TIMBERLAND MIDDLE SCHOOL PARKING EXPANSION



PROJECT TEAM

OWNER

BEAVERTON SCHOOL DISTRICT ATTN: SCOTT JOHNSON 16550 SW MERLO ROAD BEAVERTON, OR 97006 PHONE: 503-356-4552

CIVIL ENGINEER

CARDNO ATTN: MATT LEWIS, PE 6720 SW MACADAM AVE, SUITE 200 PORTLAND, OR 97219 PHONE: 503-419-2500

LANDSCAPE ARCHITECT

CARDNO ATTN: BECKY STRICKLER, PLA 6720 SW MACADAM AVE, SUITE 200 PORTLAND, OR 97219 PHONE: 503-419-2500

PLANNER

ANGELO PLANNING GROUP ATTN: FRANK ANGELO 921 SW WASHINGTON STREET, STE 468 PORTLAND, OR 97205 PHONE: 503-227-3664

ELECTRICAL ENGINEER

INTERFACE ENGINEERING ATTN: DAVID CHESLEY 708 SW THIRD AVENUE, STE 400 PORTLAND, OR 97204 PHONE: 503-382-2685

PREPARED FOR: **BEAVERTON SCHOOL DISTRICT**

BEAVERTON, OREGON





SITE INFORMATION

650 NW 118TH AVE., PORTLAND, OR 97229 LOCATED AT THE NORTHEAST CORNER OF NW 118TH AVENUE AND NW STONE MOUNTAIN LANE. TAX LOT: 1N1 34 CA - 900

BENCHMARK/BASIS OF BEARING

THE ELEVATIONS ARE BASED ON A RIM OF A CATCH BASIN ALONG NW STONE MOUNTAIN LANE, ELEVATION = 287.77, AS SHOWN ON THE SURVEY BY HAGEDOWN, INC., DATED FEBRUARY 21, 2011.

UNDERGROUND ACCURACY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH WE CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. DUE TO THE HAZARDOUS NATURE AND APPLICABLE OSHA REQUIREMENTS REGARDING CONFINED SPACES, IT IS CARDNO POLICY TO NOT SEND FIELD STAFF INTO UTILITY MANHOLES TO RETRIEVE DEPTH AND SIZE INFORMATION. INFORMATION SHOWN HEREON IS SUBJECT TO AN UNCERTAINTY IN ACCURACY DEPENDING ON DEPTH, SIZE, FLOW, AND CONSTRUCTION OF MANHOLES. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITY LINES.

OREGON UTILITY NOTIFICATION CENTER 1-800-332-2344



SHEET INDEX

COVER SHEET
GENERAL NOTES
EXISTING CONDITIONS
DEMOLITION PLAN
SITE PLAN
GRADING PLAN
COMPOSITE UTILITY PLAN
SITE DETAILS
STORM DETAILS
PLANTING PLAN
PLANTING DETAILS & NOTES
IRRIGATION PLAN
IRRIGATION DETAILS AND NOTES
COVER SHEET - LIGHTING
SITE PLAN - LIGHTING
LIGHTING PHOTOMETRICS
EXISTING EROSION CONTROL PLA

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LAND USE # ADJ2018-007 / DR2018-015*

	BEAVERTON	SCHOOL DISTRICT	
COVER SHEFT	TIMBERLAND MS PARKING EXPANSION	BEAVERTON SCHOOL DISTRICT	BEAVERTON, OR
	Cardno	PORTLAND 6720 SW MACADAM AVE, STE 200, PORTLAND, OR 97219 TEL (603) 410 - 2500 - EAY (503) 410 - 2500 - MAN CARDA COM	1 LL. (000) 7 10 - 2000 1 70. (000) 7 10 - 2000 WWW.Caluito.com
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STORM DRAINAGE CONSTRUCTION NOTES

