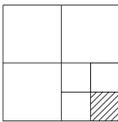


SEE SHEET 2

21-31N-05E



GRAPHIC SCALE



(IN FEET)
1 inch = 30 feet

LEGEND

- | | |
|---|--|
| <ul style="list-style-type: none"> WATER VALVE HYDRANT WATER METER MANHOLES (SS/SD) CB POWER/UTILITY POLE POWER TRANSFORMER POWER/TELEPHONE VAULT POWER METER TELEPHONE/TV RISER GAS VALVE SIGN MAILBOX CONIFEROUS TREE DECIDUOUS TREE | <ul style="list-style-type: none"> CENTER LINES PROPERTY LINES RIGHT-OF-WAY LINES DITCH LINE WATER LINE SANITARY SEWER LINE STORM DRAIN LINE GAS LINE UNDERGROUND POWER LINES UNDERGROUND TELEPHONE LINES UNDERGROUND CABLE TV LINES UNDERGROUND FIBER OPTIC LINES CHAIN LINK FENCE FOUND CASED MONUMENT |
|---|--|

CONSTRUCTION NOTE:

CLEARING AND MASS GRADING OF THE FIELD AREA WAS STARTED IN AUGUST 2020. THE SITE CONDITIONS SHOWN HEREON ARE FROM MAY 2020 AND DON'T REFLECT THE CURRENT SITE CONDITIONS.

NOTES:

HORIZONTAL MERIDIAN: NAD83/2011
BASIS OF BEARING: S.87°34'27"E. BETWEEN MONUMENTS ALONG SR 531 (172N ST NE).
VERTICAL DATUM: NAVD 88
CONTROLLING BENCHMARK: WSDOT MONUMENT GP31531-162
EL.=125.06
TOTAL SITE AREA: 734,815 SQ. FT., OR 16.87 ACRES
TAX ACCOUNT NO: 31052100400109
LAND LEASE RECORDING NO: 202008050220, ALL LEGAL DESCRIPTIONS ARE PER SAID LEASE.
REFERENCE SURVEYS:
R-1: RECORD OF SURVEY AFN: 200309165002
THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS AND TOPOGRAPHY SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN IN MAY 2020, UNLESS OTHERWISE INDICATED.
WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) TRIMBLE SP5930 ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-100.
THIS SURVEY DRAWING PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON (IF ANY) ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND BENCHMARK SURVEYING LLC DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THE ACCURACY OR COMPLETENESS.
CONTRACTOR/OWNERS/ARCHITECTS AND ALL OTHERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE. 1-800-424-5555 or 811

LEASE AREA LEGAL DESCRIPTION:

(LAND PER LEASE - RECORDING NO: 202008050220)
THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 31 NORTH, RANGE 5 EAST, W.M., DESCRIBED AS FOLLOWS:
COMMENCING AT THE SOUTHEAST QUARTER OF SAID SECTION 21; THENCE NORTH 87°34'27" WEST ALONG THE SOUTH LINE OF SAID SUBDIVISION A DISTANCE OF 55.03 FEET; THENCE NORTH 0°33'32" EAST A DISTANCE OF 280.15 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 0°33'32" EAST A DISTANCE OF 557.21 FEET TO A POINT OF CURVATURE; THENCE 102.96 FEET ALONG A TANGENT CURVE TO THE LEFT, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 586.76 FEET AND CONSUMING A CENTRAL ANGLE OF 103°30'; THENCE NORTH 87°34'27" WEST A DISTANCE OF 1095.75 FEET; THENCE SOUTH 02°25'27" WEST A DISTANCE OF 659.06; THENCE SOUTH 87°34'27" EAST A DISTANCE OF 1126.25 FEET TO THE POINT OF BEGINNING.
SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

SPECIAL EXCEPTIONS:

LAND LEASE, RECORDING NO: 202008050220



CAD/CALC	BD/JD	UPDATED NOTES (GRADING WAS STARTED IN AUGUST)	9/12/20	BD	JD
DRAWN	BD				
PLAT CHK	SYM	REVISION	DATE	BY	APP'D

BENCHMARK SURVEYING LLC
11915 44TH DRIVE SE
EVERETT, WA 98208
P. 206.459.7010

THE SMARTCAP GROUP INC
51ST AVE NE (AIRPORT BLVD.)
ARLINGTON, WA 98223

DATE	6/2/2020
LAST REWSED	
SCALE	1" = 30'
SURVEY TEAM	BD/ROBO
FIELD BOOK	ELEC

LEASE BOUNDARY & TOPOGRAPHIC SURVEY
FOR
THE SMARTCAP GROUP INC.
PORTION OF: SE 1/4, SE 1/4, SECTION 21, T. 31 N., R. 05 E., W.M.

PROJECT NO.	20011
SHEET	1 OF 2

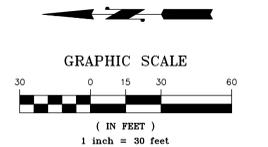
SEE SHEET 1



CLEARING & GRADING WAS STARTED IN AUGUST 2020

CLEARING & GRADING WAS STARTED IN AUGUST 2020

LAND LEASE AREA
PARCEL# 31052100400109
(AFN 202008050220)
734,815 SQ. FT. (16.87 ACRES)



LEGEND

	WATER VALVE		CENTER LINES
	HYDRANT		PROPERTY LINES
	WATER METER		RIGHT-OF-WAY LINES
	MANHOLES (SS/SD)		DITCH LINE
	WATER LINE		WATER LINE
	CB		SANITARY SEWER LINE
	POWER/UTILITY POLE		SS
	POWER TRANSFORMER		SD
	POWER/TELEPHONE VAULT		STORM DRAIN LINE
	POWER METER		GAS LINE
	TELEPHONE/TV RISER		UNDERGROUND POWER LINES
	GAS VALVE		UNDERGROUND TELEPHONE LINES
	SIGN		UNDERGROUND CABLE TV LINES
	MAILBOX		UNDERGROUND FIBER OPTIC LINES
	CONIFEROUS TREE		CHAIN LINK FENCE
	DECIDUOUS TREE		FOUND CASSED MONUMENT

CONSTRUCTION NOTE:
CLEARING AND MASS GRADING OF THE FIELD AREA WAS STARTED IN AUGUST 2020. THE SITE CONDITIONS SHOWN HEREON ARE FROM MAY 2020 AND DON'T REFLECT THE CURRENT SITE CONDITIONS.

CAD/CALC	BD/JD	UPDATED NOTES (GRADING WAS STARTED IN AUGUST)	9/12/20	BD	JD
DRAWN	BD				
PLAT CHK	SYM	REVISION	DATE	BY	APP'D

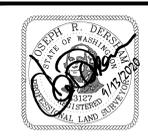
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DATE	6/2/2020
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SCALE	1" = 30'
SURVEY TEAM	BD/ROBO
FIELD BOOK	ELEC

LEASE BOUNDARY & TOPOGRAPHIC SURVEY
FOR
THE SMARTCAP GROUP INC.
PORTION OF: SE 1/4, SE 1/4, SECTION 21, T. 31 N., R. 05 E., W.M.

PROJECT NO.	20011
SHEET	2 OF 2



ARLINGTON STANDARD GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF ARLINGTON PUBLIC WORKS STANDARDS AND SPECIFICATIONS, AND THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
2. IT IS THE SOLE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO OBTAIN A GRADING PERMIT, RIGHT-OF-WAY PERMIT, AND UTILITY PERMITS, FROM THE CITY. ALL REQUIRED PERMITS FROM OTHER AGENCIES MUST ALSO BE OBTAINED BY THE DEVELOPER/CONTRACTOR.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER/ CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY. THE CONTRACTOR SHALL SCHEDULE THE PRECONSTRUCTION CONFERENCE BY CALLING (360) 403-3500. PRIOR TO SCHEDULING, THE CONTRACTOR MUST SUBMIT AND RECEIVE APPROVAL FOR THE TRAFFIC CONTROL PLAN, CITY PERMITS, TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, PERFORMANCE BOND, COPY OF OTHER AGENCY PERMITS, A COPY OF THE CONTRACTOR'S LICENSE, AND PROOF OF INSURANCE COVERAGE.
4. A COPY OF THE APPROVED CONSTRUCTION PLANS MUST BE ON THE JOB SITE WHEN CONSTRUCTION IS IN PROGRESS.
5. ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE PRIOR APPROVAL FROM THE OWNER, THE CITY ENGINEER, AND OTHER APPROPRIATE PUBLIC AGENCIES.
6. ALL OF THE LOCATIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHALL THEREFORE BE CONSIDERED APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS.
7. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATE SERVICE (1-800-424-5555 OR 811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
8. INSPECTION AND ACCEPTANCE OF ALL WORK WILL BE ACCOMPLISHED BY REPRESENTATIVES OF THE CITY OF ARLINGTON. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS, ALLOWING PROPER ADVANCE NOTICE. THE INSPECTOR MAY REQUIRE REMOVAL AND REPLACEMENT OF ITEMS THAT DO NOT MEET CITY STANDARDS OR WERE CONSTRUCTED WITHOUT INSPECTION.
9. THE CONTRACTOR SHALL KEEP THE ON-SITE AND OFF-SITE STREETS CLEAN AT ALL TIMES BY CLEANING WITH A SWEEPING AND/OR VACUUM TRUCK. WASHING OF THESE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY INSPECTOR.
10. THE CONTRACTOR SHALL MAINTAIN TWO (2) SETS OF "ASBUILT" PLANS SHOWING ALL FIELD CHANGES AND MODIFICATIONS. IMMEDIATELY AFTER CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL DELIVER BOTH COPIES OF RED-LINED PLANS TO THE CITY. THE CITY WILL FORWARD ONE OF THE COPIES TO THE DESIGN ENGINEER.

ARLINGTON STANDARD TESC NOTES

1. APPROVAL OF THE TEMPORARY EROSION/SEDIMENT CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR STORM DRAINAGE DESIGN.
2. A TESC PLAN MEETING THE DOE STORM WATER MANAGEMENT MANUAL ADOPTED BY THE CITY SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO ANY WORK ON THE SITE. AN APPROVED COPY MUST BE MAINTAINED ON-SITE AND BE READILY AVAILABLE TO THE CITY INSPECTOR AT THEIR REQUEST.
3. THE TESC BMP'S SHOWN ON THE PLAN MUST BE INSTALLED PRIOR TO ALL OTHER CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM. LEAVE THE SITE, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS. MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE TESC PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETE AND APPROVED BY THE CITY.
4. THE BOUNDARIES OF THE CLEARING LIMITS, SHOWN ON THE TESC PLAN, SHALL BE CLEARLY FENCED OR FLAGGED IN THE FIELD PRIOR TO STARTING CONSTRUCTION. NO DISTURBANCE BEYOND THE FENCED OR FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FENCING AND/OR FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION PROJECT.
5. THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AND ADDED TO AS NEEDED, FOR UNEXPECTED STORM EVENTS AND TO REFLECT CHANGED CONDITIONS, AS REQUIRED BY THE CITY.
6. THE CONTRACTOR SHALL PROVIDE THE CITY A 24-HOUR EMERGENCY CONTACT PHONE NUMBER OF THE CONTRACTOR'S CERTIFIED EROSION CONTROL SUPERVISOR PRIOR TO STARTING CONSTRUCTION.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE CONTINUED FUNCTION AND OPERATION.
8. BETWEEN OCTOBER 1 AND APRIL 30, DISTURBED AREAS THAT ARE TO BE LEFT UNWORKED FOR MORE THAN TWO (2) DAYS SHALL BE IMMEDIATELY COVERED BY MULCH, SOD OR PLASTIC COVERING. BETWEEN MAY 1 AND SEPTEMBER 30, DISTURBED AREAS THAT ARE TO BE LEFT UNWORKED FOR MORE THAN SEVEN (7) DAYS SHALL BE IMMEDIATELY COVERED BY SEEDING OR OTHER APPROVED METHODS.
9. SEDIMENT DEPOSITS SHALL BE REMOVED FROM ALL CATCH BASINS, PRE-TREATMENT/SEDIMENT POND, AND SEDIMENT TRAPS UPON REACHING A DEPTH OF 12 INCHES.
10. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES, SHALL PROVIDE ADEQUATE STORAGE CAPACITY, AND SHALL BE CLEANED OUT ENTIRELY ONCE THE SITE IS STABILIZED. IF THE PERMANENT FACILITY IS TO ULTIMATELY FUNCTION AS AN INFILTRATION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN.
11. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROXIMATE RATE OF 120 LBS PER ACRE.
12. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 3 INCHES, OR 3,000 POUNDS PER ACRE.
13. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 24 HOURS. WHEN ACTIVELY WORKING WITH THE SOIL STOCKPILE, STABILIZATION BY GROUND COVER BMP'S SHALL OCCUR AT THE END OF EACH WORK DAY.
14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
15. MAINTENANCE AND REPAIR OF TESC FACILITIES AND STRUCTURES SHALL BE CONDUCTED IMMEDIATELY UPON RECOGNITION OF A PROBLEM OR WHEN THE TESC MEASURES BECOME DAMAGED.
16. UPON COMPLETION OF THE PROJECT, ALL BMP'S SHALL BE REMOVED FROM THE SITE AND RIGHT OF WAY. IF BMP'S ARE REQUIRED TO REMAIN IN PLACE FOR FURTHER PROTECTION, ARRANGEMENTS FOR REMOVAL SHALL BE MADE WITH THE CITY INSPECTOR.
17. THE DUFF LAYER AND NATIVE TOPSOIL SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT WILL NOT BE COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT THE PROJECT COMPLETION DEMONSTRATE THE REQUIREMENTS ESTABLISHED IN 2014 SWMMWW T5.13, POST-CONSTRUCTION SOIL QUALITY AND DEPTH.

ARLINGTON STANDARD DRAINAGE NOTES

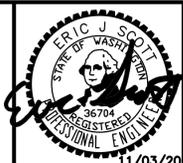
1. ALL STORM DRAINAGE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS AND CITY STANDARDS AND SPECIFICATIONS. ANY DEVIATION FROM THESE PLANS WILL REQUIRE PRIOR APPROVAL FROM THE OWNER, THE CITY ENGINEER, AND OTHER APPROPRIATE PUBLIC AGENCIES.
2. ALL PIPE MATERIALS SHALL MEET THE REQUIREMENTS OF THE CITY STANDARDS AND SPECIFICATIONS. ACCEPTABLE STORM DRAINAGE PIPE MATERIALS INCLUDE CONCRETE, PVC, HDPE, AND DUCTILE IRON. CORRUGATED METAL PIPES (GALVANIZED ALUMINUM OR STEEL) ARE NOT ACCEPTED BY THE CITY. ALL PIPE JOINTS MUST HAVE GASKETS AND SHALL BE WATER TIGHT UNLESS OTHERWISE DIRECTED BY THE CITY.
3. PIPE BEDDING MATERIAL SHALL BE 5/8-INCH MINUS CRUSHED GRAVEL FOR ALL PIPE TYPES, EXCEPT DUCTILE IRON. BEDDING MATERIAL FOR DUCTILE IRON PIPE SHALL MEET THE REQUIREMENTS OF THE CITY'S STANDARDS AND SPECIFICATIONS (CHAPTER 4).
4. ALL TRENCH BACKFILL IN AREAS OF PAVEMENT OR STRUCTURAL LOADING SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY. ALL OTHER AREAS SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY.
5. ALL PIPE SHALL BE PLACED ON STABLE EARTH. IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING TRENCH FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED WITH GRAVEL BEDDING MATERIAL TO SUPPORT THE PIPE.
6. LOT DRAINAGE SYSTEMS, STUB-OUTS AND ANY DRAINS BEHIND THE SIDEWALK MUST BE INSTALLED AS REQUIRED PRIOR TO SIDEWALK CONSTRUCTION. STUB-OUTS SHALL BE MARKED WITH A 2"x4" WITH 3 FEET VISIBLE ABOVE GRADE AND MARKED "STORM". LOCATION AND DEPTH OF THESE INSTALLATIONS SHALL BE SHOWN ON THE AS-BUILT PLANS SUBMITTED TO THE CITY.
7. ALL CATCH BASINS SHALL BE TYPE 1 UNLESS OTHERWISE SHOWN ON THE PLANS AND APPROVED BY THE CITY. THE USE AND INSTALLATION OF INLETS IS DISCOURAGED.
8. ALL CATCH BASINS WITH A DEPTH OF 5 FEET (RIM TO INVERT) OR GREATER SHALL BE TYPE 2 CATCH BASINS EQUIPPED WITH 3/4-INCH DIAMETER SAFETY MANHOLE STEPS OR A MANHOLE LADDER PER CITY STANDARD DETAILS.
9. ALL GRATES SHALL BE MARKED "OUTFALL TO STREAM - DUMP NO POLLUTANTS". ALL SOLID COVER SHALL BE MARKED "DRAIN". ALL CATCH BASINS AND MANHOLES SHALL BE EQUIPPED WITH LOCKING FRAMES AND LIDS OR GRATES PER CITY STANDARD DETAILS.
10. ALL GRATES LOCATED IN THE GUTTER FLOW LINE (INLET AND CATCH BASIN) SHALL BE DEPRESSED 0.1 FOOT BELOW PAVEMENT LEVEL.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET AND CATCH BASIN FRAMES AND GRATES/COVERS TO GRADE JUST PRIOR TO CURB INSTALLATION AND/PAVING.
12. ALL RETENTION/DETENTION FACILITIES SHALL BE INSTALLED AND IN OPERATION PRIOR TO, OR IN CONJUNCTION WITH, ALL CONSTRUCTION ACTIVITY, UNLESS OTHERWISE APPROVED BY THE CITY.
13. DETENTION/RETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 OR WITH A MAXIMUM WATER DEPTH GREATER THAN 3 FEET SHALL BE ENCLOSED WITH A VINYL COATED CHAIN LINK FENCE.
14. BIO-FILTRATION SWALES AND/OR FILTER STRIPS SHALL BE CONSTRUCTED, BEDDED OR SEEDED AND IN OPERATION PRIOR TO, OR SODDED IN CONJUNCTION WITH, ASPHALT PAVING. THE VEGETATION IN THE BIO-SWALE MUST BE WELL ESTABLISHED BEFORE PAVING BEGINS.
15. STORM WATER RETENTION/DETENTION FACILITIES, STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED BY THE DEVELOPER PRIOR TO THE CITY'S ACCEPTANCE OF THE PROJECT.
16. WHEN INFILTRATION FACILITIES ARE CONSTRUCTED, COMPACTION OF SOIL IS NOT ALLOWED, AS THE DESIGN IS BASED ON NATURAL SOIL IN THE ORIGINAL LOCATION. VEHICLES SHALL NOT BE DRIVEN OVER THE INFILTRATION AREA DURING CONSTRUCTION.
17. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER OR SOIL CONDITIONS DIFFERENT FROM THAT SHOWN IN THE PLANS DURING INFILTRATION SYSTEM INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR.

ADA NOTES

1. WORK SHALL BE ACCORDANCE WITH THE PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), AS PUBLISHED BY THE UNITED STATES ACCESS BOARD.
2. LIMITS OF SIDEWALK TRANSITIONS SHALL BE REPLACED TO THE NEAREST CONCRETE JOINT BEYOND THE MINIMUM LIMITS SHOWN ON THE PLANS.
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, OR DIRECTED BY THE CITY, CROSS SLOPES OF SIDEWALKS SHALL BE A NOMINAL 1.5%. CROSS SLOPES SHALL NOT BE LESS THAN 1% NOR EXCEED 2%.
4. MAXIMUM SLOPES SHOWN ON THE PLANS REPRESENT THE MAXIMUM ALLOWABLE SLOPES PERMITTED BY CURRENT ADA REQUIREMENTS. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION CONSTRUCTION TOLERANCES WHEN PLACING SIDEWALKS TO INSURE MAXIMUM SLOPES ARE NOT EXCEEDED.
5. PROTECT FRESHLY POURED CONCRETE FROM VANDALISM OR OTHER DAMAGE. FOR A MINIMUM OF TWENTY-FOUR (24) HOURS OR UNTIL CURED ENOUGH TO SUPPORT TYPICAL USE, WHICHEVER IS LONGER.

Plotted: Nov 04, 2020 - 10:43am Rodney T:\Projects\190804_SmartCAP_AAAP (Arlington)\Plans\SCA_P-Civil.dwg Layout Name: C1.2-GEN NOTES

PLAN CHECK	BY	DATE			
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
		DATE	NO.	REVISION	BY
DESIGNED BY:		REVIEWED BY:			



SMARTCAP AIRPORT BUSINESS PARK
AIRPORT BLVD, ARLINGTON, WA 98223

JOB NO.
190804

GENERAL NOTES

C1.2



CITY OF ARLINGTON
CONSTRUCTION DRAWING APPROVAL

THIS PLAN SHEET HAS BEEN REVIEWED AND APPROVED
PER THE CONDITIONS ON THE TITLE SHEET.

