

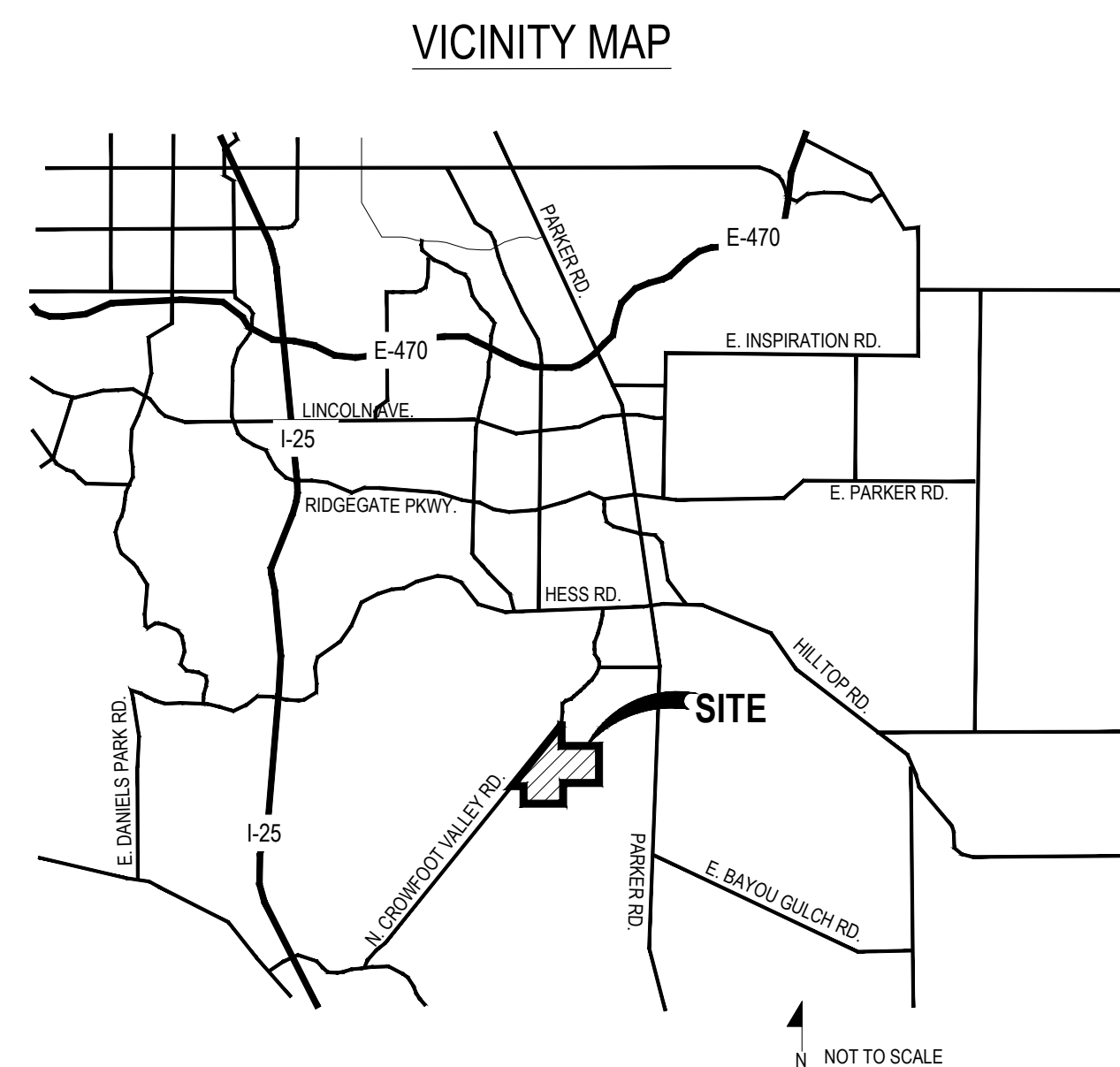
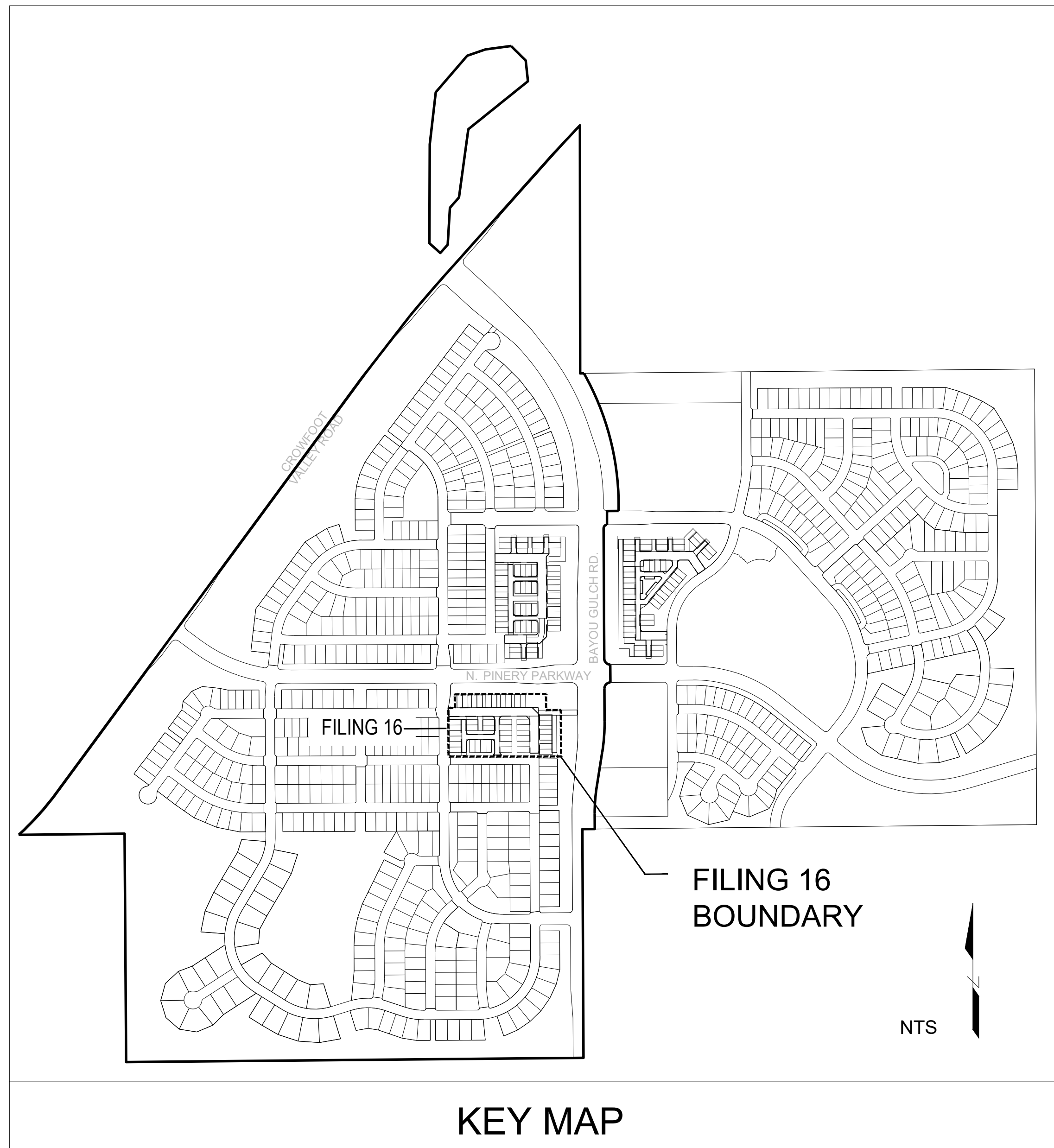
TRAILS AT CROWFOOT AMENDMENT NO.1

LANDSCAPE PLANS

FILING 16, MIXED USE

GENERAL NOTES

- DRAWINGS ARE INTENDED TO BE PRINTED ON 24 X 36 PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
- VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
- IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, PCS GROUP, INC. RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
- CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
- CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-COMFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES AND REGULATORY AGENCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
- UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
- ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE WORK AREA LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
- SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
- COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEAN OUT AREAS WITH OWNER'S REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCKPILES CONCRETE IN THE STORM SEWER IS PROHIBITED.
- THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
- CONTRACTOR SHALL MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
- THE CONTRACTOR AND OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
- THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.

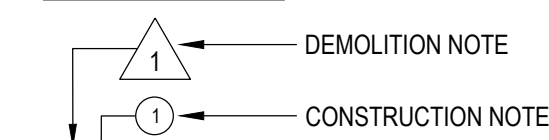


KEY MAP

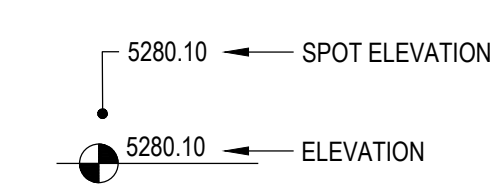
SYMBOLS & ABBREVIATIONS

AC = ACRE	EXP. = EXPANSION	O.C. = ON CENTER
APPROXIMATE = APPROX.	E.W. = EACH WAY	O.D. = OUTSIDE DIAMETER
B&B = BALL AND BURLAP	F.F. = FINISH FLOOR	P.O.B. = POINT OF BEGINNING
BOC = BACK OF CURB	F.G. = FINISH GRADE	P.O.C. = POINT OF CONNECTION
B.M. = BENCH MARK	FIN. = FINISH	P.V.C. = POLYVINYL CHLORIDE
BLDG. = BUILDING	F.H. = FIRE HYDRANT	PIPE
B.S. = BOTTOM OF STAIR	FL. = FLOW LINE	PL. = PROPERTY LINE
B.W. = BOTTOM OF WALL	FTG. = FOOTING	R. = RADIUS
CAL. = CALIPER	FT. = FEET	R.C.P. = REINFORCED CONCRETE PIPE
C.B. = CATCH BASIN	GA. = GAUGE	R.O.W. = RIGHT OF WAY
CL. CATCH BASIN CENTER LINE	GALV. = GALVANIZED	RECD. = REQUIRED
C.O. = CLEANOUT	H.W. = HEAD WALL	REINF. = REINFORCED
COL. = COLUMN	H.P. = HIGH POINT	SHT. = SHEET
CONC. = CONCRETE	HORIZ. = HORIZON	SPEC. = SPECIFICATIONS
CONT. = CONTINUOUS	I.D. = INNER DIAMETER	SQ. = SQUARE
CONTR. = CONTRACTOR	IN. = INCH	S.F. = SQUARE FEET
C.F. = CUBIC FEET	INV. = INVERT	S.V. = SQUARE YARD
C.Y. = CUBIC YARD	L.P. = LOW POINT	S.S. = STAINLESS STEEL
DET. = DETAIL	L.F. = LINEAR FEET	T.C. = TOP OF CURB
DIM. = DIMENSION	MAX. = MAXIMUM	T.S. = TOP OF STAIR
DIA. = DIAMETER	M.H. = MAN HOLE	T.W. = TOP OF WALL
DWG. = DRAWING	MIN. = MINIMUM	TYP. = TYPICAL
EA. = EACH	MISC. = MISCELLANEOUS	VERT. = VERTICAL
ELEV. = ELEVATION	N.I.C. = NOT IN CONTRACT	W/O = WITH OUT
EXIST. = EXISTING	N.T.S. = NOT TO SCALE	W.W.M. = WOVEN WIRE MESH
E.P. = EDGE OF PAVING		

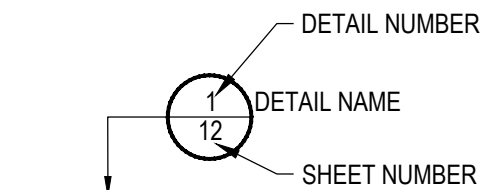
NOTE IDENTIFICATION



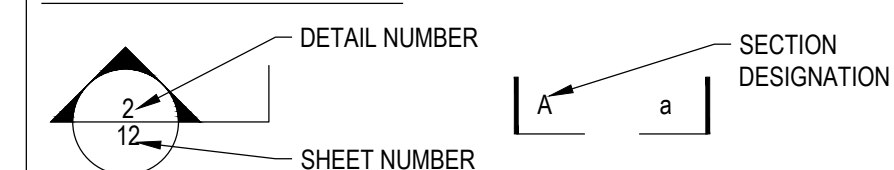
ELEVATION IDENTIFICATION



DETAIL IDENTIFICATION



DETAIL SECTION IDENTIFICATION



Sheet Number	Sheet Title
L0.0	LANDSCAPE COVER SHEET
L0.1	LANDSCAPE NOTES & PLANT SCHEDULE
L1.0	LANDSCAPE PLAN
L1.1	LAYOUT, GRADING & MATERIAL ENLARGEMENT
L2.0	LANDSCAPE DETAILS
L2.1	LANDSCAPE DETAILS
IR1.0	IRRIGATION LEGEND AND NOTES
IR1.1	IRRIGATION PLAN

OWNER / DEVELOPER

ESX MANAGEMENT
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CENTENNIAL, CO 80112

PLANNER / LANDSCAPE ARCHITECT

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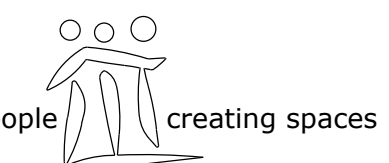
CIVIL ENGINEER

CVL CONSULTANTS
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ENGLEWOOD, CO 80112
720-482-9526

Prepared For

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Land Planning



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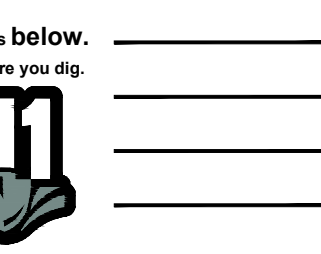
Engineering



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TRAILS AT CROWFOOT
FILING 16 LANDSCAPE PLANS
PARKER, COLORADO

Drawn by: BEM, GG, JWD
Checked by: PCS STAFF
Submitted: 06.20.2018
Date:



Sheet Name
LANDSCAPE COVER SHEET

Sheet Number

L0.0

LANDSCAPE NOTES

SITE PREP

- LANDSCAPE CONTRACTOR TO REFERENCE CIVIL ENGINEERING DRAWINGS REGARDING DRAINAGE AND EROSION CONTROL NOTES, DETAILS AND PROCEDURES.
- ALL WORK SHALL CONFORM TO LOCAL MUNICIPAL CODES. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THE LANDSCAPE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS. ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR USE OF MAINTENANCE EQUIPMENT ENTRY.
- SEE CIVIL ENGINEER'S DRAWINGS FOR GRADING AND DRAINAGE, EROSION CONTROL, PAVING AND SLEEVES, UTILITIES, AND OTHER ENGINEERED DETAILS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- A PRE-CONSTRUCTION MEETING MAY BE REQUIRED BETWEEN THE LANDSCAPE CONTRACTOR, PROPERTY OWNER AND LANDSCAPE ARCHITECT BEFORE START OF CONSTRUCTION.
- CONTRACTOR SHALL MINIMIZE ALL DISTURBANCE TO NON-IMPACTED AREAS.
- SITE MUST BE CLEAN AND FREE OF ALL CONSTRUCTION DEBRIS BEFORE FINAL ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE FOR SETUP OF BARRICADES, WARNING SIGNAGE, OR OTHER PROTECTIVE DEVICES IF ANY EXCAVATIONS ARE LEFT EXPOSED AFTER ON-SITE WORK HOURS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE ALL NECESSARY PERMITS FOR CONSTRUCTION WORK WITHIN THE LOCAL JURISDICTION. A SEPARATE LANDSCAPE CONSTRUCTION PERMIT IS REQUIRED AND USE AND SALES TAX WILL BE COLLECTED. WATER CONNECTION FEES ARE TO BE PAID PRIOR TO THE METER SETTING. A BACK FLOW PERMIT AND INSPECTION IS REQUIRED PRIOR TO THE METER BEING INSTALLED IN THE VAULT.
- TOPSOIL IS TO BE STRIPPED & STOCKPILED ON-SITE FOR LATER USE.
- CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING OR NEW SITE IMPROVEMENTS DISTURBED OR DAMAGED DUE TO THEIR OPERATIONS. DAMAGED MATERIALS SHALL BE REPLACED/REPAIRED TO ITS PRIOR CONDITION.
- LOCATE ALL UTILITIES PRIOR TO ANY DIGGING OR LANDSCAPE PLANTING. CONTRACTOR SHALL HAND DIG ALL PLANTING PITS ADJACENT TO UTILITIES. IF UTILITIES ARE DAMAGED, REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENEED & AMENDED.
- ALL LANDSCAPE AREAS SHALL RECEIVE SOIL AMENDMENT ROTOTILLED AT A MIN. 8" DEPTH AT A RATE OF 4 CUBIC YARDS PER 1,000 SF.
- CONTRACTOR SHALL SUBMIT SOIL AMENDMENT SPECIFICATIONS FOR APPROVAL PRIOR TO INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS WITH THE GEOTECH REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%, MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY LANDSCAPE ARCHITECT.

