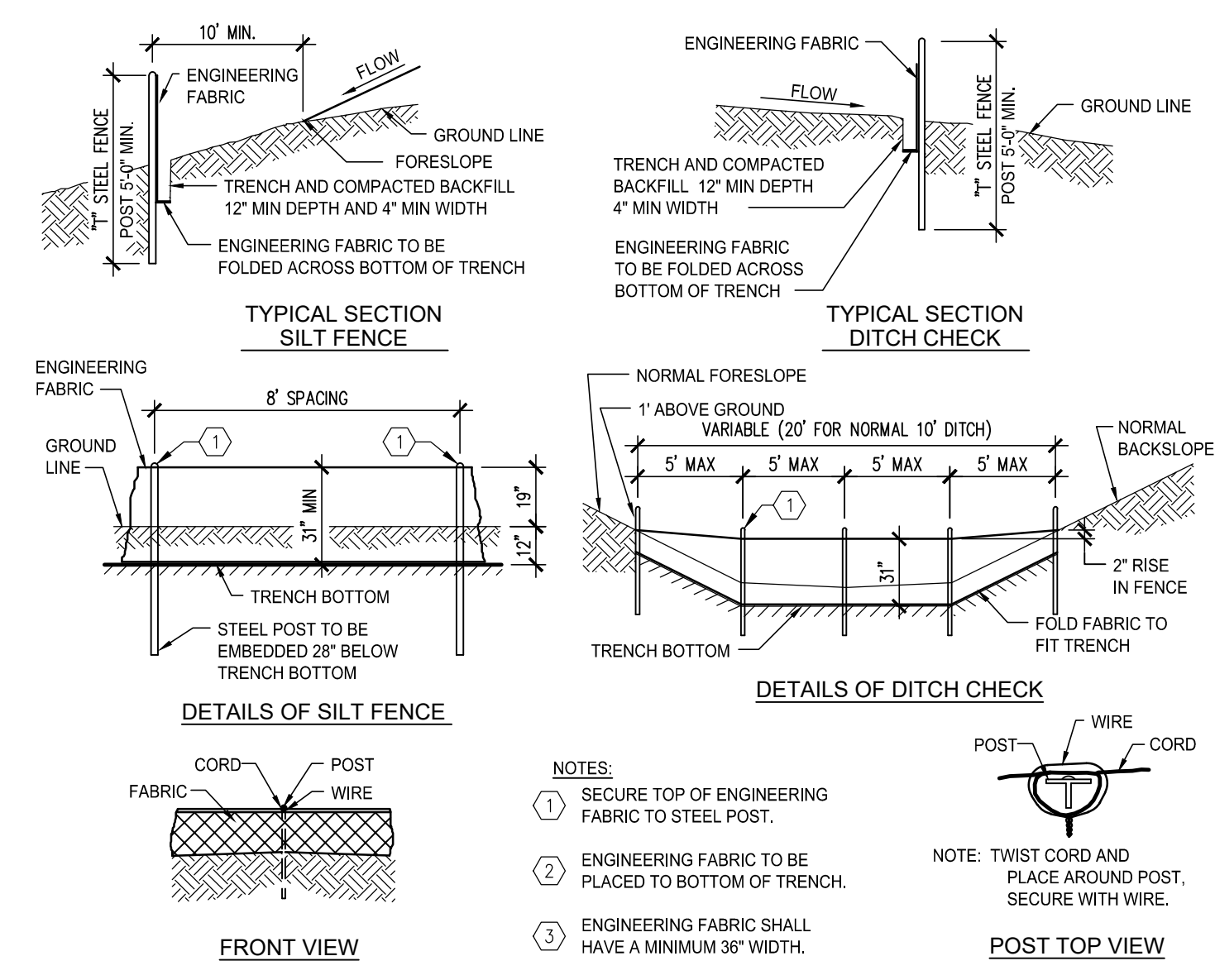
SITE PLAN

C101

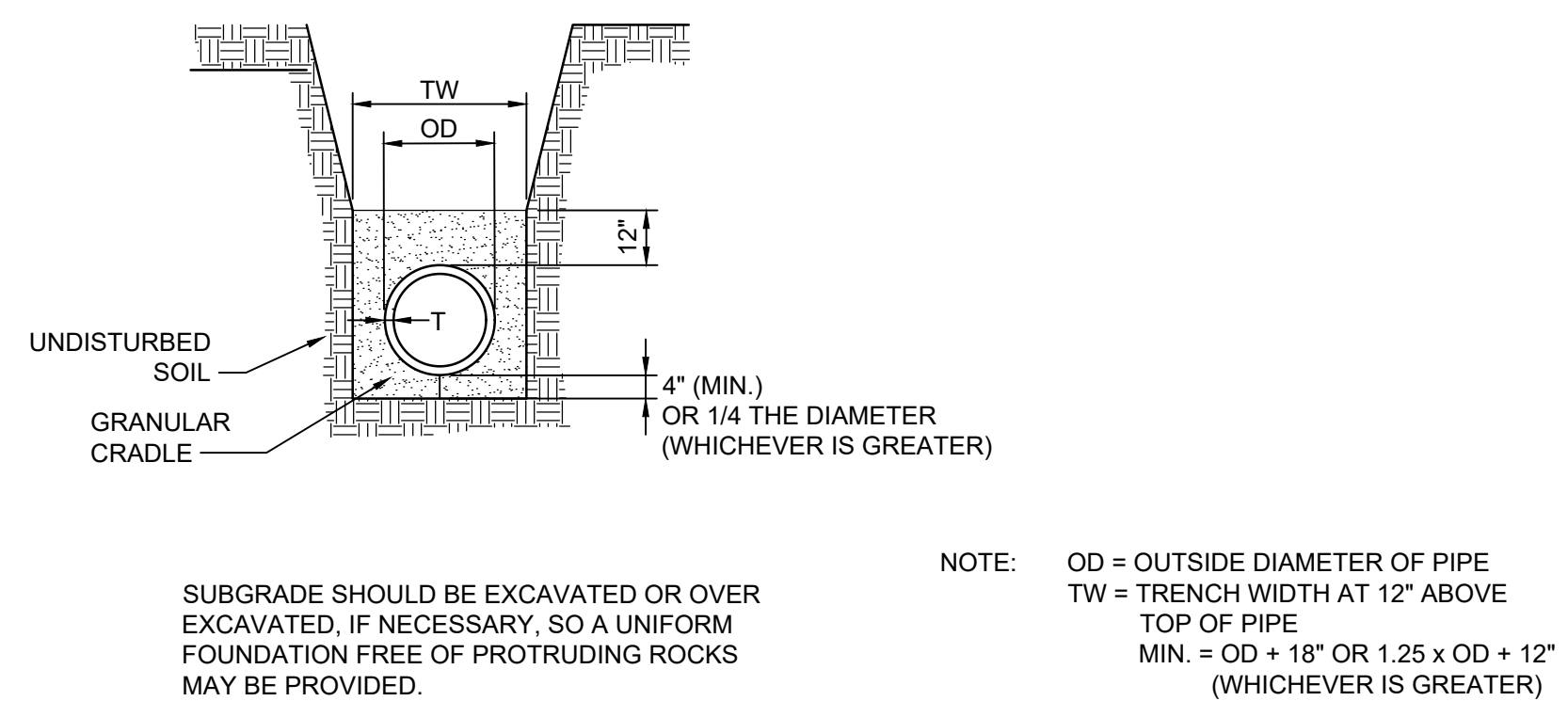


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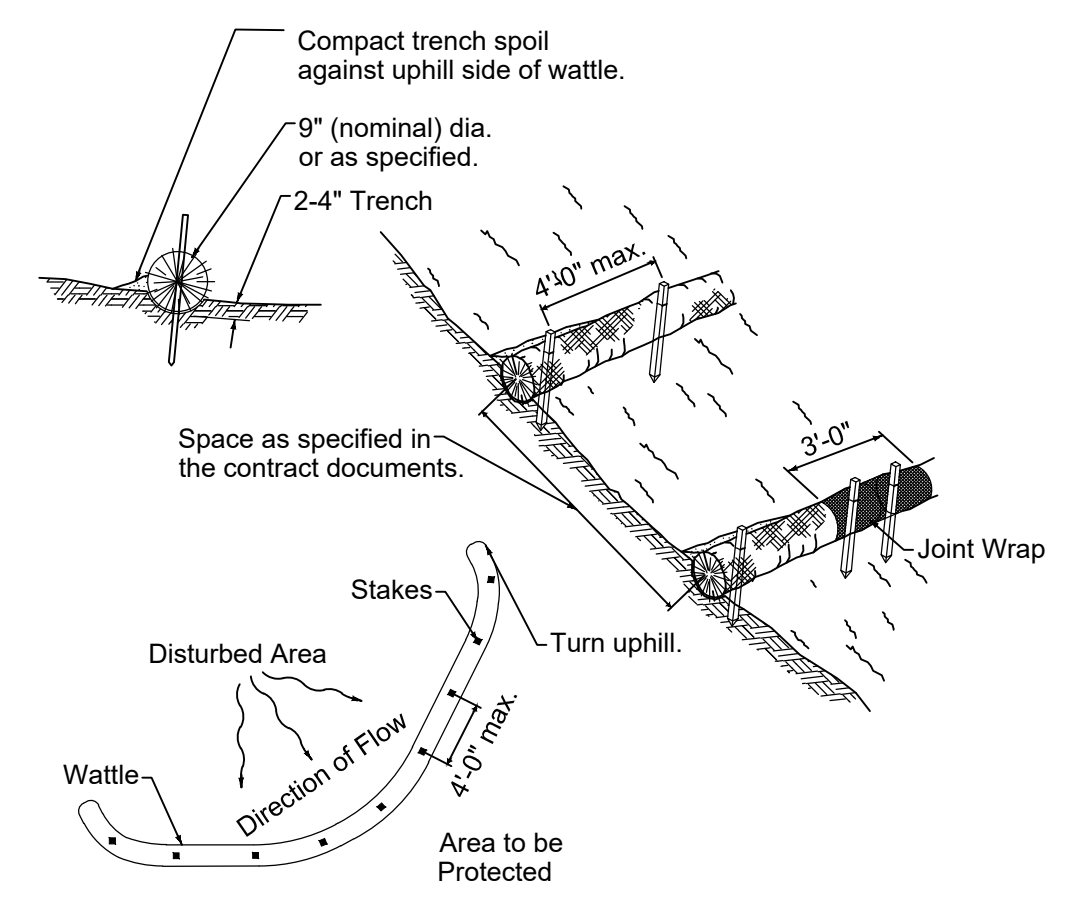