BY: Nova Heaton, PE, Development Services Manager

DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

ARLINGTON STANDARD WATER NOTES

ARLINGTON STANDARD SEWER NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND CURRENT EDITION OF THE CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS. ANY CHANGES TO THE DESIGN REQUIRE CITY APPROVAL.
2. ALL MATERIALS SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE CITY PRIOR TO DELIVERY TO THE JOB SITE. MATERIAL SUBMITTALS ARE REQUIRED AND MUST BE APPROVED PRIOR TO SCHEDULING A PRE-CONSTRUCTION CONFERENCE.
3. WATER MAINS SHALL BE CEMENT-LINED DUCTILE IRON PIPE CLASS 52 UNLESS OTHERWISE APPROVED BY THE CITY.
4. ALL SERVICE LOCATIONS SHALL BE FIELD APPROVED BY THE CITY PRIOR TO INSTALLATION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UNDERGROUND UTILITIES BY CALLING ONE-CALL UNDERGROUND UTILITY LOCATOR (1-800-424-5555) 48 HOURS PRIOR TO CONSTRUCTION.
6. ADEQUATE TRENCH SHEETING AND/OR SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY OSHA AND WISHA.
7. THE PIPE SHALL BE INSTALLED BY FOLLOWING THE FINISHED GRADE PROFILE WHEREVER POSSIBLE. THE DEPTH OF COVER SHALL BE TYPICALLY 36 INCHES (3 FEET), AND MAY BE UP TO 60 INCHES (5 FEET) WITH THE APPROVAL OF THE CITY ENGINEER. WATER MAINS UNDER THE STATE (OR COUNTY) HIGHWAYS SHALL MEET THE MINIMUM COVER DEPTHS REQUIRED BY WSDOT (OR SNOHOMISH COUNTY).
8. PIPE JOINT DEFLECTIONS SHALL NOT EXCEED ONE-HALF OF PIPE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTIONS. BENDS MAY BE REQUIRED TO MAINTAIN PROPER WATER MAIN ALIGNMENT WITHIN EASEMENTS OR PUBLIC RIGHT-OF-WAY.
9. WATER MAIN SHALL NOT BE PLACED UNDER SIDEWALK, CURBS, GUTTERS, OR ANY PERMANENT STRUCTURES WITHOUT THE PRIOR APPROVAL OF THE CITY ENGINEER.
10. NO CONNECTION TO THE CITY WATER SYSTEM IS ALLOWED UNTIL THE NEW CONSTRUCTION PASSES PRESSURE AND PURITY TESTS, AND HAS BEEN APPROVED AND ACCEPTED BY THE CITY.
11. PRIOR TO MAKING CONNECTIONS TO THE EXISTING SYSTEM, CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH AND MATERIAL OF EXISTING WATER MAINS AT THE POINT OF CONNECTION.
12. ALL WATER LINES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWERS. WHEN WATER LINES CROSS SEWER LINES, THE MINIMUM VERTICAL CLEARANCE SHALL BE 18 INCHES.
13. TO FILL THE MAIN FOR FLUSHING, PRESSURE AND PURITY TESTS, THE CONTRACTOR IS REQUIRED TO USE AN APPROVED METER AND DCVA. THE HYDRANT SHALL REMAIN IN THE FULL OPEN POSITION TO PREVENT BACK-SIPHONAGE THROUGH THE DRAIN HOLE. AFTER SUCCESSFUL TESTING, THE CONTRACTOR WILL TIE INTO THE EXISTING SYSTEM, USING DISINFECTED SLEEVES AND SPOOL PIECES.
14. THE CONTRACTOR SHALL CONTACT THE CITY FOR VALVE OPERATION. ONLY AUTHORIZED REPRESENTATIVES OF THE CITY CAN OPERATE VALVES IN THE CITY WATER SYSTEM.
15. THE CONTRACTOR IS HEREBY NOTIFIED THAT, SINCE FILLING AND FLUSHING WILL BE DONE THROUGH A CROSS-CONNECTION CONTROL DEVICE, LOW VELOCITY FLOWS MAY BE ENCOUNTERED. THEREFORE, EVERY ATTEMPT SHALL BE MADE TO KEEP THE PIPE CLEAN DURING INSTALLATION. THIS MAY INCLUDE SWABBING THE PIPE WITH CHLORINATED WATER.
16. THE CONTRACTOR SHALL PERFORM TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL, DUST CONTROL, NOISE CONTROL, AND TRAFFIC CONTROL AS REQUIRED BY THE CITY OR OTHER APPLICABLE AGENCIES.
17. CUTTING AND PATCHING OF ROADWAYS SHALL CONFORM TO THE REQUIREMENTS OF THE RIGHT-OF-WAY PERMIT OF THE CITY OR OTHER APPLICABLE AGENCY.
18. ALL IN-LINE PIPE JOINTS SHALL BE RESTRAINED WITH FIELD LOCK GASKETS.
19. ALL FITTINGS SHALL BE RESTRAINED JOINTS AND HAVE THRUST BLOCKING.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS, AND CURRENT EDITION OF THE CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS. ANY CHANGES TO THE DESIGN REQUIRES CITY APPROVAL.
2. ALL MATERIALS SHALL CONFORM TO THE CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS AND THE MATERIAL SUBMITTALS SHALL BE APPROVED BY THE CITY BEFORE SCHEDULING THE PRECONSTRUCTION CONFERENCE AND BEFORE THE MATERIALS ARE DELIVERED TO THE JOB SITE. ONCE THE MATERIALS ARE DELIVERED TO THE JOB SITE THE INSPECTOR WILL DETERMINE IF THE MATERIALS WERE MANUFACTURED TO MEET THE REQUIREMENTS OF THE CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS BEFORE THE MATERIALS CAN BE INSTALLED.
3. ALL SEWER MAINS AND SIDE SEWER STUBS SHALL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A SURVEYOR PRIOR TO CONSTRUCTION. THE CONSTRUCTION STAKES MUST SHOW THE STATION AND OFFSET TO THE ALIGNMENT.
4. THE CITY OF ARLINGTON WASTEWATER DIVISION SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A TAP OR CONNECTION TO AN EXISTING SANITARY SEWER MAIN. THE INSPECTOR SHALL BE PRESENT AT THE TIME OF THE TAP OR CONNECTION.
5. GRAVITY SEWERS, INCLUDING SIDE SEWERS, WITH 5 TO 14 FEET OF COVER SHALL BE PVC ASTM D 3034 SDR 35. GRAVITY SEWER MAINS WITH LESS THAN 5 FEET OR GREATER THAN 14 FEET OF COVER SHALL BE DUCTILE IRON PIPE CLASS 52, OR C-900 PVC. IF DUCTILE IRON PIPE IS USED FOR SEWER, THE PIPE INTERIOR SHALL BE EPOXY COATED (NOT CEMENT-LINED).
6. PRE-CAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C-478. JOINTS SHALL BE RUBBER GASKETED AND GROUTED BOTH INSIDE AND OUTSIDE OF THE MANHOLE PER CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS. ALL LIFT HOLES CUT THROUGH THE WALLS OF THE MANHOLE SHALL BE GROUTED FROM THE INSIDE AND OUTSIDE OF THE MANHOLE TO BE WATERTIGHT. ADDITIONAL WATERPROOFING MAY BE REQUIRED.
7. SIDE SEWER SERVICES SHALL BE PVC ASTM D 3034 SDR 35 WITH FLEXIBLE GASKETED JOINTS. SIDE SEWER CONNECTIONS SHALL BE MADE BY A TAP TO AN EXISTING MAIN OR A TEE FROM A NEW MAIN CONNECTED ABOVE THE SPRING LINE OF THE PIPE. WYES ARE NOT ALLOWED ON LINES 8" OR LARGER. SIDE SEWERS CAN NOT BE INSTALLED UNDER DRIVEWAYS UNLESS APPROVED BY THE CITY INSPECTOR.
8. ALL SEWER PIPE SHALL BE INSTALLED WITH A CONTINUOUS TRACER TAPE 24" - 48" UNDER THE PROPOSED FINISHED SUBGRADE, OR AS DIRECTED BY THE CITY INSPECTOR. THE MARKER SHALL BE PLASTIC, NON-BIODEGRADABLE, METAL CORE, AND DETECTABLE, WITH BACKING MARKED "SEWER".
9. SIDE SEWERS SHALL BE INSTALLED BY THE DEVELOPER AND COORDINATED FOR CLEARANCE WITH POWER, GAS, TELEPHONE, CABLE, AND OTHER UTILITIES. SIDE SEWERS SHALL BE A MINIMUM OF 10 FEET BEYOND PROPERTY LINES AND 5' BEYOND ANY EASEMENT.
10. THE SEWER PIPE SHALL BE INSTALLED STARTING FROM DOWNSTREAM OF THE POINT OF CONNECTION ON THE EXISTING SEWER OR FROM A DESIGNATED STARTING POINT. THE SEWER PIPE SHALL BE INSTALLED WITH THE BELL END UPSTREAM.
11. ADEQUATE TRENCH SHEETING AND/OR SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY OSHA AND WISHA.
12. TO PREVENT WATER OR DEBRIS FROM DISCHARGING INTO THE CITY'S EXISTING SEWER SYSTEM, THE CONTRACTOR SHALL INSTALL A PLUG IN THE CONNECTION MANHOLE OR AS DIRECTED BY THE CITY INSPECTOR. THE PLUG SHALL NOT BE REMOVED UNTIL THE SEWER IS ACCEPTED BY THE CITY.
13. ALL SEWER LINES SHALL MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE AND A MINIMUM OF 18 INCHES VERTICAL CLEARANCE FROM WATER LINES. SEE STANDARDS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ALTERNATIVES.
14. PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE CITY OF ARLINGTON STANDARD AND WSDOT STANDARD SPECIFICATIONS. 3/8-INCH MINUS MANUFACTURED CLEAN PEA GRAVEL IS THE REQUIRED BEDDING MATERIAL. ALL PIPE SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION. THIS SHALL INCLUDE NECESSARY LEVELING OF THE TRENCH BOTTOM OR THE TOP OF THE FOUNDATION MATERIALS AS WELL AS PLACEMENT AND COMPACTION OF REQUIRED BEDDING MATERIAL TO UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF THE PIPE WILL BE SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
15. THE CONTRACTOR SHALL COMPACT TRENCH BACKFILL WITHIN THE CITY RIGHT-OF-WAY TO AT LEAST 90% MAXIMUM DRY DENSITY FROM THE BOTTOM OF THE TRENCH TO A DEPTH OF 3' BELOW THE SURFACE. THE TRENCH BACKFILL MUST BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY WITHIN 3' OF THE SURFACE. ASPHALT MUST BE COMPACTED TO MEET THE REQUIREMENTS ON THE PLANS. ALL COMPACTION TESTS ARE AT THE DEVELOPER'S EXPENSE.

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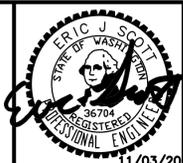
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190804

GENERAL NOTES

C1.3

ELEMENTS OF CONSTRUCTION SWPPP

1. PRESERVE VEGETATION / MARK CLEARING LIMITS

BEFORE BEGINNING LAND DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, CLEARLY MARK ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA.

RETAIN THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICAL. IF IT IS NOT PRACTICAL TO RETAIN THE DUFF LAYER IN PLACE, THEN STOCKPILE IT ON-SITE, COVER IT TO PREVENT EROSION, AND REPLACE IT IMMEDIATELY WHEN YOU FINISH DISTURBING THE SITE.

- BMP's C101: PRESERVING NATURAL VEGETATION
 C102: BUFFER ZONES
 > C103: HIGH VISIBILITY FENCE
 > C233: SILT FENCE

2. ESTABLISH CONSTRUCTION ACCESS

LIMIT CONSTRUCTION VEHICLE ACCESS AND EXIT TO ONE ROUTE, IF POSSIBLE. STABILIZE ACCESS POINTS WITH A PAD OF QUARRY SPALLS, CRUSHED ROCK, OR OTHER EQUIVALENT BMPs, TO MINIMIZE TRACKING SEDIMENT ONTO ROADS. LOCATE WHEEL WASH OR TIRE BATHS ON SITE, IF THE STABILIZED CONSTRUCTION ENTRANCE IS NOT EFFECTIVE IN PREVENTING TRACKING SEDIMENT ONTO ROADS. IF SEDIMENT IS TRACKED OFF SITE, CLEAN THE AFFECTED ROADWAY THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY AS NECESSARY (FOR EXAMPLE, DURING WET WEATHER). REMOVE SEDIMENT FROM ROADS BY SHOVELING, SWEEPING, OR PICK UP AND TRANSPORT THE SEDIMENT TO A CONTROLLED SEDIMENT DISPOSAL AREA. CONDUCT STREET WASHING ONLY AFTER SEDIMENT IS REMOVED IN ACCORDANCE WITH THE ABOVE BULLET. CONTROL STREET WASH WASTEWATER BY PUMPING BACK ON SITE OR OTHERWISE PREVENTING IT FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE. MINIMIZE CONSTRUCTION SITE ACCESS POINTS ALONG LINEAR PROJECTS, SUCH AS ROADWAYS. STREET WASHING MAY REQUIRE LOCAL JURISDICTION APPROVAL.

- BMP's > C105: STABILIZE CONSTRUCTION ENTRANCE/EXIT
 C106: WHEEL WASH
 C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

3. CONTROL FLOW RATES

PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM OF DEVELOPMENT SITES FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATERS DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE. WHERE NECESSARY, CONSTRUCT STORMWATER RETENTION OR DETENTION FACILITIES AS ONE OF THE FIRST STEPS IN GRADING. ASSURE THAT DETENTION FACILITIES FUNCTION PROPERLY BEFORE CONSTRUCTING SITE IMPROVEMENTS (E.G. IMPERVIOUS SURFACES). IF PERMANENT INFILTRATION PONDS ARE USED FOR FLOW CONTROL DURING CONSTRUCTION, PROTECT THESE FACILITIES FROM SILTATION DURING THE CONSTRUCTION PHASE.

- BMP's C203: WATER BARS
 C207: CHECK DAMS
 C209: OUTLET PROTECTION
 > C235: WATTLES
 C240: SEDIMENT TRAP
 C241: TEMPORARY SEDIMENT POND

4. INSTALL SEDIMENT CONTROLS

INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. CONSTRUCT SEDIMENT CONTROL BMPs (SEDIMENT PONDS, TRAPS, FILTERS, ETC.) PRIOR TO GRADING.

- BMP's C231: BRUSH BARRIER
 C232: GRAVEL FILTER BERM
 > C233: SILT FENCE
 C234: VEGETATED STRIP
 > C235: WATTLES
 C240: SEDIMENT TRAP
 C241: TEMPORARY SEDIMENT POND
 C250: CONSTRUCTION STORMWATER CHEMICAL TREATMENT
 C251: CONSTRUCTION STORMWATER FILTRATION

5. STABILIZE SOILS

SOILS MUST NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW TO PREVENT EROSION.
 DURING THE DRY SEASON (MAY 1 – SEPT. 30): 7 DAYS.

DURING THE WET SEASON (OCTOBER 1 – APRIL 30): 2 DAYS.
 STABILIZE SOILS AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. STABILIZE SOIL STOCKPILES FROM EROSION, PROTECT WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS. MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY. MINIMIZE THE DISTURBANCE OF STEEP SLOPES.

- BMP's > C120: TEMPORARY AND PERMANENT SEEDING
 C121: MULCHING
 C122: NETS AND BLANKETS
 > C123: PLASTIC COVERING
 C124: SODDING
 C125: TOPSOILING / COMPOSTING
 C126: POLYACRYLAMIDE (PAM) FOR SOIL EROSION PROTECTION
 C130: SURFACE ROUGHENING
 C131: GRADIENT TERRACES
 > C140: DUST CONTROL

6. PROTECT SLOPES

DIVERT OFF-SITE STORMWATER (RUN-ON) OR GROUND WATER AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PIPES, AND/OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE. PLACE EXCAVATED MATERIAL ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.

- BMP's > C120: TEMPORARY AND PERMANENT SEEDING
 C121: MULCHING
 C122: NETS AND BLANKETS
 > C123: PLASTIC COVERING
 C124: SODDING
 C130: SURFACE ROUGHENING
 C131: GRADIENT TERRACES
 C200: INTERCEPTOR DIKE AND SWALE
 C201: GRASS-LINED CHANNELS
 C203: WATER BARS
 C204: PIPE SLOPE DRAINS
 C205: SUBSURFACE DRAINS
 C206: LEVEL SPREADER
 C207: CHECK DAMS
 C208: TRIANGULAR SILT DIKE (TSD)(GEOTEXTILE-ENCASED CHECK DAM)

7. PROTECT DRAIN INLETS

PROTECT ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (UNLESS A DIFFERENT STANDARD IS SPECIFIED BY THE PRODUCT MANUFACTURER). INLETS SHOULD BE INSPECTED WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.

- BMP's > C220: STORM DRAIN INLET PROTECTION

8. STABILIZE CHANNELS AND OUTFALLS

CONSTRUCT AND STABILIZE ALL ON-SITE CONVEYANCE CHANNELS TO PREVENT EROSION. PROVIDE STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAMBANKS, SLOPES, AND DOWNSTREAM REACHES AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS. STABILIZE CHANNEL BY PLACING BLANKET PRODUCT FIRST, THEN ADD CHECK DAMS AS NECESSARY TO FUNCTION AS AN ANCHOR AND TO SLOW THE FLOW OF WATER.

- BMP's C202: CHANNEL LINING
 C122: NETS AND BLANKETS
 C207: CHECK DAMS
 C209: OUTLET PROTECTION

9. CONTROL POLLUTANTS

INSTALL, IMPLEMENT, AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS. HANDLE AND DISPOSE OF ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON-SITE IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

- BMP's > C151: CONCRETE HANDLING
 > C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION
 C153: MATERIAL DELIVERY, STORAGE AND CONTAINMENT
 > C154: CONCRETE WASHOUT AREA
 C250: CONSTRUCTION STORMWATER CHEMICAL TREATMENT
 C251: CONSTRUCTION STORMWATER FILTRATION
 C252: HIGH PH NEUTRALIZATION USING CO2
 C253: PH CONTROL FOR HIGH PH WATER

10. CONTROL DEWATERING

DISCHARGE CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT #8, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS OR INTERFERE WITH THE OPERATION OF THE SYSTEM. HANDLE HIGHLY TURBID OR CONTAMINATED DEWATERING WATER SEPARATELY FROM STORMWATER.

- BMP's C203: WATER BARS
 C236: VEGETATIVE FILTRATION

11. MAINTAIN BMP's

KEEP QUANTITIES OF EROSION PREVENTION AND SEDIMENT CONTROL MATERIALS ON THE PROJECT SITE AT ALL TIMES TO BE USED FOR REGULAR MAINTENANCE AND EMERGENCY SITUATIONS SUCH AS UNEXPECTED HEAVY SUMMER RAINS. MAINTAIN AND REPAIR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION IN ACCORDANCE WITH BMP SPECIFICATIONS. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs WITHIN 30 DAYS AFTER ACHIEVING FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. PROVIDE PROTECTION TO ALL BMPs INSTALLED FOR THE PERMANENT CONTROL OF STORMWATER FROM SEDIMENT AND COMPACTION. ALL BMPs THAT ARE TO REMAIN IN PLACE FOLLOWING COMPLETION OF CONSTRUCTION SHALL BE EXAMINED AND PLACED IN FULL OPERATING CONDITIONS. IF SEDIMENT ENTERS THE BMPs DURING CONSTRUCTION, IT SHALL BE REMOVED AND THE FACILITY SHALL BE RETURNED TO THE CONDITIONS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

12. MANAGE THE PROJECT

INSPECT, MAINTAIN, AND REPAIR ALL BMPs AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. CONDUCT SITE INSPECTIONS AND MONITORING IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT OR LOCAL PLAN APPROVAL AUTHORITY. MAINTAIN, UPDATE, AND IMPLEMENT THE SWPPP IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT. ALL BMPs MUST BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SITE INSPECTIONS MUST BE CONDUCTED BY A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL.

13. PROTECT LOW IMPACT DEVELOPMENT

PROTECT ALL BIORETENTION AND RAIN GARDEN BMPs FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPs ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIORETENTION AND/OR RAIN GARDEN BMPs. RESTORE THE BMPs TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.

PREVENT COMPACTING BIORETENTION AND RAIN GARDEN BMPs BY EXCLUDING CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.

CONTROL EROSION AND AVOID INTRODUCING SEDIMENT FROM SURROUNDING LAND USES ONTO PERMEABLE PAVEMENTS. DO NOT ALLOW MUDDY CONSTRUCTION EQUIPMENT ON THE BASE MATERIAL OR PAVEMENT. DO NOT ALLOW SEDIMENT-LADEN RUNOFF ONTO PERMEABLE PAVEMENTS.

PAVEMENTS FOULED WITH SEDIMENTS OR NO LONGER PASSING AN INITIAL INFILTRATION TEST MUST BE CLEANED USING PROCEDURES FROM THE LOCAL STORMWATER MANUAL OR THE MANUFACTURER'S PROCEDURES.

KEEP ALL HEAVY EQUIPMENT OFF EXISTING SOILS UNDER LID FACILITIES THAT HAVE BEEN EXCAVATED TO FINAL GRADE TO RETAIN THE INFILTRATION RATE OF THE SOILS.

LEGEND

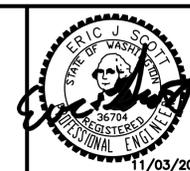
> DENOTES MINIMUM REQUIRED BMP's. AS SITE WORK PROGRESSES, CONTRACTOR MAY NEED TO INSTALL ADDITIONAL BMP's AS NEEDED.

NOTES:

- BEST MANAGEMENT PRACTICES (BMP'S) ARE AS DESCRIBED IN THE STORMWATER MANAGEMENT MANUAL OF WESTERN WASHINGTON, DEPARTMENT OF ECOLOGY, 2014
- THE 13 ELEMENTS SHOWN MUST BE CONSIDERED IN THE DEVELOPMENT OF THE CONSTRUCTION SWPPP UNLESS SITE CONDITIONS RENDER THE ELEMENT UNNECESSARY. IF AN ELEMENT IS CONSIDERED UNNECESSARY, THE CONSTRUCTION SWPPP MUST PROVIDE THE JUSTIFICATION.
- THE SWPPP ELEMENTS COVER THE GENERAL WATER QUALITY PROTECTION STRATEGIES OF LIMITING SITE IMPACTS, PREVENTING EROSION AND SEDIMENTATION, AND MANAGING ACTIVITIES AND SOURCES.
- ADDITIONAL INFORMATION AND REQUIREMENTS ARE OUTLINED WITHIN THE SWPPP NARRATIVE INCLUDED WITH THE DRAINAGE REPORT.
- THE HIGHLIGHTED BMP'S SHOWN ARE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN AND UTILIZE ADDITIONAL BMP'S AS NECESSARY. ADDITIONAL INFORMATION ON EACH BMP CAN BE FOUND IN VOLUME II, CHAPTER 4 OF THE STORMWATER MANAGEMENT MANUAL OF WESTERN WASHINGTON.
- BMP T5.13: "POST-CONSTRUCTION SOIL QUALITY AND DEPTH" SHALL BE USED ON ALL FINAL LANDSCAPE AREAS. REFER TO SHEET L1.1 FOR ADDITIONAL INFORMATION ON TOPSOIL MATERIAL.