TURF, PLANT & GROUND COVER MATERIAL

- ANY SUBSTITUTION OR ALTERATION OF PLANT OR LANDSCAPE MATERIALS IN LOCATION, SPECIES, TYPE, ETC. SHALL BE ALLOWED ONLY WITH APPROVAL OF THE LANDSCAPE ARCHITECT. OVERALL PLANT QUANTITY AND QUALITY TO BE CONSISTENT WITH APPROVED PLANS. ANY CHANGES TO THE APPROVED LANDSCAPE PLAN WILL REQUIRE TOWN APPROVAL.
- ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH AAN SPECIFICATIONS FOR NUMBER ONE GRADE.
- PROPOSED TREE LOCATIONS SHALL HAVE A MINIMUM SEPARATION OF 4' BETWEEN WATER OR SEWER SERVICE LINES AND A MINIMUM SEPARATION OF 10' BETWEEN WATER OR SEWER MAIN LINES. PROPOSED TRESS LOCATIONS SHALL HAVE A MINIMUM SEPARATION OF 4' BETWEEN GAS LINES.
- ALL PROPOSED IRRIGATED TURF AREAS SHALL BE SODDED WITH THE BLEND SPECIFIED IN THESE PLANS. SOD SHALL BE LAID ON A FIRM BED WITH TIGHT JOINTS AND WITHOUT VOIDS.
- TREE WRAP TO BE APPLIED IN LATE FALL AFTER INSTALLATION, AND REMOVED THE FOLLOWING SPRING. REMOVE ANY STRING OR WIRE AROUND TREE TRUNKS AT TIME OF INSTALLATION.
- CONTRACTOR SHALL REPORT ANY DISCREPANCY FOUND IN THE FIELD VERSUS THE LANDSCAPE DRAWINGS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, OWNER'S REPRESENTATIVE, AND/OR THE CITY/COUNTY PRIOR TO ANY CONSTRUCTION OR DEMOLITION ACTIVITY. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN THE CONTRACTOR'S LIABILITY TO RELOCATE AND REPAIR.
- MAINTAIN A MINIMUM THREE FOOT CLEARANCE AROUND FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS OR OTHER FIRE SERVICE EQUIPMENT. NO TREES OR SHRUBS WILL BE ALLOWED WITHIN THIS AREA.
- TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, AREAS OR UTILITY EASEMENTS. CONTACT LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
- THE CENTER OF EVERGREEN TRESS SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TRESS CLOSER THAN 6' FROM A

FINE GRADING NOTES

- SLOPES NOT TO EXCEED 4:1 MAX. - 1% MIN.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
- STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- STRIP EXISTING SURFACES OF UNSUITABLE TOPSOIL, INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS.
- STOCKPILE TOPSOIL MATERIALS ON-SITE WITHOUT INTERMIXING WITH SUBSOIL.
- REMOVE EXISTING VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE BEFORE PLACING FILLS.
- FLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL. SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED CROSS-SECTIONS, ELEVATIONS AND GRADES WITH SATISFACTORY SOIL MATERIAL.
- UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE. FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.

SEEDING ESTABLISHMENT NOTES:

- SEED SHALL BE LABELED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE, RULES AND REGULATIONS AND FEDERAL SEED ACT. SEED SHALL BE EQUAL IN QUALITY TO THE STANDARDS FOR "CERTIFIED SEED" AND SHALL BE FURNISHED IN SEALED, UNOPENED, STANDARD CONTAINERS. SEED SHALL BE FRESH, CLEAN, PURE LIVE SEED WITH THE VARIETIES MIXED IN PROPORTIONS BY WEIGHT SHOWN AND MEETING THE MINIMUM PERCENTAGES OF PURITY AND GERMINATION SPECIFIED.
- SEED SHALL BE APPLIED AT A RATE SHOWN BY MIX. SEED SHALL PASS GOVERNMENT TEST OF GERMINATION OF EIGHTY PERCENT (80%) AND FOR PURITY OF NINETY PERCENT (90%). THE PURE LIVE SEED SHALL NOT BE LESS THAN SIXTY SEVEN ON ONE-HALF PERCENT (67.5%) FOR ANY ONE VARIETY, WITH THE AVERAGE OF THE MIXTURE, NO LESS THAN SEVENTY TWO PERCENT (72%). ALL SEED SHALL BE FREE OF POA ANNUA AND ALL NOXIOUS OBJECTIONABLE WEEDS WITH A MAXIMUM CROP OF ONE-TENTH PERCENT (0.1%) AND MAXIMUM WEED OF ONE TENTH PERCENT (0.1%). IF SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION PERCENTAGES SPECIFIED, THE CONTRACTOR MUST COMPENSATE BY FURNISHING SUFFICIENT ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT.
- SPREAD ORGANIC SOIL AMENDMENT MATERIALS, AT A RATE OF 3 C.Y. PER 1000 SQUARE FEET, EVENLY OVER ENTIRE DISTURBED AREA AND THOROUGHLY INCORPORATE, BY MIXING, ROTOTILLING OR FINELY DISKING (MAX. 1" SIZE), TO A DEPTH OF SIX INCHES. ALL STONES, STICKS AND DEBRIS BROUGHT TO THE SURFACE SHALL BE REMOVED FROM THE SITE PROPERLY DISPOSED OF BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER. ALL SEED AREAS WILL THEN BE RAKED AND ROLLED TO THE DESIRED FINISHED GRADES WITH GENTLY SLOPING SURFACES TO ADEQUATELY DRAIN ALL SURFACE WATER RUNOFF. THE FINISHED SURFACE SHALL BE EVEN AND UNIFORM AND NO DIRT CLODS LARGER THAN ONE INCH (1") IN DIAMETER SHALL APPEAR ON THE SURFACE. THE SOIL SURFACE SHALL BE SMOOTH, LOOSE AND OF FINE TEXTURE, AND BE FLUSH WITH ALL PAVING EDGES.
- CONTRACTOR SHALL USE APPROPRIATE MECHANICAL POWER (BRILLION SEEDER OR EQUAL) TO DRILL THE SEED INTO THE SEEDBED WHEREVER POSSIBLE. SEED SHALL BE SOWN TO A DEPTH OF ONE-HALF INCH (1/2"). DRILLING SHALL BE DONE IN 2 SEPARATE APPLICATIONS CROSSING THE AREA AT RIGHT ANGLES TO ONE ANOTHER TO GUARANTEE PROPER COVERAGE. ON SLOPING LAND, SEEDING OPERATIONS SHALL FOLLOW THE GENERAL CONTOUR. AREAS TOO SMALL TO DRILL SEED MAY BE BROADCAST BY HAND AND APPLICATION RATES SHALL BE DOUBLED. SEEDING OF ANY KIND WILL NOT BE PERMITTED WHEN WIND VELOCITY IS SUCH AS TO PREVENT UNIFORM SEED DISTRIBUTION. NO APPLICATION SHALL TAKE PLACE WITH THE PRESENCE OF FREE SURFACE WATER OR WHEN GROUND IS FROZEN OR CANNOT BE TILLED. ADDITIONAL TOPICAL COVER SEEDING MAY BE APPLIED TO PREVIOUSLY SEEDED AREAS IN ORDER TO ACHIEVE ADEQUATE GROUND COVER AND EROSION RESISTANCE.
- SEDED AREAS MAY REQUIRE TEMPORARY ABOVE GROUND SPRAY IRRIGATION UNTIL ESTABLISHMENT. IRRIGATION SHALL BE REMOVED UPON ACCEPTANCE BY THE CITY. WHERE STEEP SLOPES OCCUR, LANDSCAPE CONTRACTOR MAY REQUIRE VARIOUS METHODS OF TEMPORARY

- SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROOT HEADS. NOTIFY LANDSCAPE ARCHITECT IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
- ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY LANDSCAPE ARCHITECT.
- NO PLANT MATERIAL SHALL BE PLANTED WITHIN 10' OF ANY EXISTING OR PROPOSED ELECTRICAL SWITCHGEARS, TRANSFORMERS OR OTHER ELECTRICAL UTILITY EQUIPMENT. PLANT MATERIAL MAY BE FIELD ADJUSTED TO PROVIDE THE 10' CLEAR SPACE AND ACCESSIBILITY REQUIRED BY THE UTILITY'S OWNER/OPERATOR.
- ANY TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY LANDSCAPE ARCHITECT PRIOR TO DOING WORK.
- PROPOSED PLANT SPECIES MAY BE SUBJECT TO CHANGE PENDING COMMERCIAL AVAILABILITY AT TIME OF CONSTRUCTION. ALL SPECIES SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. OVERALL PLANT QUANTITIES & SIZES SHALL REMAIN AS INDICATED ON THE PLANT SCHEDULE. CONTRACTOR SHALL VERIFY THAT ANY SUBSTITUTED PLANT SPECIES ARE ACCEPTABLE TO THE LOCAL MUNICIPALITY OR GOVERNING JURISDICTIONS.
- IF SPECIFIED PLANTS ARE NOT COMMERCIALLY AVAILABLE AT TIME OF CONSTRUCTION/INSTALLATION, CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT FOR A SUBSTITUTION.

PLANTING BEDS

- ALL PROPOSED PLANTING BEDS SHALL CONTAIN THE SPECIFIED MULCH. ROCK MULCH BEDS SHALL INCLUDE MIRAFI WEED BARRIER FABRIC OR EQUAL SECURED WITH PINS. OVERLAP FABRIC MIN. 24" AT EDGES. NO FABRIC IS REQUIRED IN WOOD MULCH AREAS.
- ROCK MULCH AROUND VEGETATION SHALL CONTAIN 1 1/2" 2" DIA. ROUND RIVER COBBLE, TAN COLOR, 4" DEPTH.
- WOOD MULCH SHALL BE 'GORILLA HAIR' OR EQUAL SHREDDED CEDAR MULCH, 4" DEPTH.
- EDGING BETWEEN TURF AND PLANTING BEDS SHALL BE 12-GAUGE, GREEN COLOR, ROLLED-TOP, STEEL EDGING OR EQUIVALENT. ANY NO EDGING IS REQUIRED AGAINST HARDSCAPE/WALK AREAS OR AT TREE RING EDGES. EDGING SHALL BE INSTALLED TO AVOID IMPEDING DRAINAGE. RE: DETAILS FOR INSTALLATION IN LOW DRAINAGE AREAS.
- FOR TREES NOT IN PLANTING BEDS, ALLOW A 6"-8" DIAMETER BED (TREE RING) WITHOUT SOD AROUND ROOT COLLAR. APPLY SPECIFIED WOOD MULCH & DEPTH AROUND COLLAR FOLLOWING SOD INSTALLATION. NO FABRIC OR STEEL EDGER IS NECESSARY WITHIN TREE RINGS IN NATIVE AREAS. TREES IN PLANTING BEDS SHALL NOT HAVE WEED BARRIER INSTALLED WITHIN 6" OF THEIR TRUNKS.

HARDSCAPE

- REFER TO SITE PLANS & DETAILS FOR SPECIALTY CONCRETE LOCATIONS WHERE APPLICABLE.

IRRIGATION

- 1)PERMANENT UNDERGROUND IRRIGATION IS REQUIRED IN ALL LANDSCAPE AREAS. 2) TURF AREAS ARE ZONED SEPARATELY FROM BED AREAS, 3) CONTROLLER TO INCLUDE RAIN SHUT-OFF. 4) HYDROZONES WILL BE ON SEPARATE IRRIGATION ZONES ACCORDING TO WATER-DEMAND.
- REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM STANDARDS FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATIONS DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECH REPORT.
- TURF & IRRIGATED NATIVE AREAS (WHERE APPLICABLE) SHALL BE IRRIGATED BY AUTOMATIC POP-UP SPRAY SYSTEM. SHRUBS & PLANTING BEDS SHALL BE IRRIGATED WITH DRIP/BUBBLER SYSTEM.
- ALL TREES & SHRUBS OUTSIDE OF BEDS WITHIN NATIVE AREAS SHALL BE DRIP IRRIGATED. ALL IRRIGATION SHALL BE AN AUTOMATIC UNDERGROUND SYSTEM
- REFER TO IRRIGATION PLANS FOR DETAILED INFORMATION.

MAINTENANCE

- CONTRACTOR IS TO MAINTAIN ALL PLANTINGS AND ASSOCIATED IRRIGATION SYSTEM INSTALLED UNDER THIS CONTRACT UNTIL FINAL ACCEPTANCE BY THE CITY AND TURNOVER TO OWNER. THIS MAINTENANCE SHALL INCLUDE: PROPER WATERING OF ALL PLANTS, AND MOWING OF TURF/SEED AREAS IF NECESSARY.
- SITE MUST BE CLEAN AND FREE OF ALL CONSTRUCTION DEBRIS BEFORE FINAL ACCEPTANCE.
- ALL PLANT MATERIAL WILL BE COVERED BY A WARRANTY PERIOD. THE CONTRACTOR SHALL REPLACE DEAD, UNHEALTHY, OR OTHERWISE UNSATISFACTORY MATERIAL THROUGHOUT THIS PERIOD. THE WARRANTY SHALL BEGIN UPON FINAL ACCEPTANCE OF THE JOB.
- LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN A LIVING CONDITION BY THE OWNER OR ASSIGNS OR OWNERS ASSOCIATION. TREES AND SHRUBS MUST HAVE A 100% ONGOING SURVIVAL RATE. ANY DEAD OR DAMAGED PLANT MATERIAL (AS DETERMINED BY THE LOCAL MUNICIPALITY) SHALL BE REPLACED. NON-LIVING GROUND COVERS, SUCH AS ROCK OR MULCH, MUST BE 100% INTACT AFTER ONE YEAR AND 100% INTACT THEREAFTER.
- LANDSCAPE AREAS WITHIN THE PROPERTY AND WITHIN THE ADJACENT RIGHT OF WAY SHALL BE MAINTAINED BY THE PROPERTY OWNER.

- PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
- CUT OUT SOFT SPOTS. FILL LOW SPOTS AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM ADJACENT STRUCTURES AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
 - AT LOCATIONS DESIGNATED FOR LAWN OR UNPAVED AREAS: PLUS OR MINUS 1 INCH (25 MM).
 - AT DESIGNATED PAVEMENT LOCATIONS: PLUS OR MINUS 1/2 INCH (13 MM).
- GRADING ON SLOPES: INSTALL EROSION STABILIZATION FABRIC PER MANUFACTURERS RECOMMENDATIONS ON SLOPED SURFACES EQUAL TO OR GREATER THAN A RATIO OF 1) VERTICAL FOOT TO 3) HORIZONTAL FEET.
- CONTRACTOR WILL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.
- PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.
- REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COHESION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.
- WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACE GRADING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACE GRADING.
- TRANSPORT SURPLUS SATISFACTORY SOIL TO DESIGNATED STORAGE AREAS ON OWNER'S PROPERTY. STOCKPILE OR SPREAD SOIL AS DIRECTED BY OWNER.

IRRIGATION TO ACHIEVE SEED ESTABLISHMENT. SUCH METHODS SHALL BE IN COMPLIANCE WITH THE PROJECT'S EROSION CONTROL METHODS, BMP'S AND ALL CITY CODES AND REQUIREMENTS.

- MULCH WILL BE HYDRO MULCH. HYDRO MULCH SHALL BE CONWED 200 AND TACKIFIER OR APPROVED SUBSTITUTE MEETING THE FOLLOWING REQUIREMENTS:
 - VIRGIN WOOD CELLULOSE FIBER: MAY NOT CONTAIN ANY SUBSTANCE OR FIBER THAT MAY INHIBIT GERMINATION OF GROWTH OF GRASS SEEDS AND PLANTS.
 - DYE TO APPROPRIATE COLOR TO ALLOW PROPER METERING OF APPLICATION.
 - FIBERS MUST HAVE ABILITY TO BECOME EVENLY DISPERSED AND SUSPENDED WHEN AGITATED IN WATER.
 - WHEN SPRAYED UNIFORMLY ON SURFACE OF SOIL, FIBERS SHALL FORM BLOTTER - LIKE GROUND COVER THAT READILY ABSORBS WATER, AND ALLOWS INFILTRATION TO UNDERLYING SOIL.
 - WEIGHT SPECIFICATIONS SHALL REFER ONLY TO AIR DRY WEIGHT OF FIBERS WITH A STANDARD MOISTURE CONTENT OF TEN PERCENT (10%).
 - MULCH MATERIAL SHALL BE SUPPLIED IN CONTAINERS NOT WEIGHING OVER ONE HUNDRED (100) LBS AND SHOWING AIR DRY WEIGHT OF FIBERS.
 - ORGANIC TACKIFIER MAY BE SUPPLIED WITH HYDROMULCH FIBERS OR BE ADDED AT A LATER TIME.

WEED MANAGEMENT

BEFORE SEEDING, REMOVE EXISTING WEEDS BY PULLING, TILLING UNDER AND/OR, APPLYING A GLYPHOSATE HERBICIDE SUCH AS ROUNDUP®, OR BY A COMBINATION OF THESE METHODS. FOR ADDITIONAL WEED CONTROL AFTER SITE PREPARATION, A SOIL FUMIGANT MAY BE USED, OR THE AREA MAY BE IRRIGATED TO ENCOURAGE WEED GROWTH AND THEN SPRAYED WITH A GENERAL HERBICIDE. IN VERY WEEDY AREAS, THE FOLLOWING METHOD IS SUGGESTED: (1) TILL SOIL OR SPRAY VEGETATION WITH ROUNDUP®, WHEN USING AN HERBICIDE, ALLOW VEGETATION TO DIE, THEN RAKE OUT THE DEAD DEBRIS. IF PERENNIAL WEEDS SUCH AS BINDWEED ARE PRESENT, USING AN HERBICIDE IS MORE EFFECTIVE THAN TILLING. (2) IRRIGATE TO ENCOURAGE GERMINATION OF WEED SEEDS NEAR THE SURFACE. MOST SEEDS WILL GERMINATE WITHIN TWO WEEKS IF CONSISTENT MOISTURE IS AVAILABLE. DO NOT TILL THE SOIL AGAIN BECAUSE THIS WILL BRING EVEN MORE WEED SEEDS UP TO THE SURFACE. (3) SPRAY ANY NEW GROWTH WITH ROUNDUP®, (4) AFTER RAKING OUT DEAD VEGETATION, ALLOW SOIL TO RECOVER FOR 4 WEEKS BEFORE PLANTING SEE. A RECOVERY PERIOD OF THIS DURATION IS ADVISABLE BECAUSE EXTENSIVE USE OF GLYPHOSATE HERBICIDES MAY CAUSE A DELAY IN GERMINATION AND IN THE VIGOROUS GROWTH OF SEEDLINGS. ONCE THE SEEDS HAVE GERMINATED, FURTHER WEED CONTROL IS USUALLY NECESSARY. IF PRACTICAL, PULL ALL WEEDS AS SOON AS THEY CAN BE IDENTIFIED. OTHER SUCCESSFUL TECHNIQUES ARE SPOT-SPRAYING WITH A GENERAL HERBICIDE OR SELECTIVELY CUTTING WEEDS WITH A STRING TRIMMER. BE SURE TO REMOVE WEEDS BEFORE THEY RESEED. ONCE ESTABLISHED, NATIVE AREAS MAY BE MOWED TWICE A SEASON OR AS REQUIRED TO MINIMIZE WEED GROWTH. FURTHER MOWING ADJACENT TO ROADWAYS AND PARK AREAS MAY BE REQUIRED AS SEASONAL DROUGHT AND FIRE CONDITIONS MAY DICTATE.