- ALL STORM SEWER CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS AND THE APPLICABLE REQUIREMENTS OF THE UNIFORM PLUMBING CODE, AND THE APPLICABLE REQUIREMENTS OF THE CITY OF PORTLAND.
- NO DRAINAGE PIPING OR PART THEREOF, WHICH IS CONSTRUCTED OF MATERIALS OTHER THAN THOSE APPROVED FOR USE UNDER OR WITHIN A BUILDING, SHALL BE INSTALLED UNDER OR WITHIN FIVE (5) FEET OF ANY BUILDING OR STRUCTURE, OR PART THEREOF, NO LESS THAN ONE (1) FOOT BELOW THE SURFACE OF THE GROUND. (EXCEPT IN AREAS WHERE DIP IS SPECIFIED). THIS INCLUDES STRUCTURES SUCH AS PORCHES AND STEPS. WHETHER COVERED OR UNCOVERED. BREEZEWAYS, ROOFED PORTE-COACHERES, ROOFED PATIOS, CARPORTS, COVERED WALKS, COVERED DRIVEWAYS, AND SIMILAR STRUCTURES OR APPURTENANCES.
- LOCATION OF EXISTING UTILITIES ARE BASED ON AVAILABLE INFORMATION. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS. CALL FOR LOCATES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL AT ALL TIMES ABIDE BY APPLICABLE SAFETY RULES OF O.S.H.A. AND IN PARTICULAR THOSE PERTAINING TO ADEQUATE SHORING AND TRENCH PROTECTION OF WORKMEN.
- RIM ELEVATIONS OF MANHOLES AND CLEANOUTS WITHIN PAVEMENT ARE APPROXIMATE, FINAL FINISHED RIM ELEVATIONS SHALL MATCH FINISHED PAVEMENT GRADES.
- ALL TRENCHES PARALLEL TO THE BUILDING SHALL BE KEPT OUT OF THE ANGLE OF REPOSE FOR THE BUILDING FOOTING.
- 7. CHANGES IN DIRECTION OF DRAINAGE PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED FITTINGS AND SHALL BE OF THE ANGLES PRESENTED BY ONE-SIXTEENTH BEND, ONE-EIGHTH BEND, ONE-SIXTH BEND OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP.
- 8. INLET AND OUTLET CONNECTIONS SHALL BE MADE BY THE USE OF A FLEXIBLE COMPRESSION JOINT NO CLOSER THAN 12" AND NO FARTHER THAN 36" FROM THE MANHOLE. NO FLEXIBLE COMPRESSION JOINT SHALL BE EMBEDDED IN THE MANHOLE BASE. MANHOLES SHALL HAVE A SMOOTH, UNIFORM WATERWAY WITH CHANGES OF DIRECTION MADE WITH THE APPROPRIATE SWEEP OFFSET AS PER THE OREGON PLUMBING SPECIALTY CODE. OPEN-GRATE LIDS WILL NOT BE ALLOWED ON ANY MANHOLE.

GENERAL DEMOLITION NOTES

- NOTIFY ENGINEER FIVE (5) BUSINESS DAYS BEFORE COMMENCEMENT OF WORK.
- LOCATION OF EXISTING UTILITIES ARE BASED UPON AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS. CALL FOR LOCATES AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF GRADING (1-800-332-2344).
- THE CONTRACTOR SHALL AT ALL TIMES ABIDE BY APPLICABLE SAFETY RULES OF OSHA.
- THE CONTRACTOR SHALL AT ALL TIMES ABIDE BY ALL APPROPRIATE CODES, LAWS AND REGULATIONS THAT GOVERN CONSTRUCTION WITHIN THE CITY OF BEAVERTON.
- 5. THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY SURVEY MONUMENTS THAT ARE DISTURBED DUE TO CONSTRUCTION.
- ALL CONSTRUCTION SHALL CONFORM TO CONSTRUCTION DOCUMENTS AND PROJECT SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR INSPECTION AND TESTING.
- THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTION DEPARTMENT 24 HOURS PRIOR TO CONSTRUCTION. CONCEALED CONSTRUCTION WITHOUT THE REQUIRED EXPOSURE SHALL BE SUBJECT TO INSPECTION AT THE CONTRACTOR'S EXPENSE.
- SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND WHAT IS REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON GRADED SLOPES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.
- 10. DEMOLISH/REMOVAL NOT SPECIFICALLY LISTED, BUT REQUIRED TO COMPLETE SITE/UTILITY AND GRADING PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ALL CONSTRUCTION DEBRIS TO BE REMOVED FROM SITE AND RECYCLED/DISPOSED OF ACCORDING TO LOCAL REGULATIONS.