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SWPPP NOTES **C1.4**

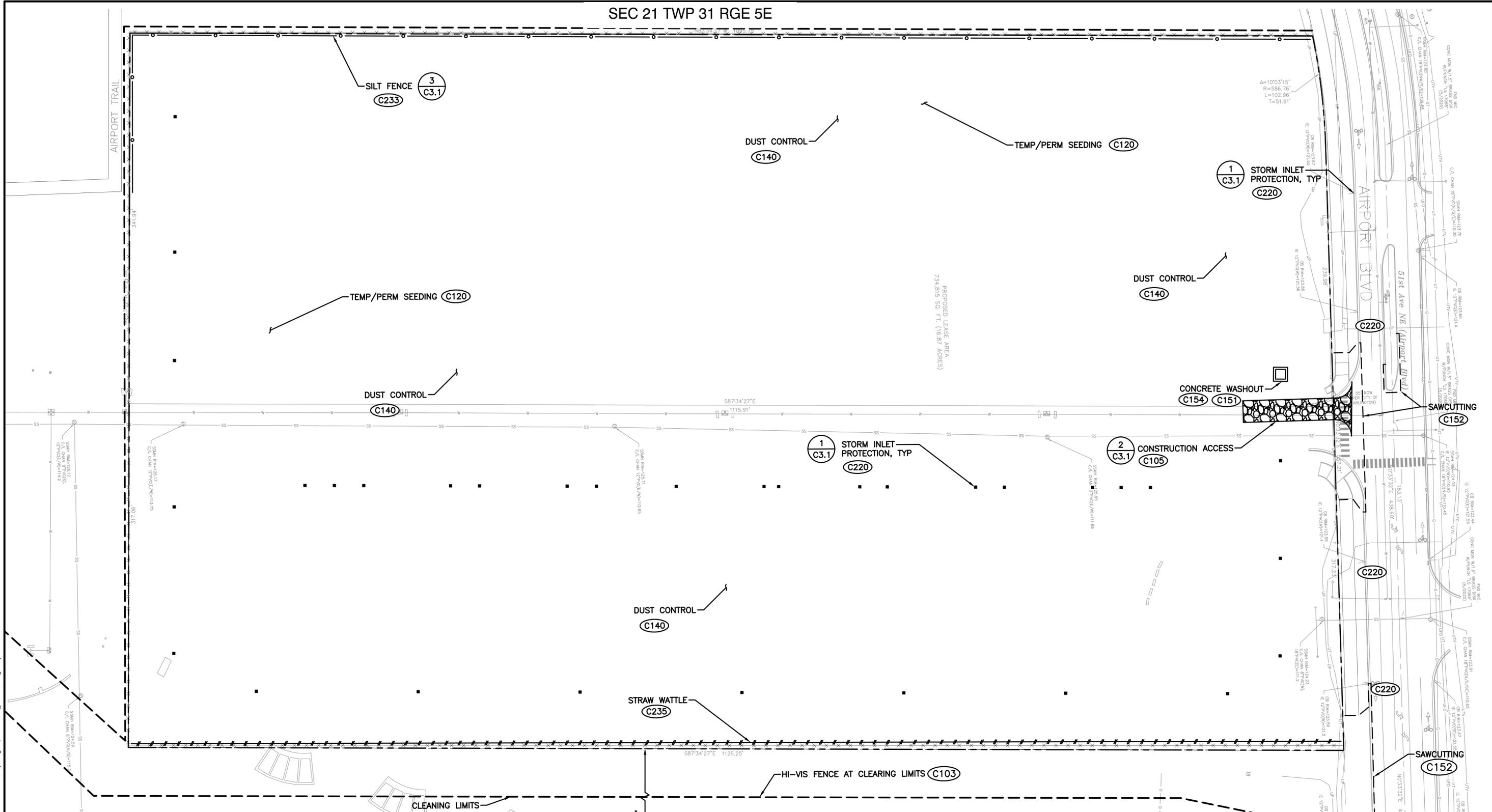


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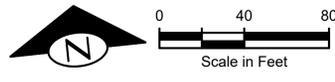
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- NOTES:**
- SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.
 - SEE SHEET C1.4 FOR ELEMENTS OF CONSTRUCTION SWPPP.
 - SEE SHEET C3.1 FOR SWPPP DETAILS.

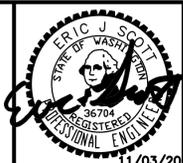


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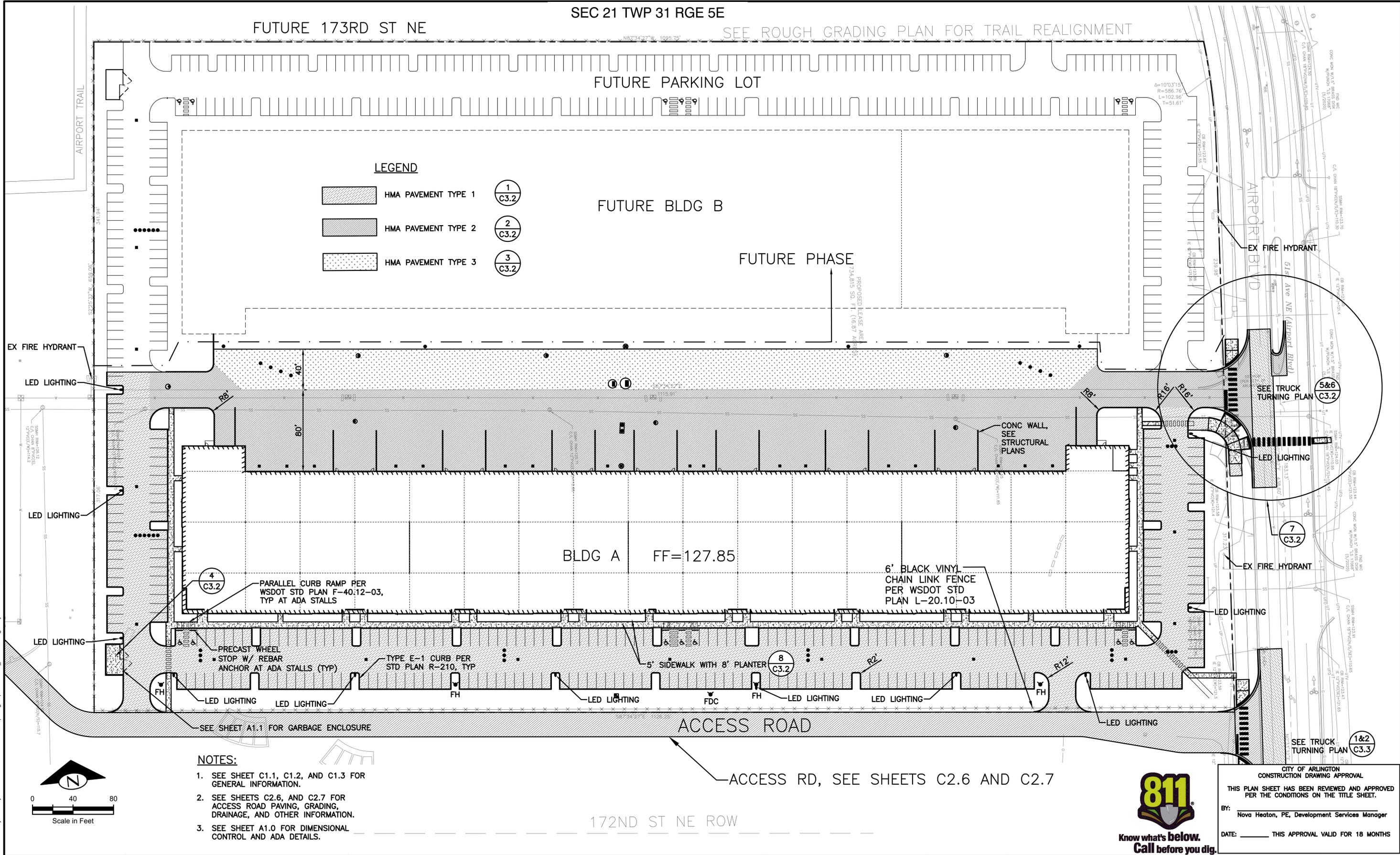


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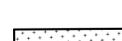


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C2.1



LEGEND

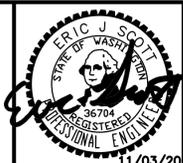
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C3.2
-  HMA PAVEMENT TYPE 3 3
C3.2

NOTES:

1. SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.
2. SEE SHEETS C2.6, AND C2.7 FOR ACCESS ROAD PAVING, GRADING, DRAINAGE, AND OTHER INFORMATION.
3. SEE SHEET A1.0 FOR DIMENSIONAL CONTROL AND ADA DETAILS.

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PAVING PLAN

C2.2



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FUTURE 173RD ST NE

SEC 21 TWP 31 RGE 5E

FUTURE PARKING LOT

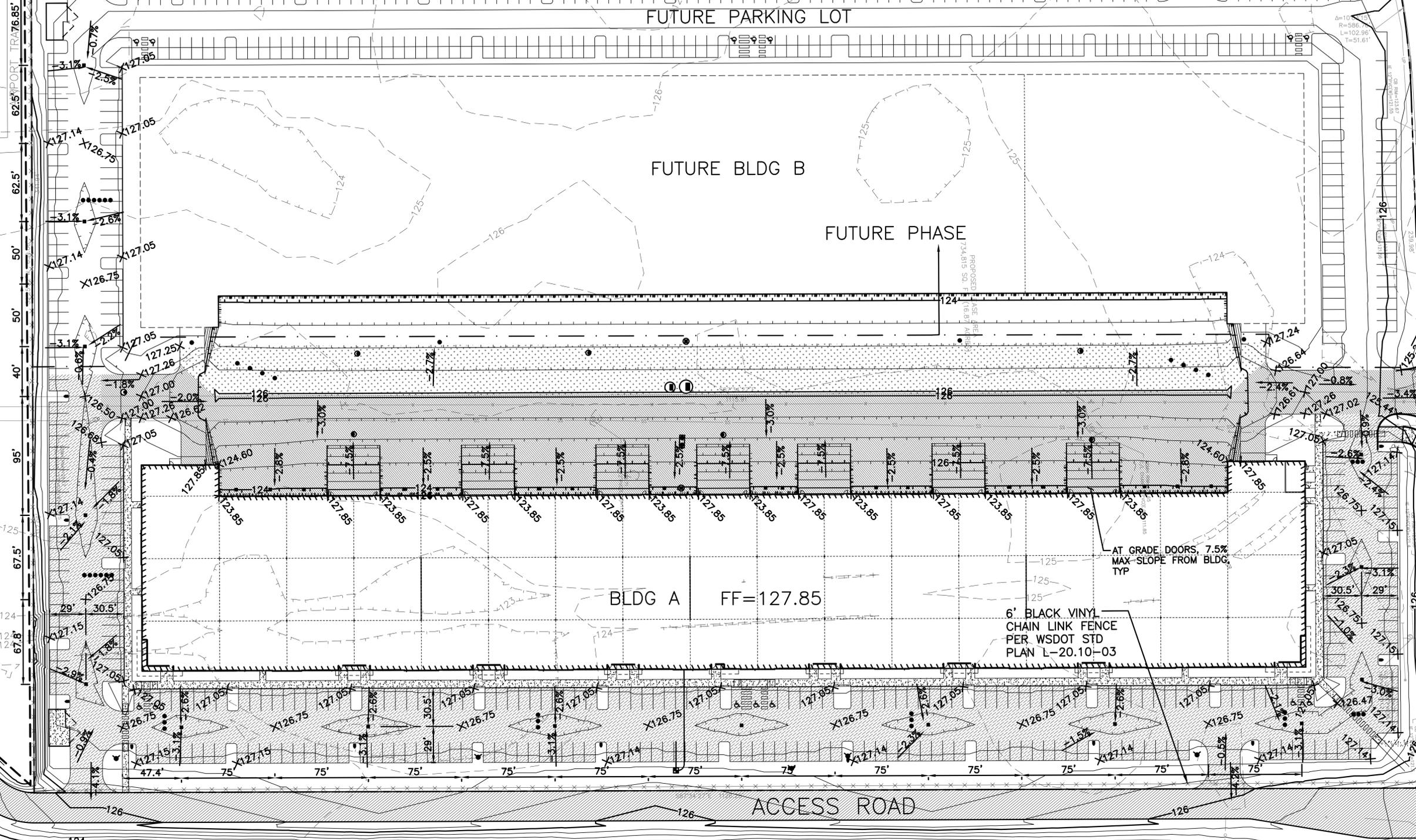
FUTURE BLDG B

FUTURE PHASE

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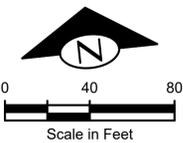
ACCESS ROAD

AIRPORT BLVD
51st Ave NE (Airport Blvd)



NOTES:

1. SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.
2. SEE SHEETS C2.6, AND C2.7 FOR ACCESS ROAD PAVING, GRADING, DRAINAGE, AND OTHER INFORMATION.
3. GRADING WITHIN THE LIMITS OF ADA PARKING STALLS AND ADJACENT PEDESTRIAN PATH, SHALL BE GRADED WITH A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS. REFER TO ADA NOTES ON SHEET C1.2. BLEND GRADING WITH ADJACENT DRIVE AISLE.



CLEANING LIMITS



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BY: Nova Heaton, PE, Development Services Manager

DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

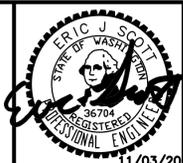
Plotted: Nov 04, 2020 - 10:43am Rodney T:\Projects\190804_SmartCAP_AAAP (Arlington)\Plans\SCA_P-CIVIL.dwg Layout Name: C2.3 GRADING PLAN

PLAN CHECK	BY	DATE	NO.	REVISION	BY
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		9/15/20	3	CIVIL PERMIT PLAN REVISIONS	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
DESIGNED BY:		DATE	NO.	REVISION	BY
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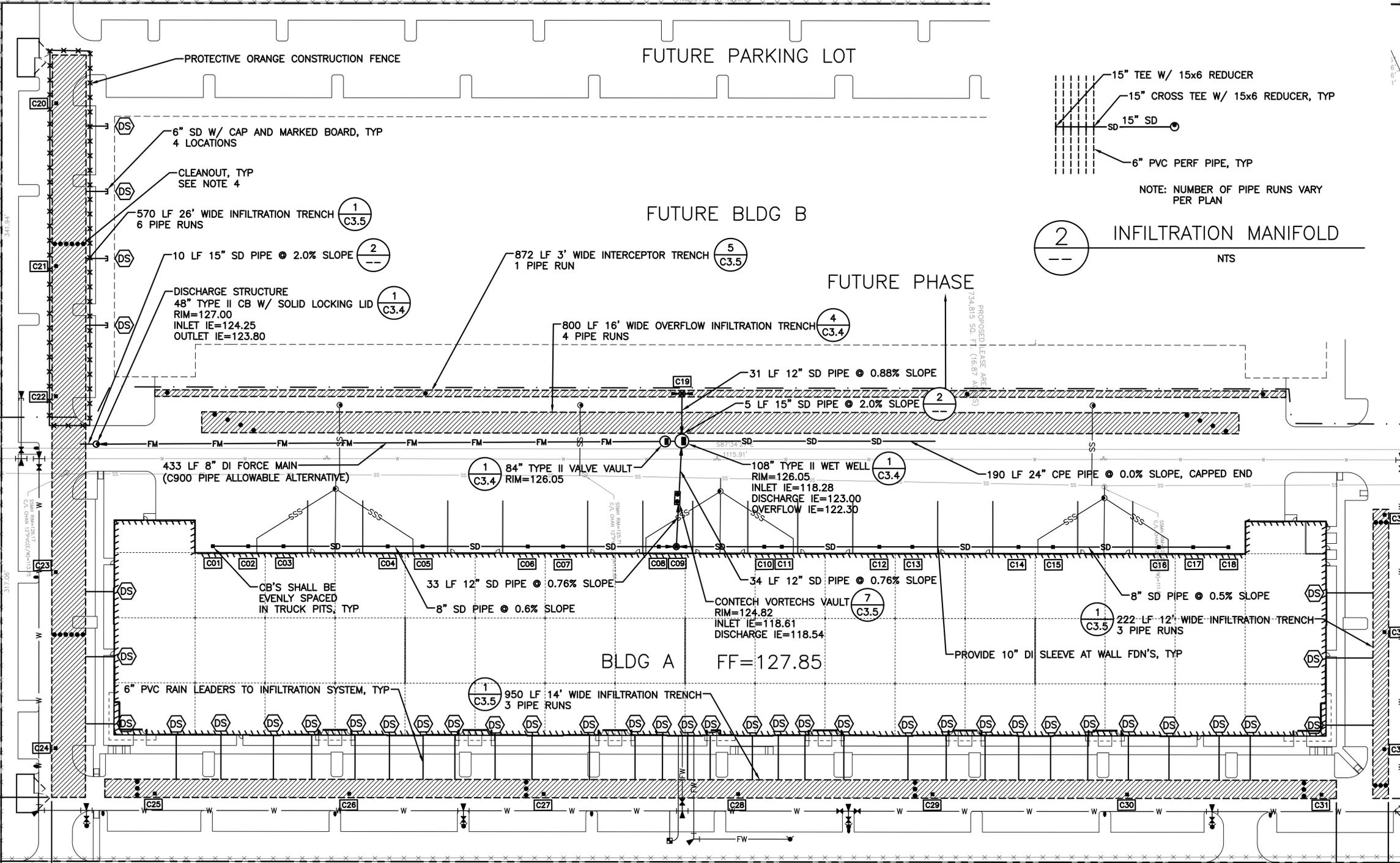
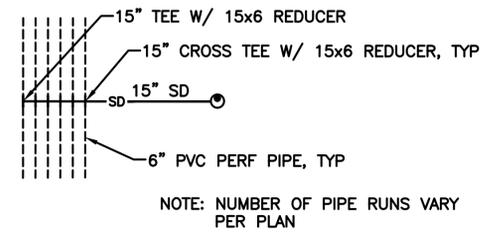


SMARTCAP AIRPORT BUSINESS PARK
AIRPORT BLVD, ARLINGTON, WA 98223

GRADING PLAN

JOB NO.
190804

C2.3



NOTES:

1. SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.
2. SEE SHEET C3.5 FOR STRUCTURE TABLES.
3. ALL 12" AND LARGER SD/CPE PIPE SHALL BE ADS N-12 WATERTIGHT (WT) WITH WATERTIGHT JOINTS AND FITTINGS. CONNECTIONS TO STRUCTURES SHALL USE ADS WATERSTOP GASKETS.
4. (PSD) PERFORATED STORM DRAIN PIPE SHALL BE SDR-35 PVC PIPE PER ASTM D3034, WITH TWO ROWS OF 1/2" DIAMETER HOLES AT 12" OC.
5. (CO) CLEANOUTS SHALL CONFORM TO COA STD DETAIL SS-080 AT 300' SPACING OC, UNO.
6. GEOTEXTILE FABRIC SHALL BE NONWOVEN AND SUITABLE FOR SEPARATION APPLICATIONS.
7. AT LANDSCAPE ISLANDS, PERF PIPE SHALL BE REPLACED WITH SOLID PIPE TO PREVENT ROOT INTRUSION. SOLID PIPE SHALL EXTEND 5' BEYOND LANDSCAPE ISLAND.
8. CATCH BASINS C20 THROUGH C34 SHALL BE OIL/WATER SEPARATOR PER COA STD PLAN SD-120.

NOTE TO OWNER

THE ONSITE DRAINAGE FACILITIES UTILIZE ENCLOSED INFILTRATION SYSTEMS. AS SUCH, REGULAR CLEANING AND MAINTENANCE OF CATCH BASINS IS IMPERATIVE TO PREVENT CLOGGING AND PERMANENT DAMAGE. REFER TO MAINTENANCE PROCEDURES CONTAINED WITHIN THE PROJECT DRAINAGE REPORT.

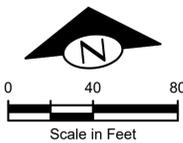


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SEE SHEET C2.6 FOR ACCESS RD DRAINAGE PLAN

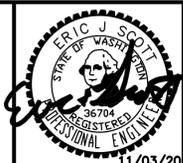
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		7/31/20	1	PERMIT SUBMITTAL	EJS
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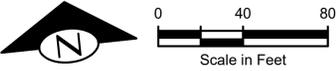
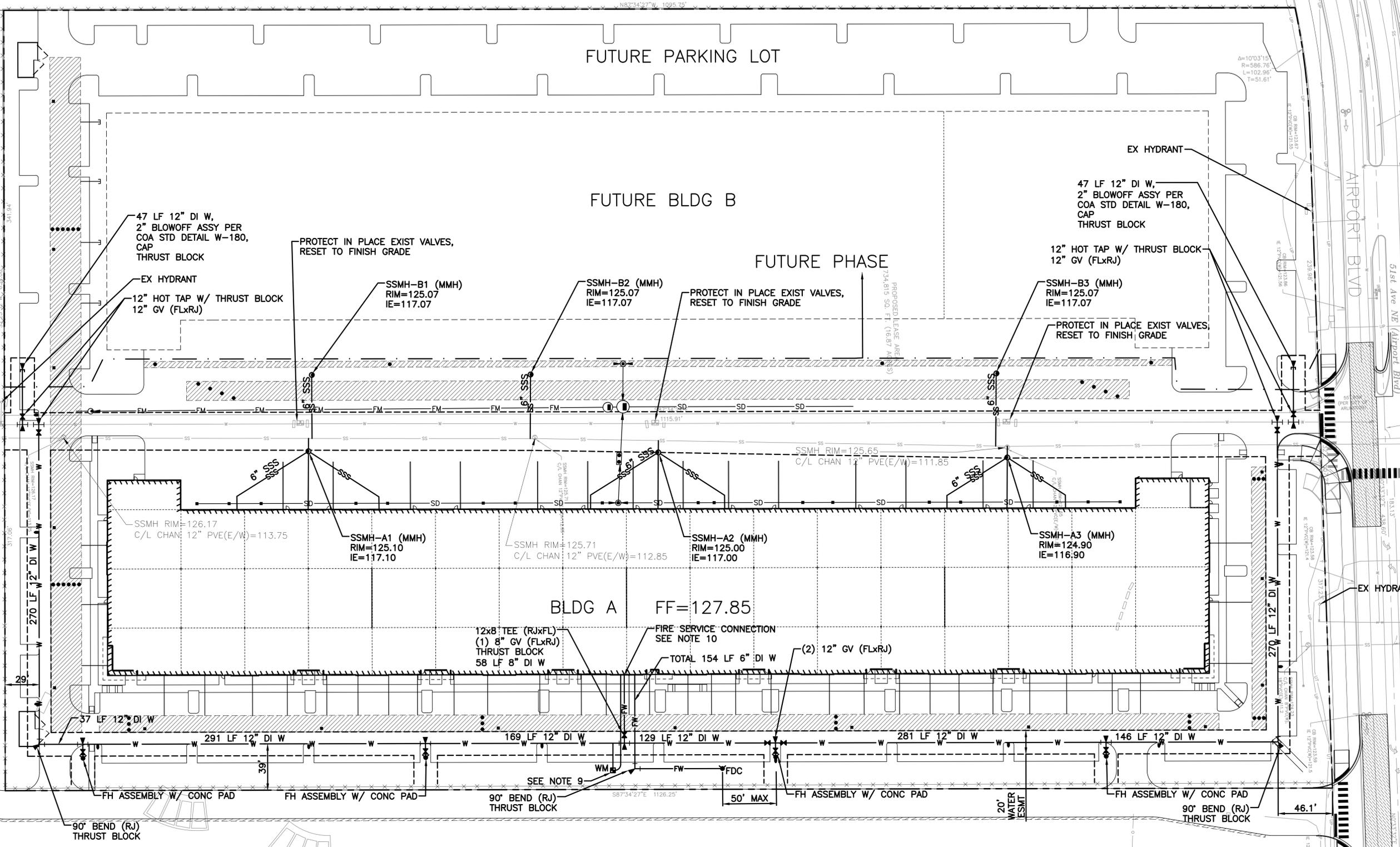
DRAINAGE PLAN

JOB NO.
190804

C2.4

NOTES:

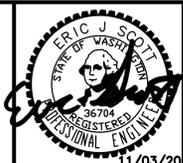
- SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.
- THRUST BLOCKING FOR WATER MAIN FITTINGS SHALL CONFORM TO COA STD PLANS W-160, W-165, AND W-170.
- TRENCH SECTION FOR WATER MAINS SHALL CONFORM WITH COA STD PLAN W-170.
- BEDDING MATERIAL FOR WATER SERVICE LINES SHALL BE SAND.
- TRENCH SECTION FOR SIDE SEWER SHALL CONFORM WITH COA STD PLAN SS-120.
- (FH) FIRE HYDRANT SHALL CONFORM TO COA STD DETAIL W-010. PORTS SHALL BE ORIENTED TOWARD THE PARKING LOT.
- HYDRANT CONCRETE PAD PER COA STD PLAN W-020.
- HYDRANT CONCRETE PAD AND BOLLARDS PER COA STD PLAN W-030.
- (WM) 2" WATER METER SHALL CONFORM TO COA STD PLAN W-050.
- 8" DI FIRE CONNECTION PER COA STD PLAN W-225.
- FIRE DEPARTMENT CONNECTION (FDC) SHALL HAVE A 5" STORZ FACING AWAY FROM STRUCTURE.
- FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LABELED WITH BUILDING ADDRESS AND NUMBER.
- UNLESS NOTED OTHERWISE, SEWER INVERT IS AT CENTER OF CHANNEL AT CENTER OF STRUCTURE. PROVIDE 0.1' DROP FROM UPSTREAM TO DOWNSTREAM PIPE CONNECTION TO MANHOLE.
- ALL DI WATER PIPE CONNECTIONS SHALL USE FIELD LOCK GASKETS.
- MIN SLOPE FOR 6" SSS IS 1.0%.
- A MINIMUM OF 18" OF SEPARATION SHALL BE PROVIDED BETWEEN SIDE SEWER TAPS TO SEWER MAIN.
- WATER MAIN SHALL HAVE MINIMUM 3' OF COVER PER COA STD DETAIL W-270.
- ALL SEWER PIPE SHALL BE SDR-35 PVC PIPE WITH SOLVENT WELDED JOINTS.
- SEWER CONNECTIONS TO MANHOLES SHALL BE WATERTIGHT JOINTS.