PLANT SCHEDULE

DECIDUOUS TREES	QTY
AE	1
HAC	11
GI	8
GK	3
OB	18
OR	1
RAL	3
TG2	5
TG	7

EVERGREEN TREES	QTY
PSP	8
PN	11
PPI	6

ORNAMENTAL TREES	QTY
AH	20
WKH	16
SC	10

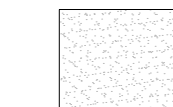
ANNUALS/PERENNIALS	QTY
EP	19
BES	61
SP	16

DECIDUOUS SHRUBS	QTY
SSB	3
AG	4
CD	33
CI	30
CB	1
PS2	9
RHU	2

EVERGREEN SHRUBS	QTY
CSM	21
EC	6
PS	10

ORNAMENTAL GRASSES	QTY
CK	115
BOG	14
MG	26
MY	3

GROUND COVERS	QTY
	45,027 SF
	1,847 SF
	420 SF
	28,145 SF



ENVIROTURF
RE: LANDSCAPE NOTES/STREETSCAPE ONLY



ROCK MULCH GREY, 2" DIA. COBBLE
3" DEPTH, RE: LDSCP NOTES



ROCK MULCH TAN, 2" DIA. COBBLE
3" DEPTH, RE: LDSCP NOTES



SEED MIX 1
TOWN OF PARKER - SEED MIX 1,
RE: LANDSCAPE NOTES

BOTANICAL NAME
ACER PLATANOIDES 'EMERALD QUEEN'
CELTIS OCCIDENTALIS
GLEDITSIA TRIACANTHOS 'IMPERIAL'
GYMNOCLADUS DIOICA
QUERCUS BICOLOR
QUERCUS RUBRA
TILIA AMERICANA 'REDMOND'
TILIA CORDATA 'GLENLEVEN'
TILIA CORDATA 'GREENSPIRE'

BOTANICAL NAME
ACER TATARICUM 'HOT WINGS'
CATAEGUS VIRIDIS 'WINTER KING'
MALUS X 'SPRING SNOW'

BOTANICAL NAME
ECHINACEA PURPUREA
RUDBECKIA FULGIDA SULLIVANTI 'GOLDSTURM'
SCABIOSA CAUCASICA 'PERFECTA BLUE'

BOTANICAL NAME
AMELANCHIER ALNIFOLIA 'REGENT'
AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'
CARYOPTERIS X CLANDONENSIS 'DARK KNIGHT'
CRATGEARPUUS TRICRATIUS
CORNUS SERICEA 'BAILEY'
PENSTEMON STRICTUS
RHUS AROMATICA 'GRO-LOW'

BOTANICAL NAME
CYTISUS SCOPARIUS 'MOONLIGHT'
ONYNOMUS FORTUNEI 'COLORATA'
PINUS MUGO 'SLOWMOUND'

BOTANICAL NAME
CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'
HELICTOTRICHON SEMPERVIRENS
MISCANTHUS SINENSIS 'GRACILLIMUS'
MISCANTHUS SINENSIS 'YAKU JIMA'

COMMON NAME	CONT	CAL / SIZE
EMERALD QUEEN MAPLE	B & B	2.5" CAL
COMMON HACKBERRY	B & B	2.5" CAL
IMPERIAL HONEYLOCUST	B & B	2.5" CAL
KENTUCKY COFFEE TREE	B & B	2.5" CAL
SWAMP WHITE OAK	B & B	2.5" CAL
RED OAK	B & B	2.5" CAL
REDMOND AMERICAN LINDEN	B & B	2.5" CAL
GLENLEVEN LITTLELEAF LINDEN	B & B	2.5" CAL
GREENSPIRE LITTLELEAF LINDEN	B & B	2.5" CAL

COMMON NAME	CONT	CAL / SIZE
LIMBER PINE	B & B	6'-8" HT
AUSTRIAN BLACK PINE	B & B	6'-8" HT
PONDEROSA PINE	B & B	6'-8" HT

COMMON NAME	CONT	CAL / SIZE
HOT WINGS TATARIAN MAPLE	B & B	2" CAL
'WINTER KING' HAWTHORN	B & B	2" CAL
SPRING SNOW CRAB APPLE	B & B	2" CAL

COMMON NAME	CONT	HT X SPD
PURPLE CONEFLOWER	1 GAL	2' X 2"
BLACK-EYED SUSAN	1 GAL	1.5' X 1.5'
PINCUSHION FLOWER	1 GAL	2.5' X 1.5'

COMMON NAME	CONT	HT X SPD
SASKATOON SERVICEBERRY	5 GAL	12' X 8'
'AUTUMN BRILLIANCE' SERVICEBERRY	5 GAL	15' X 10'
BLUE MIST SHRUB	5 GAL	2'-3'
LITTLE LEAF MOUNTAIN MAHOGANY	5 GAL	5' X 5'
RED TWIG DOGWOOD	5 GAL	8' X 8'
ROCKY MOUNTAIN PENSTEMON	5 GAL	2' X 3'
GRO-LOW FRAGRANT SUMAC	5 GAL	3' X 6'

COMMON NAME	CONT	HT X SPD
MOONLIGHT BROOM	5 GAL	3' X 5'
PURPLE-LEAF WINTER CREEPER	5 GAL	2' X 5'
MUGO PINE	5 GAL	2.5' X 5'

COMMON NAME	CONT	HT X SPD
FEATHER REED GRASS	1 GAL	4.5' X 2"
BLUE OAT GRASS	1 GAL	2' X 2"
MAIDEN GRASS	1 GAL	4' X 5'
YAKU JIMA DWARF MAIDEN GRASS	1 GAL	3' X 3'

BOTANICAL NAME	CONT
ENVIROTURF	SOD
ROCK MULCH GREY, 2" DIA. COBBLE	MULCH
ROCK MULCH TAN, 2" DIA. COBBLE	MULCH
SEED MIX 1	SEED

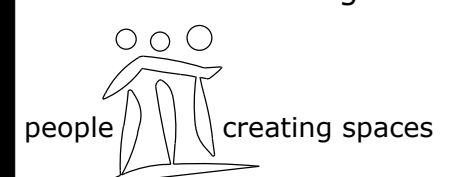
NOTES:

- DISTURBED AREAS TO BE RE-VEGETATED PER THE GRADING AND EROSION CONTROL PLANS.
- PER TREE CONSERVATION PLAN, ALL MITIGATED SHRUBS FROM REMOVAL OF EXISTING SHRUB MASSES SHALL BE PLANTED WITHIN THE PROPOSED LANDSCAPE.
- LANDSCAPE PLACEMENT IN THE TREE LAWN ADJACENT TO LOTS IS NOT FINAL AND MAY CHANGE BASED UPON DRIVEWAY AND UTILITY LOCATIONS.
- NO FENCES OR STRUCTURES WILL BE ALLOWED WITHIN SIGHT TRIANGLES.
- SHRUBS AND PLANTINGS WILL BE NO TALLER THAN 2' FEET WITHIN THE SIGHT TRIANGLE.
- TEMPORARY IRRIGATION FOR ESTABLISHMENT OF NATIVE VEGETATION MUST BE INSTALLED ABOVE GROUND, AND REMOVED IMMEDIATELY AFTER ESTABLISHMENT IS COMPLETE.

Prepared For

ESX MANAGEMENT
7353 SOUTH ALTON WAY
CENTENNIAL, CO 80112

Land Planning



pcs group inc. www.pcsgroupco.com
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Engineering



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ENGLEWOOD, CO 80112
720-482-9526

TRAILS AT CROWFOOT
FILING 16 LANDSCAPE PLANS
PARKER, COLORADO

Drawn by: BEM_GG_JWD

Checked by: PCS STAFF

Submitted: 06.20.2018

Date: _____

Know what's below.

FILING 16 PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME
AE	1	ACER PLATANOIDES 'EMERALD QUEEN'	EMERALD QUEEN MAPLE
HAC	11	CELTIS OCCIDENTALIS	COMMON HACKBERRY
GI	8	GLEDITSIA TRIACANTHOS 'IMPERIAL'	IMPERIAL HONEYLOCUST
GK	3	GYMNOCLADUS DIOICA	KENTUCKY COFFEE TREE
QB	18	QUERCUS BICOLOR	SWAMP WHITE OAK
QR	1	QUERCUS RUBRA	RED OAK
RAL	3	TILIA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN
TG2	5	TILIA CORDATA 'GLENLEVEN'	GLENLEVEN LITTLELEAF LINDEN
TG	7	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME
PSP	8	PINUS FLEXILIS	LIMBER PINE
PN	6	PINUS NIGRA	AUSTRIAN BLACK PINE
PPI	11	PINUS PONDEROSA	PONDEROSA PINE

ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME
AH	20	ACER TATARICUM 'HOT WINGS'	HOT WINGS TATARIAN MAPLE
WKH	16	CRATAEGUS VIRIDIS 'WINTER KING'	'WINTER KING' HAWTHORN
SC	10	MALUS X 'SPRING SNOW'	SPRING SNOW CRAB APPLE

ANNUALS/PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME
EP	19	ECHINACEA PURPUREA	PURPLE CONEFLOWER
BES	61	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM'	BLACK-EYED SUSAN
SP	16	SCABIOSA CAUCASICA 'PERFECTA BLUE'	PINKUSHION FLOWER

DECIDUOUS SHRUBS	QTY	BOTANICAL NAME	COMMON NAME
SSB	3	AMELANCHIER ALNIFOLIA 'REGENT'	SASKATOON SERVICEBERRY

AG	QTY	BOTANICAL NAME	COMMON NAME
AG	4	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	'AUTUMN BRILLIANCE' SERVICEBERRY
CD	33	CARYOPTERIS X CLANDONENSIS 'DARK KNIGHT'	BLUE MIST SHRUB
CI	30	CERCOCARPUS INTRICATUS	LITTLE LEAF MOUNTAIN MAHOGANY
CB	1	CORNUS SERICEA 'BAILEY'	RED TWIG DOGWOOD
PS2	9	ROCKY MOUNTAIN PENSTEMON	ROCKY MOUNTAIN PENSTEMON
RHU	2	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC

EVERGREEN SHRUBS	QTY	BOTANICAL NAME	COMMON NAME
CSM	21	CYTISUS SCOPARIUS 'MOONLIGHT'	MOONLIGHT BROOM
EC	6	EUONYMUS FORTUNEI 'COLORATA'	PURPLE-LEAF WINTER CREEPER
PS	10	PINUS MUGO 'SLOWMOUND'	MUGO PINE

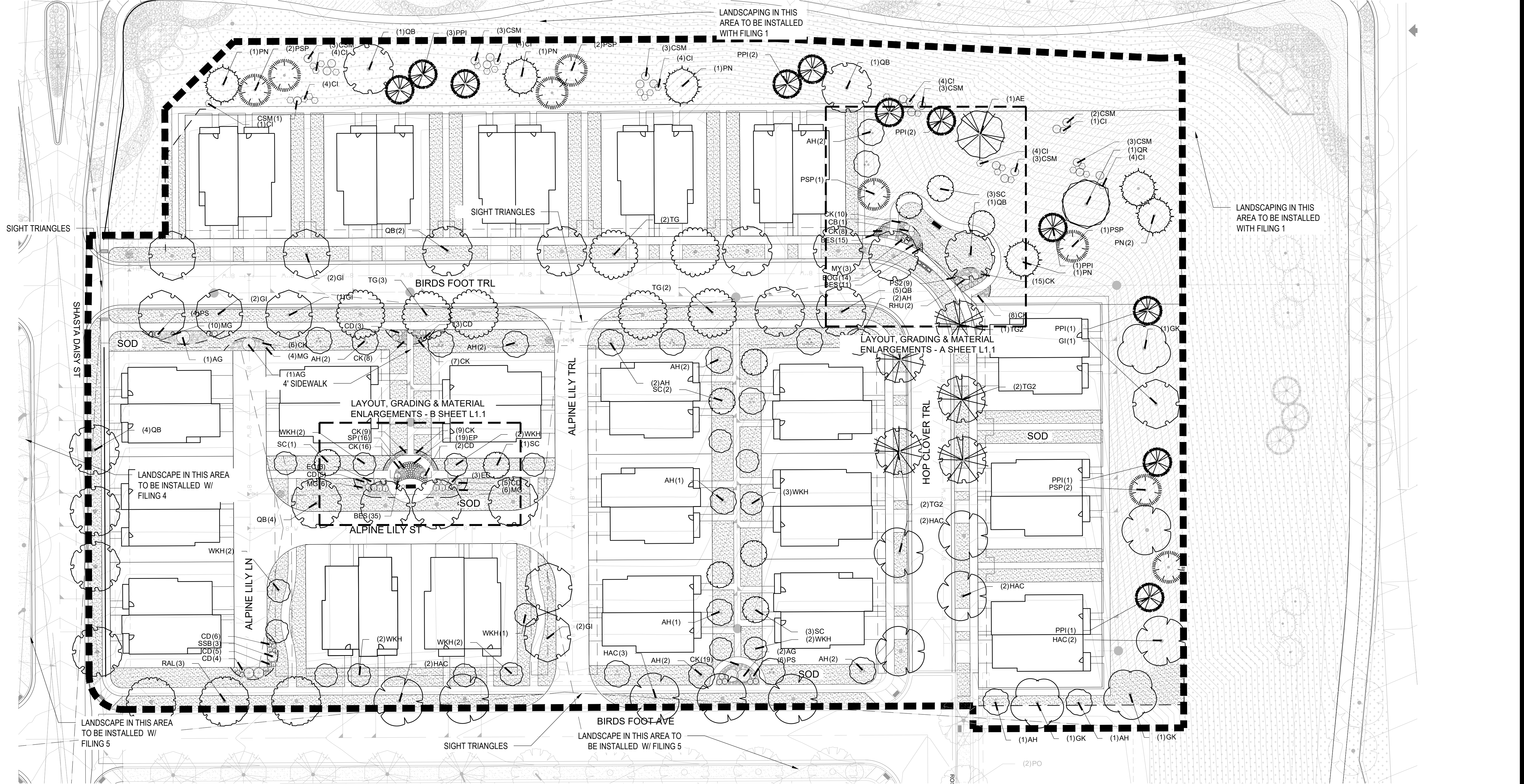
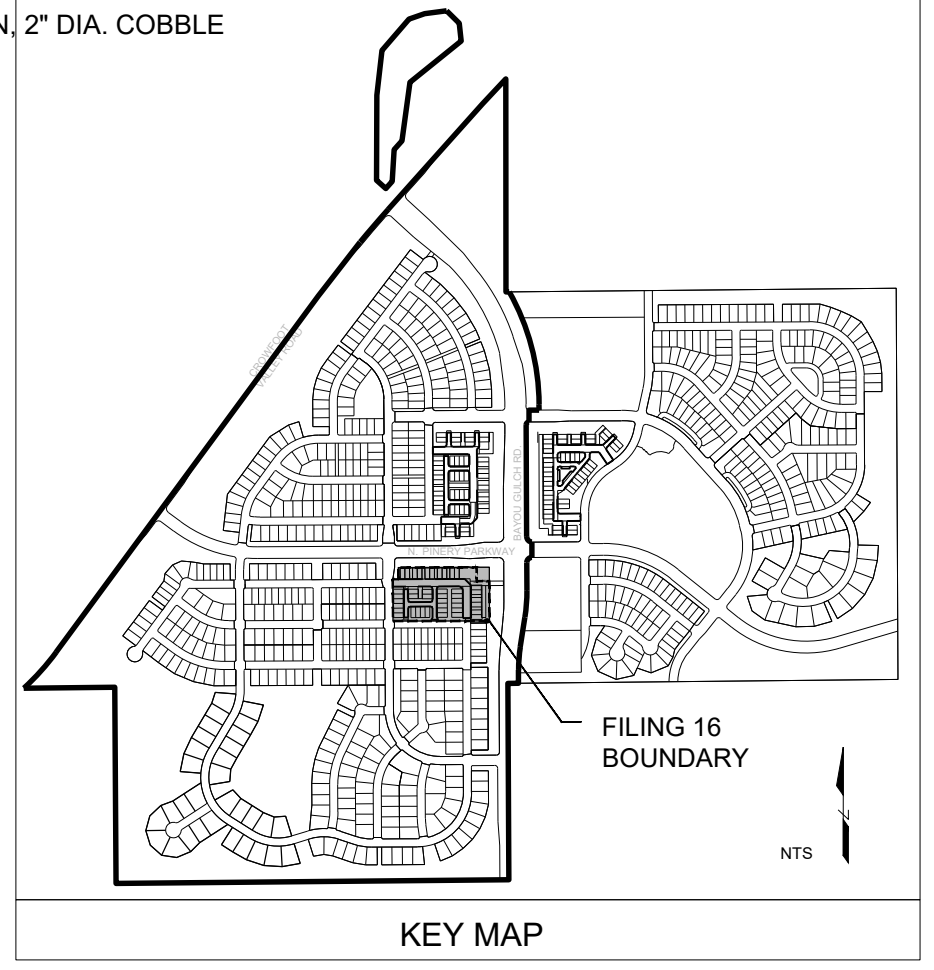
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME
CK	115	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS
BOG	14	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS
MG	26	MISCANTHUS SINENSIS 'GRACILLIMUS'	MAIDEN GRASS
MY	3	MISCANTHUS SINENSIS 'YAKU JIMA'	YAKU JIMA DWARF MAIDEN GRASS