GENERAL CONSTRUCTION NOTES

- 1. REQUIRED.
- PROVIDER.
- WORK FOLLOWING A SATURDAY, SUNDAY, OR HOLIDAY.
- 6 RECORD DRAWINGS SUBMITTED TO THE CITY IN COMPLIANCE WITH THE DIGITAL MAPPING REQUIREMENTS.
- REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
- THE CONTRACTOR'S "REDLINE DRAWINGS").
- CONTROL NOTES AND PLAN.
- LESSER AMOUNT BY PERMIT. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 11. CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- SHALL BE REQUIRED TO MAINTAIN REPAIRED AREAS UNTIL CITY FINAL ACCEPTANCE IS GRANTED.
- CONDITIONS BEFORE THE START OF WORK.
- CODES, REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- 15 ACCEPTING THE POSITION AS PROJECT ENGINEER.
- EXCAVATORS MUST COMPLY WITH THE PROVISIONS OF ORA 757.541 THRU 757.571.

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. A CITY BUSINESS LICENSE IS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION. THE LOCATIONS, DEPTH, AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. OREGON LAW REQUIRES THAT THE RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER BE FOLLOWED. THOSE RULES ARE SET FORTH IN OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER OR ACCESSING VIA INTERNET AT WWW.STATE.OR.US/GOVERNME.HTM CALL BEFORE YOU DIG - PORTLAND METRO AREA 503-246-6699.

THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY

ALL WATERLINE CROSSINGS SHALL BE IN CONFORMANCE WITH OAR CHAPTER 333. THE CITY MAY REQUIRE MORE STRINGENT STANDARDS. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND CITY OF PORTLAND ENGINEERING STAFF 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF

CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS.

THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT "REDLINE DRAWINGS" TO PROJECT ENGINEER FOR PREPARATION OF RECORD DRAWINGS. "REDLINE DRAWINGS" DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS; THEY ALSO RECORD A DESCRIPTION OF CONSTRUCTION MATERIALS ACTUALLY USED (PIPE MATERIAL, ETC.). FROM THE INFORMATION CONTAINED FROM THESE REDLINE DRAWINGS, AS WELL AS ANY NOTES RECORDED BY THE PROJECT ENGINEER, THE PROJECT ENGINEER SHALL PREPARE AND SUBMIT RECORD DRAWINGS (ON 4 MIL MYLAR). RECORD DRAWINGS ARE REQUIRED FOR ANY PUBLIC IMPROVEMENTS, AS WELL AS FOR ANY (PUBLIC OR PRIVATE) STORM WATER QUANTITY OR QUALITY CONTROL FACILITY. CITY ACCEPTANCE OF ANY PUBLIC IMPROVEMENTS ARE TIED TO THE SUBMITTAL OF THESE RECORD DRAWINGS. CAD GENERATED PLANS SHALL ALSO HAVE ELECTRONIC

CONTRACTOR SHALL ERECT AND MAINTAIN TRAFFIC CONTROL PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART VI, CONSTRUCTION AND MAINTENANCE, AS ADOPTED AND MODIFIED BY ODOT. SHOULD WORK BE IN AN EXISTING PUBLIC RIGHT OF WAY THAT ARE OPEN TO TRAFFIC, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE CITY, COUNTY, STATE, AND PORT PERSONNEL FOR APPROVAL. APPROVALS SHALL BE OBTAINED PRIOR TO START OF WORK. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY

THERE SHALL BE NO ALTERATION OR VARIANCE FROM THE APPROVED PLANS. THE MINIMUM SUBMITTAL REQUIREMENTS FOR PLAN REVISIONS ARE AS FOLLOWS; PLAN REVISIONS SHALL BE SUBMITTED ON AN 8 1/2" X 11" SHEET (MINIMUM), PLAN REVISION SHALL BE WET STAMPED AND SIGNED BY PROJECT ENGINEER, ANY REQUIRED ENGINEERING CALCULATIONS, OR OTHER AGENCY APPROVALS, SHALL BE INCLUDED WITH THE SUBMITTAL REVISION. UPON APPROVAL OF THE SUBMITTED REVISIONS, THE CITY ENGINEER SHALL AFFIX AN APPROVED STAMP TO THE REVISED PLAN SKETCH AND THE PLAN SHALL BE RETURNED TO THE PROJECT ENGINEER. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER TO DISTRIBUTE THE APPROVED PLAN REVISION TO ALL PARTIES TO WHOM THE ORIGINAL APPROVED PLANS WERE ISSUED. ALL APPROVED REVISION SHALL BE AFFIXED TO THE CONSTRUCTION FIELD PRINTS (ALSO KNOWN AS

CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT LIMIT TO, GRADING, DITCHING, HAY BALES, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. SEE EROSION AND SEDIMENT