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PLAN CHECK	BY	DATE	REVISIONS	BY
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DESIGNED BY:		DATE NO.	REVISION	BY
REVIEWED BY:				

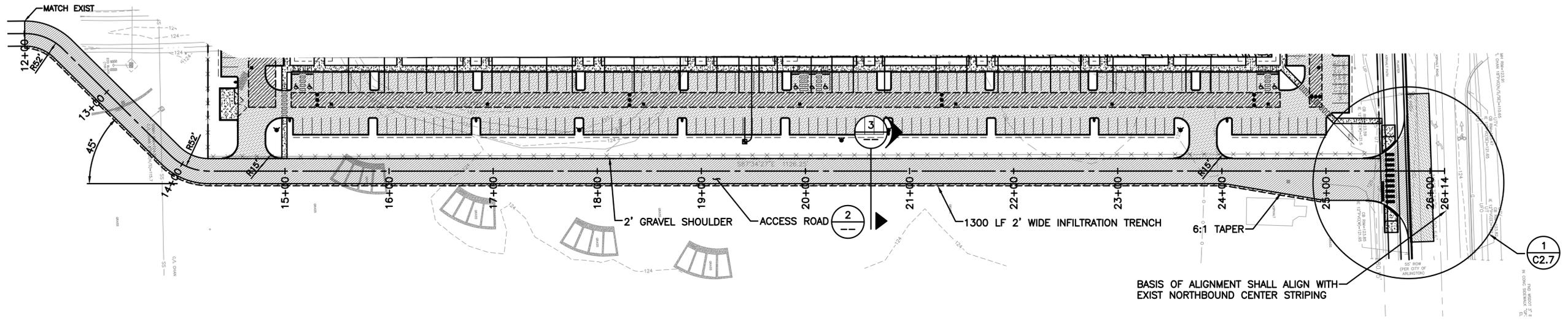


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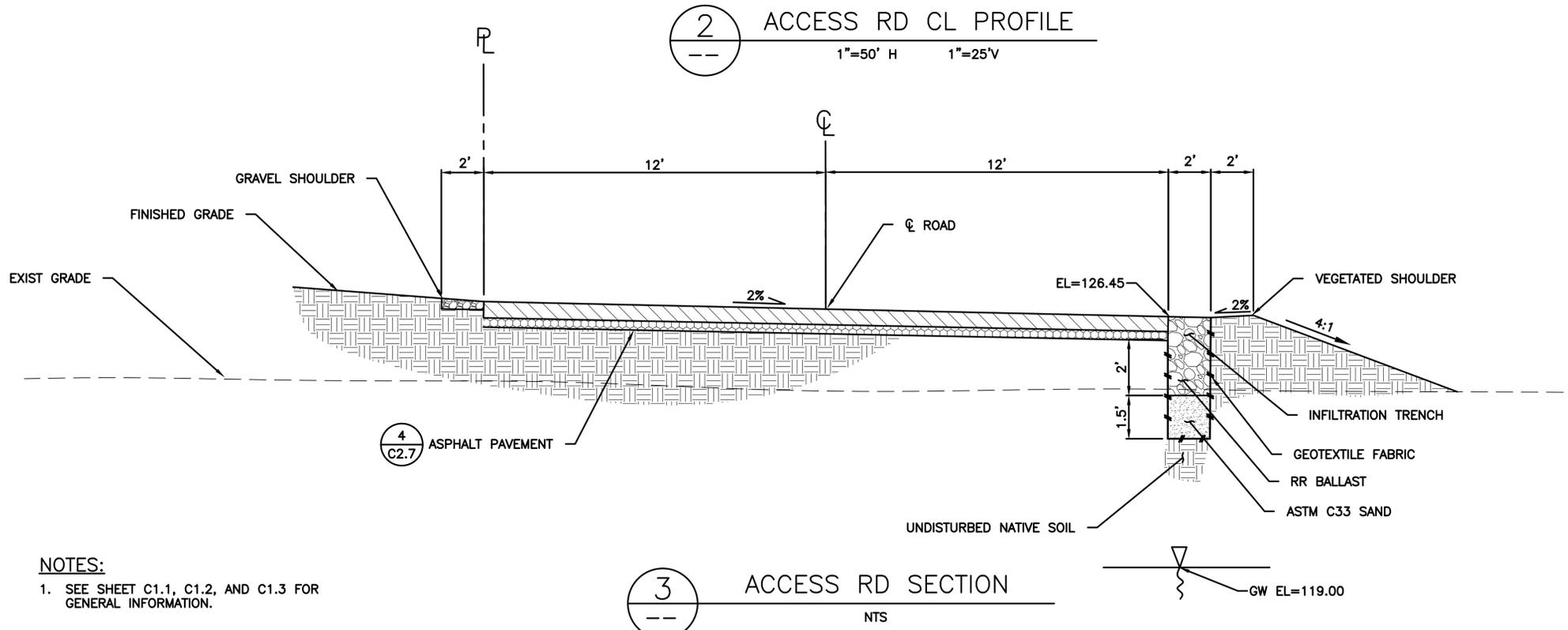
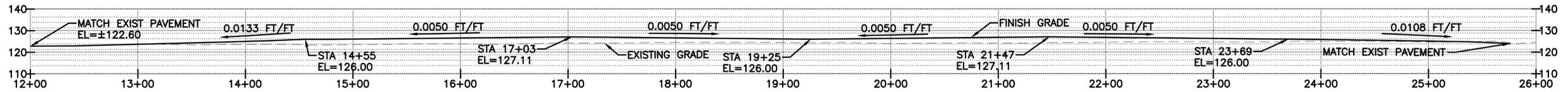
JOB NO. 190804

UTILITY PLAN

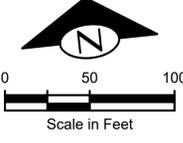
C2.5



BASIS OF ALIGNMENT SHALL ALIGN WITH EXIST NORTHBOUND CENTER STRIPING



NOTES:
1. SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.

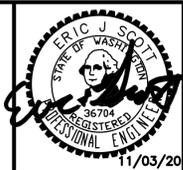


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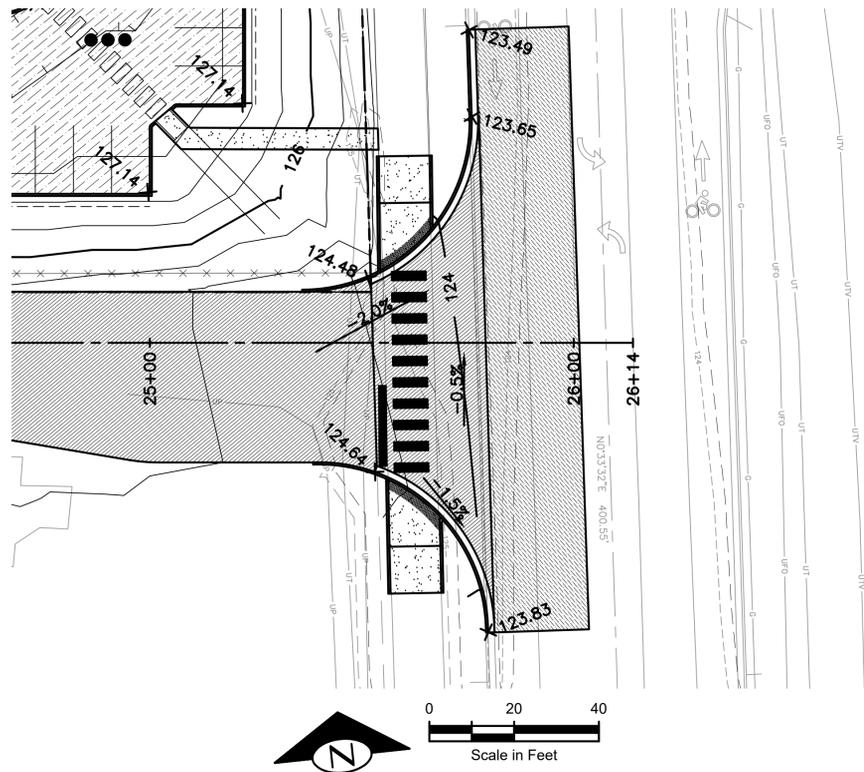
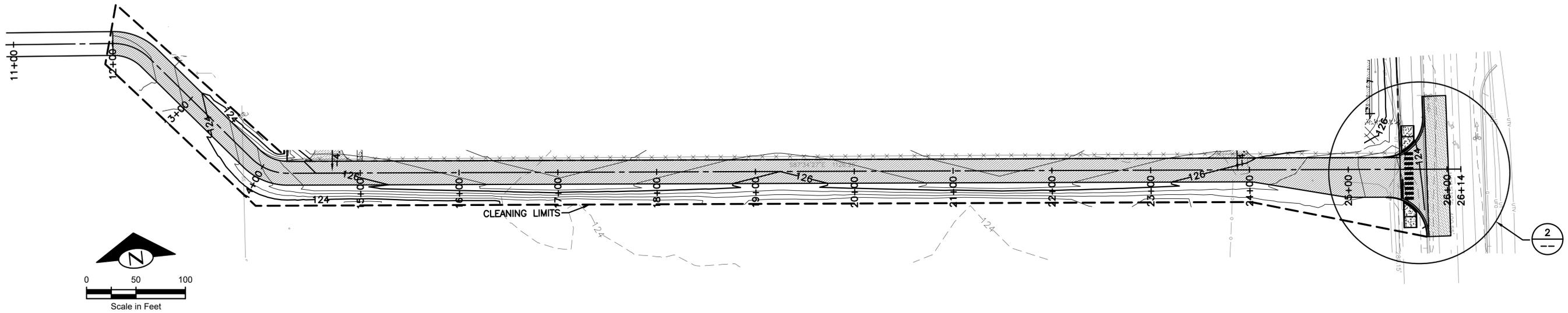
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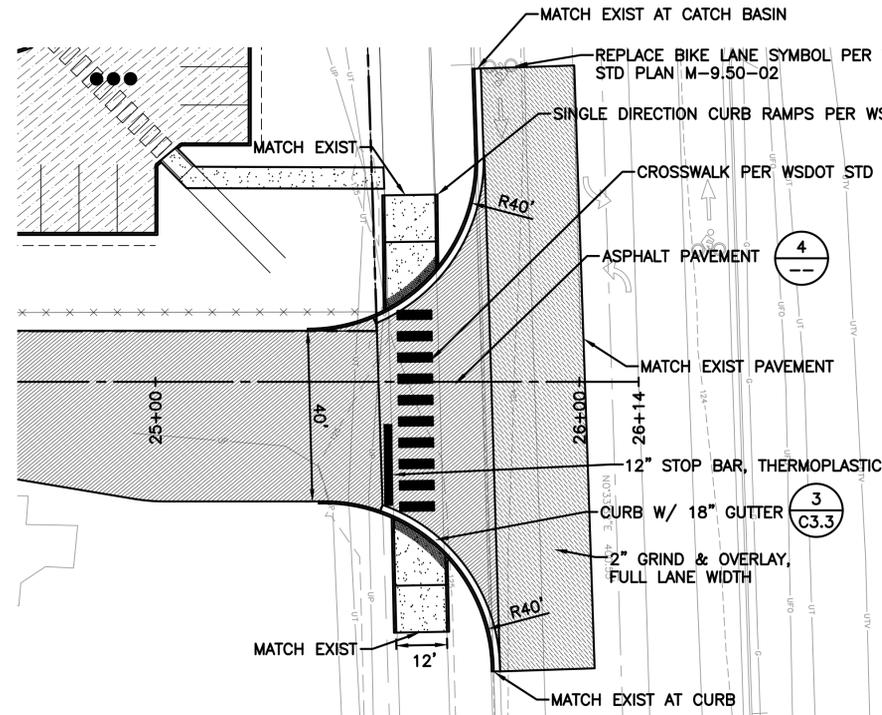
ACCESS RD PLAN & PROFILE

C2.6

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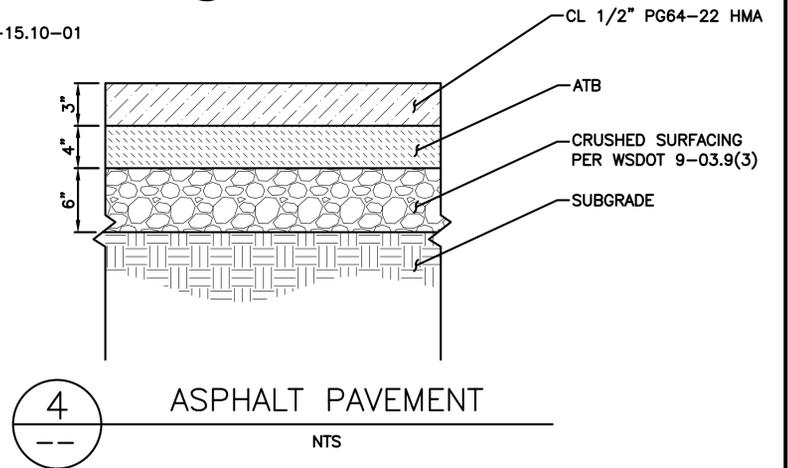
2 ENLARGED PLAN
1"=20'



LEGEND

- HMA PAVEMENT
- CONCRETE PAVEMENT
- GRIND & OVERLAY

1 ENLARGED PLAN
1"=20'



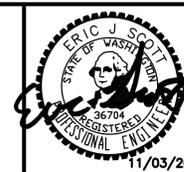
4 ASPHALT PAVEMENT
NTS



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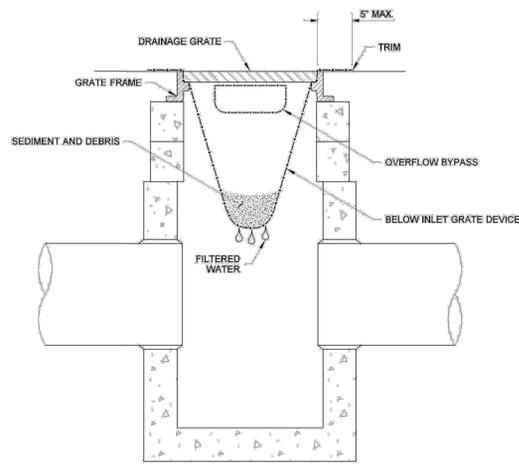


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ACCESS RD GRADING PLAN

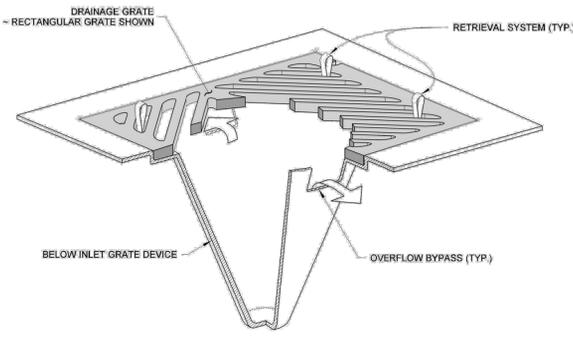
JOB NO.
190804
C2.7

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

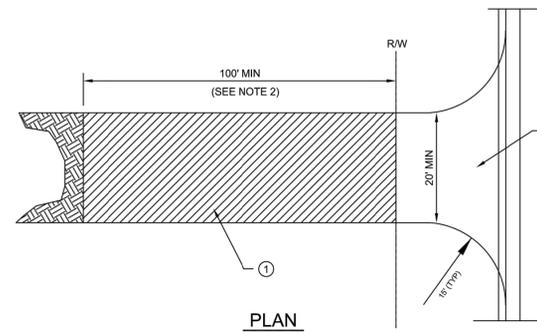


SECTION VIEW
NOT TO SCALE

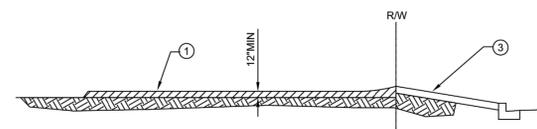


ISOMETRIC VIEW

1
C2.2 STORM INLET PROTECTION
NTS



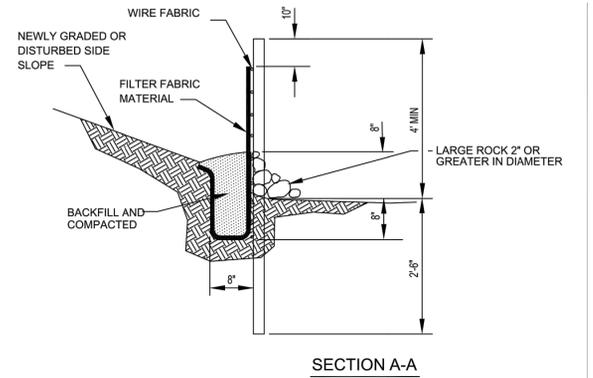
PLAN



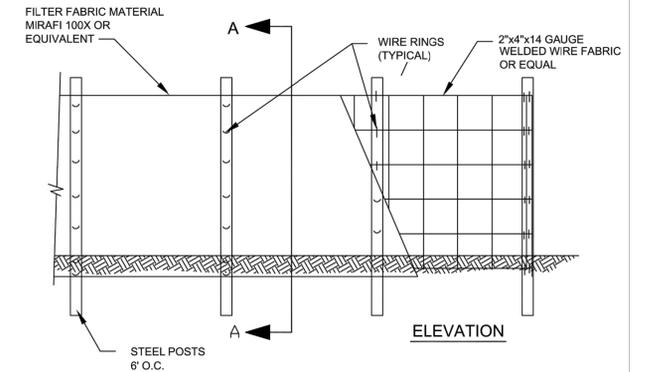
SECTION

NOTES:

1. QUARRY SPALLS 1" - 2" CRUSHED CONCRETE 4" - 8" OR HOG FUEL - PERMEABLE BALLAST PER WSDOT 9-03.9(2)
2. SEE FIGURE 4.2 IN THE 2005 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON FOR DETAILS. NOTE: THE MINIMUM 100LF OF ENTRANCE SHALL BE REDUCED TO THE MAXIMUM PRACTICABLE SIZE WHEN THE SIZE OR CONFIGURATION OF THE SITE DOES NOT ALLOW THE FULL LENGTH (100LF).
3. EXISTING DRIVEWAY RAMP, OR SITE ACCESS ROAD 20' WIDE MIN. MATERIAL MUST BE EQUAL TO OR BETTER THAN SPECIFIED IN NOTE 1.
4. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:
GRAB TENSILE STRENGTH (ASTM D4751) 200 PSI MIN.
GRAB TENSILE ELONGATION (ASTM D4632) 30% MAX.
MULLEN BURST STRENGTH (ASTM D3786-80A) 400 PSI MIN.
AOS (ASTM D4751) 20-45 (U.S. STANDARD SIEVE SIZE)

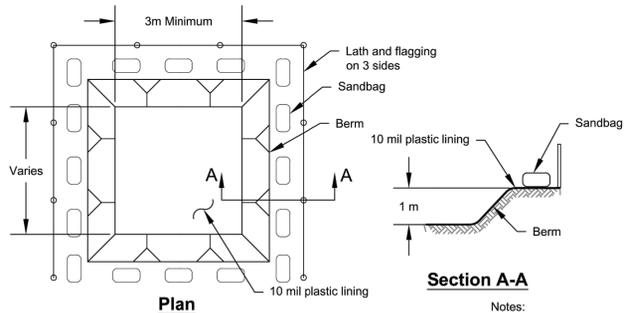


SECTION A-A



ELEVATION

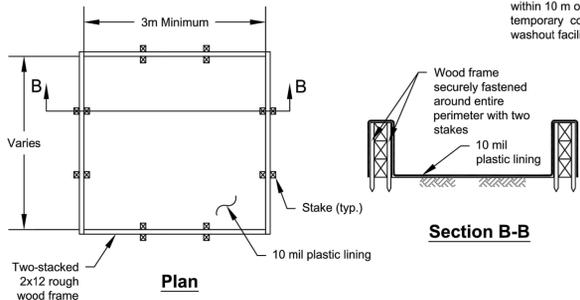
4
C2.2 SILT FENCE
NTS



Section A-A

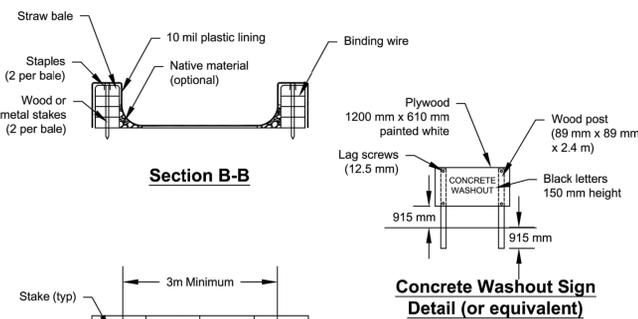
Type "Below Grade"

- Notes:
1. Actual layout determined in the field.
 2. A concrete washout sign shall be installed within 10 m of the temporary concrete washout facility.



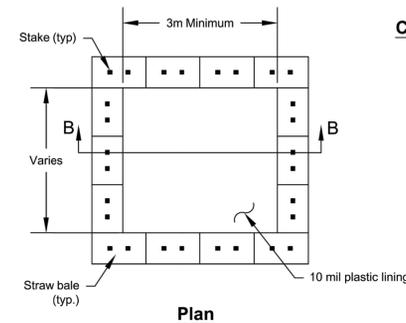
Section B-B

Type "Above Grade" with Wood Planks



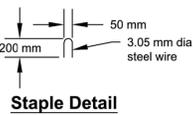
Section B-B

Concrete Washout Sign
Detail (or equivalent)



Plan

Type "Above Grade" with Straw Bales



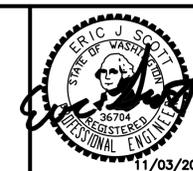
Staple Detail

- Notes:
1. Actual layout determined in the field.
 2. The concrete washout sign shall be installed within 10 m of the temporary concrete washout facility.