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME
	45,027 SF	ENVIROTURF	ENVIROTURF
	1,847 SF	ROCK MULCH GREY, 2" DIA. COBBLE	ROCK MULCH GREY, 2" DIA. COBBLE
		3" DEPTH, RE: LDSCP NOTES	

420 SF	ROCK MULCH TAN, 2" DIA. COBBLE	ROCK MULCH TAN, 2" DIA. COBBLE
	3" DEPTH, RE: LDSCP NOTES	

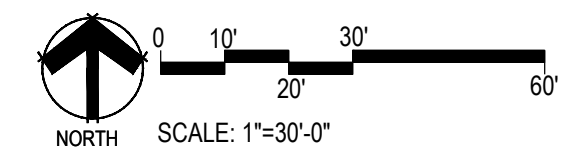
28,145 SF	SEED MIX 1	SEED MIX 1
	TOWN OF PARKER - SEED MIX 1	RE: LANDSCAPE NOTES

- NOTES:
- LANDSCAPE MATERIAL AND TREES IN TREE LAWNS ADJACENT TO LOTS ARE RESPONSIBILITY OF HOME BUILDER. STREET TREE LOCATIONS ARE NOT FINAL AND MAY CHANGE BASED UPON DRIVEWAY LOCATION.
 - NO FENCES OR STRUCTURES WILL BE ALLOWED WITHIN SIGHT TRIANGLES.
 - SHRUBS & PERENNIALS WITHIN SIGHT TRIANGLES WILL BE NO HIGHER THAN 2'.
 - MAILBOX CLUSTER LOCATIONS ARE CONCEPTUAL ONLY. FINAL LOCATIONS TO BE DETERMINED BY POSTMASTER.
 - ALL FENCING TO BE INSTALLED AS PART OF FILING 1 OR 9.



1 LANDSCAPE PLAN-FILING 16

SCALE: 1"=30'-0"



Prepared For:
ESX MANAGEMENT
 7353 SOUTH ALTON WAY
 CENTENNIAL, CO 80112

Land Planning
 people creating spaces

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TRAILS AT CROWFOOT
 FILING 16 LANDSCAPE PLANS
 PARKER, COLORADO

Drawn by: BEM, GG, JWD
 Checked by: PCS STAFF
 Submittal Date: 06.20.2018
 Know what's below. Call before you dig.

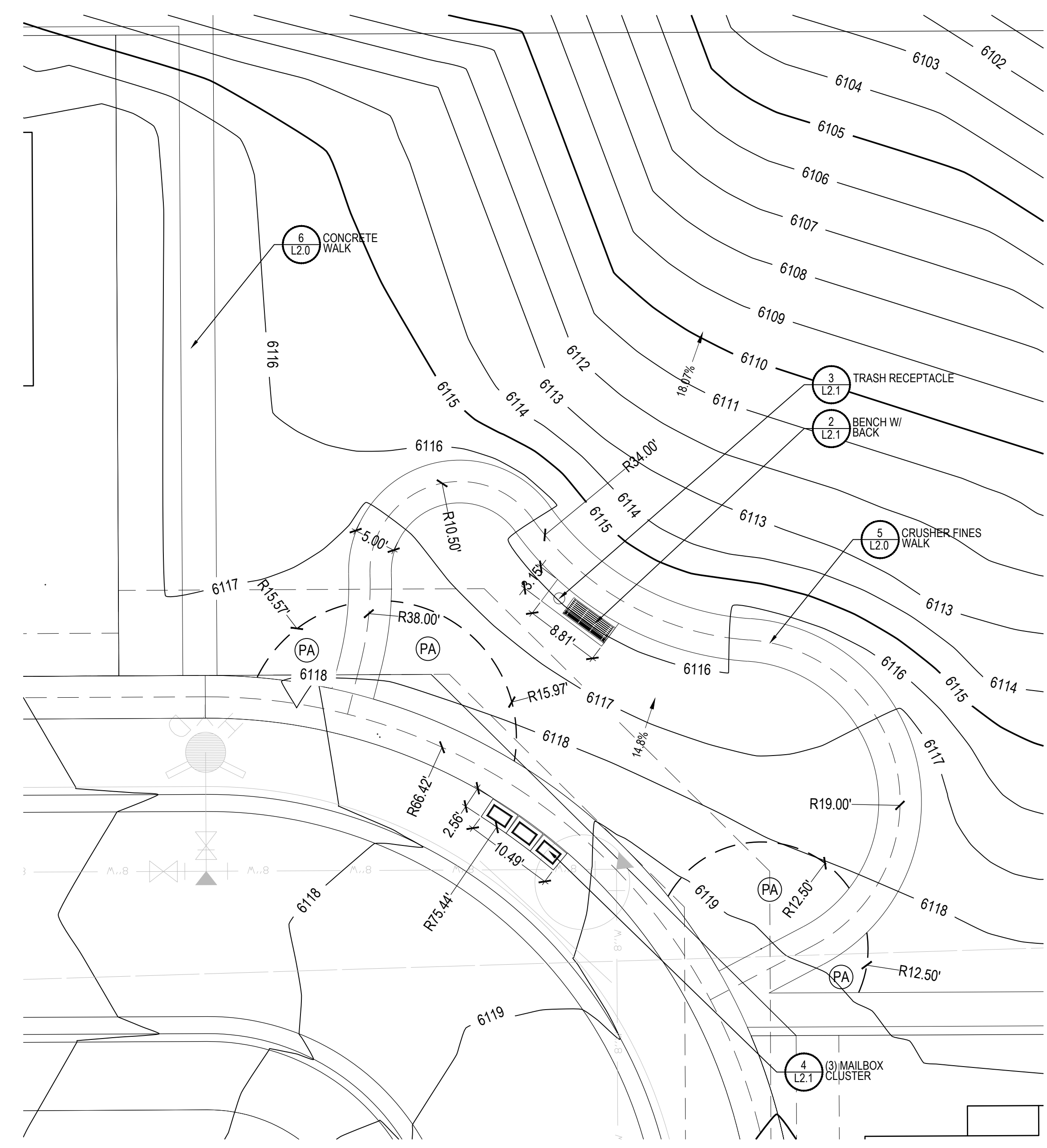
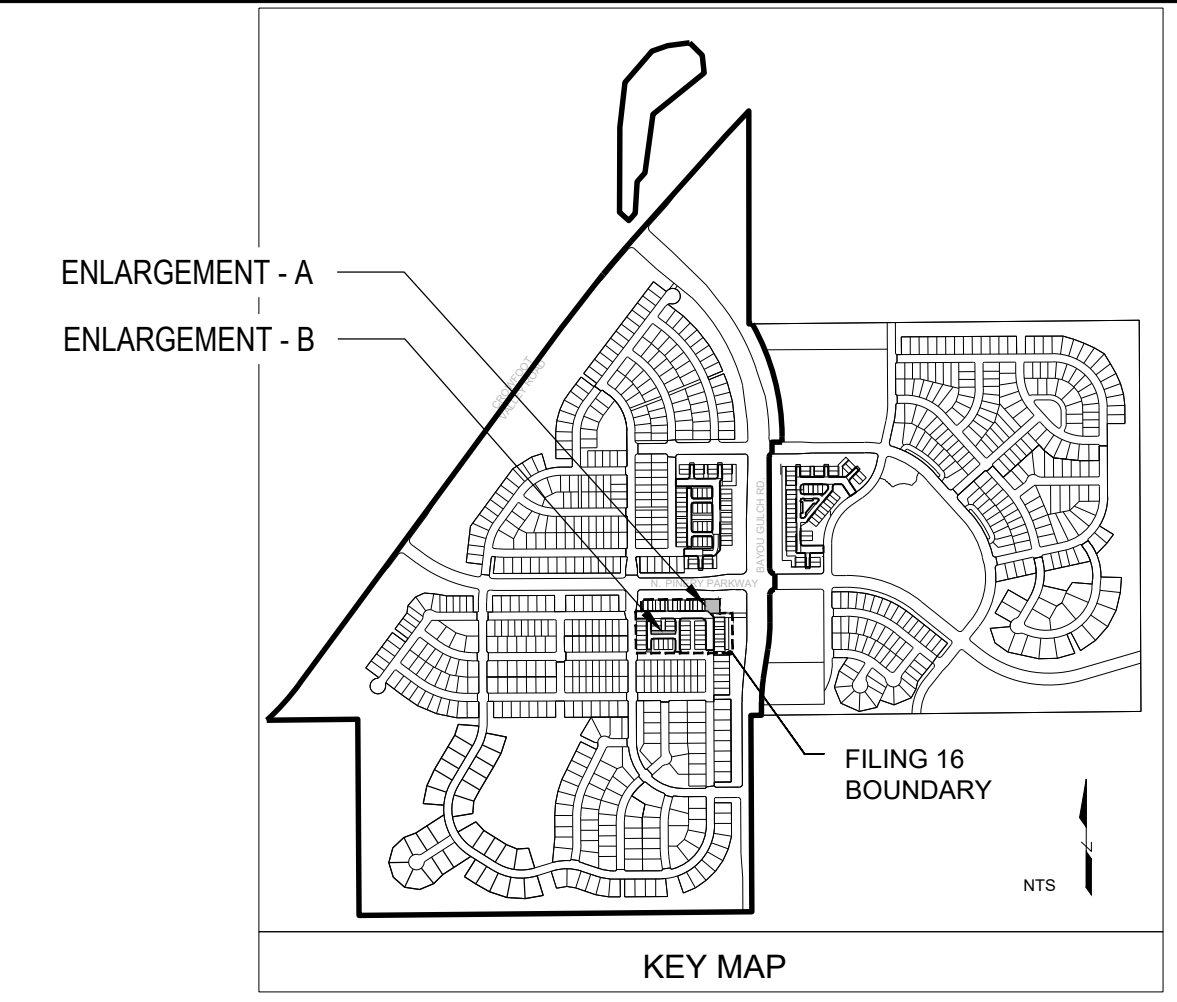
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LANDSCAPE PLAN

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Y:\HESSE RANCH\LANDSCAPE ARCHITECTURE\CURRENT DWGS\HESSE-LDSCP PLANS - FILING-16_CDS.DWG
 Tuesday, June 05, 2018

LANDSCAPE GRADING NOTES

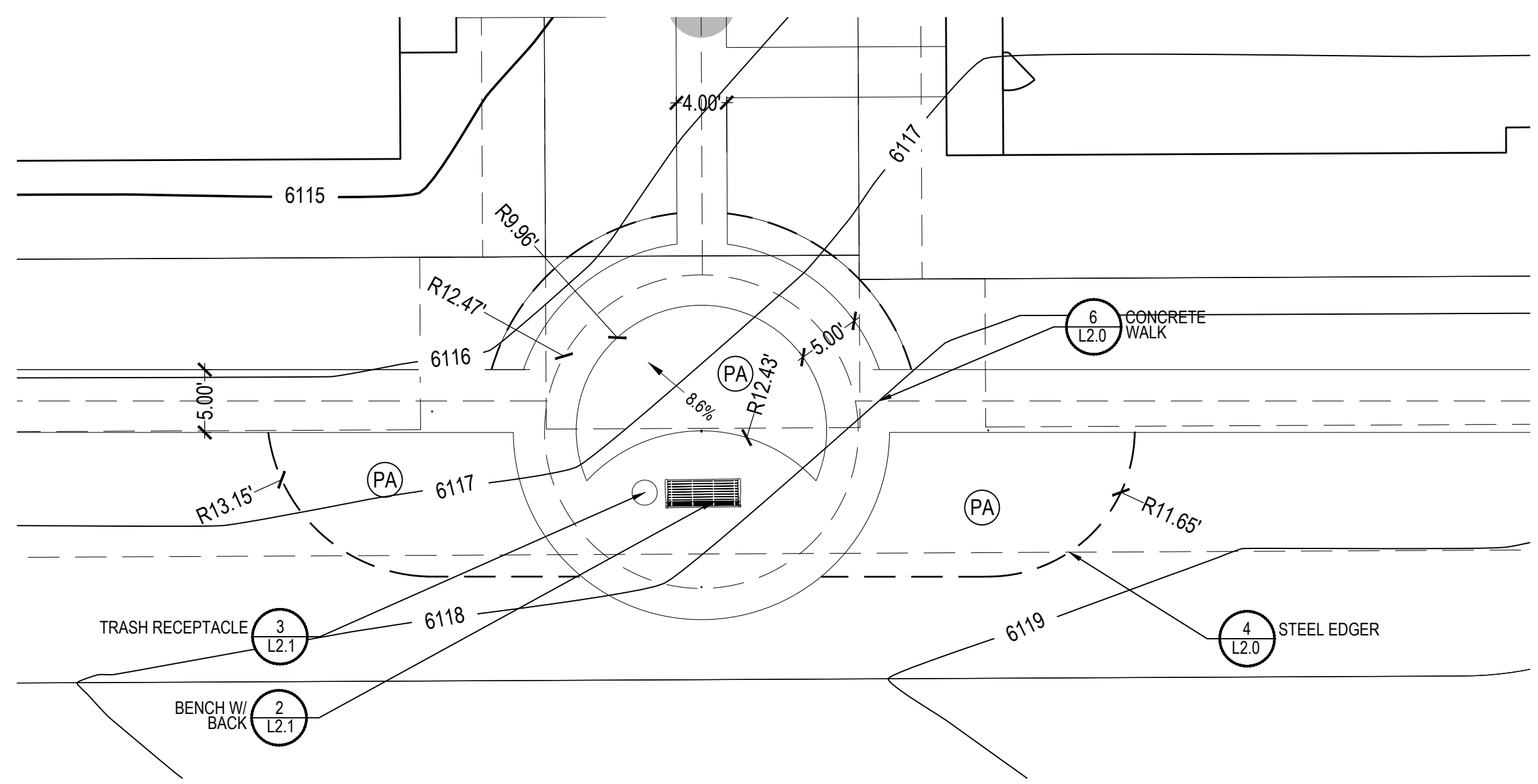
- SLOPES NOT TO EXCEED 4:1 MAX. - 1% MIN.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
- STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- STRIP EXISTING SURFACES OF UNSUITABLE TOPSOIL, INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS.
- STOCKPILE TOPSOIL MATERIALS ON-SITE WITHOUT INTERMIXING WITH SUBSOIL.
- REMOVE EXISTING VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE BEFORE PLACING FILLS.
- PLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED CROSS-SECTIONS, ELEVATIONS AND GRADES WITH SATISFACTORY SOIL MATERIAL.
- UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
- PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
- CUT OUT SOFT SPOTS, FILL LOW SPOTS AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM ADJACENT STRUCTURES AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
 - AT LOCATIONS DESIGNATED FOR LAWN OR UNPAVED AREAS: PLUS OR MINUS 1 INCH (25 MM).
 - AT DESIGNATED PAVEMENT LOCATIONS: PLUS OR MINUS 1/2 INCH (13 MM).
- GRADING ON SLOPES: INSTALL EROSION STABILIZATION FABRIC PER MANUFACTURERS RECOMMENDATIONS ON SLOPED SURFACES EQUAL TO OR GREATER THAN A RATIO OF 1) VERTICAL FOOT TO 3) HORIZONTAL FEET.
- CONTRACTOR WILL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.
- PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.
- REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.
- WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACE GRADING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACE GRADING.
- TRANSPORT SURPLUS SATISFACTORY SOIL TO DESIGNATED STORAGE AREAS ON OWNER'S PROPERTY. STOCKPILE OR SPREAD SOIL AS DIRECTED BY OWNER.



1 LAYOUT, GRADING & MATERIAL ENLARGEMENT - A
SCALE: 1"=10'-0"

LAYOUT NOTES

- REFER TO CIVIL ENGINEER DRAWINGS/DATA SETS FOR PROJECT BENCHMARK AND BASIS OF BEARING.
- SITE LAYOUT DATA INCLUDING COORDINATE POINTS ARE DERIVED FROM CIVIL ENGINEERING CONSULTANT. CONTACT CIVIL ENGINEER REGARDING ANY DISCREPANCIES OR CLARIFICATIONS REGARDING COORDINATE SYSTEMS, SURVEY MARKERS OR OTHER HORIZONTAL CONTROL DATA.
- UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO THE FOLLOWING: CENTERLINES, EDGE OF PAVING, CENTERS OF COLUMNS/POSTS.
- ALL EDGES OF PAVEMENT ARE TO BE STRAIGHT OR OF CONSISTENT RADIUS, IN THE CASE OF CURVES, AS SHOWN HEREON; NO UNSPECIFIED TANGENTS OR KINKS WILL BE APPROVED.
- ALL CONSTRUCTION LAYOUT STAKING IS TO BE PERFORMED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO, TO FACILITATE ACCURACY IN CONSTRUCTION STAKING, UPON WRITTEN REQUEST FROM CONTRACTOR, A CD CONTAINING THE ELECTRONIC DATA COMPRISING THESE SITE DEVELOPMENT DRAWINGS WILL BE FORWARDED FROM THE LANDSCAPE ARCHITECT TO THE LAND SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED TO PERFORM CONSTRUCTION STAKING.
- IN ORDER TO MAINTAIN THE INTEGRITY OF THE HORIZONTAL AND VERTICAL CONTROL FOR THE SITE, THE SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR TO PERFORM CONSTRUCTION LAYOUT STAKING SHALL SET AND PROTECT ADDITIONAL TRAVERSE POINTS OUTSIDE THE AREAS OF CONSTRUCTION ACTIVITY.