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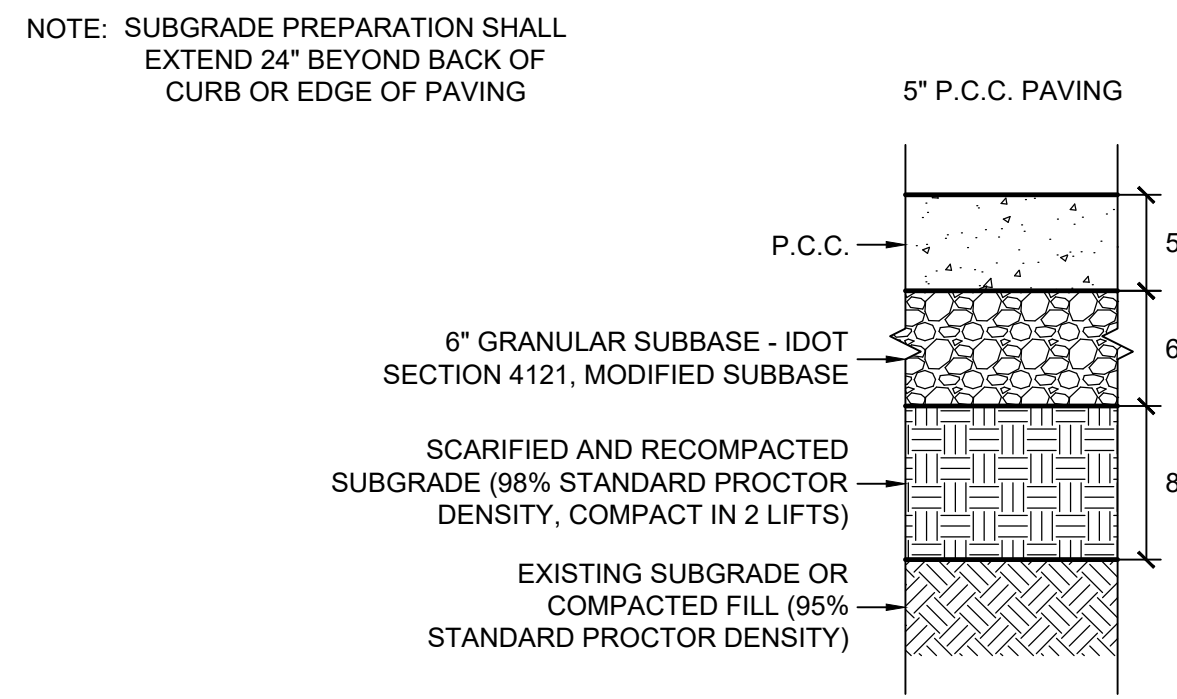
E2 SILT FENCE
NTS



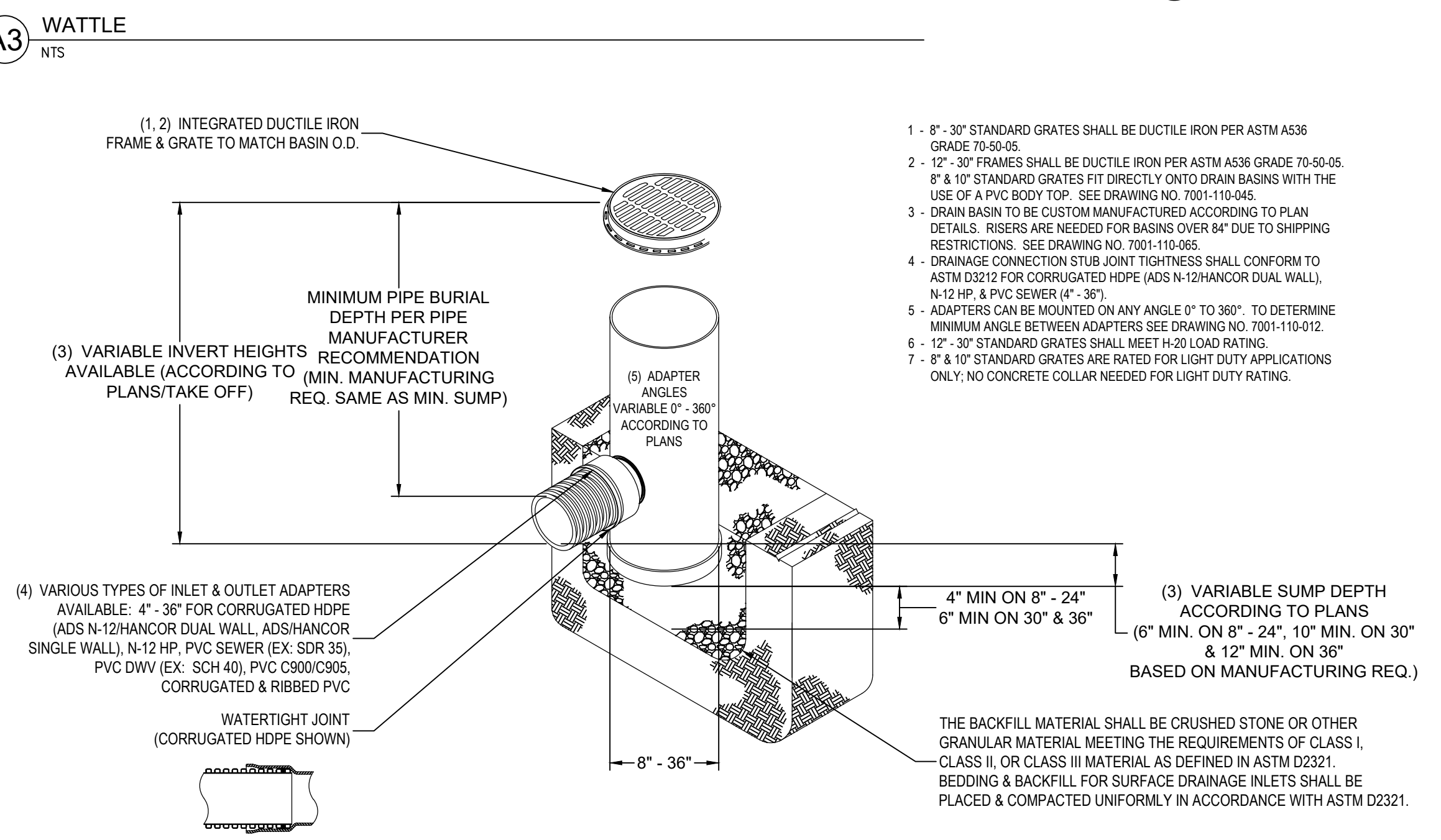
E3 FLEXIBLE PIPE EXCAVATION & BEDDING
NTS