3
C2.2 CONCRETE WASH AREA
NTS

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				DATE	NO.
				DESIGNED BY:	REVIEWED BY:



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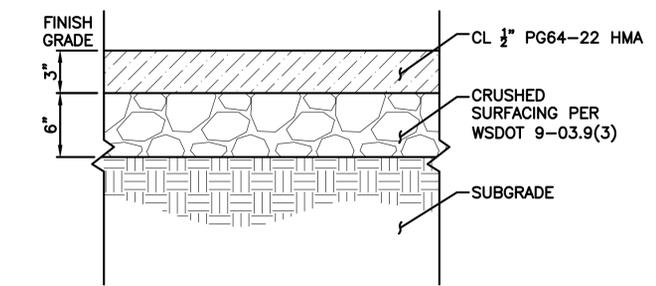
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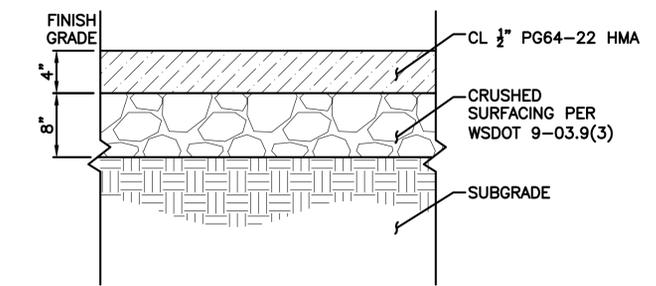
SWPPP DETAILS

C3.1

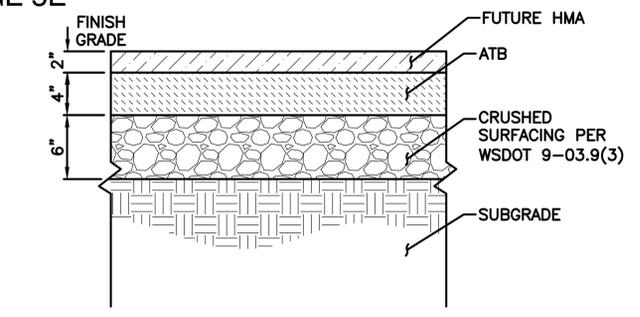
SEC 21 TWP 31 RGE 5E



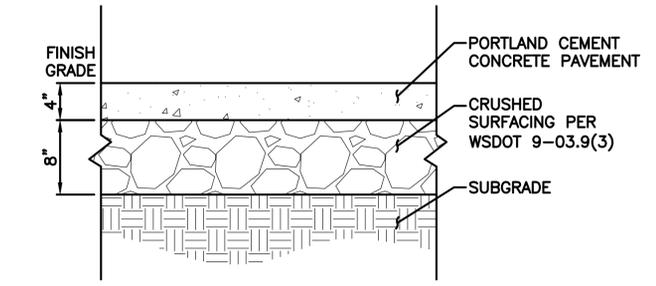
1 HMA TYPE 1
C2.2 NTS



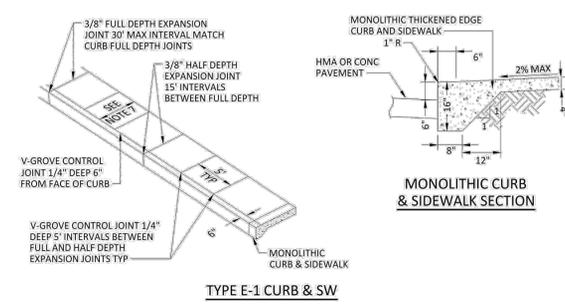
2 HMA TYPE 2
C2.2 NTS



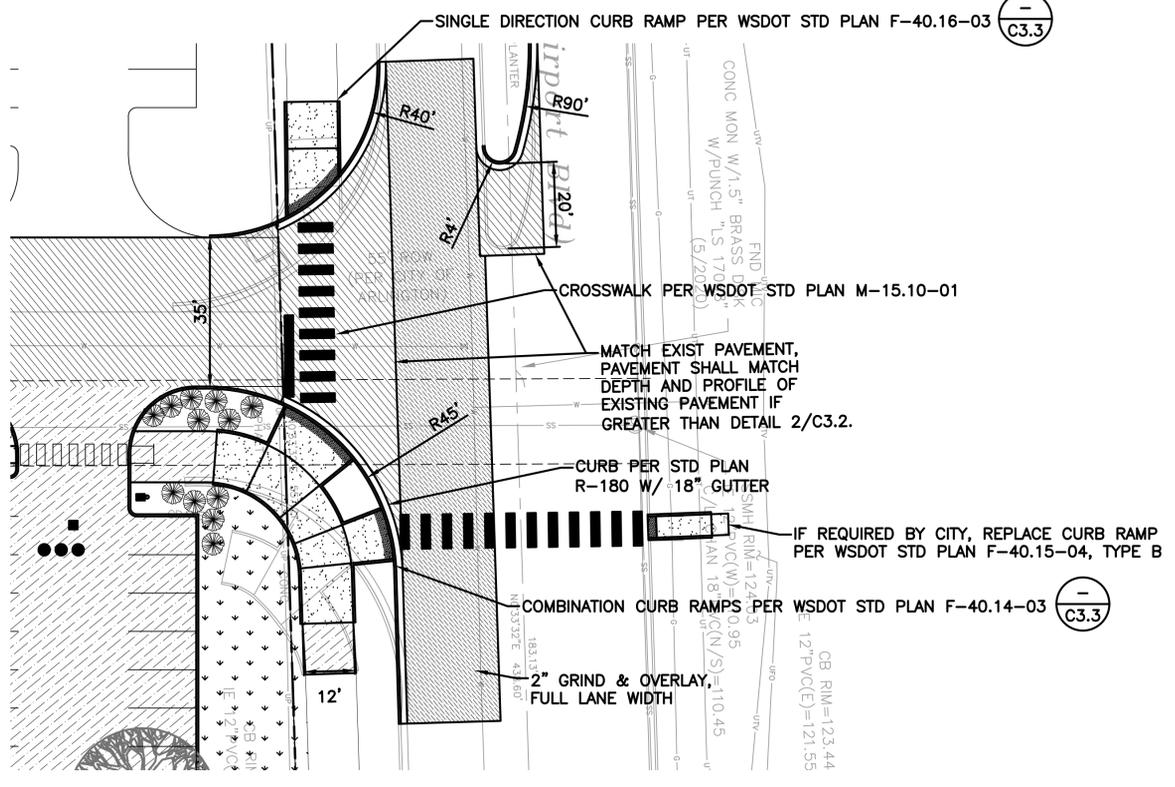
3 HMA TYPE 3
C2.2 NTS



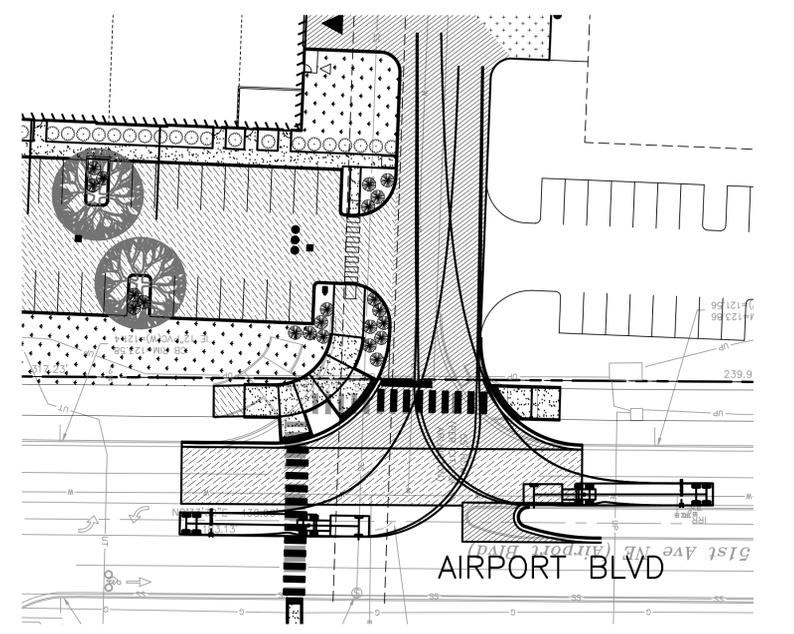
4 CONCRETE PAVEMENT
C2.2 NTS



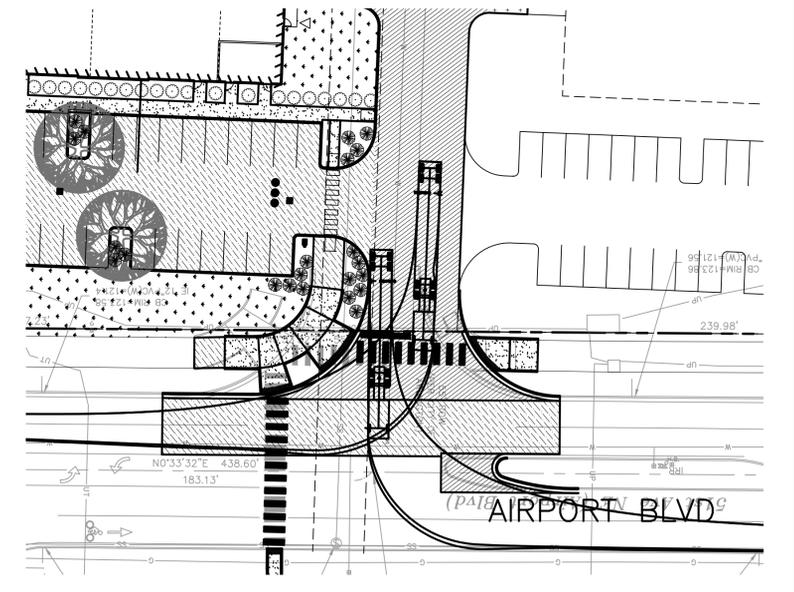
- NOTES**
- SIDEWALKS SHALL BE A MINIMUM OF 4" THICK, AND SHALL BE COMMERCIAL MIX CONCRETE AS CALLED OUT IN WSDOT STD SPECS, WITH AIR ENTRAINMENT (MIN 4.5%, MAX 6.5%).
 - SIDEWALK FULL DEPTH EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE IN ADJACENT CURB & GUTTER (WITHOUT PLANTER STRIP). MAXIMUM SPACING OF 30 FEET, FINAL SPACING DETERMINATION SHALL BE DECIDED BY THE INSPECTOR IN THE FIELD.
 - SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
 - SIDEWALK SHALL BE AT LEAST 6" THICK IN DRIVEWAYS AND BEHIND ROLL-CURB (STANDARD DRAWING 308).
 - THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.
 - ALL JOINTS SHALL BE CLEANED AND EDGED WITH AN EDGER HAVING A 3/8" RADIUS AFTER FINAL BROOM FINISH IS COMPLETED.
 - SIDEWALKS ARE 5' MIN WIDE, EXCEPT 6' ALONG ARTERIALS, IN COMMERCIAL AREAS, OR AS APPROVED BY THE CITY ENGINEER.
 - CURB REVEAL MUST MATCH EXISTING TOP OF CURB FOR REPLACEMENT PROJECTS. THIS MEANS THAT THE FULL CURB IS PLACED IN AS SHOWN IN THE TYPICAL SECTION BUT THE ASPHALT STREET WILL COVER FACE OF CURB SO LESS THAN 6" MAYBE REVEALED.



7 ENLARGED PLAN
C2.2 1"=20'



5 TRUCK INGRESS
C2.2 NTS

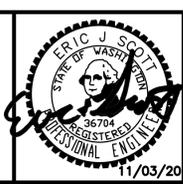


6 TRUCK EGRESS
C2.2 NTS

8 CONCRETE SIDEWALK
C2.2 NTS

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		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		9/14/20	2	SUP SUBMITTAL	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
				DATE	NO.
				DESIGNED BY:	REVIEWED BY:



SMARTCAP AIRPORT BUSINESS PARK
AIRPORT BLVD, ARLINGTON, WA 98223

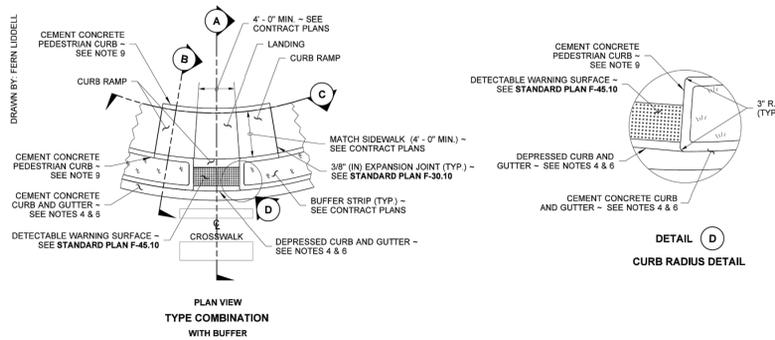
JOB NO.
190804

PAVING DETAILS

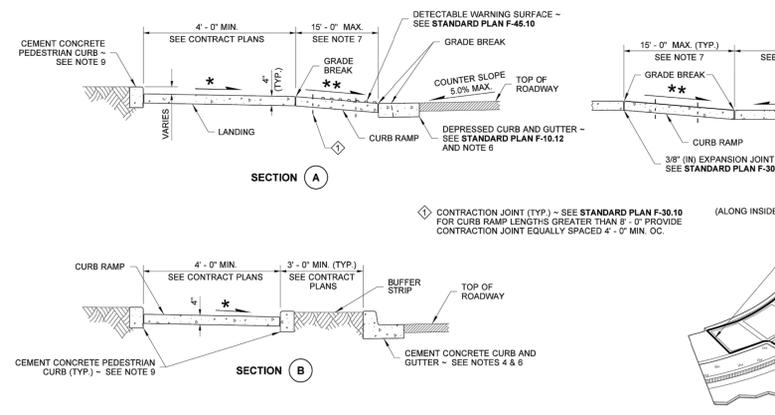
C3.2



CITY OF ARLINGTON
CONSTRUCTION DRAWING APPROVAL
THIS PLAN SHEET HAS BEEN REVIEWED AND APPROVED
PER THE CONDITIONS ON THE TITLE SHEET.
BY:
Nova Heaton, PE, Development Services Manager
DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS



- NOTES**
- At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
 - Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
 - Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the landing connects to the roadway.
 - See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
 - See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
 - The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
 - The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include the abutting landing in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
 - Curb Ramps and Landings shall receive a broom finish. See Standard Specifications 8-14.
 - Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.



LEGEND

- SLOPE IN EITHER DIRECTION
- 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)

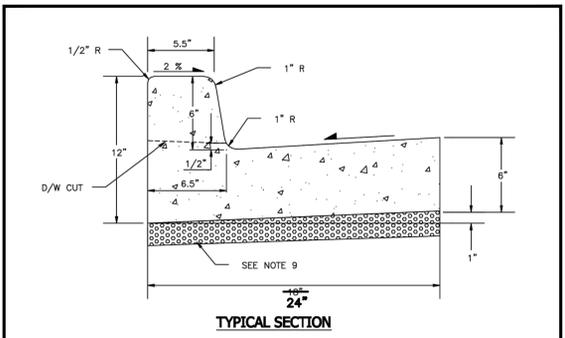
APPROVED FOR PUBLICATION

STANDARD PLAN F-40.14-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Washington State Department of Transportation



NOTES:

- FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED.
- DUMMY JOINTS SHALL BE PLACED 15 FEET ON CENTERS. DUMMY JOINTS SHALL BE 1/2" x 1-1/2".
- THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS, ALLEY AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 30 FT. PRE-MOLDED JOINT FILLER SHALL BE 1/2" WIDE AND CONFORM TO AASHTO DESIGN M213.
- ALL JOINTS SHALL BE CLEAN AND EGGED.
- CONCRETE SHALL BE CEMENT CONCRETE, CLASS 3000.
- STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
- FINISH SHALL BE LIGHT BROOM FINISH.
- THE FINISHED CURB SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND AND COVERED BY WATERPROOF PAPER OR PLASTIC MEMBRANE IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE A MINIMUM OF 72 HOURS.
- ALL CURB AND GUTTER SHALL BE PLACED ON A MIN OF 2" OF CRUSHED SURFACING TOP COURSE.
- DUMMY JOINT 1/2" x 1 1/2" BETWEEN TYPE 1 CURB AND GUTTER AND THE SIDEWALK.

APPROVED BY L. DUM

DATE 07/1/2008

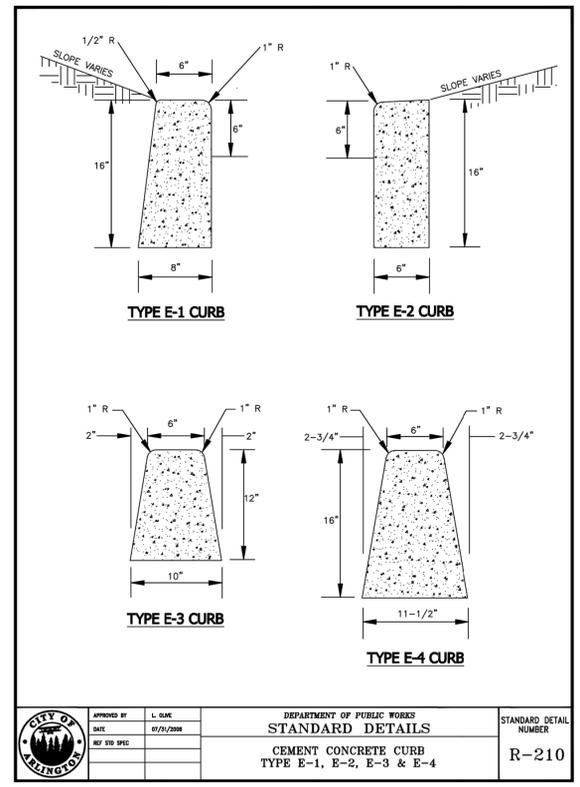
DEPARTMENT OF PUBLIC WORKS

STANDARD DETAILS

CEMENT CONCRETE CURB AND GUTTER TYPE 1

STANDARD DETAIL NUMBER R-180

3 CURB W/ 18" GUTTER NTS



APPROVED BY L. DUM

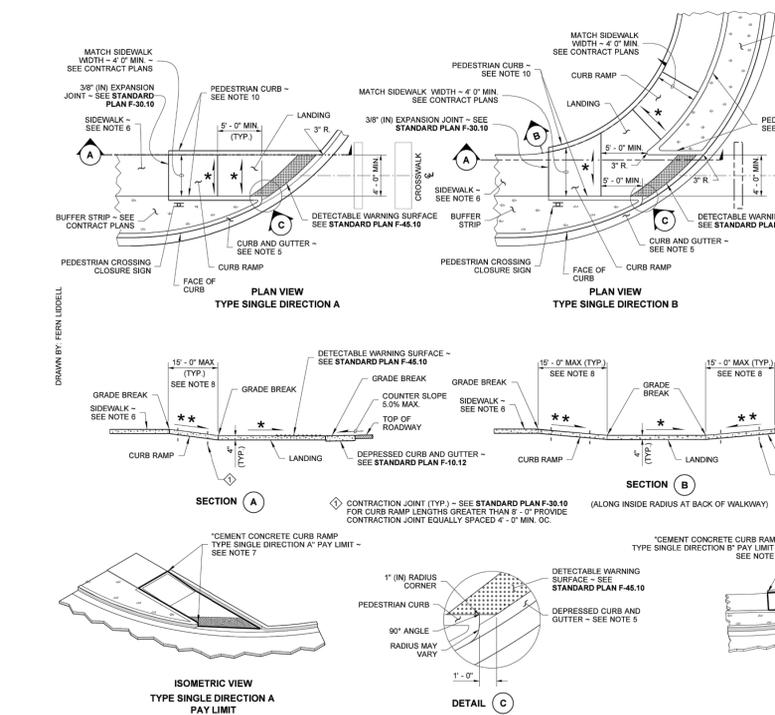
DATE 07/1/2008

DEPARTMENT OF PUBLIC WORKS

STANDARD DETAILS

CEMENT CONCRETE CURB TYPE E-1, E-2, E-3 & E-4

STANDARD DETAIL NUMBER R-210



NOTES

- This plan is to be used where pedestrian crossing in one direction is not permitted.
- At marked crosswalks, the connection between the Landing and the roadway must be contained within the width of the crosswalk markings.
- Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing or in the Depressed Curb and Gutter where the landing connects to the roadway.
- See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
- See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
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- Curb Ramps and Landings shall receive a broom finish. See Standard Specifications 8-14.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

LEGEND

- SLOPE IN EITHER DIRECTION
- 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)

APPROVED FOR PUBLICATION

SINGLE DIRECTION CURB RAMP

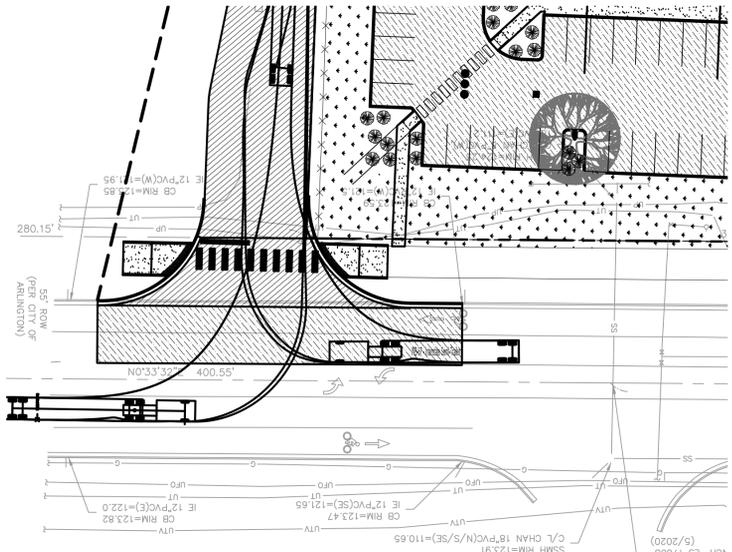
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

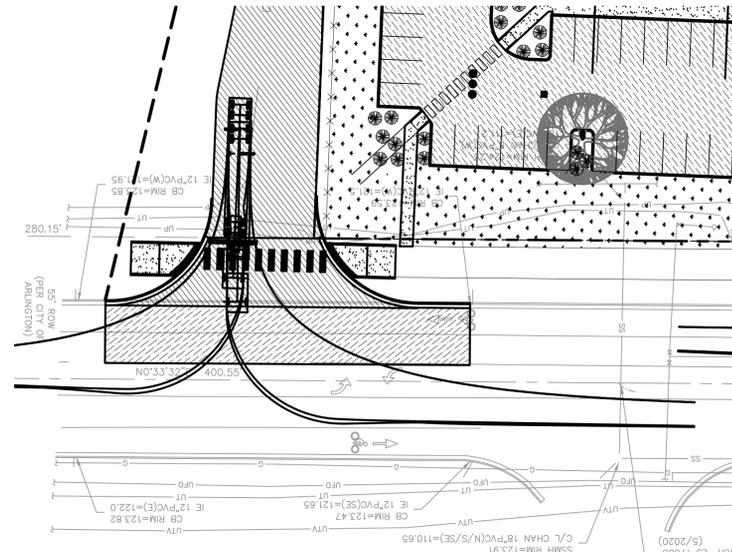
Washington State Department of Transportation



PLAN CHECK	BY	DATE	NO.	REVISIONS PER CITY COMMENTS	EJS
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		9/15/20	3	CIVIL PERMIT PLAN REVISIONS	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
DESIGNED BY:		DATE	NO.	REVISION	BY
REVIEWED BY:					



1 ALLEY INGRESS NTS



2 ALLEY EGRESS NTS

811

Know what's below. Call before you dig.