2 LAYOUT, GRADING & MATERIAL ENLARGEMENT - B
SCALE: 1"=10'-0"

GRADING KEYNOTES:

LEGEND	
(PA)	PLANTING AREA
6050	PROPOSED CONTOUR - MAJOR
6049	PROPOSED CONTOUR - MINOR
HP	HIGH POINT

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 CENTENNIAL, CO 80112

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pcs group inc. www.pcsgroupco.com
 #3, 8-180 Independence plaza
 1007 16th street, denver, co 80265
 1.303.531.4905 f.303.531.4908

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 10333 E. DRY CREEK RD. #240
 ENGLEWOOD, CO 80112
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TRAILS AT CROWFOOT

FILING 16 LANDSCAPE PLANS

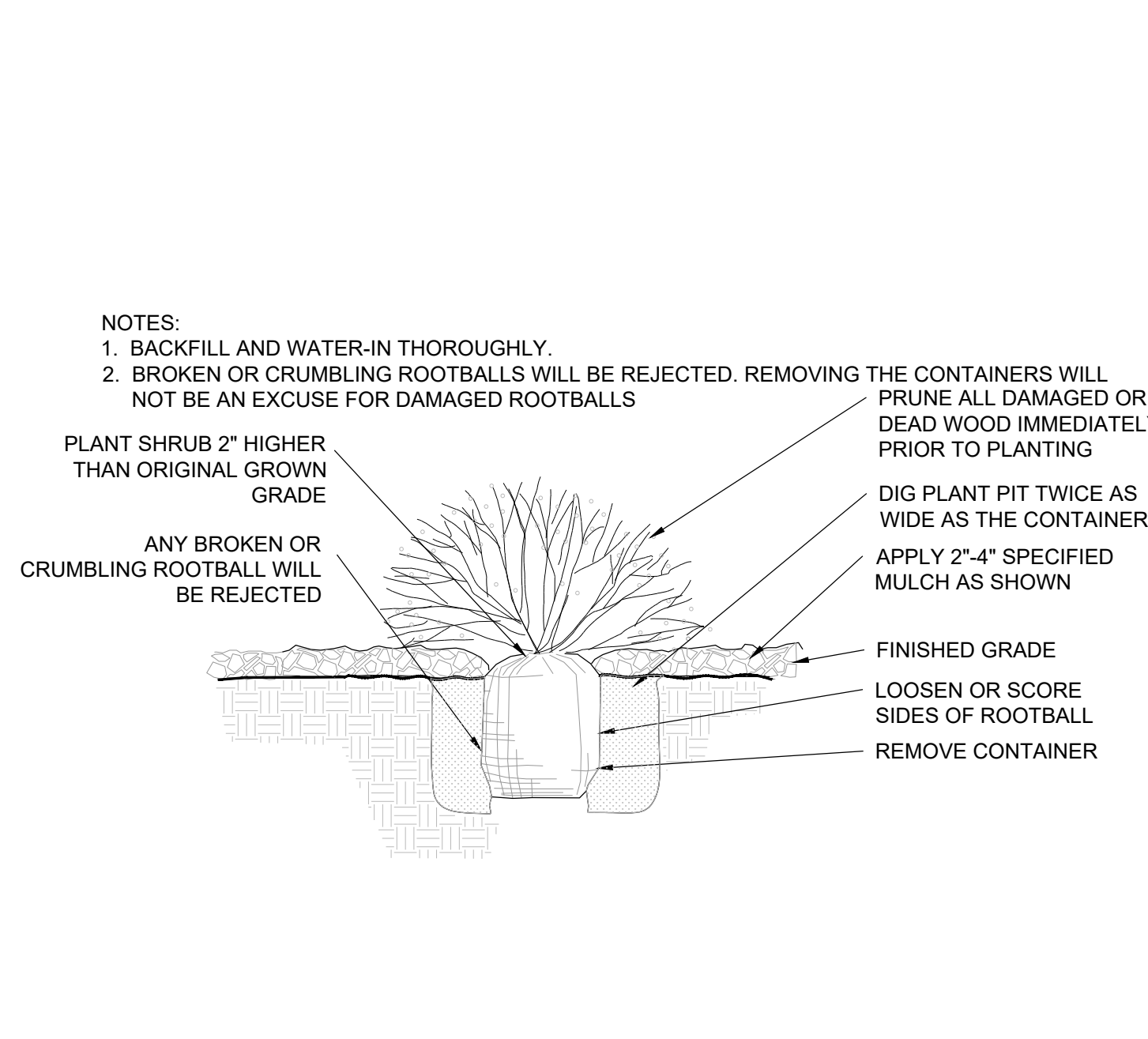
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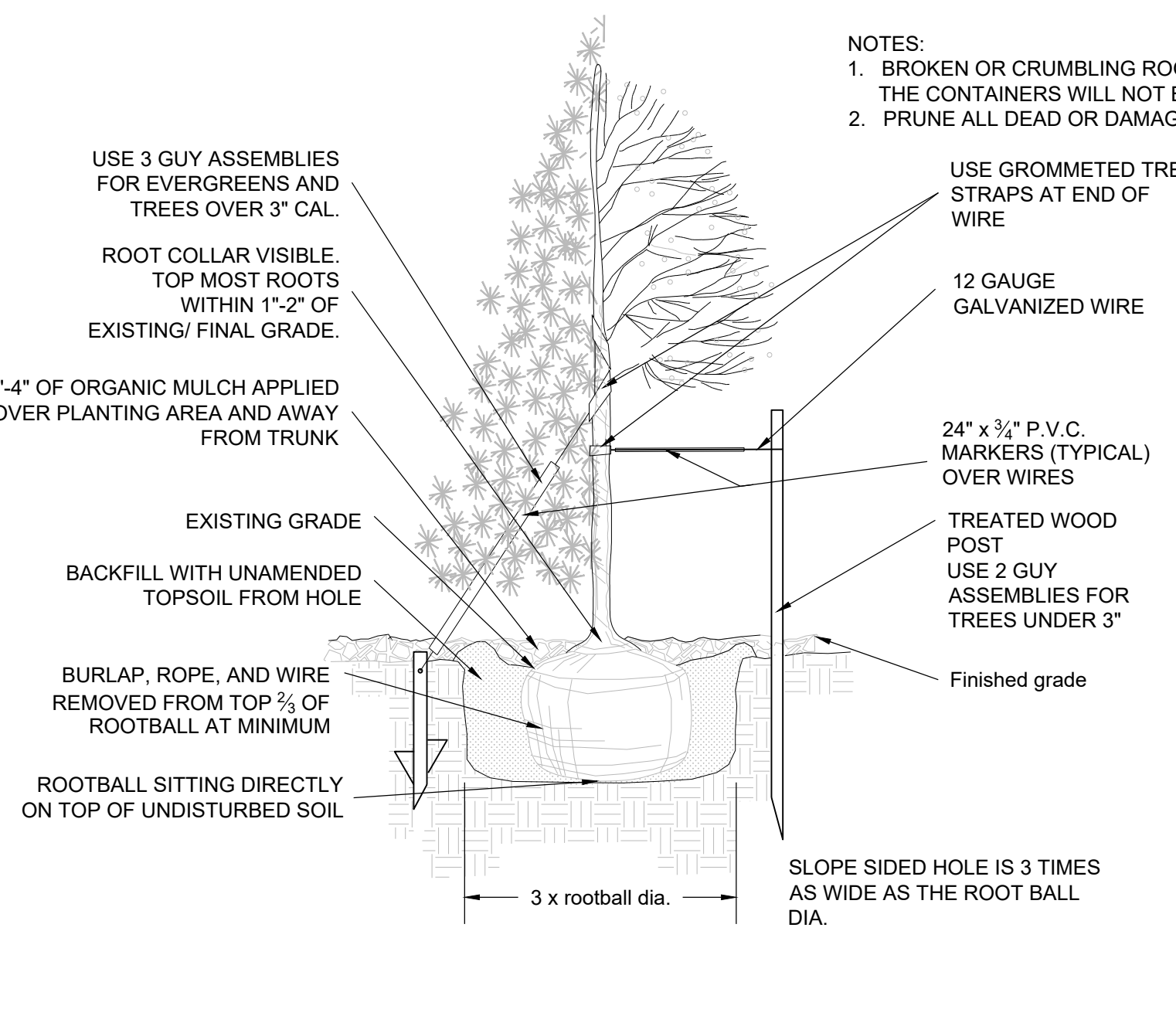
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LAYOUT, GRADING & MATERIAL ENLARGEMENTS

Sheet Number
L1.2

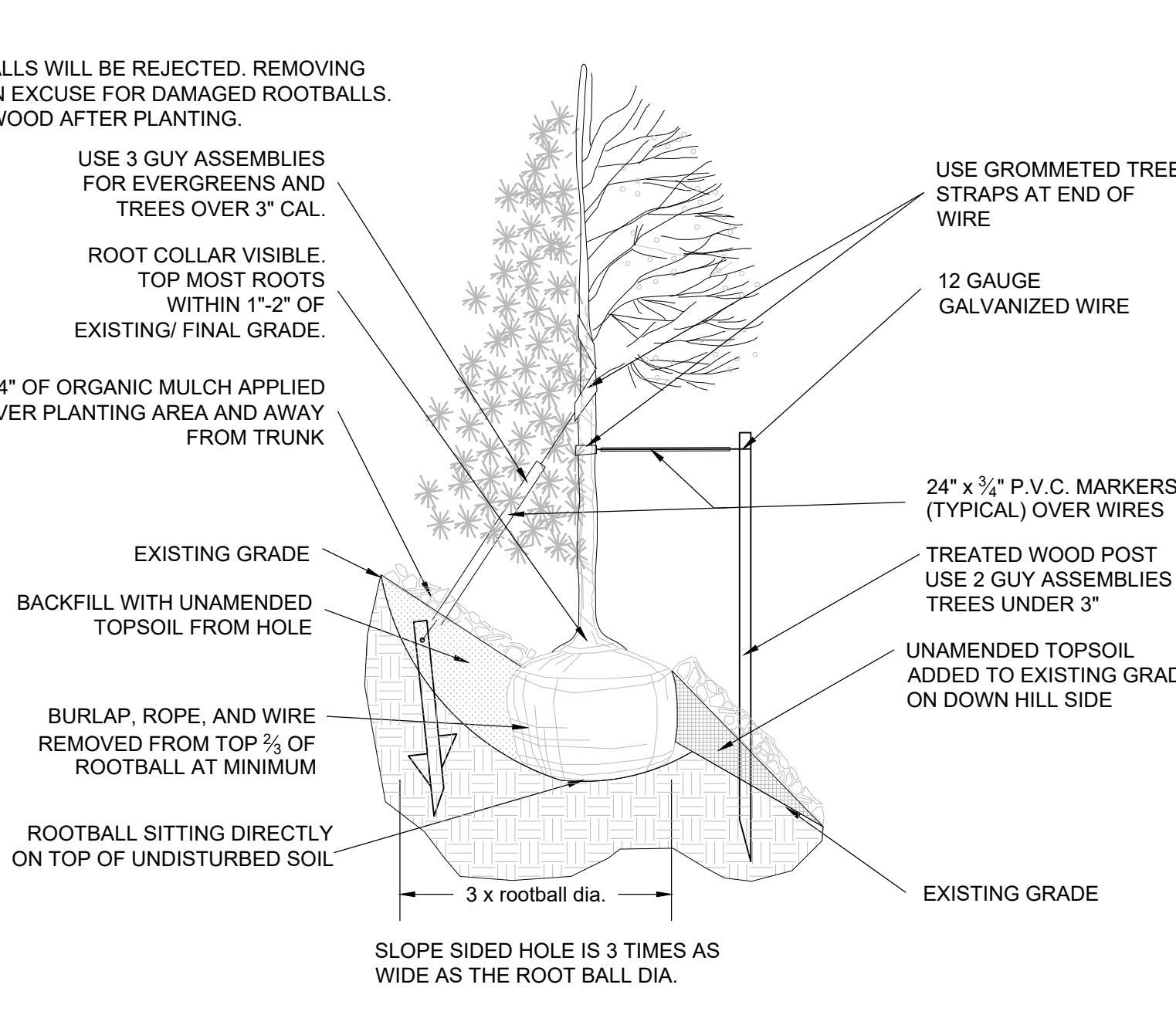
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 Tuesday, June 05, 2018



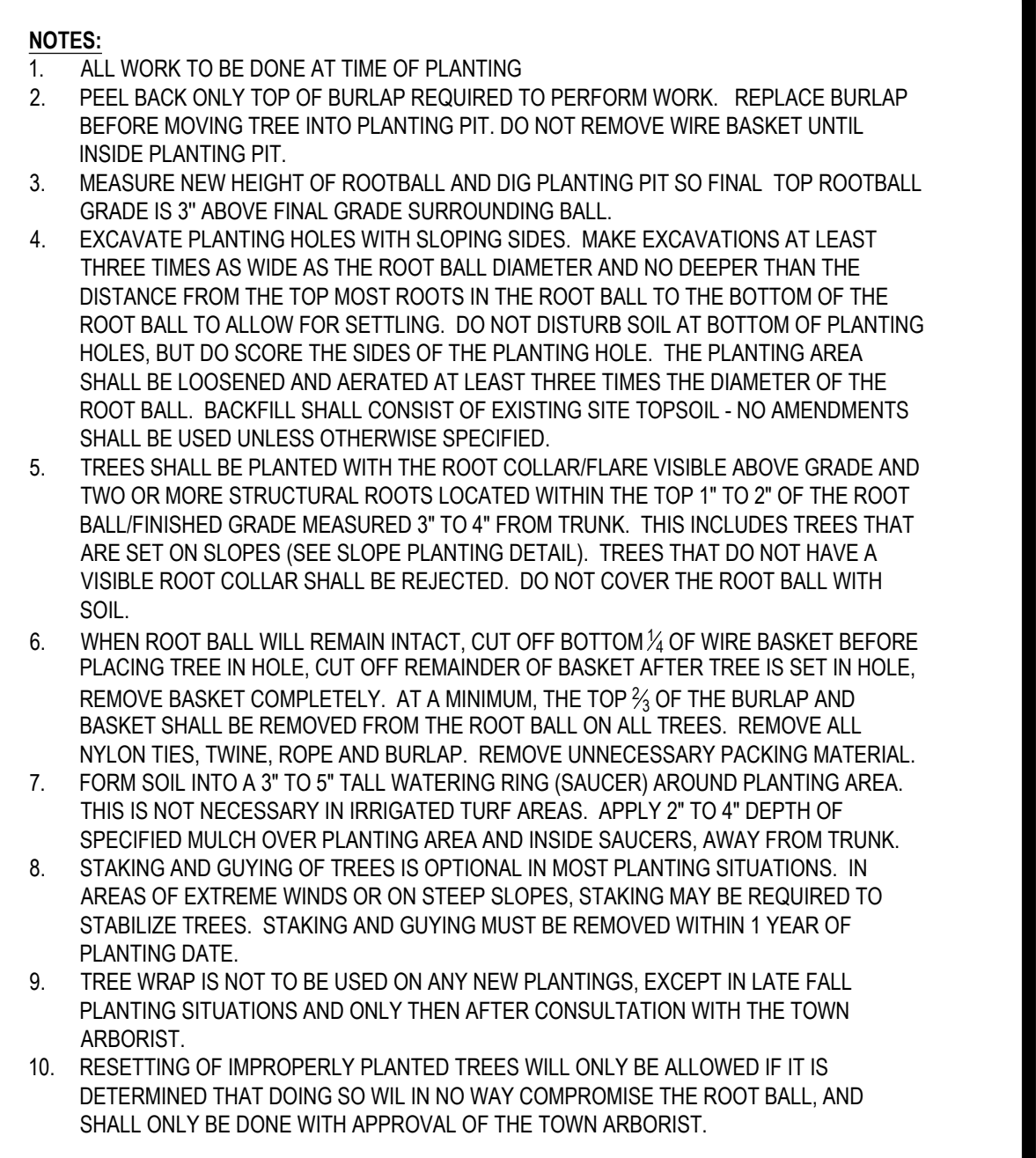
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NOT TO SCALE