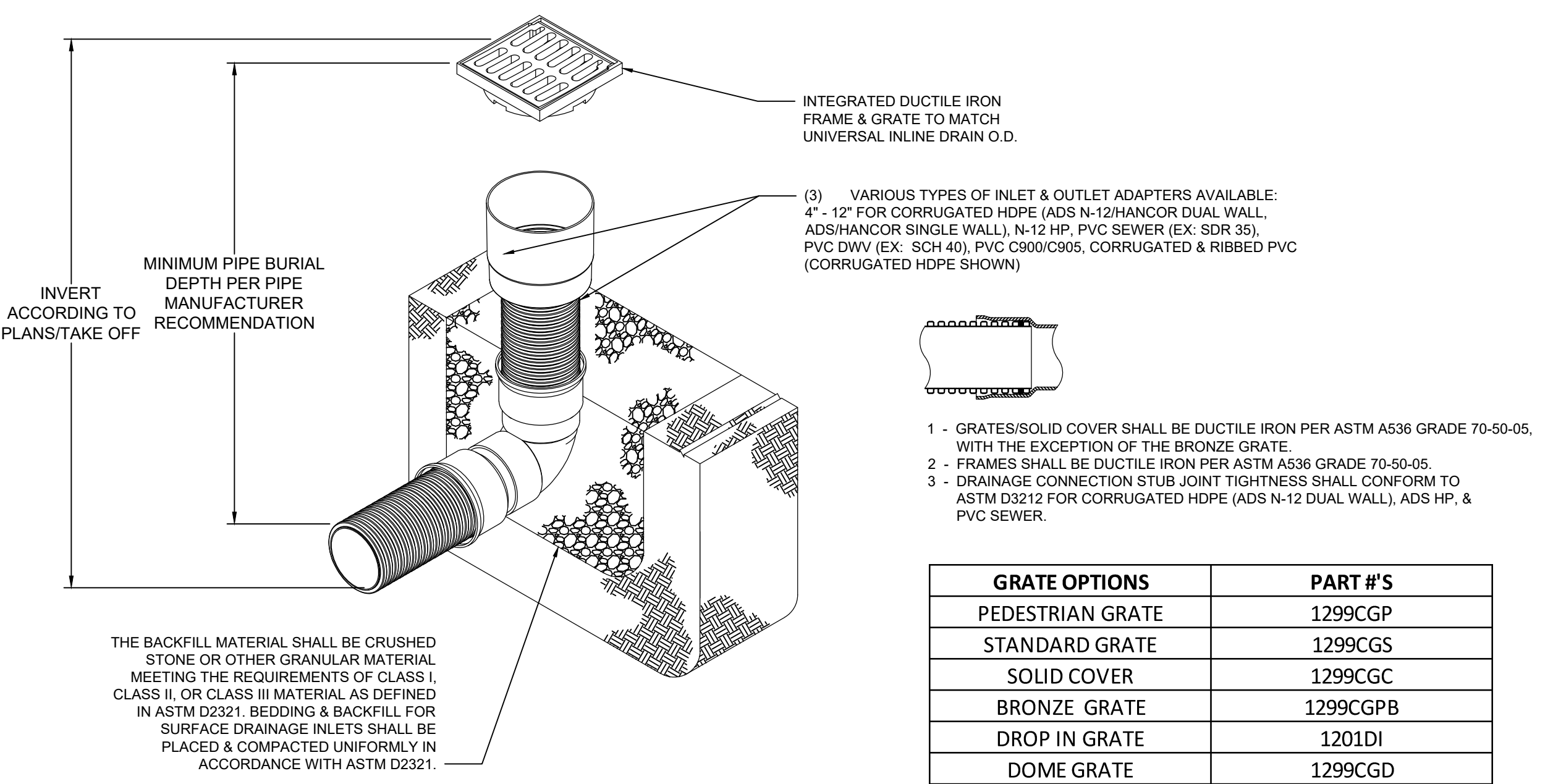
A3 WATTLE
NTS



C3 PAVEMENT CROSS-SECTIONS
NTS

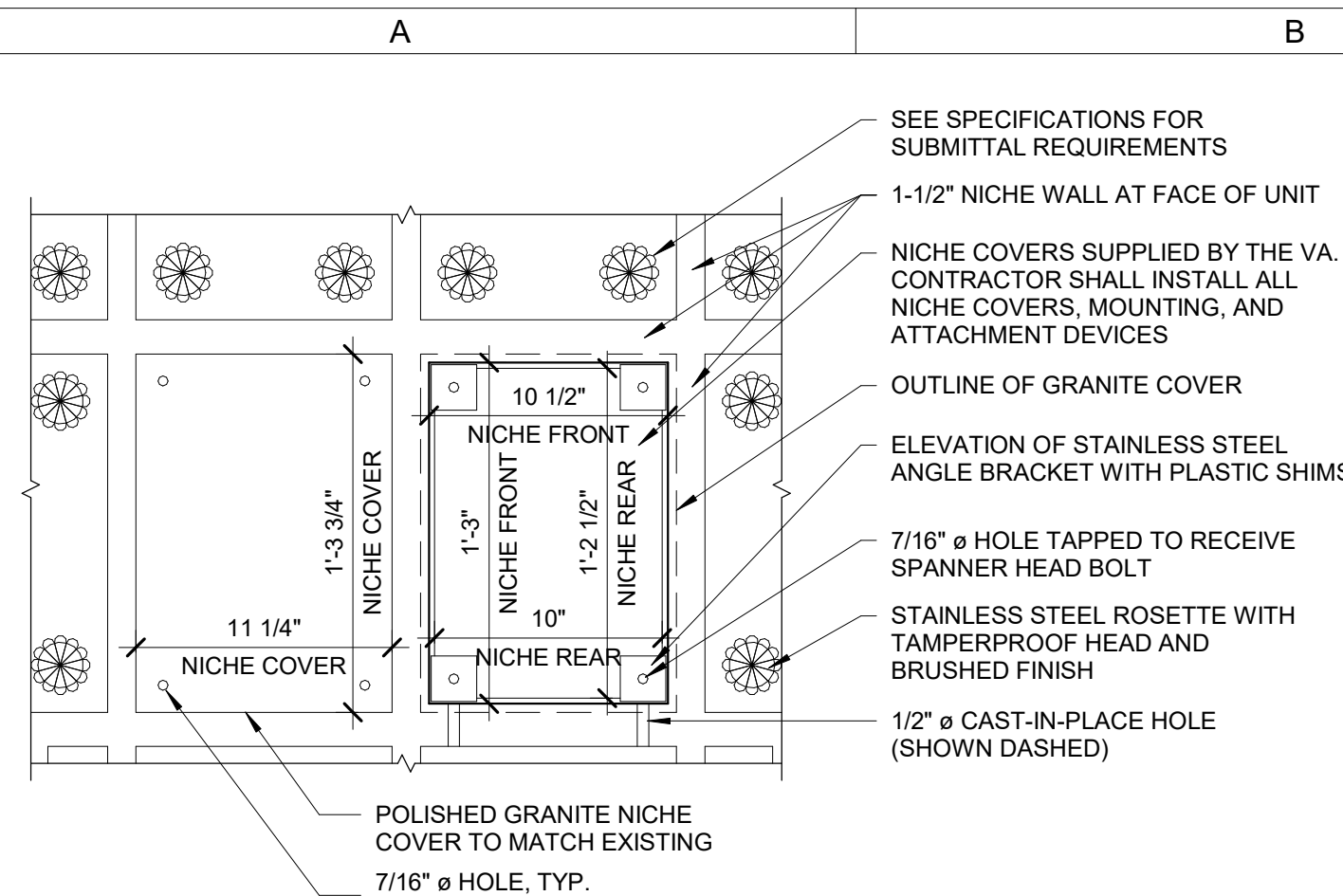


A4 NYLOPLAST DRAIN BASIN OR APPROVED EQUAL
NOT TO SCALE

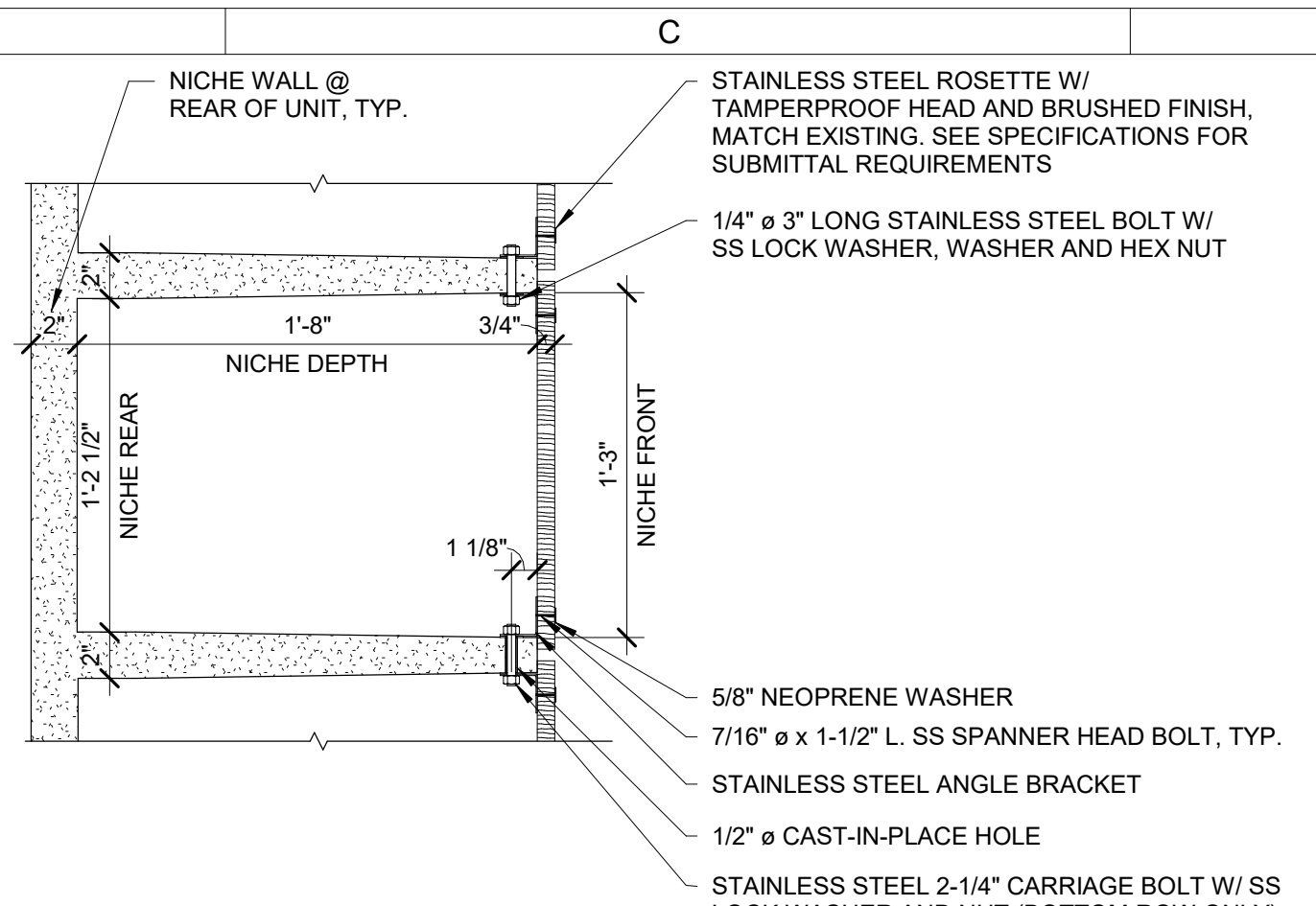


D4 NYLOPLAST 12" UNIVERSAL INLINE DRAIN - NON TRAFFIC RATED INSTALLATION
NOT TO SCALE

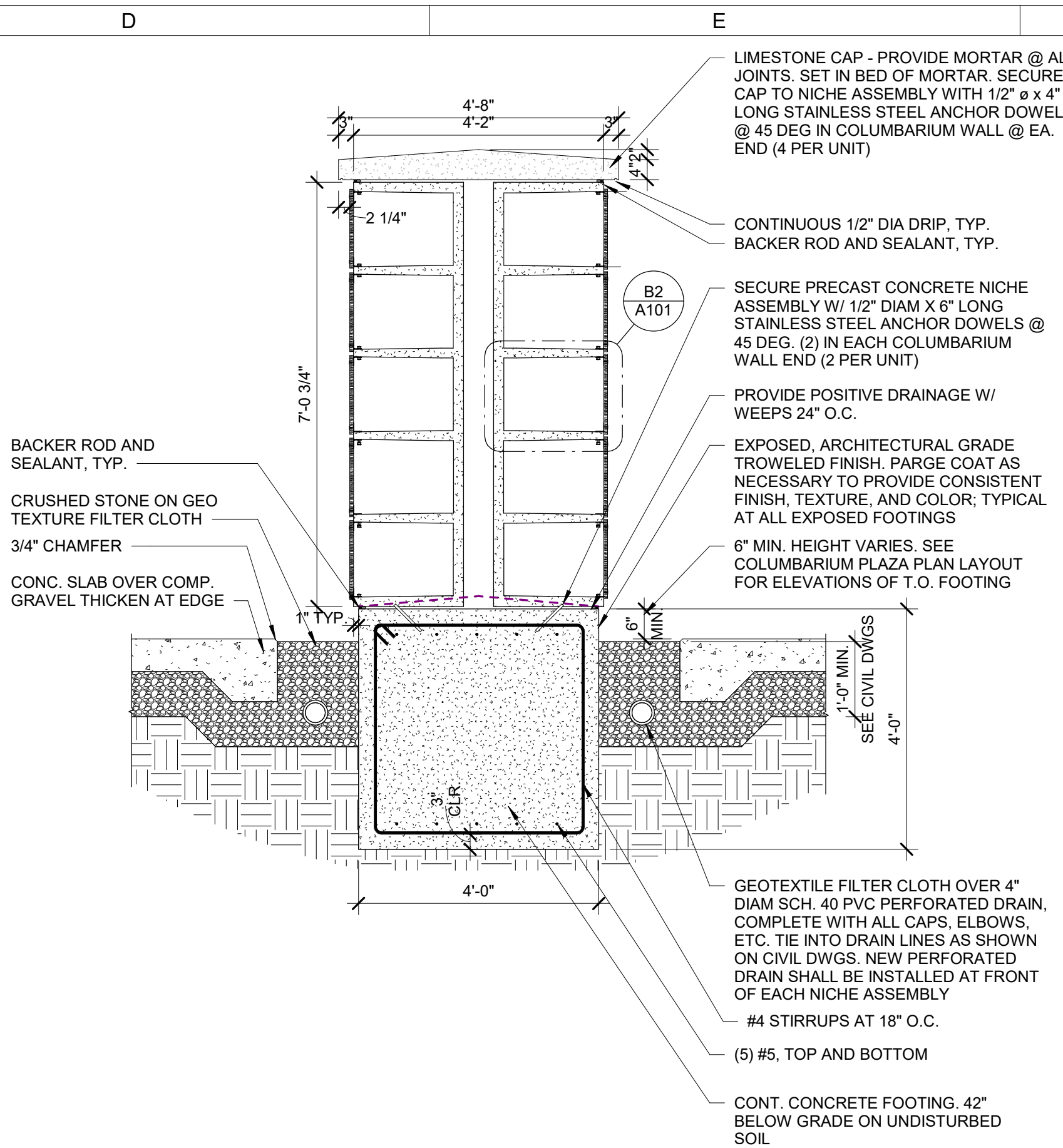