CITY OF ARLINGTON CONSTRUCTION DRAWING APPROVAL

THIS PLAN SHEET HAS BEEN REVIEWED AND APPROVED PER THE CONDITIONS ON THE TITLE SHEET.

BY: Nova Heaton, PE, Development Services Manager

DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS



TerraVista NW LLC

Consulting Engineers

3204 SMOKEY POINT DR, #207
ARLINGTON, WA 98223
360-391-2972
WWW.TERRAVISTANW.COM



SMARTCAP AIRPORT BUSINESS PARK

AIRPORT BLVD, ARLINGTON, WA 98223

PAVING DETAILS

JOB NO. 190804

C3.3

Plotted: Nov 04, 2020 - 10:44am Rodney T:\Projects\190804_SmartCAP_AABP (Arlington)\Plans\SCA_P-CIVIL.dwg Layout Name: C3.3-PAVE STD DETAILS

2"x4"x8" SOLID BRICK USED FOR FINAL ADJUSTMENT TO GRADE, 6" HIGH MAX

6" CONCRETE RISER SECTION

PRE-CAST BASE SECTION (MEASUREMENT AT THE TOP OF THE BASE)

NOTES:

- CONCRETE INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 & C890 UNLESS OTHERWISE SHOWN ON THE PLANS OR NOTED IN THE STANDARD SPECIFICATIONS. ALL CONCRETE SHALL BE CLASS 4000.
- REINFORCING SHALL BE EQUIVALENT TO WELDED WIRE FABRIC (WWF) HAVING A MINIMUM AREA OF 0.12 SQUARE INCH PER FOOT. WWF SHALL COMPLY TO ASTM A497. WWF SHALL NOT BE PLACED IN KNOCKOUTS.
- THE BOTTOM OF THE PRE-CAST BASE SECTION MAY BE ROUNDED.
- PRE-CAST BASES SHALL BE FURNISHED WITH CUTOUPS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUDED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUP HOLE SIZE IS EQUAL TO PIPE OUTSIDE DIAMETER PLUS CATCH BASIN WALL THICKNESS. KNOCKOUTS MAY BE ROUND OR "D" SHAPED AND MAY BE ON ALL 4 SIDES WITH MAXIMUM DIAMETER OF 28".
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
- THE TAPER ON THE SIDES OF THE PRE-CAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
- FRAME AND GRATE SHALL BE IN ACCORDANCE WITH WSDOT/APWA SPECIFICATIONS. FINISH SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- EDGE OF REDUCING SECTION OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.

APPROVED BY	L. DAK	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL	STANDARD DETAIL NUMBER
DATE	07/1/2008			
REF. STD. SPEC.				
			CATCH BASIN TYPE 1L	SD-030

PLAN

SECTION A-A

SECTION B-B

NOTES:

- FOUNDARY NAME, THIS SIDE TO CURB W/ARROW AND (D) FOR DUCTILE IRON SHALL BE EMBOSSED ON TOP OF GRATE WITH 1/16" RECESSED LETTERS.
- SEATING OF GRATE SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING: A. 8 INTEGRALLY CAST PADS (1-1/2"x3/4"x1/8"). B. MACHINE BOTTOM SURFACE OUTSIDE A 17" DIA.
- MATERIAL USED SHALL BE DUCTILE IRON PER ASTM-A536, GRADE 80-55-06. ALL CASTINGS SHALL HAVE A BITUMINOUS COATING.
- LOCKING GRATE CASTED HOLES SHALL BE CASTED TO ALLOW FOR TWO 5/8" DIA STAINLESS STEEL SOCKET HEAD CAP SCREWS SO THAT NO PART OF HEAD PROTRUDES ABOVE TOP OF CASTING.
- GRATE TO BE USED WITH FRAME SHOWN IN STANDARD DETAIL SD-090.
- REFER TO STORM STD NOTE 9 FOR LABEL.

APPROVED BY	L. DAK	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL	STANDARD DETAIL NUMBER
DATE	07/1/2008			
REF. STD. SPEC.				
			STANDARD GRATE CATCH BASIN INLET	SD-060

UNPAVED AREAS

PAVED AREAS

12" CAST IRON LOCKING RING AND COVER
OLYMPIC M1025 OR APPROVED EQUAL

NOTES:

- CLEAN-OUT PIPE AND FITTINGS SHALL BE THE SAME MATERIAL AS THE SEWER MAIN.
- A SANITARY TEE, SWEEP, OR STRAIGHT TEE IS NOT ACCEPTABLE.
- SEWER STUB WILL BE EXTENDED 10' BEYOND PROPERTY LINE AND 5' BEYOND UTILITY EASEMENTS TO PREVENT DAMAGE TO CLEAN-OUT AND MINIMIZE CONFLICTS WITH OTHER UTILITIES WHEN SERVICE TO BUILDING IS ACCOMPLISHED.

APPROVED BY	L. DAK	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL	STANDARD DETAIL NUMBER
DATE	07/1/2008			
REF. STD. SPEC.				
			SEWER CLEANOUT	SS-080

STANDARD OIL/WATER SEPARATOR

NOTES:

- FOR SEPARATE CAST-IN-PLACE ONLY
- REINFORCING STEEL (FOR SEPARATE BASES ONLY)
0.23 SQ. IN./FT. E.W. (48" CB)
0.19 SQ. IN./FT. E.W. (54" CB)
0.25 SQ. IN./FT. E.W. (60" CB)
0.35 SQ. IN./FT. E.W. (72" CB)
0.39 SQ. IN./FT. E.W. (96" CB)
- MORTAR SHALL BE PLACED BETWEEN EACH LEVEL OF ADJUSTING RINGS, TOP OF TOP SLAB, AND BOTTOM OF IRON RING.
- SEE THE STANDARD SPECIFICATIONS FOR MORE REQUIREMENTS.

APPROVED BY	L. DAK	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL	STANDARD DETAIL NUMBER
DATE	07/1/2008			
REF. STD. SPEC.				
			STANDARD OIL/WATER SEPARATOR	SD-120

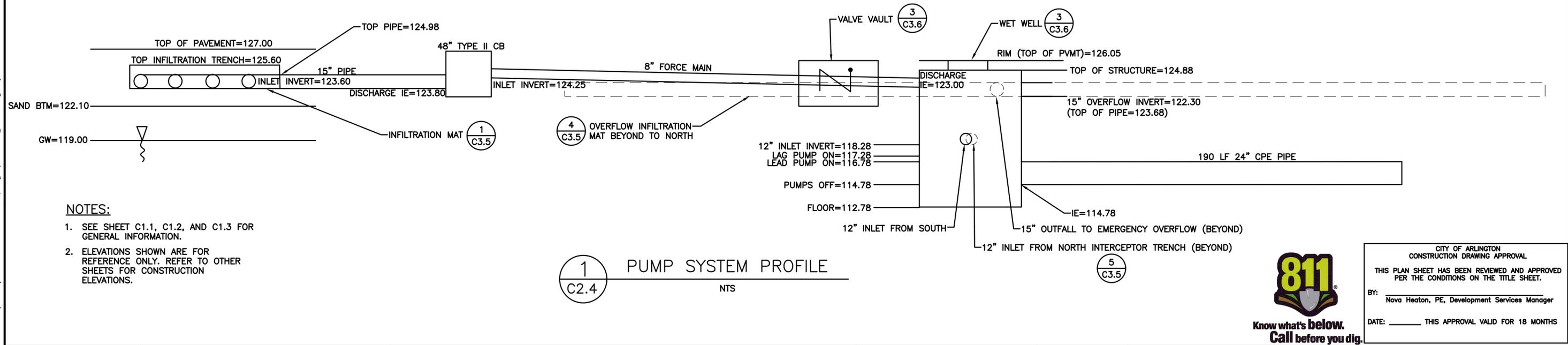
CATCH BASIN TYPE 2
48", 54", 60", 72" & 96"

NOTES:

- HANDHOLDS IN RISER OR ADJUSTMENT SECTION SHALL HAVE A 3" MINIMUM CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MINIMUM CLEARANCE. NO STEPS ARE REQUIRED WHEN "B" IS 4" OR LESS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MINIMUM OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
- MINIMUM SOIL BEARING STRENGTH SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
- MORTAR SHALL BE PLACED BETWEEN EACH LEVEL OF ADJUSTING RINGS, TOP OF TOP SLAB, AND BOTTOM OF IRON RING.
- SEE THE STANDARD SPECIFICATIONS FOR MORE REQUIREMENTS.

APPROVED BY	L. DAK	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL	STANDARD DETAIL NUMBER
DATE	07/1/2008			
REF. STD. SPEC.				
			CATCH BASIN TYPE 2 48", 54", 60", 72" & 96"	SD-040

Plotted: Nov 04, 2020 - 10:44am Rodney T.:Projects\190804_SmartCap\AABP (Arlington)\Plans\SCA_P-CVIL.dwg Layout Name: C3.4-SD DETAILS



PLAN CHECK	BY	DATE			
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
		DATE	NO.	REVISION	BY
		DESIGNED BY:		REVIEWED BY:	

SMARTCAP

TerraVista NW LLC
Consulting Engineers

3204 SMOKEY POINT DR, #207
ARLINGTON, WA 98223
360-891-2722
WWW.TERRAVISTANW.COM

ERIC J. SCOTT
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
36704
11/03/20

SMARTCAP AIRPORT BUSINESS PARK
AIRPORT BLVD, ARLINGTON, WA 98223

STORM DETAILS

JOB NO.
190804

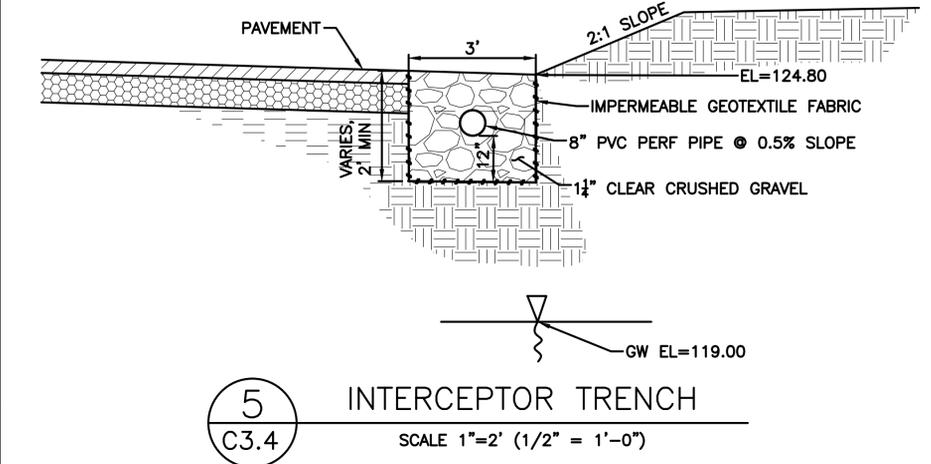
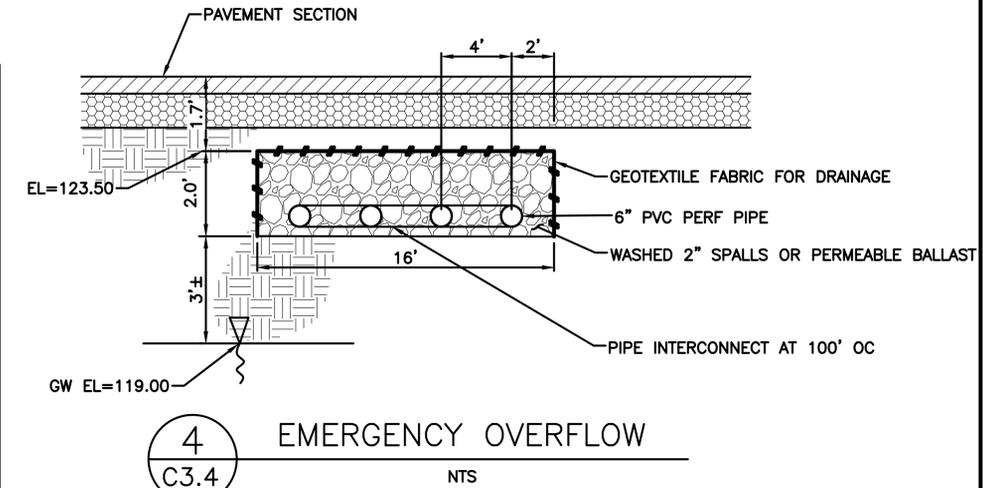
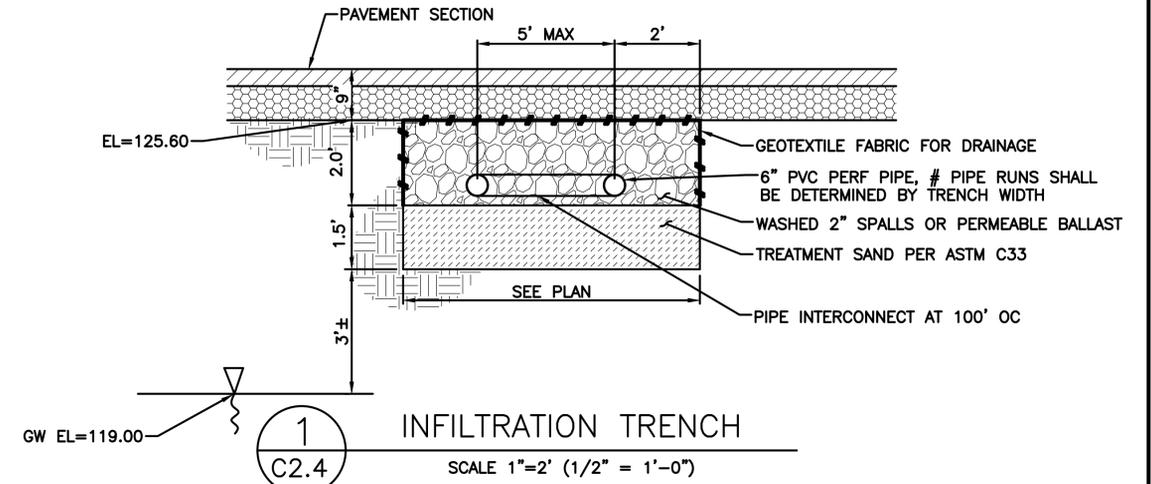
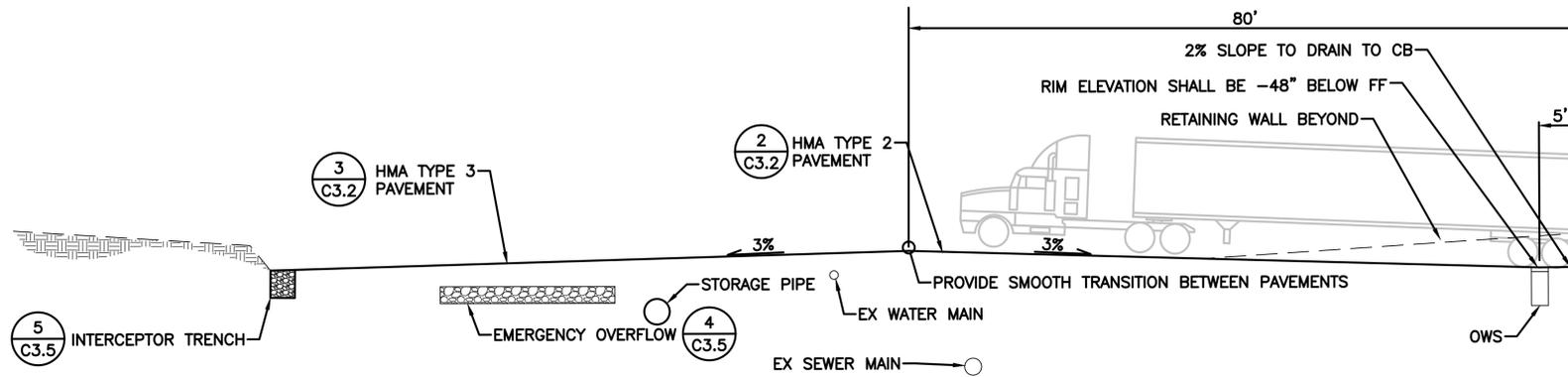
C3.4

811
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CITY OF ARLINGTON
CONSTRUCTION DRAWING APPROVAL
THIS PLAN SHEET HAS BEEN REVIEWED AND APPROVED PER THE CONDITIONS ON THE TITLE SHEET.

BY: **Nova Heaton, PE, Development Services Manager**

DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS



STRUCTURE TABLE

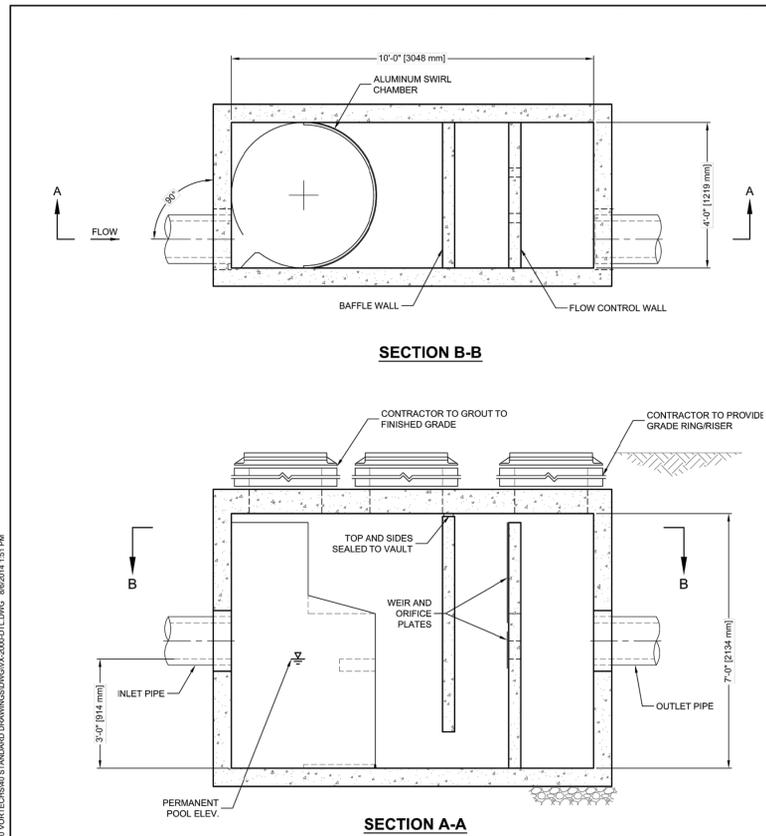
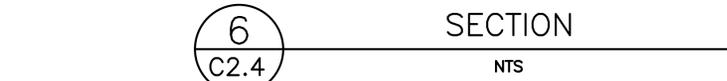
CB #	RIM	IE
C01	123.75	121.18
C02	123.75	121.04
C03	123.75	120.88
C04	123.75	120.40
C05	123.75	120.24
C06	123.75	119.75
C07	123.75	119.59
C08	123.75	119.14
C09 (48" TYP II)	123.75	119.06

STRUCTURE TABLE

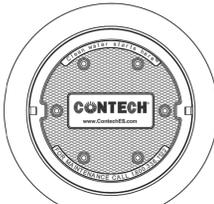
CB #	RIM	IE
C10	123.75	119.40
C11	123.75	119.47
C12	123.75	119.84
C13	123.75	119.97
C14	123.75	120.38
C15	123.75	120.51
C16	123.75	120.92
C17	123.75	121.05
C18	123.75	121.18
C19 (48" TYP II)	124.80	118.55 (S), 122.00 (E, W)

STRUCTURE TABLE

CB #	RIM	IE
C20	126.25	124.05
C21	126.25	124.05
C22	126.25	124.05
C23	126.25	124.05
C24	126.25	124.05
C25	126.25	124.05
C26	126.25	124.05
C27	126.25	124.05
C28	126.25	124.05
C29	126.25	124.05
C30	126.25	124.05
C31	126.25	124.05
C32	126.25	124.05
C33	126.25	124.05
C34	126.25	124.05



VORTECHS 2000 DESIGN NOTES
 VORTECHS 2000 RATED TREATMENT CAPACITY IS 2.8 CFS, OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED RATED TREATMENT CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
 THE STANDARD INLET/OUTLET CONFIGURATION IS SHOWN. FOR OTHER CONFIGURATION OPTIONS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com



FRAME AND COVER
 (DIAMETER VARIES)
 N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WATER QUALITY FLOW RATE (CFS)	PEAK FLOW RATE (CFS)	RETURN PERIOD OF PEAK FLOW (YRS)
	*	*	*

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
*	*	*

NOTES/SPECIAL REQUIREMENTS:
 * PER ENGINEER OF RECORD

GENERAL NOTES
 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com
 4. VORTECHS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 5. STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET AASHTO M308 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
 6. INLET PIPE(S) MUST BE PERPENDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIALLY TO THE SWIRL CHAMBER. DUAL INLETS NOT TO HAVE OPPOSING TANGENTIAL FLOW DIRECTIONS.
 7. OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL BAFFLE AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.

INSTALLATION NOTES
 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS STRUCTURE (LIFTING CLUTCHES PROVIDED).
 C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
 www.ContechES.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45389
 800-338-1122 513-645-7000 513-645-7993 FAX

VORTECHS 2000 STANDARD DETAIL



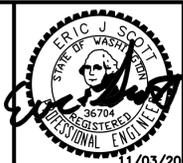
NOTES:
 1. SEE SHEET C1.1, C1.2, AND C1.3 FOR GENERAL INFORMATION.