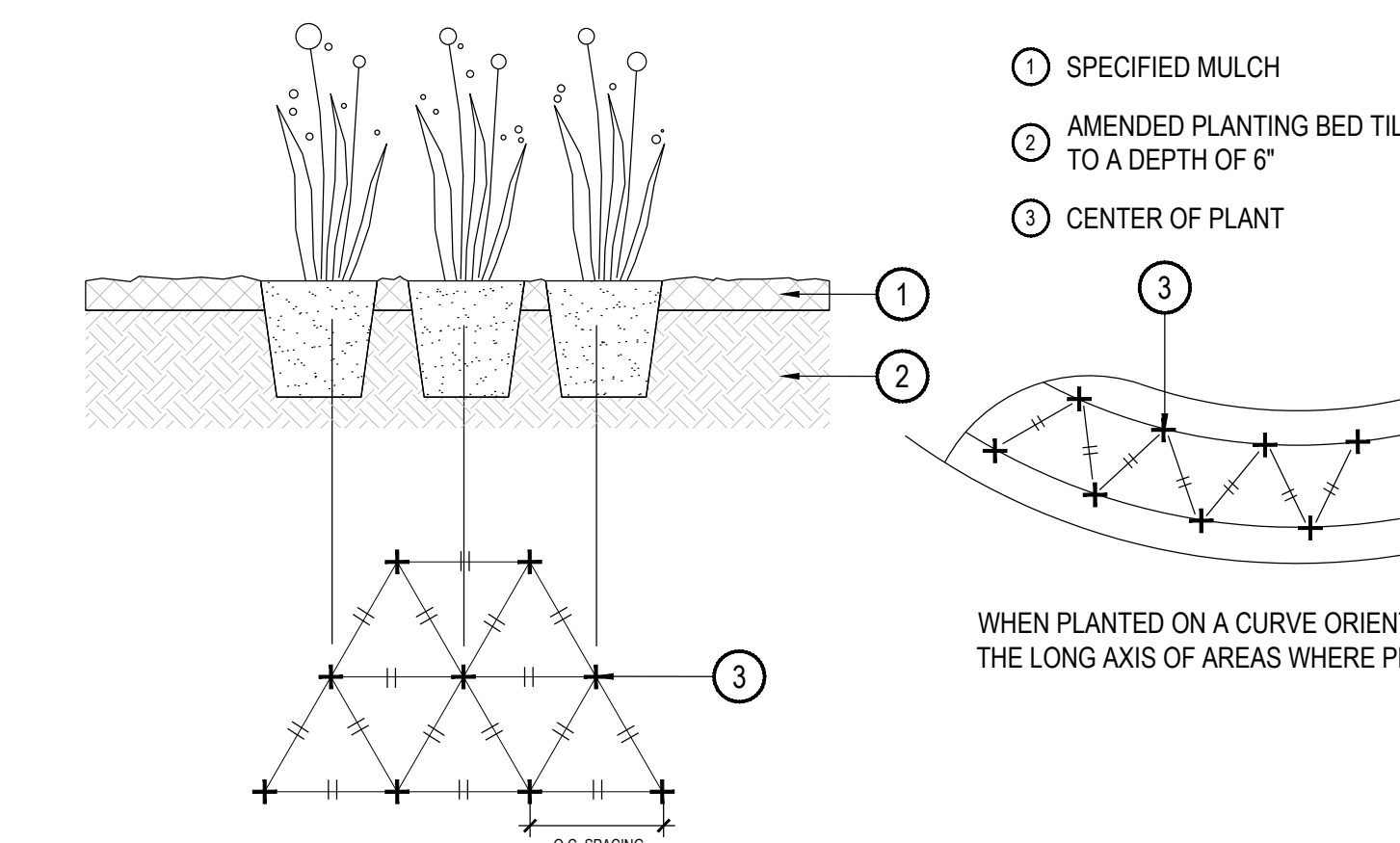
2 TREE PLANTING
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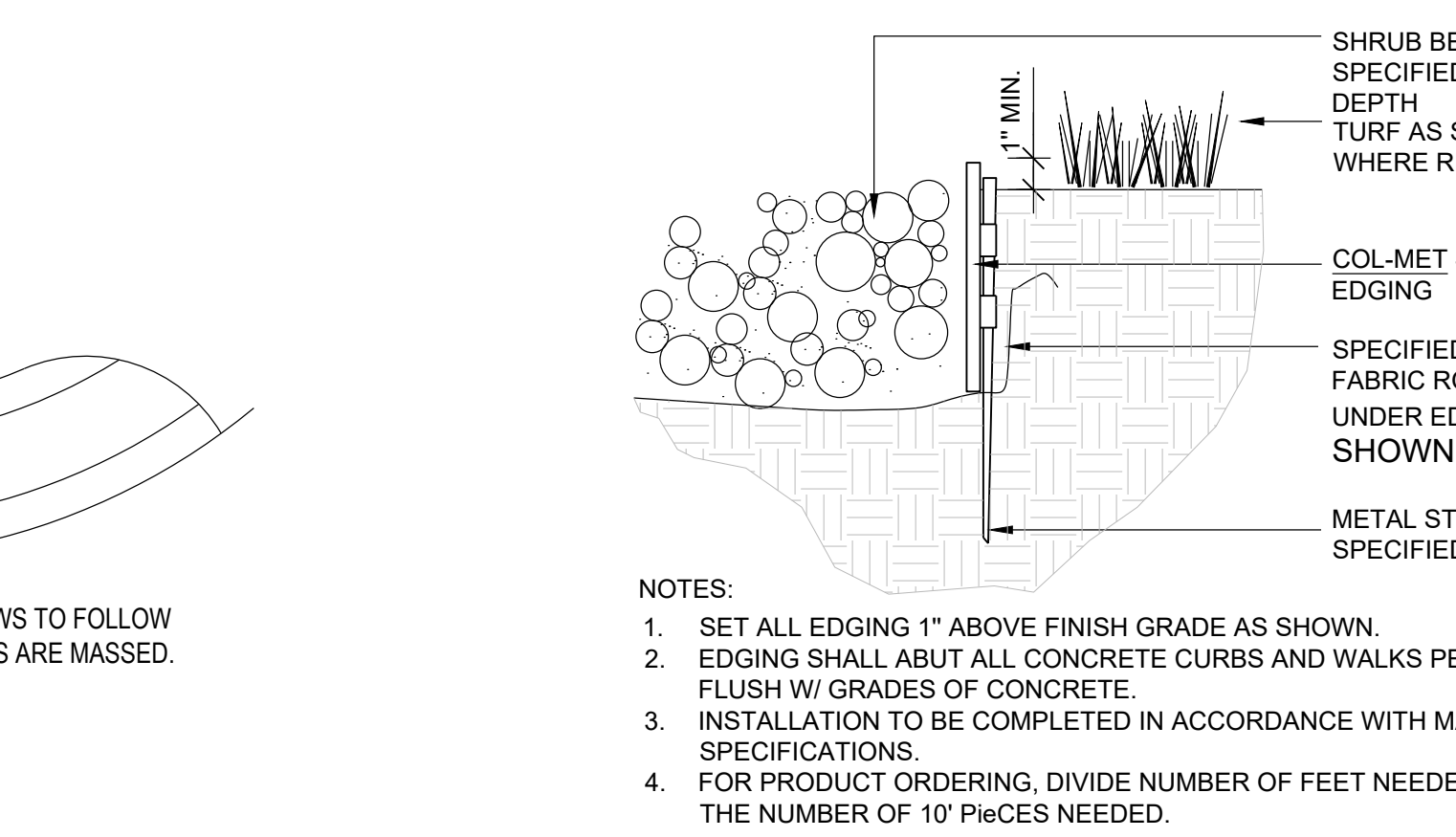
3 PERENNIAL OR GRASS PLANTING
NOT TO SCALE