GRATE OPTIONS	PART #'S
PEDESTRIAN GRATE	1299CGP
STANDARD GRATE	1299CGS
SOLID COVER	1299CGC
BRONZE GRATE	1299CGPB
DROP IN GRATE	1201DI
DOME GRATE	1299CGD
2' X 2' ROAD & HIGHWAY	3299CGSQF12



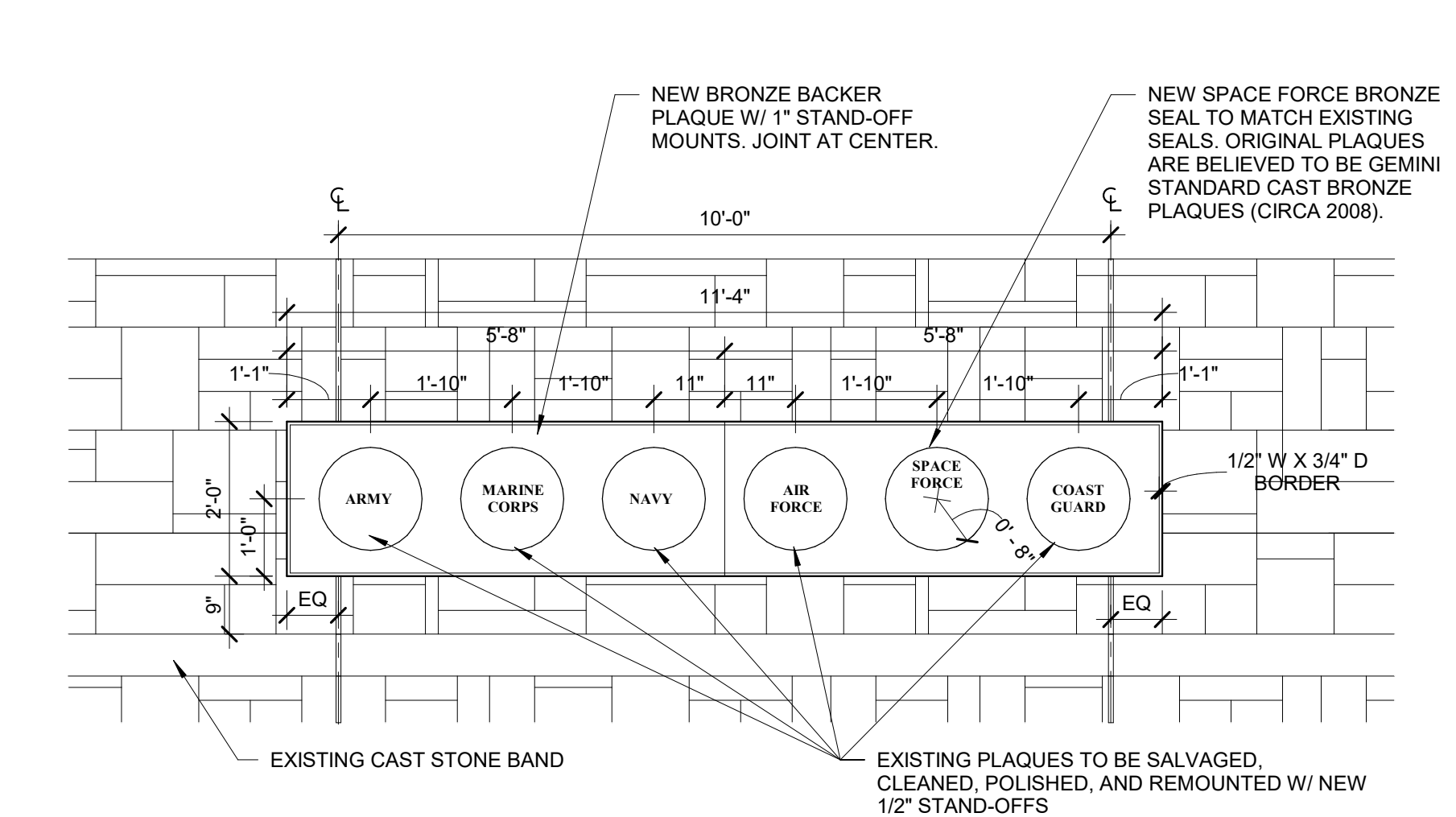
A2 TYPICAL NICHE ELEVATION
1 1/2" = 1'-0" 0 1'



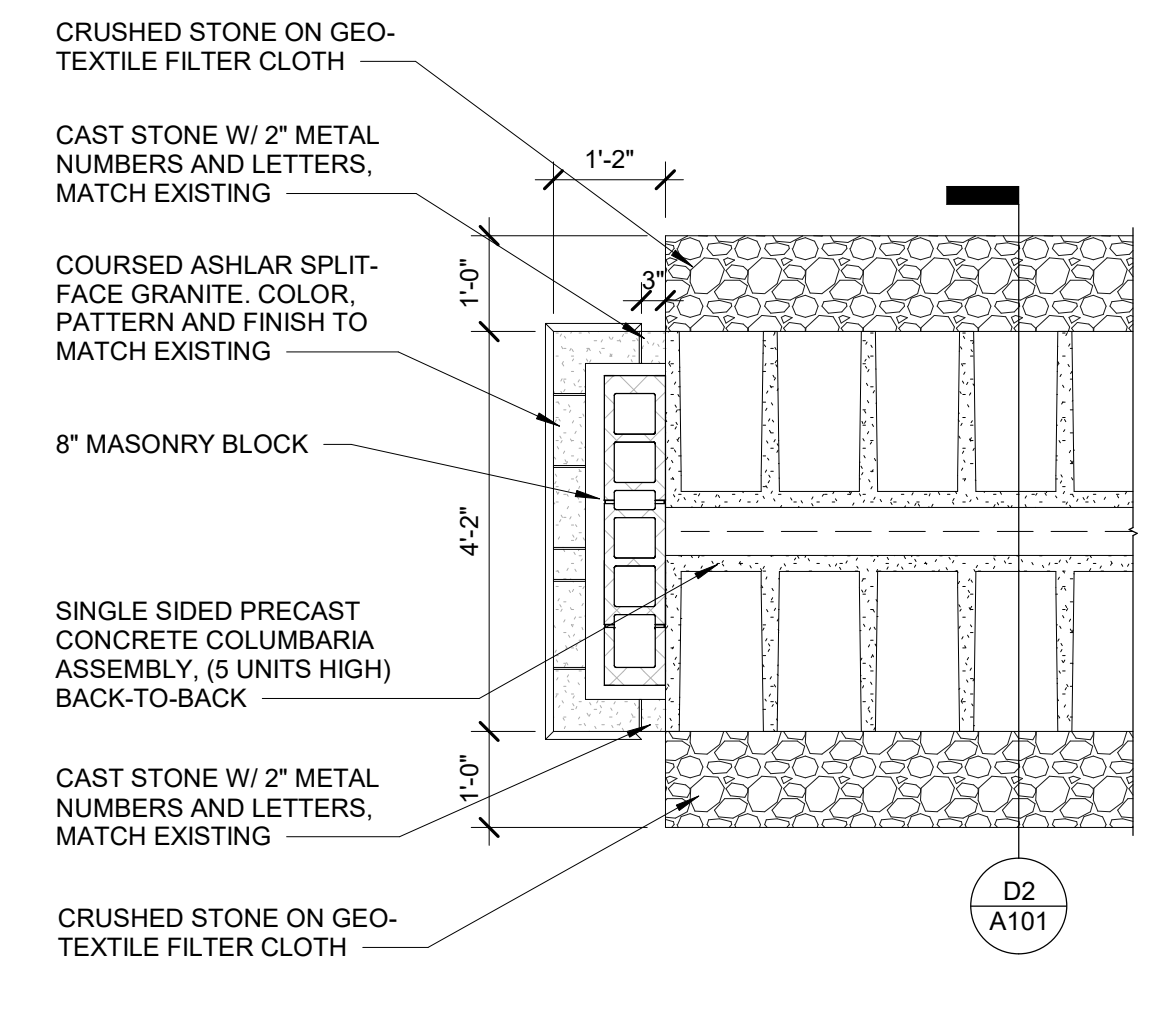
B2 DETAIL THROUGH NICHE
1 1/2" = 1'-0" 0 1'