PLAN CHECK	BY	DATE	NO.	REVISION	BY
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
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DESIGNED BY: _____ REVIEWED BY: _____



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 WWW.TERRAVISTANW.COM



SMARTCAP AIRPORT BUSINESS PARK
 AIRPORT BLVD, ARLINGTON, WA 98223

STORM DETAILS

JOB NO. 190804

C3.5

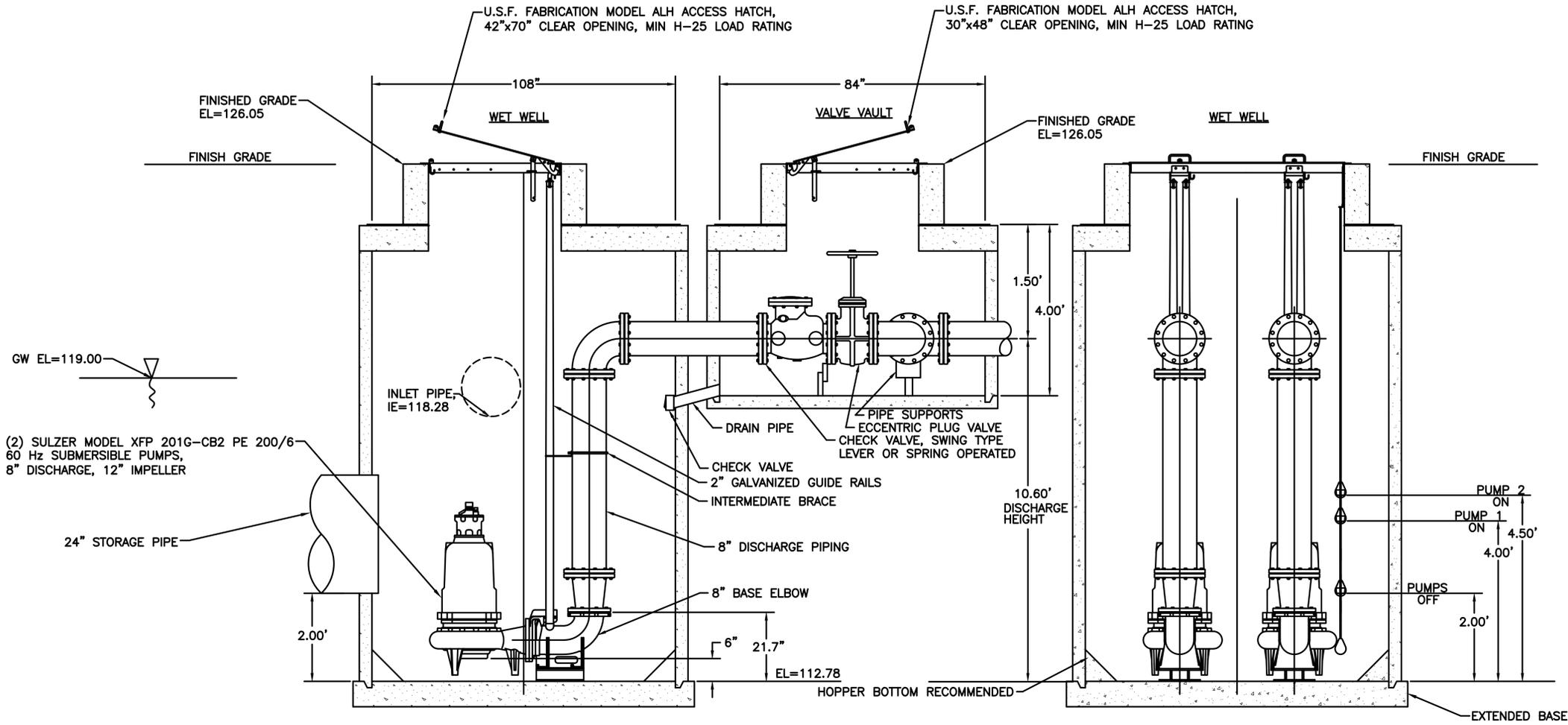
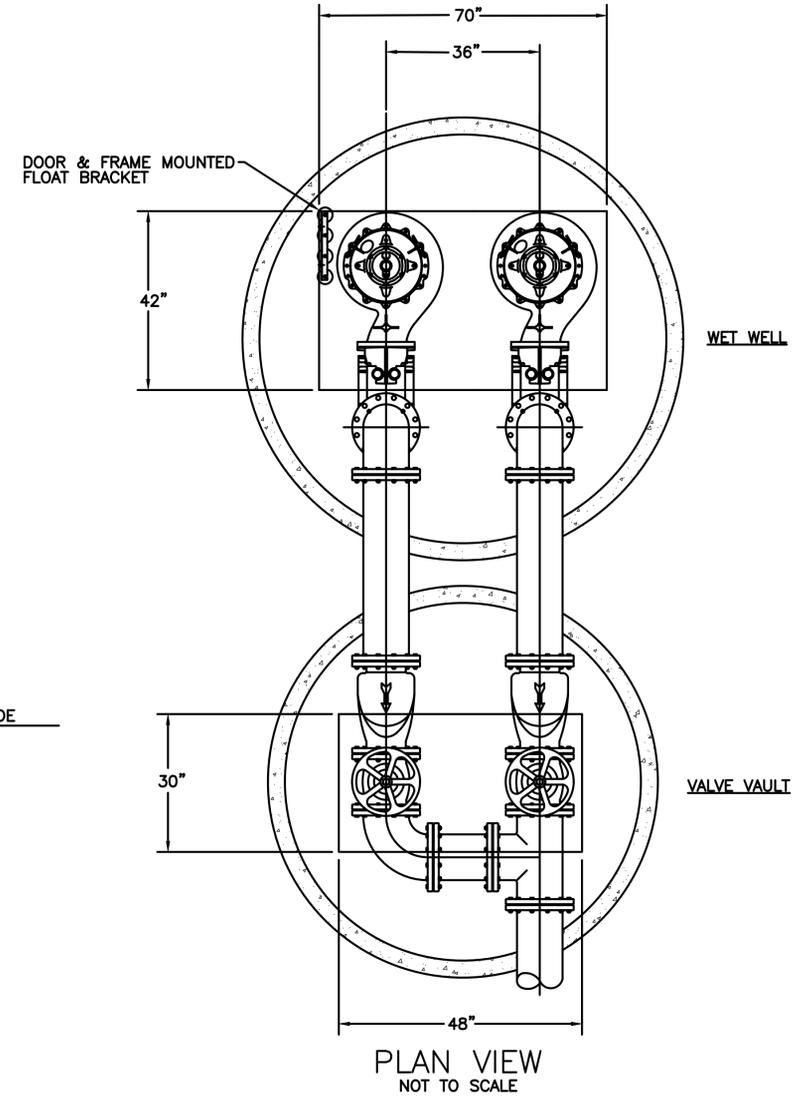


CITY OF ARLINGTON CONSTRUCTION DRAWING APPROVAL
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 BY: Nova Heaton, PE, Development Services Manager
 DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

Plotted: Nov 04, 2020 - 10:44am Rodney T:\Projects\190804_SmartCap\AABP_Arlington\Plans\SCA_P-CVIL.dwg Layout Name: C3.5-SD DETAILS

SYSTEM CHARACTERISTICS	
APPLICATION	STORM WATER
DESIGN FLOW (gpm)	1755
STATIC HEAD (ft)	9.5
FORCE MAIN LENGTH (ft)	450
MOTOR (Hp, Frequency)	27, 60 Hz
AVAILABLE POWER SUPPLY (V, Phase)	460, 3

WETWELL VOLUME	
PUMP 1 ON	722 FT ³
PUMP 2 ON	754 FT ³



(2) SULZER MODEL XFP 201G-CB2 PE 200/6
60 Hz SUBMERSIBLE PUMPS,
8" DISCHARGE, 12" IMPELLER

NOTE: ALL MANHOLE JOINTS
SHALL BE WATERTIGHT.

SIDE PROFILE VIEW
NOT TO SCALE

FRONT PROFILE VIEW
NOT TO SCALE

3
C2.4 LIFT STATION
NTS

PUMP SYSTEM DEVELOPED
WITH ASSISTANCE FROM:



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CONSTRUCTION DRAWING APPROVAL
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BY: Nova Heaton, PE, Development Services Manager
DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

Plotted: Nov 04, 2020 - 10:44am Rodney T:\Projects\190804_SmartCAP_AAAP (Arlington)\Plans\SCA_P-CIVIL.dwg Layout Name: C3.6-LIFT STATION DET

PLAN CHECK	BY	DATE	NO.	REVISION	BY
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
DESIGNED BY:		DATE	NO.	REVISION	BY
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JOB NO.
190804

LIFT STATION DETAIL

C3.6

MANHOLE COVER

NOTES:

- MANHOLE RINGS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M 105, GRADE 30B.
- MANHOLE COVER TO BE DUCTILE IRON CONFORMING TO ASTM A536, GR 80-55-06 OLYMPIC FOUNDARY PART NO. MH30 OR APPROVED EQUAL.
- LOCKING COVER TO BE USED IN ALL LOCATIONS. THE LID SHALL BE LOCKED DOWN WITH 3-5/8" S.S SOCKET HEAD CAP SCREWS.
- RING AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS FOR DELIVERY.
- ALL CASTINGS TO HAVE A BITUMINOUS COATING.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-030
REF STD SPEC		MANHOLE COVER	

MANHOLE LADDER STEP

NOTE:

- STEPS LOCATED IN RISER SECTIONS SHALL BE 6".

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-050
REF STD SPEC		MANHOLE LADDER STEP	

NEW SERVICE ON EXISTING MAIN

NOTES:

- PVC SIDE SEWER, FOR REMAINDER OF PVC SERVICE SEE SS-090.
- ROMAC STYLE CB TAPPING SADDLE OR APPROVED EQUAL ON ALL PIPE.
- CORE-DRILLING WITH INSERT-A-TEE MAY ALSO BE USED ON ALL PIPE.
- CORE DRILL EXISTING MAINLINE PIPE PER MFG'S SPECIFICATIONS.
- 35' MIN, 45' MAX.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-100
REF STD SPEC		NEW SERVICE ON EXISTING MAIN	

TRENCH SECTION

NOTES:

- ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES BEFORE COMPACTION UNLESS AUTHORIZED BY THE CITY ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT.
- MECHANICAL COMPACTION OF BACK FILL MATERIAL SHALL NOT BEGIN UNTIL THE DEPTH OF COMPACTED BACKFILL MATERIAL IS 2 FEET ABOVE THE TOP OF PIPE.
- EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFT OF BACKFILL MATERIAL.
- COMPACTION TESTS SHALL BE AS REQUIRED BY THE CITY ENGINEER, BUT IN NO CASE LESS THAN 2 TESTS EVERY 200 FEET OF TRENCH (ONE AT SUBGRADE AND ONE AT 50% OF TRENCH DEPTH).
- IN-PLACE DENSITY AND MOISTURE CONTENT WILL BE DETERMINED USING NUCLEAR METHOD, ASTM 2922-71.
- LABORATORY MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT WILL BE DETERMINED USING THE MODIFIED PROCTOR METHOD IN ACCORDANCE WITH ASTM D-1557.
- BEDDING MATERIAL SHALL BE 3/8" MINUS.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-120
REF STD SPEC		TRENCH SECTION	

MANHOLE LADDER

NOTES:

- STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO:
 - ASTM C 478 AND AASHTO M-199, MINIMUM HORIZONTAL LOAD SHALL BE 1500 LBS.
 - ASTM A615 GRADE 60 (REINFORCING STEEL BAR).
 - POLYPROPYLENE CONFORMS TO D-4101.
- MANHOLE STEPS SHALL HAVE MOLDED SAFETY HAND GRIP. RED REFLECTORS ARE REQUIRED.
- ALL FABRICATION DIMENSIONS INDICATED ARE MINIMUM.
- THE ENTIRE POLYPROPYLENE PLASTIC MATERIAL SURROUNDING THE REINFORCING STEEL BAR SHALL BE CAST MONOLITHICALLY. MINIMUM COVER SHALL BE 3/16-INCH.
- STEPS SHALL BE SPACED AT 12 INCHES.
- LADDER SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURERS RECOMMENDED PROCEDURES.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-040
REF STD SPEC		MANHOLE LADDER	

MANHOLE PAD AND ADJUSTMENT

NOTES:

- CONCRETE SHALL CONFORM TO CURRENT STANDARDS AND SHALL BE 5.5 SACK MIX. (MINIMUM 3000-PSI 28-DAY STRENGTH)
- WHERE DEPTH OF NECK EXCEEDS 26 INCHES, ADJUST MANHOLE TO GRADE BY INSERTING A NEW MANHOLE BARREL SECTION BETWEEN THE CONE AND EXISTING BARREL.
- ADJUSTMENT RINGS/BLOCK, TOP OF CONE SECTION, AND BOTTOM OF IRON RING, SHALL BE WET STACKED IN 3/4" GROUT, PLASTER SMOOTH INSIDE AND OUT.
- STEPS OR RUNGS SHALL BE ADDED AS NEEDED PER SS-040 AND SS-050.
- PRECAST ADJUSTMENT RINGS SHALL BE CAST WITH GROOVE TO ALLOW FIELD INSTALLATION OF SAFETY STEP.
- CONCRETE PERIMETER SEAL SHALL EXTEND TO 12 INCH MINIMUM OR 2 INCHES BELOW THE BOTTOM OF THE ADJUSTMENT RINGS OR BLOCKS.
- SAWCUT ONLY. NO OVERCUTTING LIMITS OF PATCH.
- IN NON-TRAFFIC AREAS (LANDSCAPED) THE CONCRETE PAD IS 4" THICK WITHOUT REINFORCEMENT.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-070
REF STD SPEC		MANHOLE PAD AND ADJUSTMENT	

MONITORING MANHOLE

NOTES:

- CONCRETE PERIMETER SEAL SHALL EXTEND TO 12 INCH MINIMUM OR 2 INCHES BELOW THE BOTTOM OF THE ADJUSTMENT RINGS OR BLOCKS.
- SAWCUT ONLY. NO OVERCUTTING LIMITS OF PATCH.
- IN NON-TRAFFIC AREAS (LANDSCAPED) THE CONCRETE PAD IS 4" THICK WITHOUT REINFORCEMENT.

APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-130
REF STD SPEC		MONITORING MANHOLE	

MANHOLE TYPE I

NOTES:

- MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M-199 (ASTM C 478) UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN STANDARD SPECIFICATIONS.
- ALL REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000, NON-REINFORCED CONCRETE IN CHANNEL AND SHELF SHALL BE CLASS 3000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS.
- ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.
- CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MAXIMUM PIPE SIZE IS 12" FOR 48" MANHOLE, 24" FOR 54" MANHOLE. MINIMUM DISTANCE BETWEEN HOLES IS 8" MEASURED ON THE INSIDE OF THE MANHOLE.
- MANHOLE SIZE DEPENDS ON SIZES, LOCATION AND NUMBERS OF HOLES FOR PIPES. MANHOLE DESIGN AND SIZE SHALL BE APPROVED AND WARRANTED BY THE MANHOLE SUPPLIER.
- FOR DEPTHS OVER 25' MANHOLE BASE SLAB DESIGN SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
- ALL INTERIOR AND EXTERIOR JOINTS TO BE GROUTED (SEE GROUT SPECIFICATIONS). GROUT TO BE 1/2" THICK MINIMUM AND 3" EACH SIDE OF JOINT MINIMUM. THEY MUST BE INSPECTED PRIOR TO BACKFILL.
- CORE DRILLING ONLY. HAMMERING KNOCKOUTS WILL NOT BE ALLOWED. KOR-N-SEAL FACTORY INSTALLED BOOTIES ARE ALLOWED.
- MANHOLES 5'-7" DEEP MUST BE FLAT TOPS.

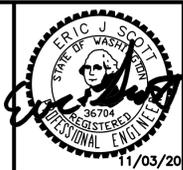
APPROVED BY	L. DATE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAIL	SS-010
REF STD SPEC		MANHOLE TYPE I	

PLAN CHECK	BY	DATE			
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		7/31/20	1	PERMIT SUBMITTAL	EJS
		DATE	NO.	REVISION	BY
		DESIGNED BY:		REVIEWED BY:	



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SEWER STANDARD DETAILS

JOB NO.
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C3.7



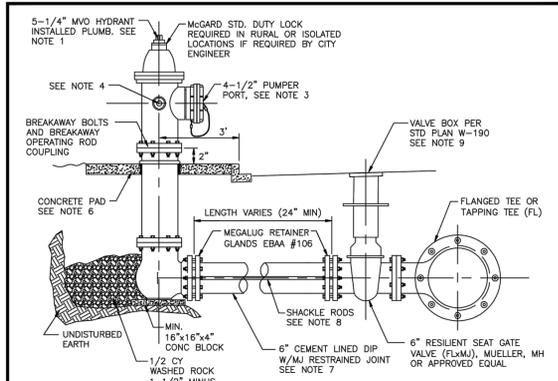
CITY OF ARLINGTON
CONSTRUCTION DRAWING APPROVAL

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BY: Nova Heaton, PE, Development Services Manager

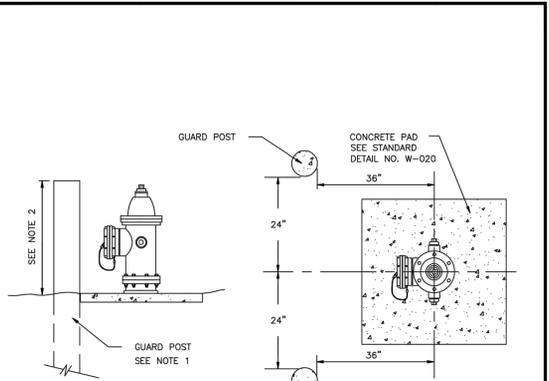
DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

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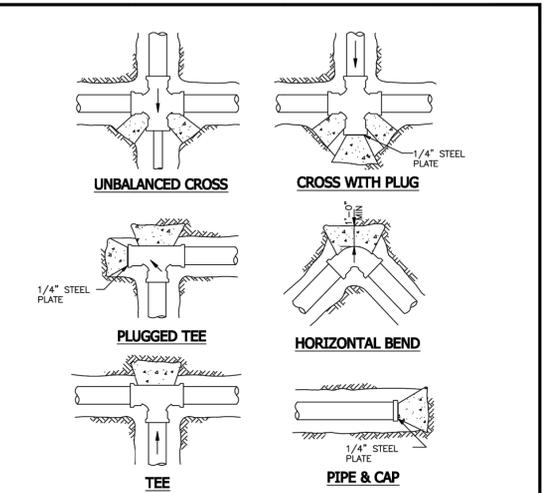
- NOTES:**
- HYDRANTS AND ALL MATERIALS SHALL CONFORM TO AWWA STANDARDS AND SHALL BE OF STANDARD MANUFACTURE (M&H 929 RELIANT OR MUELLER SUPER CENTURION 250 ONLY).
 - THE CENTER OF THE HYDRANT SHALL BE 3' FROM FACE OF CURB. IF THERE IS NO CURB, THE CENTER OF HYDRANT SHALL BE 3' FROM RIGHT-OF-WAY AND A MINIMUM OF 5' FROM TRAVELED LANE.
 - ONE 5" TO 4-1/2" PUMPER PORT W/N.S.T. AND STORZ ADAPTER ASSEMBLY. PUMPER PORT TO BE FACING STREET OR ROADWAY FOR THE FIRE ENGINE ACCESS.
 - TWO 2-1/2" HOSE PORTS W/N.S.T. AND 1-1/4" OPERATING NUTS.
 - PROVIDE GUARD POSTS FOR VEHICULAR TRAFFIC PROTECTION IF REQUIRED BY CITY ENGINEER PER STD. DETAIL W-030.
 - INSTALL 3'x3'x4" CONCRETE PAD (3000 PSI) AROUND HYDRANT IN UNPAVED AREAS INCLUDING PLANTER STRIPS. COMPLETELY SURROUND HYDRANT W/FULL DEPTH OF CONCRETE PAD WITH 1/4" JOINT MATERIAL BEFORE PLACING CONCRETE.
 - HYDRANT RUN TO BE 6" CEMENT LINED DUCTILE IRON PIPE CLASS 52 WITH RESTRAINED JOINTS (MEGALOG OR APPROVED EQUAL). HYDRANT RUN LONGER THAN 50 FEET SHALL BE 8" DIA. OR LARGER.
 - 3/4" GALV. SHACKLE RODS WITH THE EYE BOLTS AT BOTH ENDS REQUIRED FROM VALVE TO HYDRANT.
 - FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF HIGH GLOSS EQUIPMENT YELLOW "RUST-OLEUM" TYPE PAINT.
 - INSTALL 24"x24"x4" CONCRETE PAD (3000 PSI) AROUND VALVE BOX AND 48"x48"x4" FOR MULTIPLE VALVE BOXES IN UNPAVED AREA.

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-010
REF STD SPEC		FIRE HYDRANT ASSEMBLY	



- NOTES:**
- GUARD POSTS SHALL BE 8' LONG, 6" DIAMETER, CONCRETE FILLED CLASS 52 D.I. PIPE OR 8" LONG 6" DIAMETER REINFORCED CONCRETE. PAINTED WITH TWO COATS OF HIGH GLOSS CATERPILLAR YELLOW (RUST-OLEUM) TYPE PAINT.
 - TOP OF GUARD POST SHALL BE LEVEL WITH TOP OF OPERATING NUT.

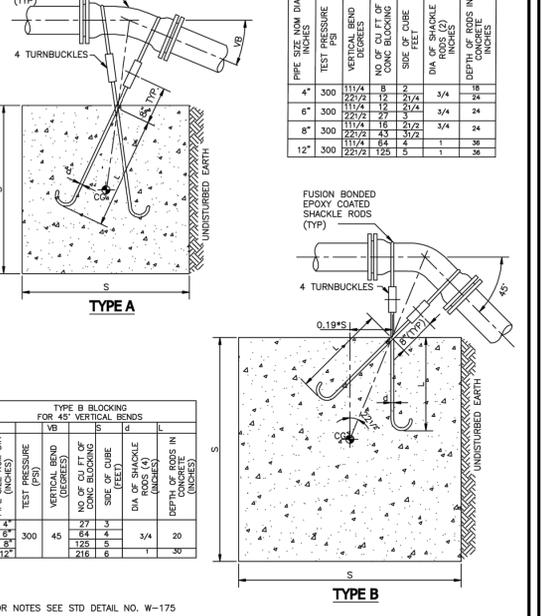
APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-030
REF STD SPEC		FIRE HYDRANT GUARD POST	



THRUST BLOCK AREA IN SQUARE FEET (SEE STD DETAIL NO. W-165)

SOIL	90° FITTING	45° BEND	11 1/4" TEE	90° TEE	45° BEND	11 1/4" TEE	90° TEE	45° BEND	11 1/4" TEE
CLAY	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SAND	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
GRAVEL	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

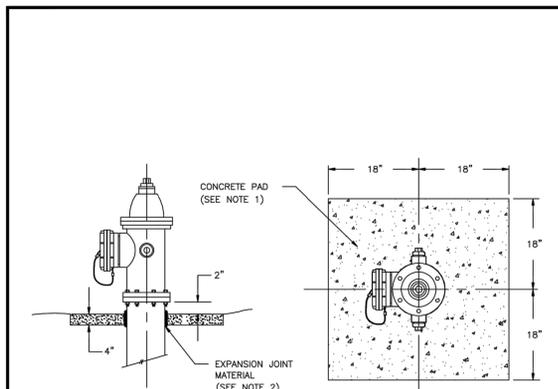
APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-160
REF STD SPEC		THRUST BLOCK	



TYPE A BLOCKING FOR 11 1/4" & 22 1/2" VERTICAL BENDS

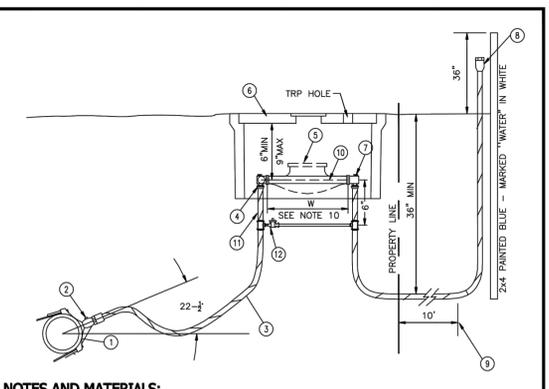
PIPE SIZE (INCHES)	TEST PRESSURE (PSI)	NO. OF CU. FT. OF CONC. BLOCKING	SIZE OF CUBE (INCHES)	NO. OF SHACKLE RODS (2")	DEPTH OF RODS IN CONCRETE (INCHES)
4"	300	11 1/4	8	2	3/4
6"	300	22 1/2	12	3	3/4
8"	300	22 1/2	12	3	3/4
12"	300	22 1/2	12	3	3/4

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-170
REF STD SPEC		VERTICAL THRUST BLOCK TYPE A & TYPE B	



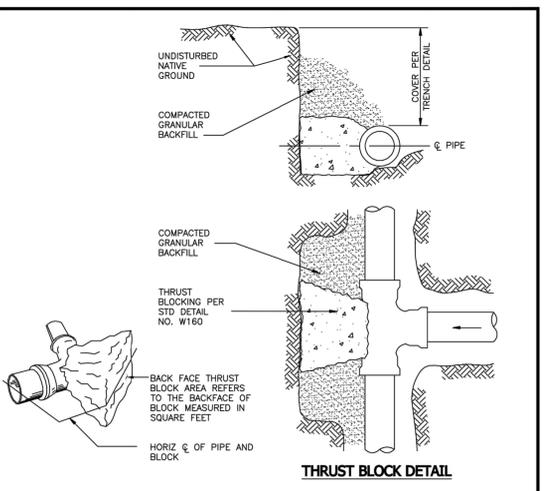
- NOTES:**
- CONCRETE SHALL BE CLASS 3000 PSI MIN.
 - INSTALL 1/4" EXPANSION JOINT MATERIAL WITH FULL DEPTH OF CONCRETE PAD AROUND HYDRANT.