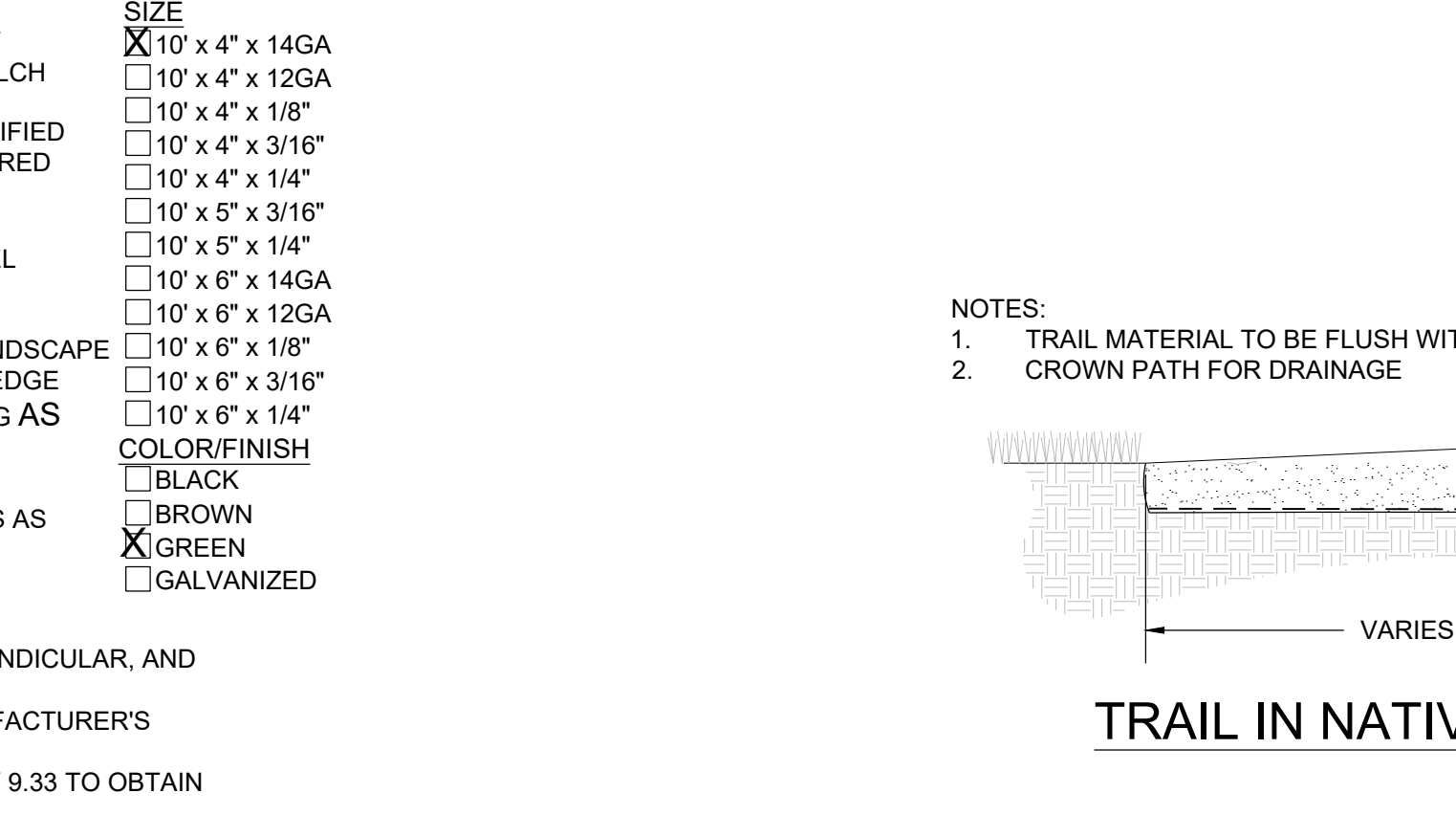
4 STEEL EDGER
NOT TO SCALE



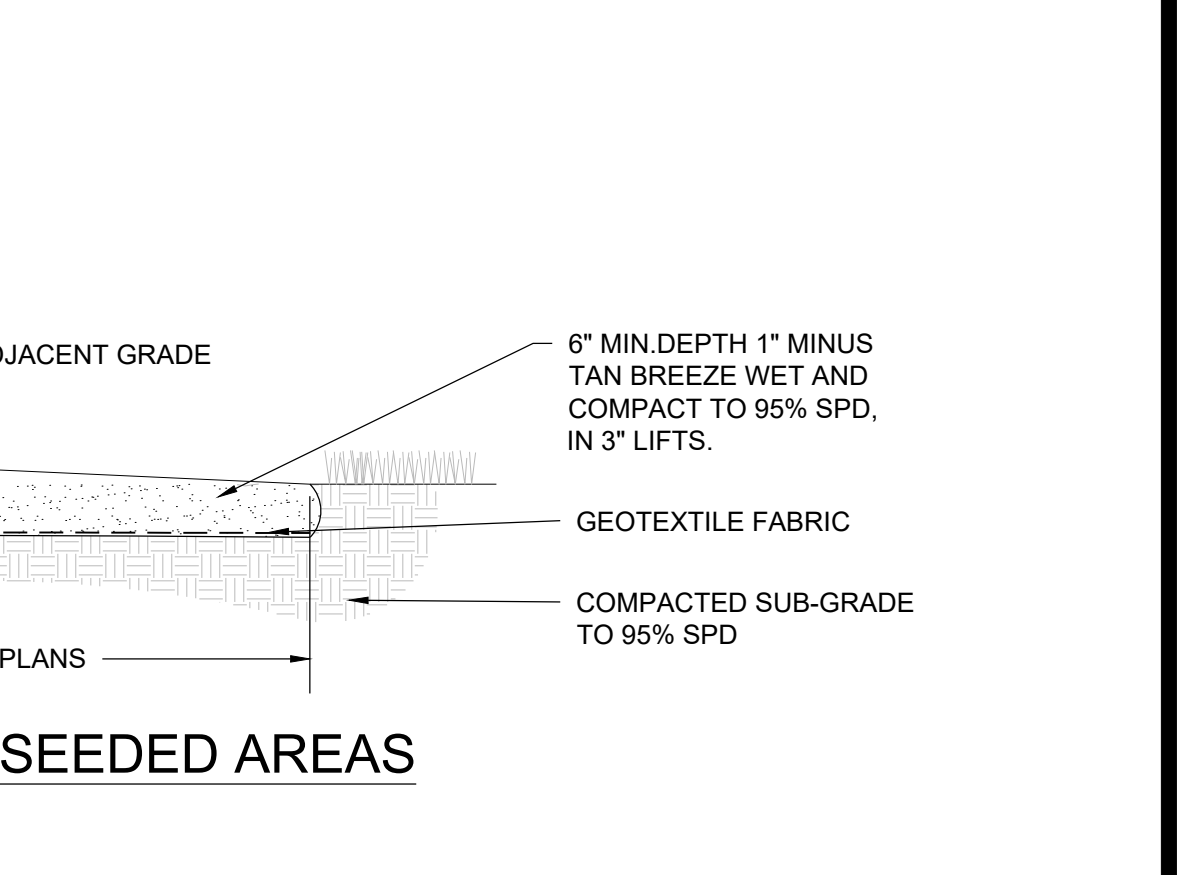
5 CRUSHER FINES WALK
NOT TO SCALE



6 CONCRETE WALK
NOT TO SCALE



7 TRAIL IN NATIVE/SEEDED AREAS
NOT TO SCALE



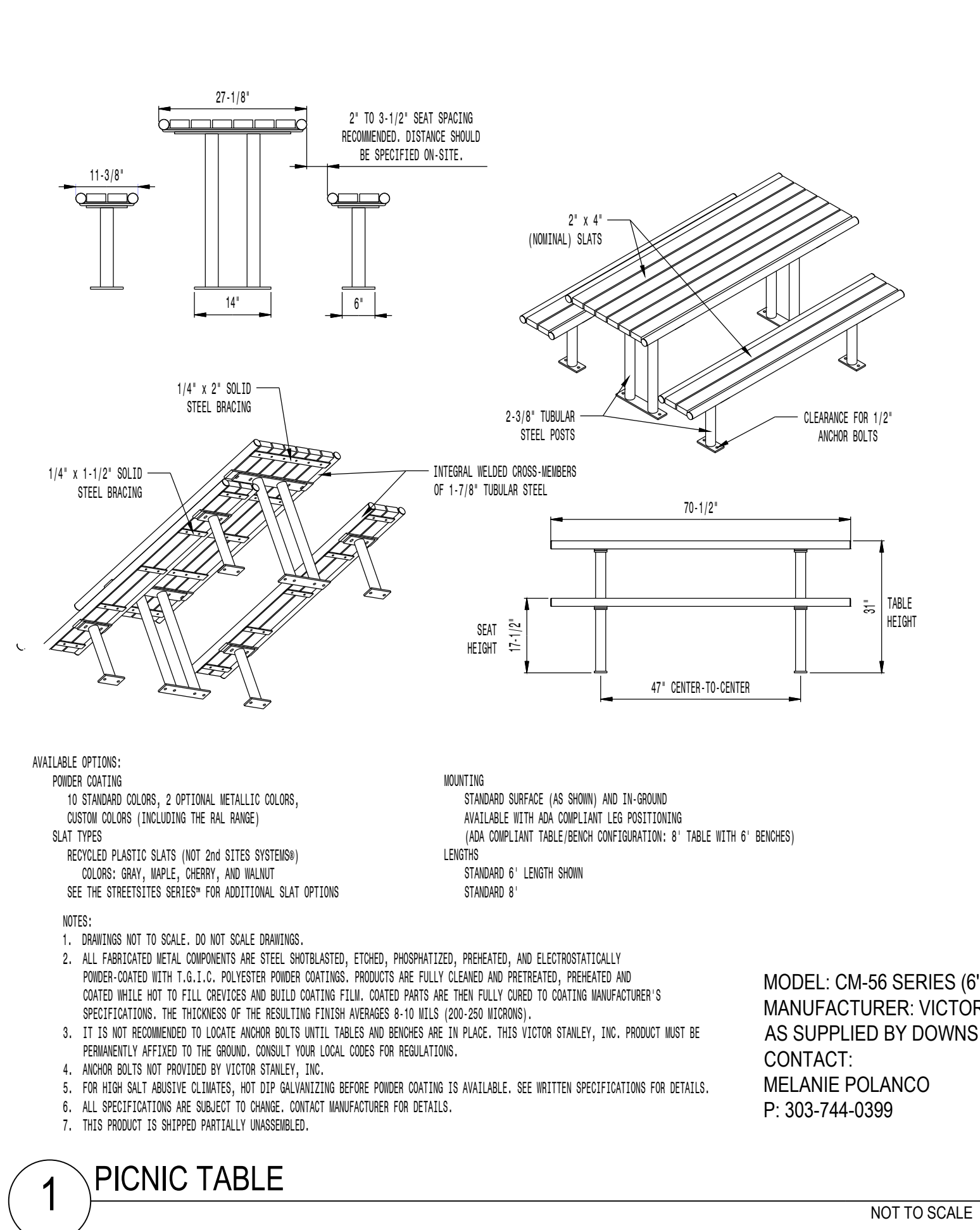
8 COL-MET
NOT TO SCALE

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Tuesday, June 05, 2018

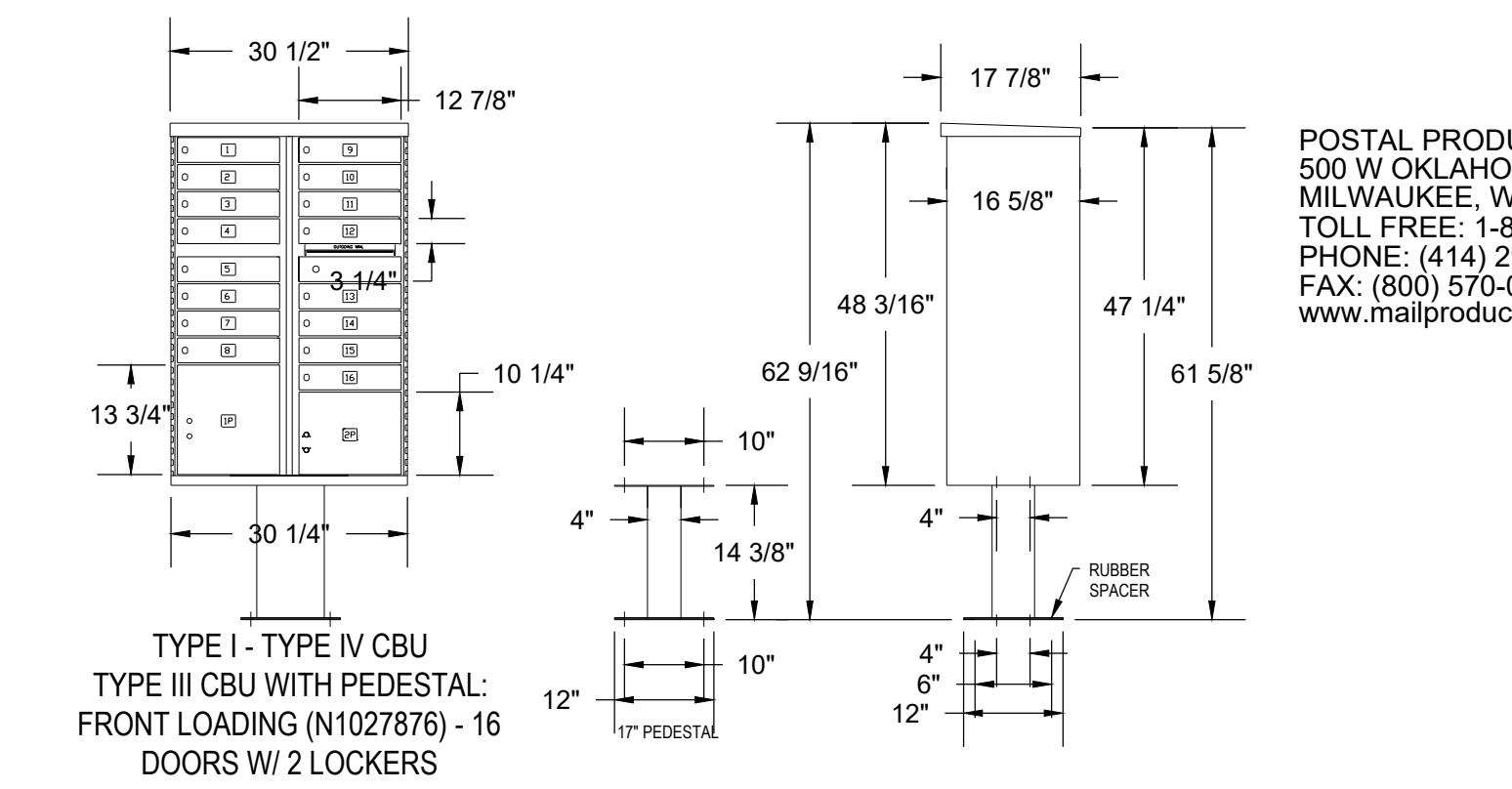
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SITE & LANDSCAPE
DETAILS

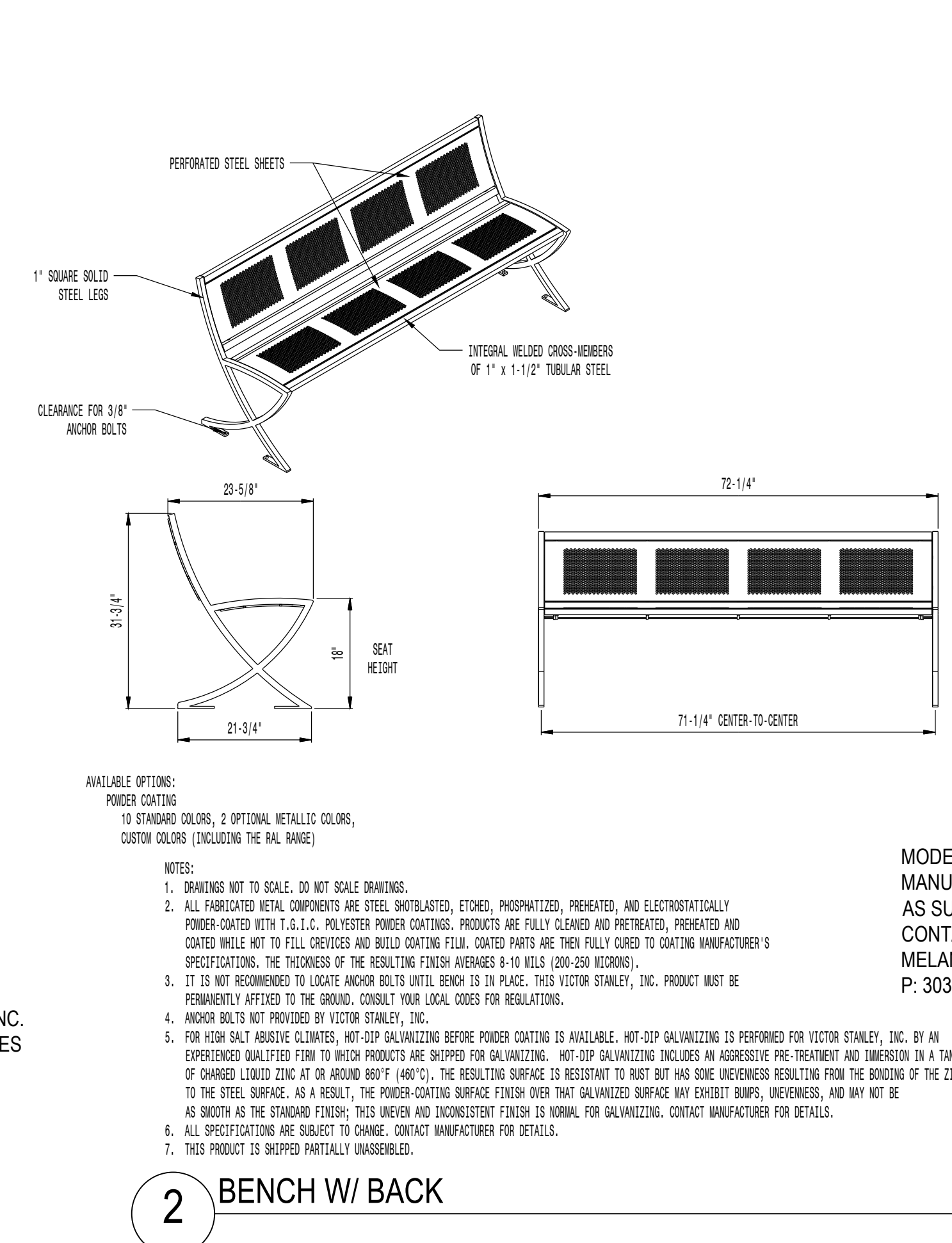
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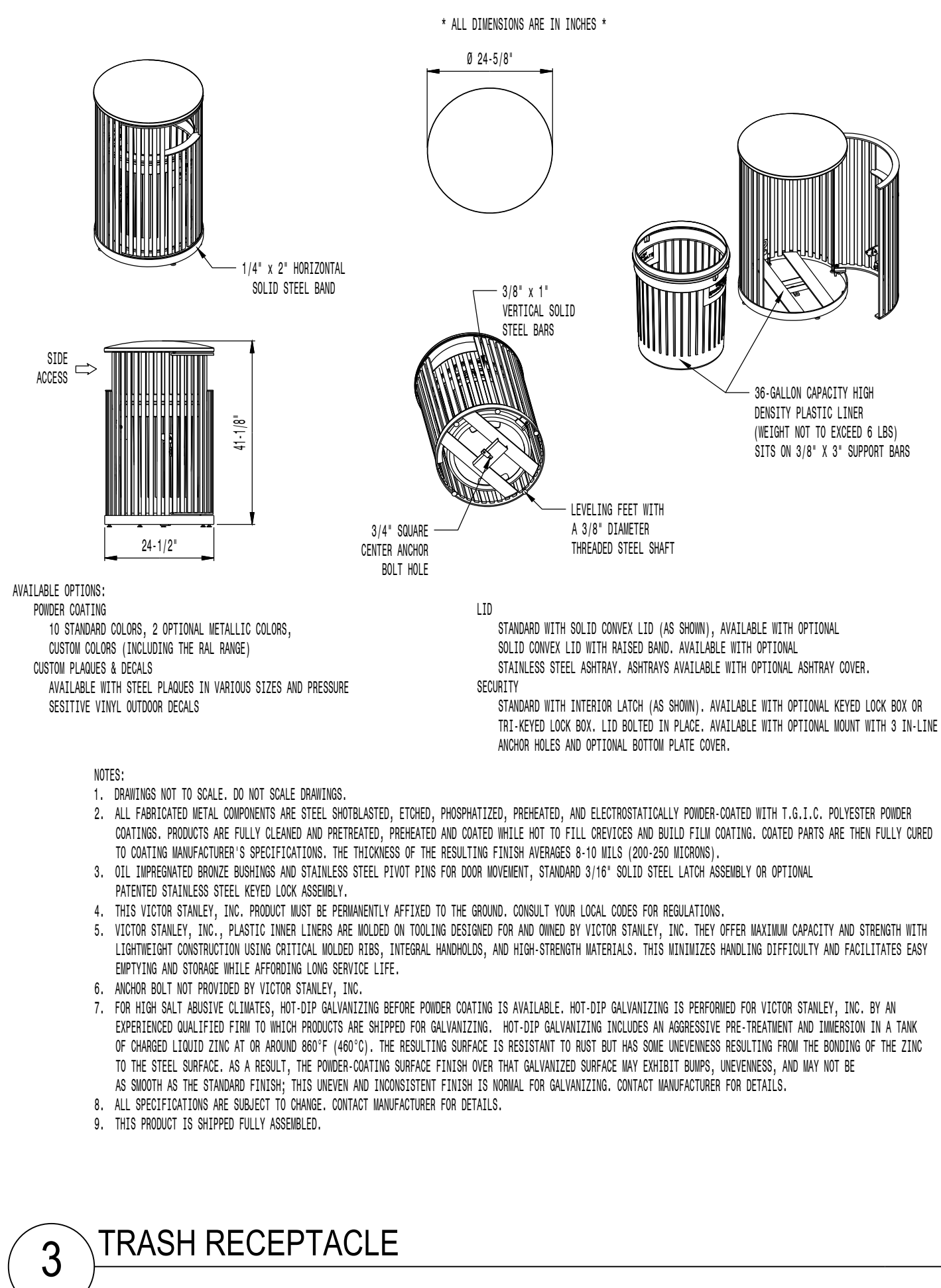
- Notes:
1. Installation to be completed in accordance with specifications by factory authorized installers.
 2. Contractor to verify concrete pad dimension & construction specifications with USPS before constructing
 3. Contractor to make submittals for mailbox cluster units for review & approval, with pricing info, prior to ordering clusterboxes.



4 MAILBOX CLUSTER
NOT TO SCALE



MODEL: LILY BENCH LIL-20NA-P (6' LENGTH)
MANUFACTURER: VICTOR STANLEY, INC.
AS SUPPLIED BY DOWNS & ASSOCIATES
CONTACT:
MELANIE POLANCO
P: 303-744-0399



MODEL: STEELSITE SERIES TRASH CAN SD-36
STANDARD CONVEX RIVETED LID
MANUFACTURER: VICTOR STANLEY, INC.
AS SUPPLIED BY DOWNS & ASSOCIATES
CONTACT:
MELANIE POLANCO
P: 303-744-0399



Outdoor Pedestal Mailbox
Units: 12 Box (F181570-12)
16 Box (F181570-16)
Weight: 12 Box = 138 lbs
16 Box = 161 lbs
Height: 62" Width: 28.5" Depth: 17.5"

Available from:
U.S. Mail Supply
1.800.571.0147
www.usmailsupply.com

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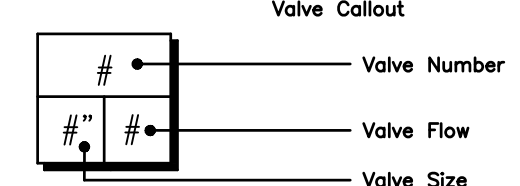
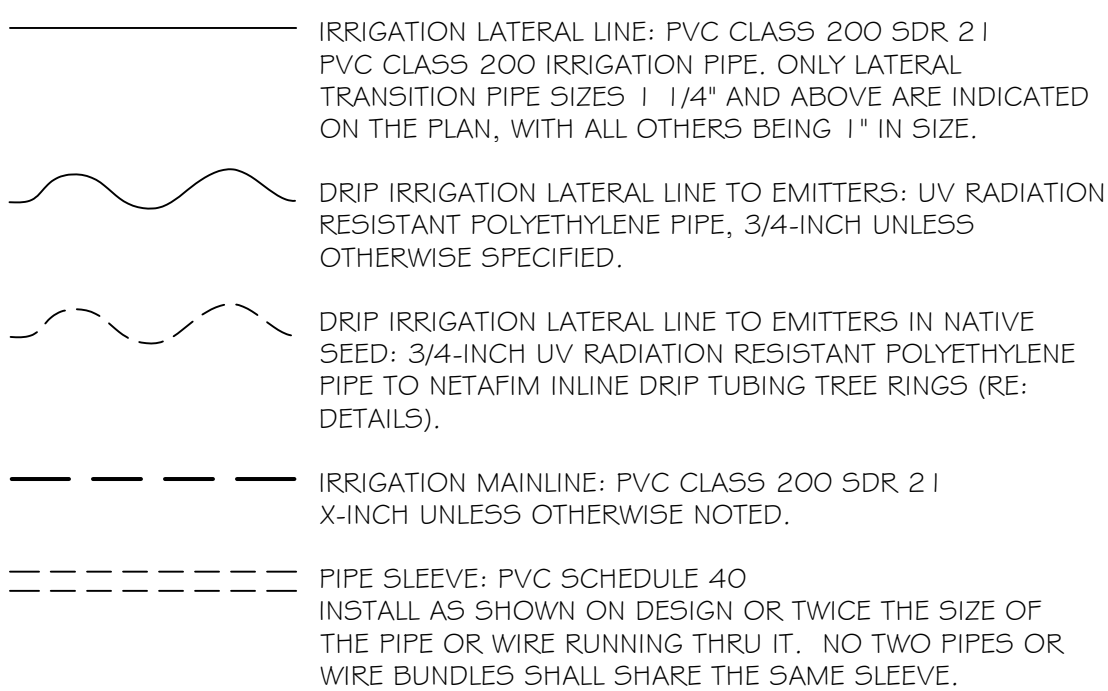
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 5 SERIES TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 8 SERIES TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 10 SERIES TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 12 SERIES TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 15 SERIES TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER PROS-06-PR530-CV WITH TORO NOZZLE 4X STRIP SPRAY TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. WITH FACTORY INSTALLED DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL. UTILIZE TORO PRECISION SERIES SPRAY NOZZLES.	30
	HUNTER MP2000 PROS-06-PR540-CV TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PR540 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	DRIP VALVE ASSEMBLY NETAFIM LVCZ58010075-HF. PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1" SERIES 80 CONTROL VALVE, 3/4" DISC FILTER, AND HIGH FLOW PRESSURE REGULATOR 4.5GPM TO 17.6GPM.
	REMOTE CONTROL VALVE ASSEMBLY HUNTER MODEL CV 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION
	QUICK COUPLER VALVE ASSEMBLY HUNTER HQ-5RC: VALVE WITH YELLOW RUBBER COVER, RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 1-PIECE BODY.
	ISOLATION GATE VALVE ASSEMBLY MATCO-NORCA 5114TX: 1/2"-4" BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. CROSS HANDLE. SAME SIZE AS MAINLINE PIPE.
	NORMALLY OPEN MASTER VALVE ASSEMBLY BUCKNER-SUPERIOR 3100, NORMALLY OPEN BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION. SIZE TO MATCH POC.
	REDUCED PRESSURE BACKFLOW PREVENTER WILKINS 375B: BACKFLOW PREVENTER WITH BLOW OUT/FLUSH FITTING. REINFORCED NYLON HOUSING AND CAST BRONZE BALL VALVES. SIZED TO MATCH TAP # METER (RE: POC NOTE).
	PEDESTAL MOUNT CONTROLLER (4800) WEATHERMATIC SL4848 (WITH 4 SIM 1 2): 48-ZONE CONTROLLER WITH FLOW MONITORING AND WEATHER STATION. INCLUDES SMARTLINK AIRCARD WITH FLOW, SLWS WEATHER STATION, AND 5 YR SERVICE PLAN (SL4800-5YR-BUNDLE-FLOW). UTILIZE STAINLESS STEEL PEDESTAL, MODEL SLPED-ENC. UTILIZE NORMALLY OPEN PANEL.
	CREATIVE SENSOR TECHNOLOGY F51-T 1", 1.5", OR 2" (SIZE TO MATCH POC) PVC TEE TYPE FLOW SENSOR W/ SOCKET ENDS. CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE WALL IRRIGATION CONTROLLERS. FLOW RANGE: .86-52 GPM. 1.5" SIZE FLOW RANGE 1.8-108 GPM. 2" SIZE FLOW RANGE 2.8-170 GPM.