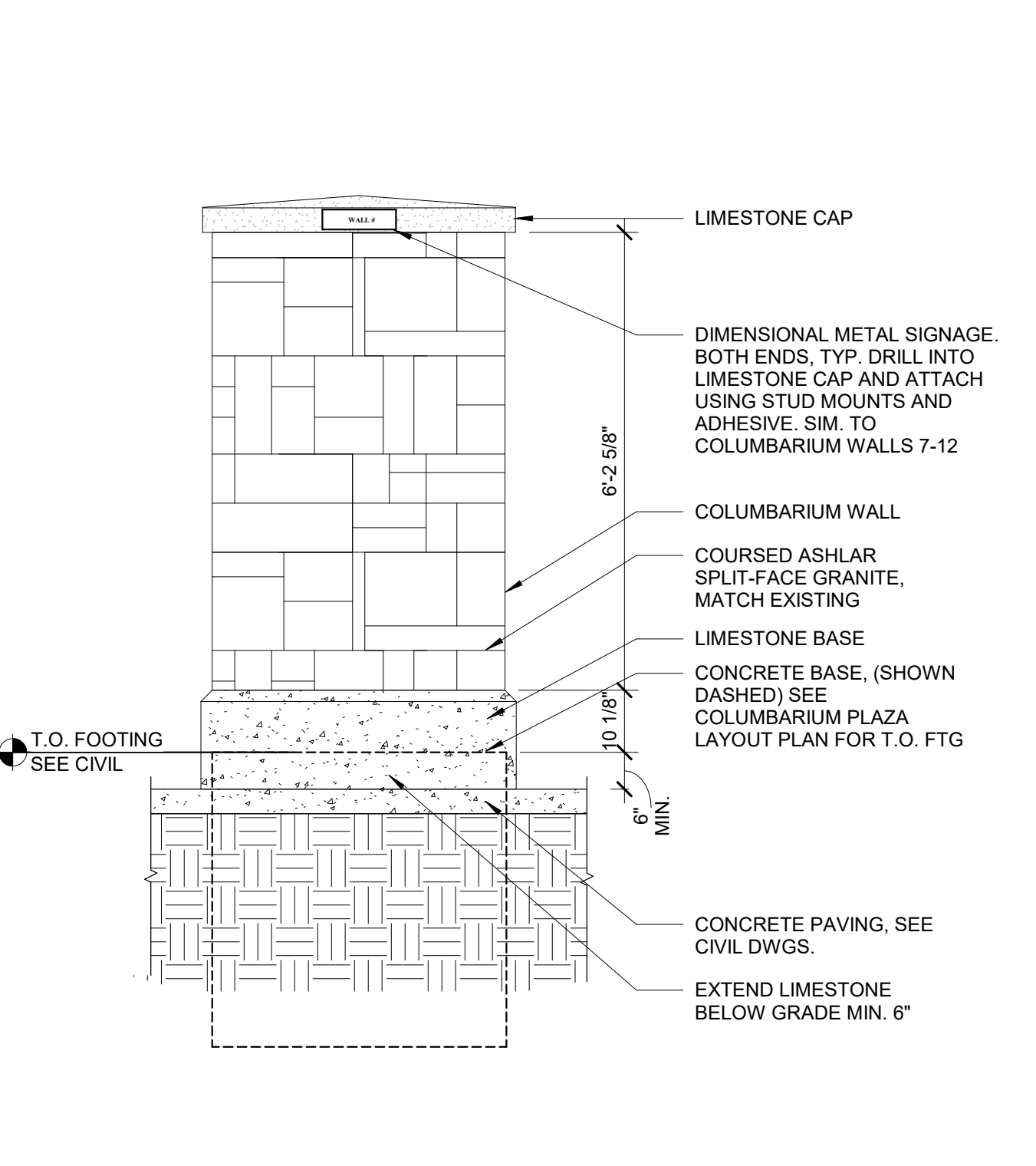
D2 TYPICAL SECTION THROUGH COLUMBARIUM WALL
1/2" = 1'-0" 0 3'



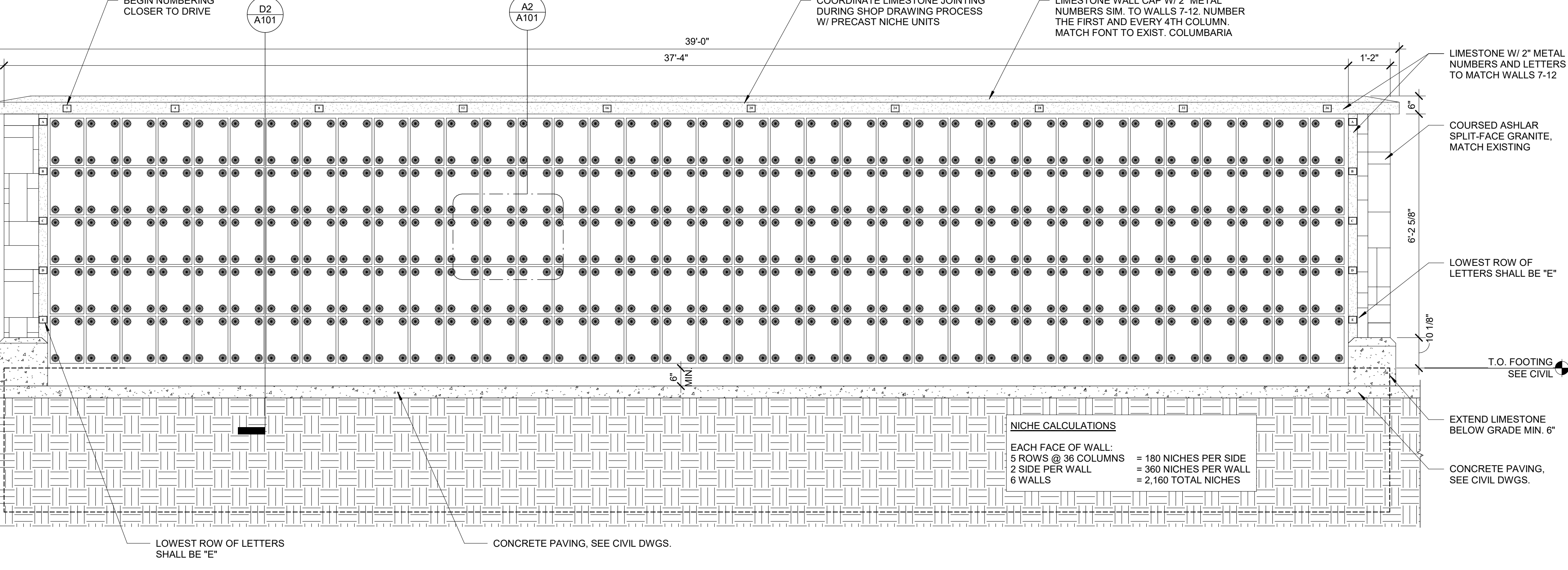
A3 SERVICE PLAQUE LOCATIONS
1/2" = 1'-0" 0 3'



C3 COLUMBARIUM END - PLAN DETAIL
1/2" = 1'-0" 0 3'



A4 TYPICAL END ELEVATION
1/2" = 1'-0" 0 3'



B4 TYPICAL FRONT ELEVATION
1/2" = 1'-0" 0 3'

NICHE CALCULATIONS
EACH FACE OF WALL:
5 ROWS @ 36 COLUMNS = 180 NICHE PER SIDE
2 SIDE PER WALL = 360 NICHE PER WALL
6 WALLS = 2,160 TOTAL NICHE

NOTE:
CONTRACTOR SHALL COORDINATE AND ADJUST ALL DIMENSION WITH ACTUAL SIZE OF COLUMBARIUM NICHE TO BE SUPPLIED.

NOTE:
PRE-CAST CONCRETE COLUMBARIUM NICHE ASSEMBLY SHOP DRAWING SHALL SHOW AND SPECIFY ALL STEEL REINFORCING WITHIN UNITS AND SHALL BE SIGNED AND SEALED BY STRUCTURAL ENGINEER REGISTERED IN IOWA.

NOTE:
SHOP DRAWINGS SHALL ALSO INCLUDE DETAILS FOR PRE-CAST CONCRETE CAP ATTACHMENT AND ALL ANCHORING TECHNIQUES.

NOTE:
COORDINATE INSTALLATION OF NICHE COVERS WITH CEMETERY REPRESENTATIVES. APPROVAL BY CEMETERY REPRESENTATIVES, ARCHITECT, AND CONSTRUCTION MANAGER IS REQUIRED FOR HORIZONTAL AND VERTICAL ALIGNMENT OF NICHE COVERS BEFORE INSTALLATION CAN BE CONSIDERED COMPLETE.

NOTE:
CONTRACTOR SHALL BE AWARE THAT NICHE COVERS WILL BE PROVIDED BY THE VA. CONTRACTOR IS REQUIRED TO PROVIDE ALL MOUNTING DEVICES AND INSTALL NICHE COVERS.