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-020
REF STD SPEC		FIRE HYDRANT CONCRETE PAD	



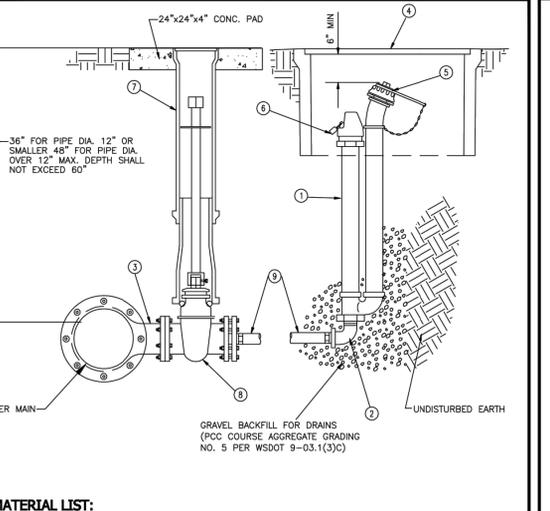
- NOTES AND MATERIALS:**
- 2" CC SERVICE SADDLE W/DOUBLE STAINLESS STEEL STRAP.
 - 2" BALL VALVE CORPORATE STOP COMPRESSION WITH KEY FACING UP, MUELLER OR FORD ONLY.
 - 2" HDPE CTS CLASS 200 HIGH SERVICE PIPE (200 PSI RATING) WITH STAINLESS STEEL STIFFENER AND 10 GAUGE COATED COPPER TRACER WIRE WRAPPED AROUND THE PIPE AND ATTACHED ON BOTH ENDS.
 - 2" COMPRESSION ANGLE METER BALL VALVE (LOCKABLE).
 - METER (SIZE AS SHOWN IN PLAN) SHALL BE INSTALLED BY CITY UTILITIES DIVISION AT OWNER'S EXPENSE. CITY WILL INSTALL ADAPTERS AT BOTH ENDS OF METER IF THE METER IS NOT 2".
 - METER BOX SHALL BE MIDSTATES PLASTICS (1730-18) W/SOLID ID LID WITH 1 3/4" HOLE FOR TOUCH READ PAD (TRP).
 - 2" ANGLE METER CHECK COUPLING (LOCKABLE).
 - COMPRESSION X FITT ADAPTER WITH PLASTIC PLUG.
 - EXTEND SERVICE PIPE 10' BEYOND PROPERTY LINE AND AN ADDITIONAL 5' BEYOND EASEMENT LINE.
 - METER LENGTH BLANK STUB FOR A 2" METER, W=17-1/4".
 - 2" METER SETTER, FORD OR MUELLER.
 - BYPASSES MUST BE HIGH BYPASS OR SIDE-BY-SIDE WITH THE METER.

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-050
REF STD SPEC		2" AND SMALLER NON-RESIDENTIAL WATER SERVICE	



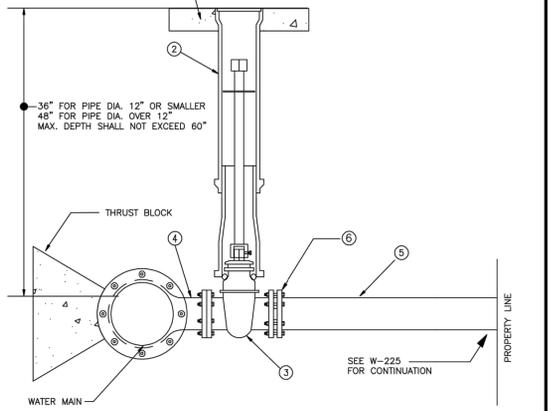
- NOTES:**
- LOCATION AND SIZE OF BLOCKING FOR PIPE LARGER THAN 12" DIAMETER AND FOR SOIL TYPES DIFFERENT THAN SHOWN SHALL BE DETERMINED BY THE CITY ENGINEER.
 - ALL BLOCKING FOR HORIZONTAL FITTINGS (POURED IN PLACE) SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND OR FILL MATERIAL COMPACTED TO 95% MAXIMUM DENSITY.
 - ALL POURED THRUST BLOCKS SHALL BE BACKFILLED AFTER MINIMUM 1 DAY. PRESSURE TESTING SHALL OCCUR AFTER CONCRETE HAS REACHED COMPRESSIVE STRENGTH (f'c).
 - ALL BLOCKING TO BE CONCRETE CL 3000-1 (3000 PSI).
 - BLOCKING AGAINST FITTINGS SHALL BEAR AGAINST THE GREATEST FITTING SURFACE AREA POSSIBLE, BUT SHALL NOT COVER OR ENCLOSE BELL ENDS, JOINT BOLTS OR GLANDS. ACCESS TO BOLTS AND GLANDS SHALL BE PROVIDED.
 - ALL HORIZONTAL BLOCKING THRUST AREAS SHALL BE CENTERED ON PIPE.
 - WHERE POURED-IN-PLACE BLOCKING IS REQUIRED AT A POINT OF CONNECTION TO AN EXISTING WATERMAIN, THE BLOCKING SHALL BE INSTALLED PRIOR TO CONNECTION WHENEVER POSSIBLE OR AS DIRECTED BY THE CITY ENGINEER.
 - TEMPORARY BLOCKING, IF USED, SHALL BE APPROVED BY THE CITY ENGINEER.

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-165
REF STD SPEC		THRUST BLOCK	



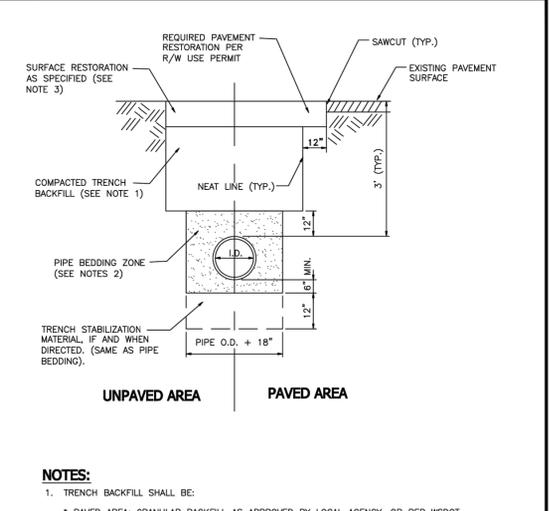
- MATERIAL LIST:**
- BLOWOFF HYDRANT KUPFERLE FOUNDRY #78 BRONZE TO BRONZE DESIGN SERVICEABLE FROM ABOVE WITH OUTLET EXPOSED, 2-1/2" NST OUTLET LOCKING CAP ON OPERATOR.
 - 2" BRASS 90° BEND
 - MAINLINE SIZE TEE WITH 6" FLANGE
 - MID-STATES PLASTICS METER BOX M5BCF 1730-18/W DI LID.
 - 2-1/2" CAP NATIONAL STANDARD THREAD.
 - LOCK TO BE SUPPLIED BY CITY OF ARLINGTON.
 - CAST IRON VALVE BOX AND EXTENSION PER STD DETAIL W-190
 - 6" GATE VALVE WITH RESILIENT SEAT (MUELLER, M&H OR APPROVED EQUAL) WITH A 6" FLANGE X 2" COMPANION FLANGE
 - 2" HDPE HI MOL CL 200 CTS POLY PIPE W/2" MIP COMPRESSION ADAPTERS

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-180
REF STD SPEC		2" BLOWOFF ASSEMBLY	



- MATERIAL LIST:**
- 24"x24"x4" CONCRETE PAD IN UNPAVED AREA
 - CAST IRON VALVE BOX AND EXTENSION PER STANDARD DETAIL NO. W-190
 - 6" GATE VALVE WITH RESILIENT SEAT (MUELLER, M&H OR APPROVED EQUAL)
 - MAINLINE SIZE TEE WITH FLANGE
 - 6" D.I.P.
 - MEGALOG

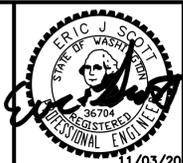
APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-220
REF STD SPEC		FIRE LINE CONNECTION	



- NOTES:**
- TRENCH BACKFILL SHALL BE:
 - UNPAVED AREA: GRANULAR BACKFILL AS APPROVED BY LOCAL AGENCY, OR PER WSDOT 9-03.0(3), OR CBF, OR 5/8" MINUS CRUSHED SURFACING, OR APPROVED NATIVE MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY.
 - PAVED AREA: SELECTED GRANULAR MATERIAL WITH MAXIMUM DIMENSION OF 6" PER WSDOT 9-03.15, COMPACTED TO 90% OF MAXIMUM DENSITY.
 - GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE SELECTED GRANULAR MATERIAL PER WSDOT 9-03.12(3), WASHED SAND, OR APPROVED SUITABLE EXCAVATED MATERIAL WITH MAXIMUM DIMENSION OF 1-1/2" COMPACTED TO 95% OF MAXIMUM DENSITY BY APPROVED HAND-HELD TOOLS.
 - EXCAVATE FOR THE PIPE BELL TO ENSURE UNIFORM SUPPORT FOR THE PIPE BARREL.
 - UNPAVED AREA SHALL BE RESTORED WITH 4" TOP SOIL, FERTILIZER AND SEED, OR AS SPECIFIED. PAVEMENT RESTORATION SHALL BE DONE PER RIGHT-OF-WAY USE PERMIT, OR AS SPECIFIED.

APPROVED BY	L. OLIVE	DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL NUMBER
DATE	07/21/2008	STANDARD DETAILS	W-270
REF STD SPEC		TYPICAL TRENCH DETAIL	

PLAN CHECK	BY	DATE	REVISIONS	REVIEWED BY
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BY: Nova Heaton, PE, Development Services Manager

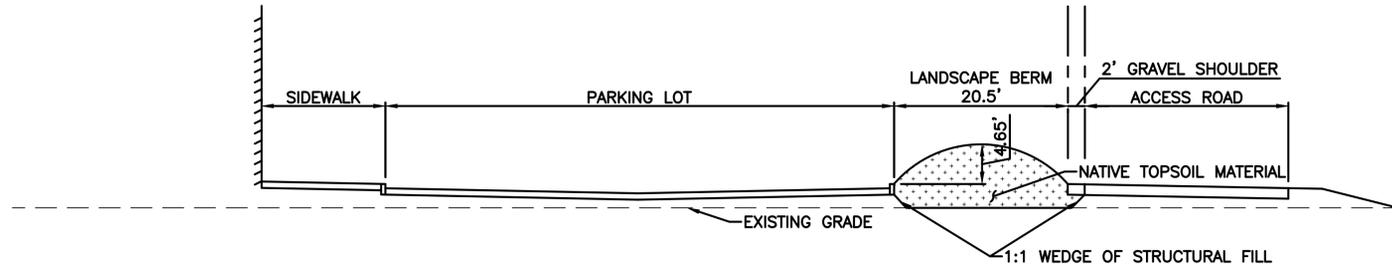
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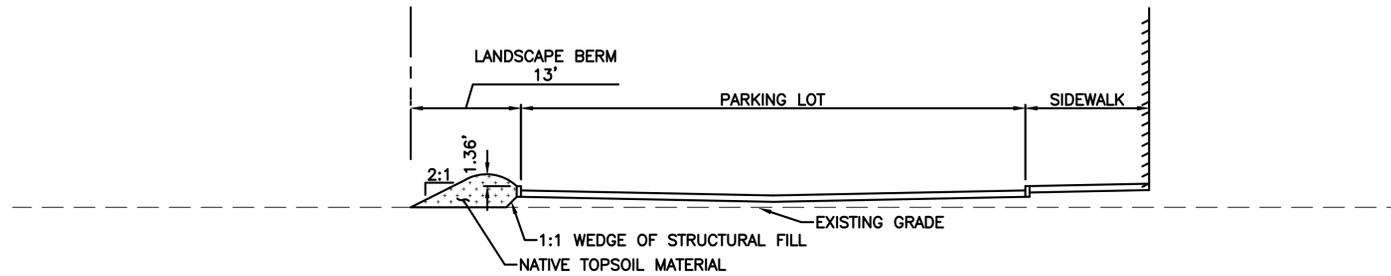
JOB NO. 190804

WATER STANDARD DETAILS

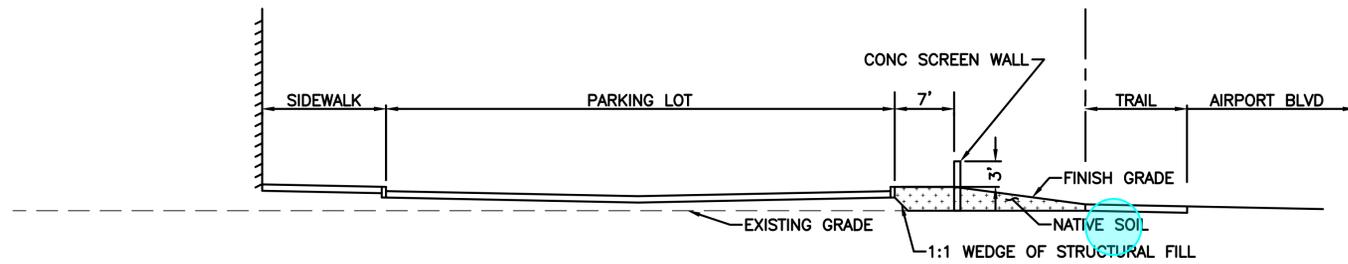
C3.8



1 SOUTH SECTION
C2.3 1"=10'



2 WEST & NORTH SECTION
C2.3 1"=10'



3 EAST SECTION
C2.3 1"=10'



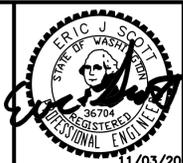
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BY: Nova Heaton, PE, Development Services Manager
DATE: _____ THIS APPROVAL VALID FOR 18 MONTHS

Plotted: Nov 04, 2020 - 10:45am Rodney T:\Projects\190804_SmartCAP_AAAP (Arlington)\Plans\SCA_P-CIVIL.dwg Layout Name: C3.9 Sections

PLAN CHECK	BY	DATE			
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		DATE	NO.	REVISION	BY
		DESIGNED BY:		REVIEWED BY:	



TerraVista NW LLC
Consulting Engineers
3204 SMOKEY POINT DR, #207
ARLINGTON, WA 98223
360-391-9272
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SMARTCAP AIRPORT BUSINESS PARK
AIRPORT BLVD, ARLINGTON, WA 98223

JOB NO.
190804

SECTIONS

C3.9

FUTURE 173RD ST NE

SEC 21 TWP 31 RGE 5E

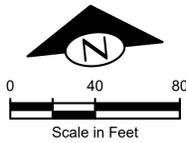
FUTURE PARKING LOT

FUTURE BLDG B

FUTURE PHASE

BLDG A FF=127.85

6' BLACK VINYL CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03



AMC 20.76.130 SHADING CALCULATIONS

PARKING AREA = 87,818 SF

TREE SHADING = 17,645 SF

17,645 SF / 87,818 SF = 20% SHADING



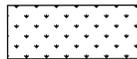
LIQUIDAMBAR STYRACIFLUA 'MORAINI' - MORAINI SWEETGUM 2" CALIPER (29)



VIBURNUM DAVIDII - DAVID'S VIBURNUM 2 GAL (123)



BUXUS SEMPERVIRENS 'VAREGATA' - VAREGATED ENGLISH BOXWOOD 2 GAL (202)



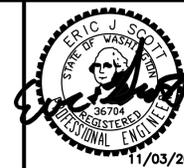
GRASS

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PLAN CHECK	BY	DATE	NO.	REVISION	BY
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		9/14/20	2	SUP SUBMITTAL	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
		7/21/20	A	DESIGN REVIEW PERMIT	EJS
				REVISION	
				DESIGNED BY:	REVIEWED BY:



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LANDSCAPE PLAN

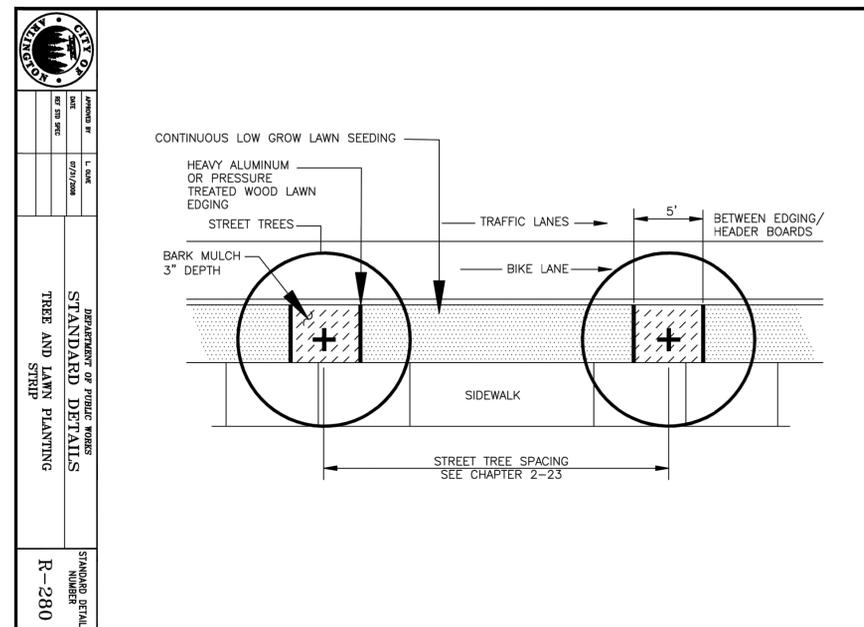
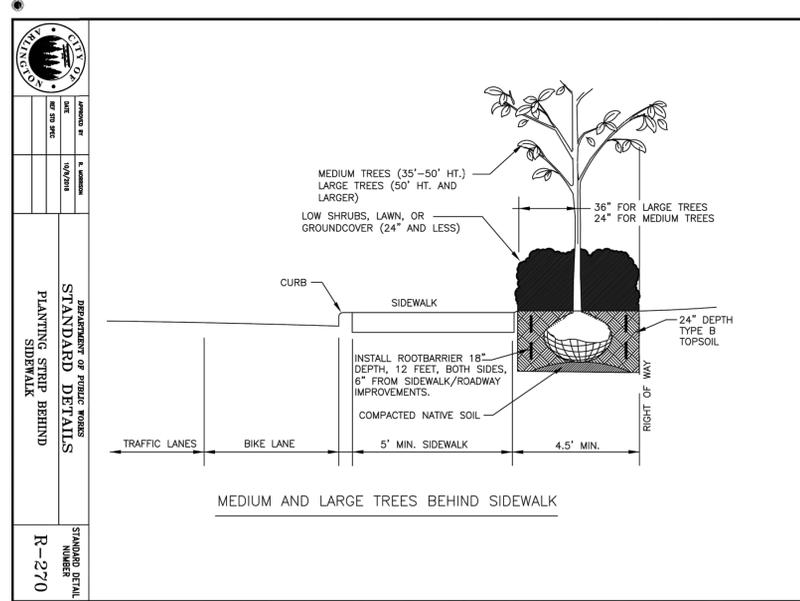
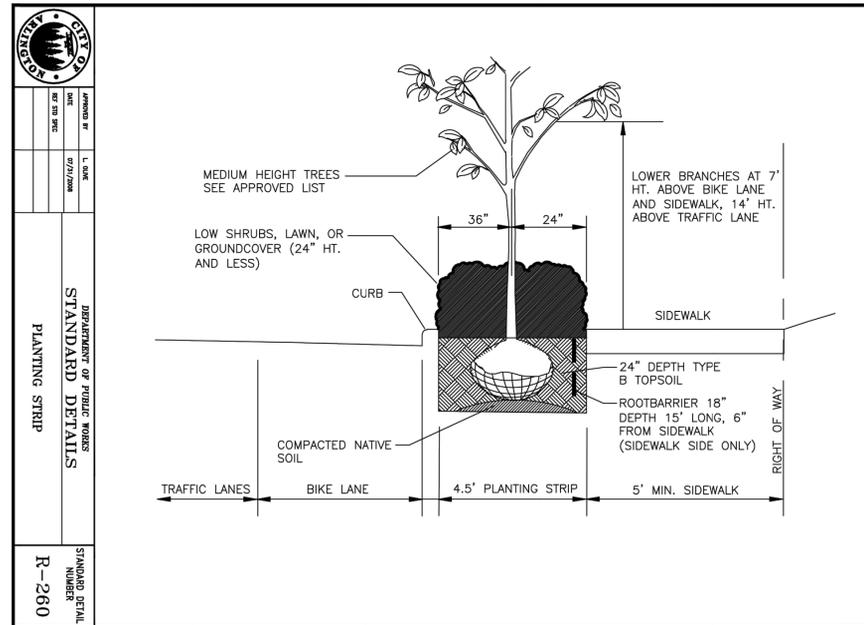
JOB NO. 190804

L1.1



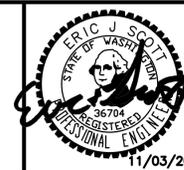
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PLAN CHECK	BY	DATE	NO.	REVISION	BY
		11/03/20	5	REVISIONS PER CITY COMMENTS	EJS
		10/09/20	4	REVISIONS PER CITY COMMENTS	EJS
		9/14/20	2	SUP SUBMITTAL	EJS
		7/31/20	1	PERMIT SUBMITTAL	EJS
		7/21/20	A	DESIGN REVIEW PERMIT	EJS
				REVISION	
				DESIGNED BY:	REVIEWED BY:



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LANDSCAPE DETAILS

JOB NO.
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L2.1

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