EMITTER SCHEDULE

PLANT TYPE	EMITTER TYPE	GPH/OUTLET	NO. OF EMITTERS	TOTAL FLOW
GROUND COVER	SINGLE OUTLET	1 GPH	1	1 GPH
PERENNIALS	SINGLE OUTLET	1 GPH	1	1 GPH
1 GAL. SHRUB	SINGLE OUTLET	1 GPH	1	1 GPH
5 GAL. SHRUB	SINGLE OUTLET	1 GPH	2	2 GPH
TREE IN SHRUB BED	SINGLE OUTLET	1 GPH	4-8	4-8 GPH
TREE IN NATIVE SEED	INLINE DRIP*	0.6 GPH	N/A	N/A

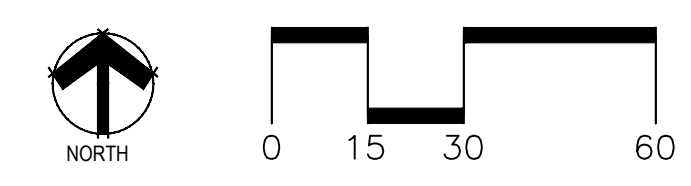
NOTES:
 1. MULTIPLE OUTLET EMITTERS CAN BE UTILIZED IN DENSELY PLANTED AREAS AND FOR TREES IN SHRUB BEDS.
 2. REFER TO LEGEND AND DETAILS FOR INLINE DRIP TOTALS.

INSTALLATION GENERAL NOTES

- DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM (PER CITY OR ENGINEER) OF XX PSI, AT A MAXIMUM FLOW OF XX GPM AT THE X-INCH POINT-OF-CONNECTION (POC). VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION. CONTACT GENERAL CONTRACTOR OR OWNER'S REPRESENTATIVE IMMEDIATELY IF FLOW OR PRESSURE ARE LOWER THAN LISTED ABOVE.
 - TAP IS SIZED TO ACCOMMODATE AN 8 HOUR/DAY, 6 DAYS/WEEK WATERING WINDOW. THE ENHANCED NATIVE SEED MIX ASSUMES AN AVERAGE WEEKLY USAGE OF 0.75-INCHES PER WEEK, WHILE THE BLUEGRASS ASSUMES AN AVERAGE OF 1.25-INCHES PER WEEK.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION. FOR CLARIFICATION, CONTACT IRRIGATION DESIGNER PRIOR TO CONSTRUCTION.
 - UPON FINAL ACCEPTANCE, CONTRACTOR SHALL TURN OVER REQUIRED ADJUSTMENT KEYS INCLUDING BUT NOT LIMITED TO CONTROLLER ENCLOSURE AND BACKFLOW ENCLOSURE KEY, LOCKING VALVE BOX KEYS, QUICK COUPLER KEYS, GATE VALVE KEY, SPRINKLER HEAD AND NOZZLE ADJUSTMENT KEYS.
 - UPON FINAL ACCEPTANCE, CONTRACTOR SHALL TURN OVER SPARE PARTS PERTAINING TO INSTALLED SYSTEM: BACKFLOW WINTERIZATION INSERT, TWO OF EVERY HEAD AND NOZZLE (ROTOR NOZZLE TREE INCLUDED), ONE RCV DIAPHRAGM, ETC.
- COORDINATE UTILITY LOCATES OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ("811-CALL BEFORE YOU DIG").
- IF DISCREPANCIES ARE NOTED IN THE FIELD BETWEEN SITE CONDITIONS AND PROVIDED DESIGNS, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OR GENERAL CONTRACTOR IMMEDIATELY. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM IF SUCH DISCREPANCIES IN THE FIELD AFFECT THE PROVIDED DESIGN, DETAILS, OR SPECIFICATIONS.
- ALL IRRIGATION COMPONENTS (MAINLINE, WIRES, LATERAL LINES, ETC.) SHALL BE INSTALLED IN LANDSCAPED AREAS WHENEVER POSSIBLE, EVEN THOUGH SAID IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY.
- AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES WHENEVER POSSIBLE. COORDINATE POTENTIAL RELOCATION OF BOULDERS AND TREES IN TURF AREAS WITH LANDSCAPE ARCHITECT PRIOR TO SPRINKLER LAYOUT. IF LANDSCAPE MATERIAL CANNOT BE RELOCATED, ADDITIONAL SPRINKLERS MAY BE REQUIRED.
- CROSS FITTINGS ARE NOT ALLOWED, ONLY STANDARD TEES AND ELBOWS.
- CONTRACTOR SHALL INSTALL NOZZLES PER PLAN, UNLESS IRRIGATED AREA CHANGED IN SIZE OR PLANT MATERIAL TYPE CHANGES. IF NOZZLE CHANGES ARE REQUIRED AND ARE SIGNIFICANT IN SIZE, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER FOR APPROVAL.
- CONTRACTOR SHALL FIELD LOCATE ANY EXISTING SLEEVES ON SITE PRIOR TO CONSTRUCTION WITH THE AID OF THE GENERAL CONTRACTOR. MISSING SLEEVES SHALL BE REPORTED IMMEDIATELY. NEW SLEEVES SHOWN ON PLANS ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
- THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
 - MAINLINE PIPE SIZES MAY VARY THROUGHOUT PROJECT. EACH MAINLINE LEG IS SIZED TO ACCOMMODATE LARGEST VALVE ON THAT LEG. STATED SIZE IN LEGEND MAY NOT BE THE LARGEST SIZE ON PLANS.
- INSTALL THREE (3) #14 AWG CONTROL WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE FOR USE AS SPARES IN CASE OF CONTROL WIRE FAILURE. COIL 3 FEET OF WIRE IN VALVE BOX.
- TWO-WIRE CONTROL CABLE DOES NOT REQUIRE ADDITIONAL SPARE WIRES TO BE ROUTED WITH MAINLINE.
 - TWO-WIRE CONTROL SURGE ARRESTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. ARRESTORS ARE NOT DEPICTED ON PLANS.
- TREES IN TURF ARE NOT IRRIGATED BY DRIP SYSTEM. DRIP LATERAL ROUTED NEAR TREES IN TURF ARE NOT TO RECEIVE DRIP IRRIGATION. TREES IN NATIVE SEEDED AREAS ARE IRRIGATED ON DRIP SYSTEM.
- VALVES FOR NATIVE SEEDED AREAS SHALL BE ON A SEPARATE PROGRAM.
- NATIVE SEEDED AREAS ARE TO BE IRRIGATED WITH A BELOW GRADE SYSTEM BUT UTILIZED FOR ESTABLISHMENT OF SEED. SYSTEM IS NOT INTENDED TO OPERATE BEYOND ESTABLISHMENT.
- HYDRANT METERS IRRIGATE ONLY NATIVE SEEDED AREAS, NO SHRUBS OR TREES SHALL BE IRRIGATED FROM THIS SYSTEM. ALL COMPONENTS MUST BE INSTALLED ABOVE GRADE PER CASTLE PINES METRO DISTRICT STANDARDS. COORDINATE WITH CRAIG MILLER AT CASTLE PINES METRO DISTRICT.
- NO IRRIGATION EQUIPMENT, INCLUDING BUT NOT LIMITED TO, MAINLINE, VALVES, AND SPRINKLERS, SHALL BE INSTALLED WITHIN 3' OF NEW BUILDING FOUNDATION.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
	THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE WATER TAP AND METER. AT THE APPROXIMATE LOCATION SHOWN (REFER TO CIVIL PLANS FOR EXACT LOCATION). INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION. CONTRACTOR TO INSTALL BACKFLOW PER NATIONAL PLUMBERS CODE AND PER LOCAL CODE. BACKFLOW SHALL BE TESTED UPON INSTALLATION AND ANNUALLY THEREAFTER.
	PEDESTAL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE. CONTROLLER TO BE INSTALLED PER NATIONAL ELECTRIC CODE.
	IRRIGATION SHOWN IN HARDSCAPE FOR CLARITY ONLY. ALL IRRIGATION SHALL BE INSTALLED IN LANDSCAPED AREA. ANY IRRIGATION TO BE INSTALLED UNDER HARDSCAPE SHALL BE SLEEVED.
	MAINLINE, SPRINKLER LATERAL, AND/OR DRIP LATERAL SHOWN SLEEVED TOGETHER IS FOR CLARITY ONLY. CONTRACTOR SHALL INSTALL MAINLINE, CONTROL WIRES, AND LATERAL LINES IN SEPARATE SLEEVES.



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 CENTENNIAL, CO 80112

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 Windsor, CO 80550
 970.402.3047
 Michelle@MPiDesignsllc.com

Engineering

 10333 E. DRY CREEK RD. #240
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 PRELIMINARY IRRIGATION PLANS
 PARKER, COLORADO

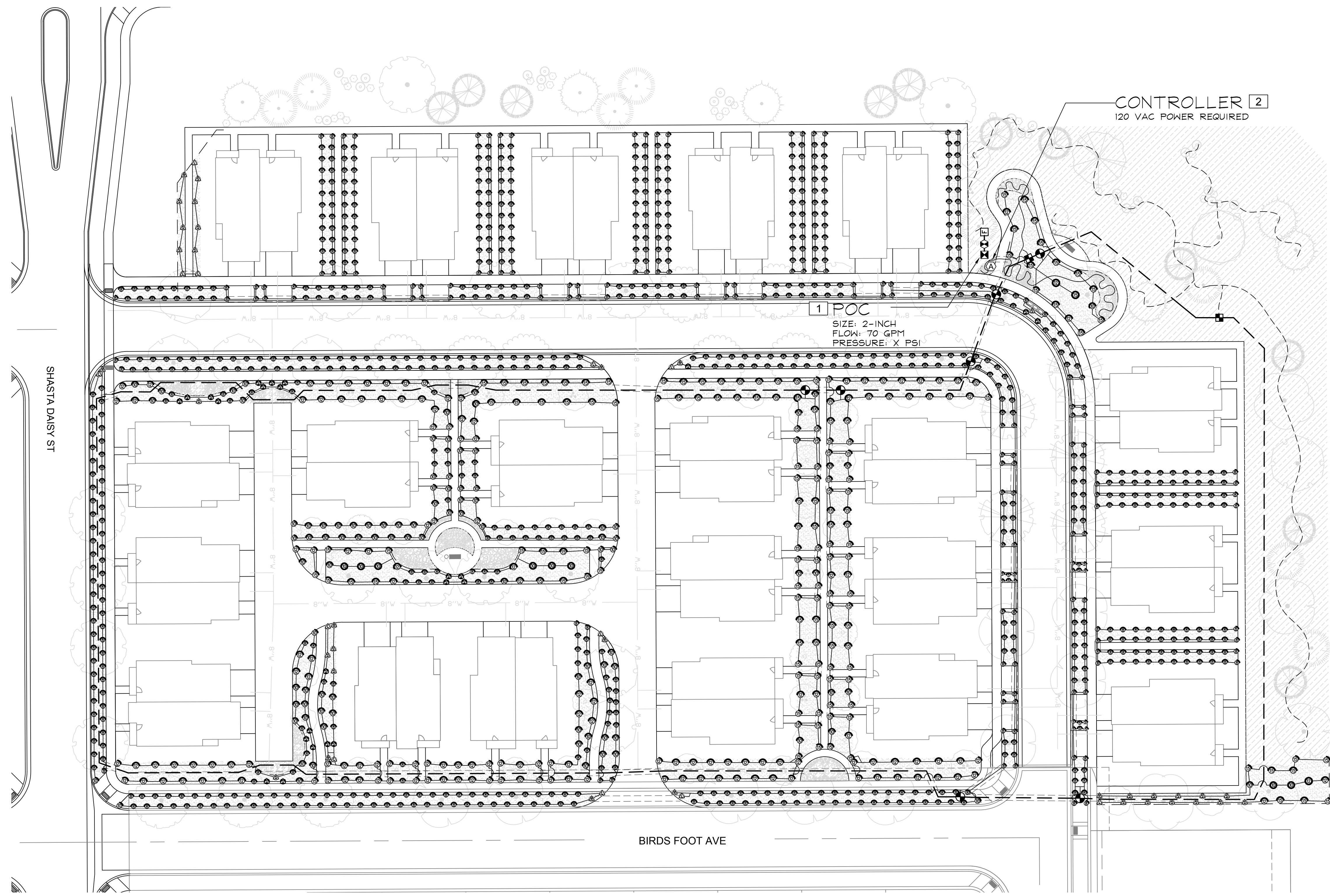
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Sheet Name
 IRRIGATION LEGEND AND NOTES

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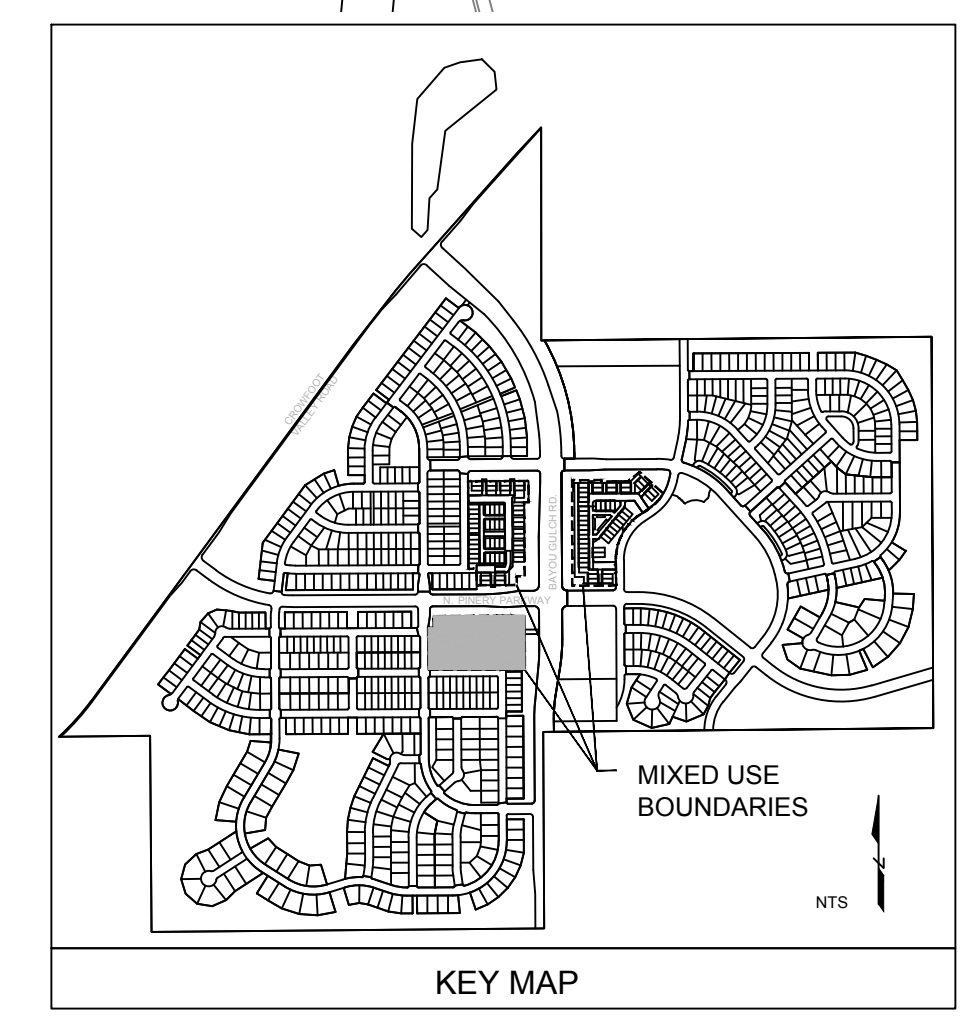
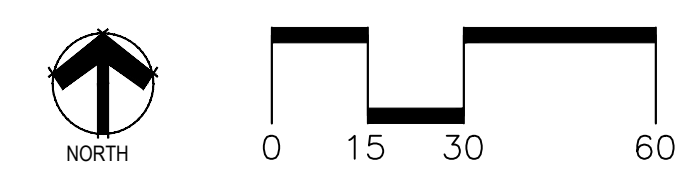
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TRAILING - June 19, 2018



CONTROLLER 2
120 VAC POWER REQUIRED

1 POC
SIZE: 2-INCH
FLOW: 70 GPM
PRESSURE: X PSI

**PRELIMINARY NOT FOR
BIDDING OR CONSTRUCTION**



■ Prepared For ■
 EXX MANAGEMENT
 7353 SOUTH ALTON WAY
 CENTENNIAL, CO 80112

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 PRELIMINARY IRRIGATION PLANS
 PARKER, COLORADO

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■ Sheet Name ■
 IRRIGATION PLAN

■ Sheet Number ■
 IR1.1