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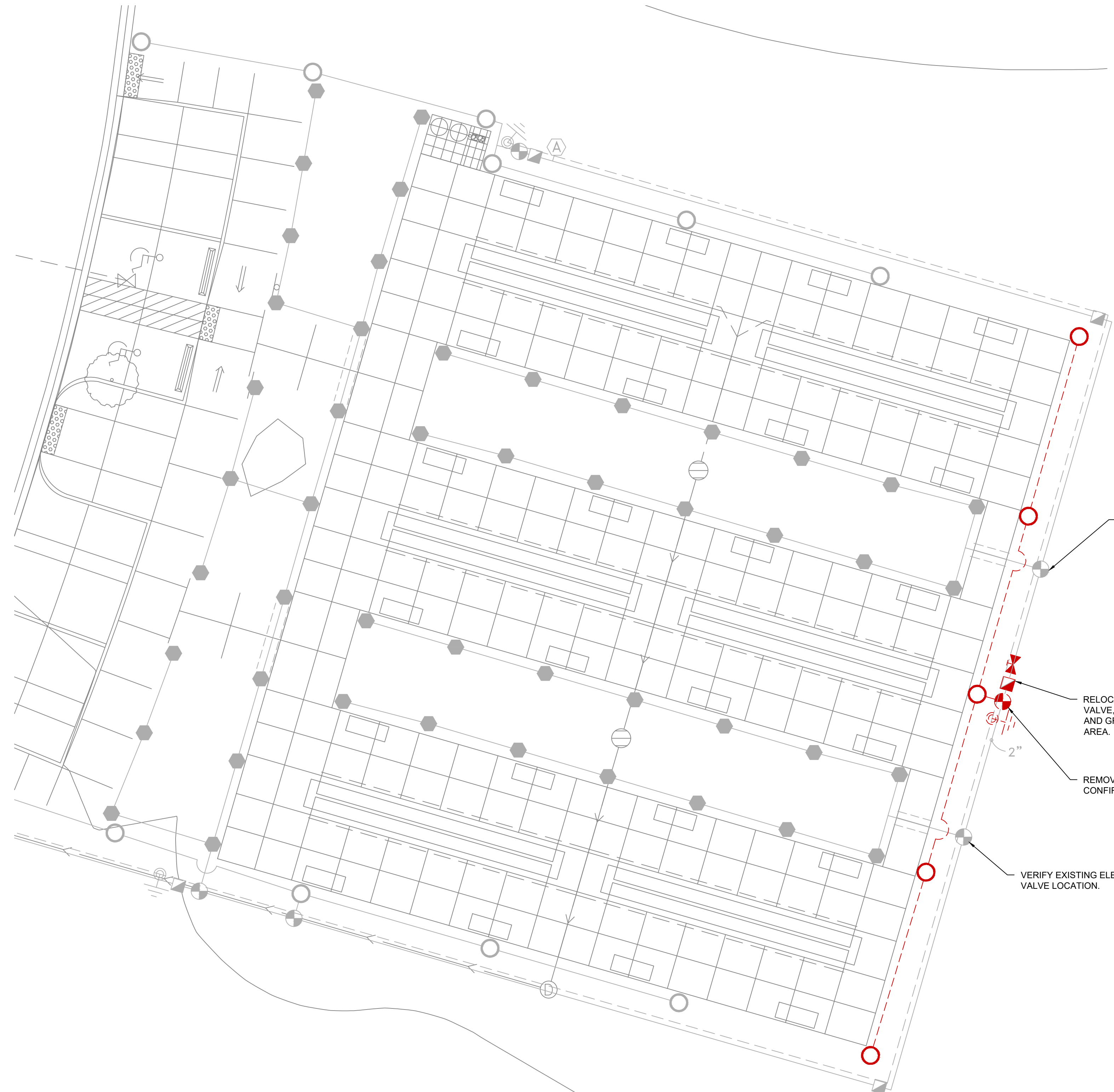
IDAS - IVC COLUMBARIUM AND IRRIGATION PACKAGE 1

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 DAS PROJECT NUMBER: 0617.00
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FIELD BOOK	

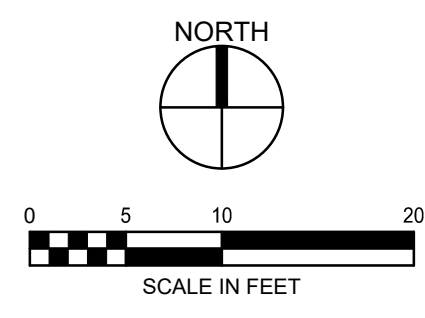
COLUMBARIUM WALL SECTION, ELEVATIONS, AND DETAILS

A101



DEMOLITION NOTES:

1. REMOVE AND DISPOSE OF ALL IRRIGATION PIPING INDICATED ON DRAWINGS. SHOWN IN RED.
2. REMOVE AND SALVAGE EXISTING SPRINKLER HEADS AND VALVES. RETURN TO OWNER.
3. PROTECT EXISTING IRRIGATION COMPONENTS OUTSIDE OF CONSTRUCTION AREA.



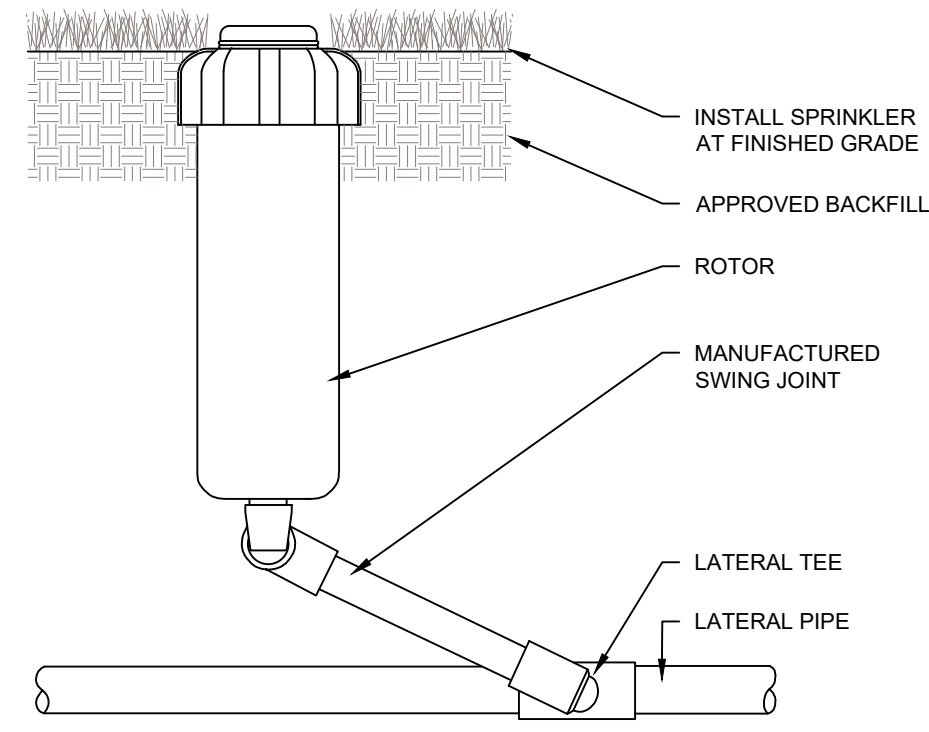
IDAS - IVC COLUMBARIUM AND IRRIGATION PACKAGE 1

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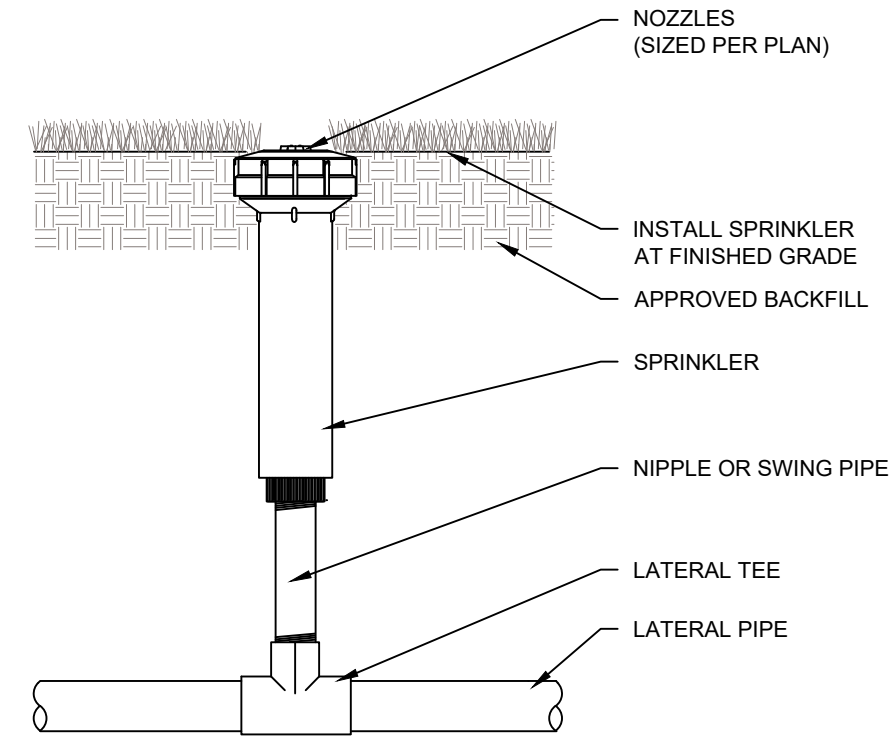
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SITE IRRIGATION DEMOLITION PLAN

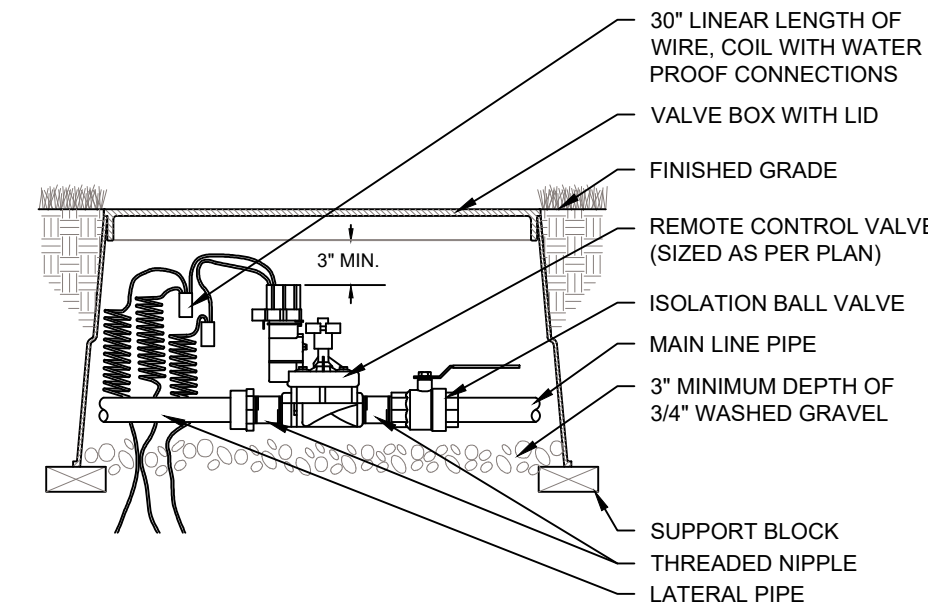
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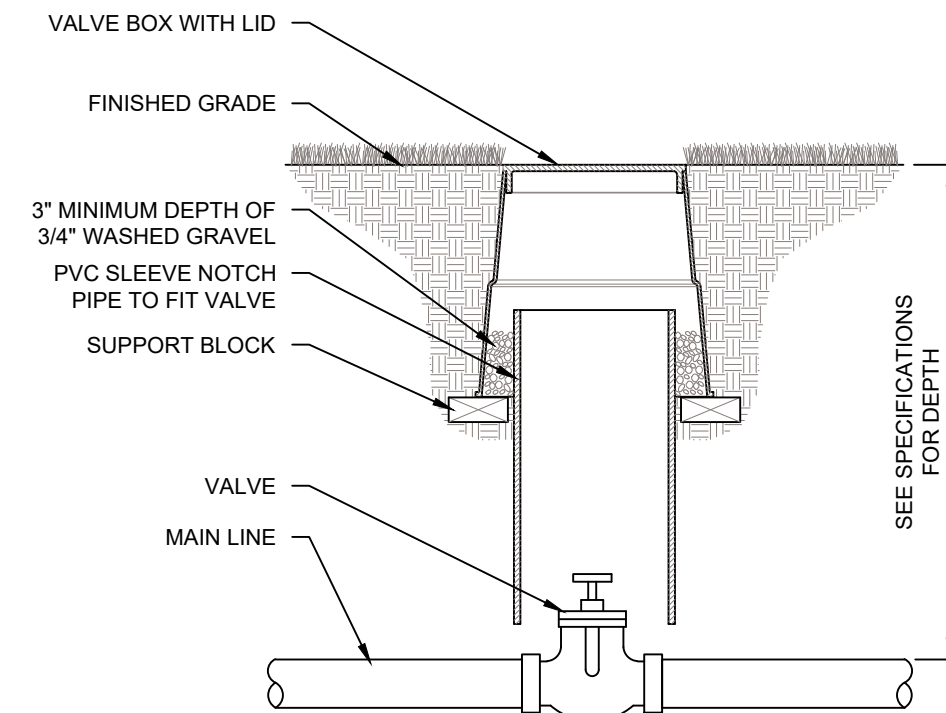
1 ROTOR ASSEMBLY
SCALE: NONE



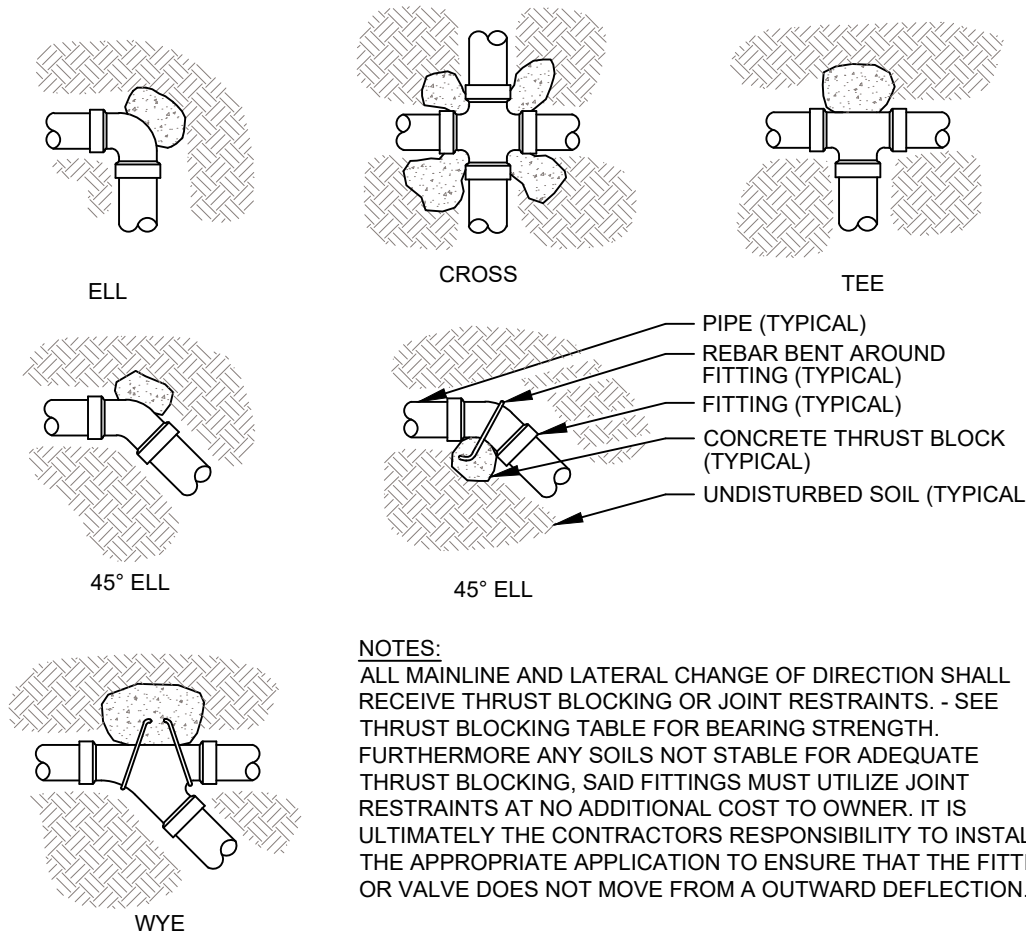
2 FIXED SPRAY SPRINKLER DETAIL
SCALE: NONE



3 ELECTRIC VALVE AND VALVE BOX
SCALE: NONE



4 ISOLATION VALVE DETAIL
SCALE: NONE



5 THRUST BLOCK DETAIL
SCALE: NONE

THRUST BLOCKING

STEP 1. MULTIPLY THE PRESSURE LEVEL DESIRED FOR TESTING BY THE APPROPRIATE VALUE SHOWN IN THE FOLLOWING TABLE:

PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22.5° ELBOW
1.5"	2.94	4.16	2.25	1.15
2"	4.56	6.45	3.50	1.78
2.5"	6.65	9.40	5.10	2.60
3"	9.80	13.9	7.51	3.82
3.5"	12.8	18.1	9.81	4.99
4"	16.2	23.0	12.4	6.31
5"	24.7	35.0	18.9	9.63
6"	34.8	49.2	26.7	13.6

BASED ON POUNDS PER PSI WORKING PRESSURE.

STEP 2. DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW:

BEARING STRENGTH OF SOILS

SOILS AND SAFE BEARING LOADS LBS. SQ. FT.

SOUND SHALE	10,000
CEMENTED GRAVEL AND SAND-DIFFICULT TO PICK	4,000
COARSE AND FINE COMPACT SAND	3,000
MEDIUM CLAY - CAN BE SPADED	2,000
SOFT CLAY	1,000
MUCK	0

STEP 3. DIVIDE THE TOTAL THRUST OBTAINED IN STEP 1 BY THE BEARING STRENGTH OF THE SOIL. THIS GIVES THE SQUARE FEET OF AREA NEEDED.

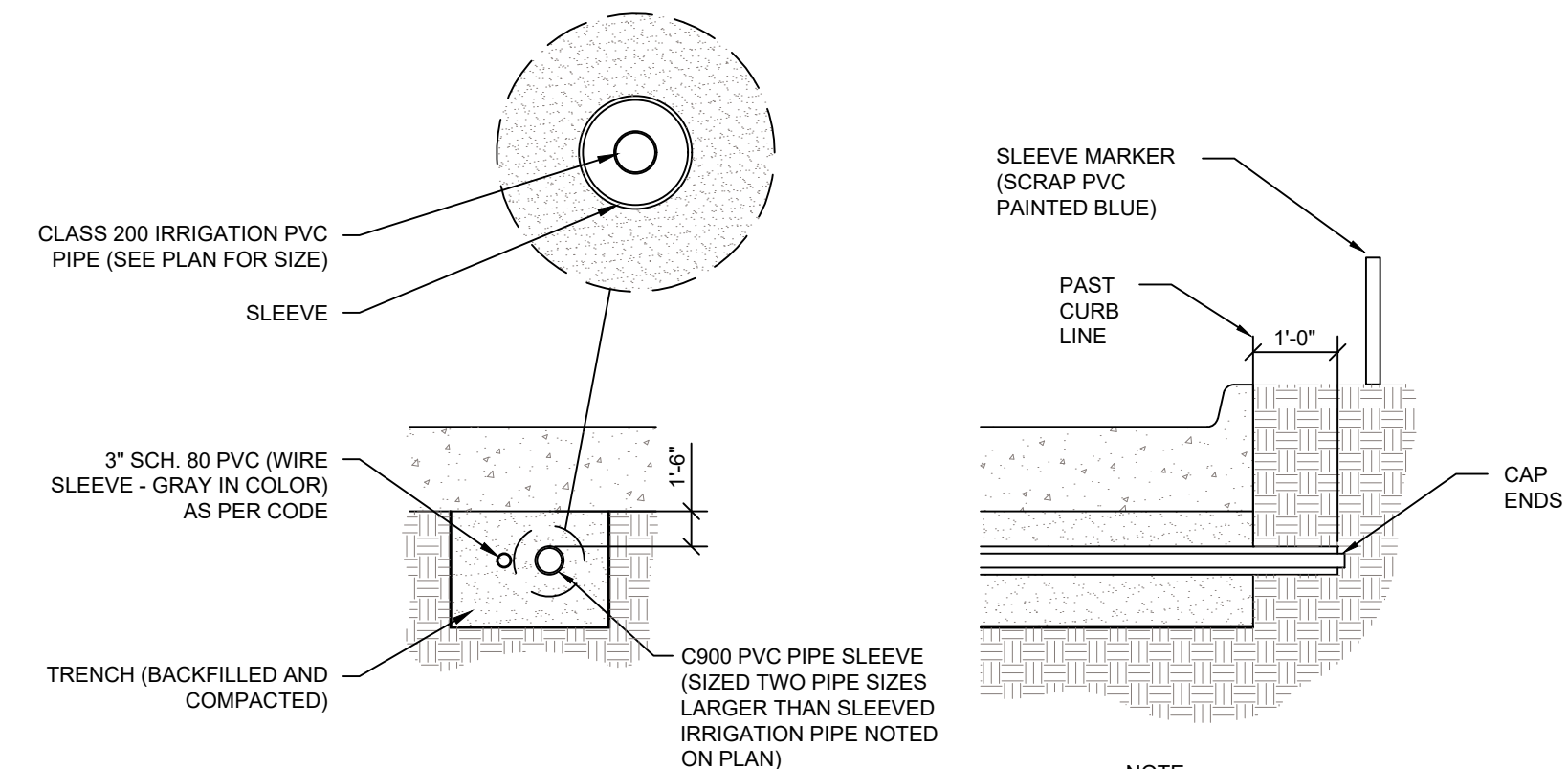
SIDE THRUST ON CURVES

AN OUTWARD PRESSURE EXISTS ON ALL DEFLECTIONS FROM A STRAIGHT LINE. GOOD SOIL, PROPERLY TAMPED, IS SUFFICIENT TO HOLD SIDE THRUST - UNLESS SOIL CONDITIONS ARE UNSTABLE. IN THAT CASE, TO ANCHOR AGAINST THIS SIDE THRUST, THE BLOCKING SHOULD BE PLACED AGAINST THE PIPE ON EACH SIDE OF THE COUPLING. DO NOT THRUST BLOCK THE COUPLING ITSELF.

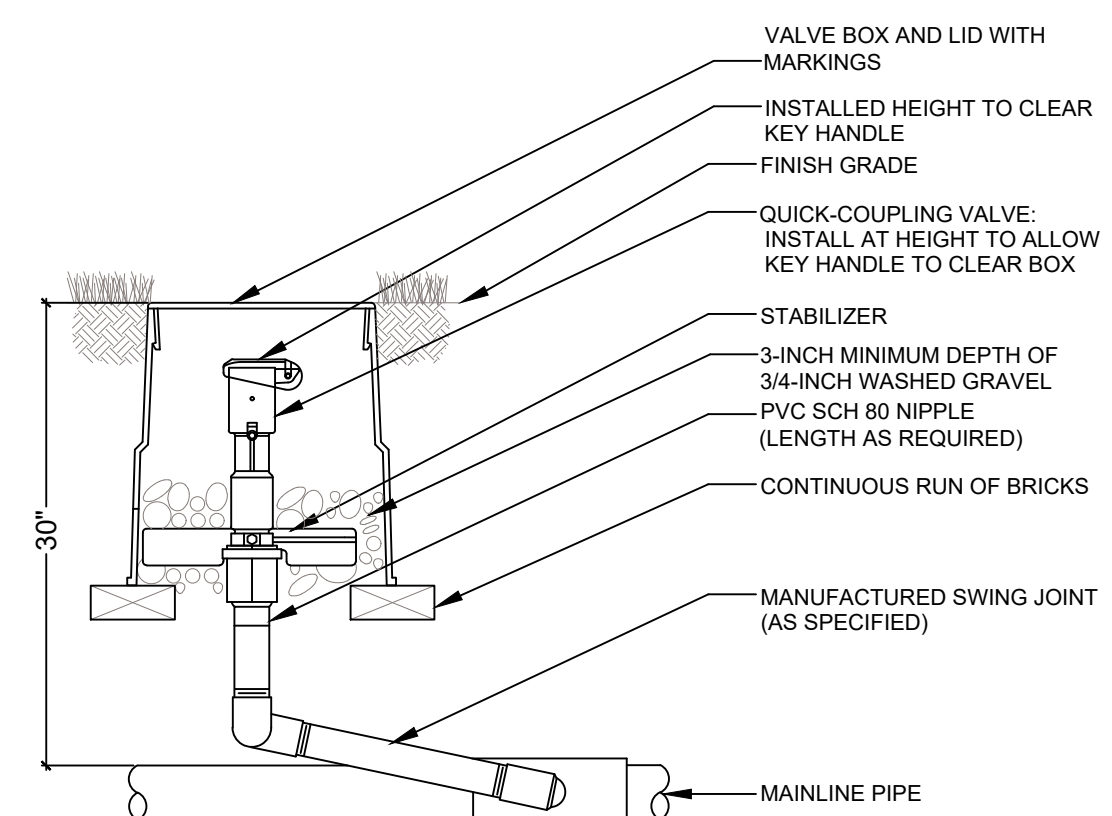
PIPE SIZE INCHES	SIDE THRUST POUNDS PER DEGREE
1.5"	5.1
2"	7.9
2.5"	11.6
3"	17.1
3.5"	22.4
4"	28.3
5"	43.1
6"	60.8

BASED ON SIDE THRUST PER 100 LBS/SQUARE INCH PRESSURE PER DEGREE OF DEFLECTION

NOTE: MULTIPLY SIDE THRUST POUNDS BY DEGREES OF DEFLECTION TIMES POUNDS OF PRESSURE DIVIDED BY 100 TO OBTAIN TOTAL SIDE THRUST IN POUNDS.



6 SLEEVING DETAIL
SCALE: NONE

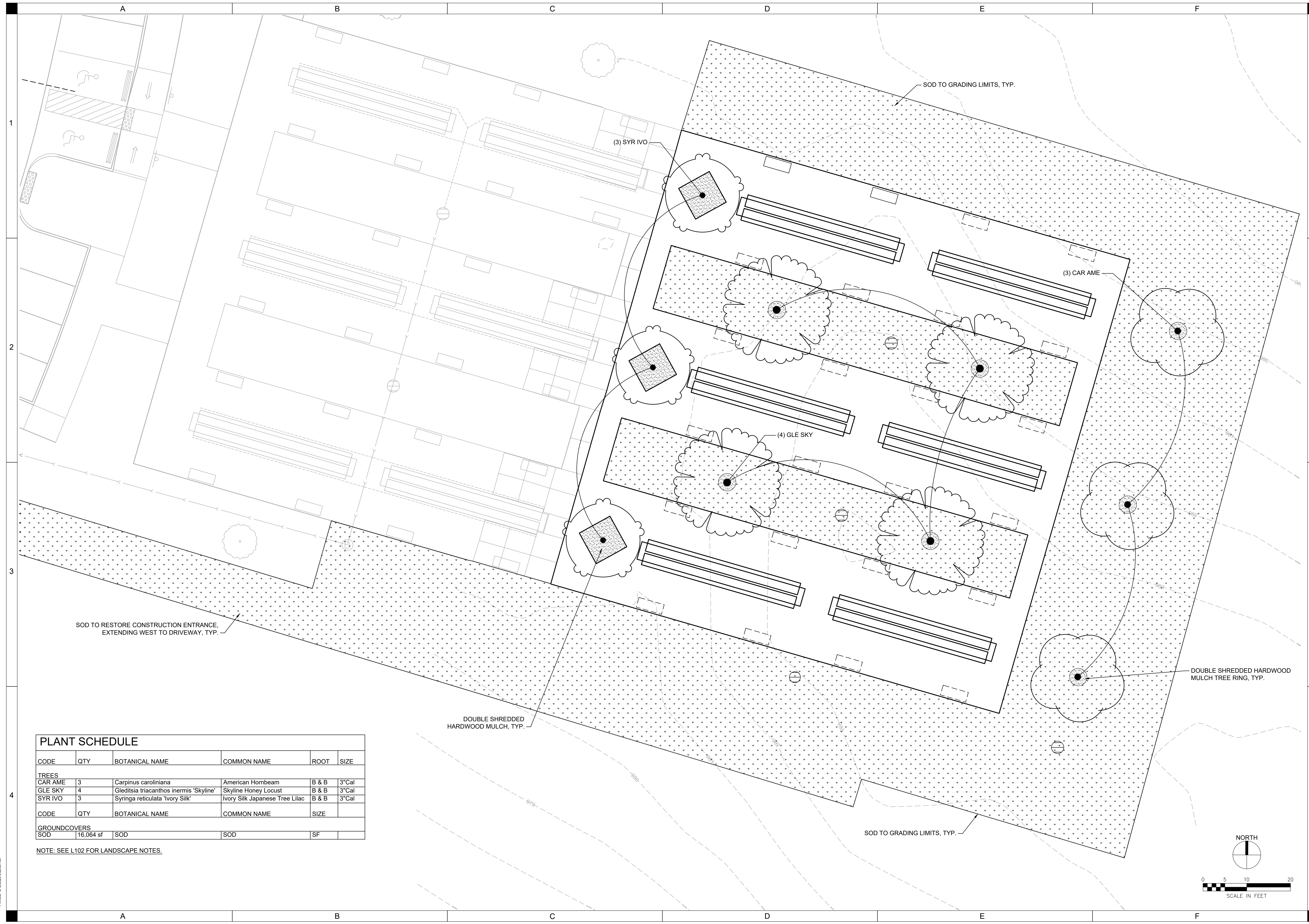


NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

7 QUICK-COUPLING VALVE WITH STABILIZER
SCALE: NONE

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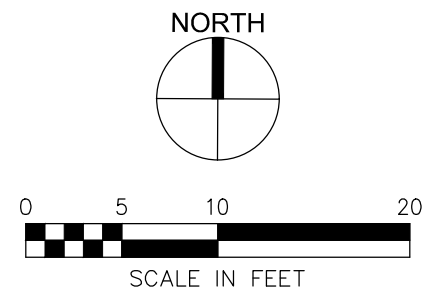
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PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
TREES					
CAR AME	3	<i>Carpinus caroliniana</i>	American Hornbeam	B & B	3"Cal
GLE SKY	4	<i>Gleditsia triacanthos inermis 'Skyline'</i>	Skyline Honey Locust	B & B	3"Cal
SYR IVO	3	<i>Syringa reticulata 'Ivory Silk'</i>	Ivory Silk Japanese Tree Lilac	B & B	3"Cal
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
GROUNDCOVERS					
SOD	16,064 sf	SOD	SOD	SF	

NOTE: SEE L102 FOR LANDSCAPE NOTES.



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