10. OPEN TRENCHES SHALL BE STRICTLY LIMITED TO A MAXIMUM OF 100 LINEAR FEET WITHIN STREET RIGHT-OF-WAY UNLESS LIMITED TO A

12. ANY PAVEMENT DISTORTION CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE TEMPORARILY REPAIRED SAME DAY OF OCCURRENCE (OR IN A TIME PERIOD AGREED TO WITH THE CITY INSPECTOR), USING COLD OR HOT AC MIX. OWNER/CONTRACTOR

13. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL DIRECT THE CONTRACTOR TO TAKE MEASURES TO ENSURE THAT WATER IS NOT CONVEYED THROUGH THE UTILITY TRENCHES AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE. THE PROJECT ENGINEER SHALL SUBMIT A REPORT SUMMARIZING THE FINDING TO THE CITY. IMPACTS AND MITIGATION SHALL BE ADDRESSED FOR THE CITY APPROVAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY, PORT OF PORTLAND, OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE

PROJECT PLANS SHALL ALWAYS HAVE AN ENGINEER OF RECORD PERFORMING THE FUNCTION OF PROJECT ENGINEER. IF THE PROJECT ENGINEER IS CHANGED DURING THE COURSE OF THE WORK. THE CITY SHALL BE NOTIFIED IN WRITING AND THE WORK SHALL BE STOPPED UNTIL REPLACEMENT ENGINEER HAS AGREED TO ACCEPT THE RESPONSIBILITY OF THE PROJECT ENGINEER. THE NEW PROJECT ENGINEER SHALL PROVIDE WRITTEN NOTICE OF ACCEPTING PROJECT RESPONSIBILITY TO THE CITY WITHIN 72 HOURS OF

16. THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY SURVEY MONUMENTS THAT ARE DISTURBED DUE TO CONSTRUCTION.

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LAND USE # ADJ2018-007 / DR2018-0151







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OREGON UTILITY NOTIFICATION CENTER 1-800-332-2344



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AVERTON HOOL DISTRICT **BE** sch ... **EXPANSION RKING DISTRIC** \triangleleft Ο S ÕH \geq SC AND BEAVERTON, OR BEAVERTON, OR TIMBERL PLAN ΟΤΙLITY PORTL 6720 SW N 78628PE Matt Lewie Digital 2019.01.14 Signature GREGON 6:58-C EXPIRES: 12/31/2020 01/04/2019 DATE DRAWN SPC/KNY DESIGNED SPC/KNY CHECKED | MCL PROJECT # 21813760 SHEET TITLE UTILITY PLAN SHEET NUMBER C400

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VALK.	9	PRESERVE AND PROTECT IN PLACE IRRIGATION VALVES FOR FIELDS.
	10	PRESERVE AND PROTECT IN PLACE QUICK COUPLER VALVES .
	11	REMOVE EXISTING PERFORATED STORM PIPE WITHIN LIMIT OF CONSTRUCTION AND DISPOSE OFFSITE.
C	12	REMOVE EXISTING FENCE.
3	13	PRESERVE AND PROTECT EXISTING LIGHT POLE AND FIXTURE.





THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITY LINES.

LAND USE # ADJ2018-007 / DR2018-0151

	CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION / SEDIMENTATION CONTROL DURING CONSTRUCTION (ANY TIME OF THE PER THE "EROSION PREVENTION AND SEDIMENT	
	DESIGN AND CONSTRUCTION STANDARDS, R&O 07-20, CHAPTER 6.	T POINT
•	APPROVAL OF THIS EROSION / SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)	ENSTING PAVENEN ACCESS
	THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF	RADIUS = 25' MIN.
	BEAVERTON AND VEGETATION / LANDSCAPING IS ESTABLISHED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE OF ESC AFTER THE PROJECT IS APPROVED AND UNTIL THE LOTS ARE SOLD.	CLEAN PIT RUN OR 3"- 6" CLEAN ROCK SUBGRADE REINFORCEMENT GEOTEXTILE AS REOLIDED
	THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT / CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.	*20' MIN. FO
	THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.	
	THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.	NOTES: 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION
7 .	THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT / CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.	SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MA OUT OF ANY MEASURES USED TO TRAP SEDIMENT. 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED I 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP 4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WAT
3.	THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.	ENTRANCE, OTHER MEASURES SHALL BE IMPLEMEN FILTERING SYSTEM. 5. <u>DIMENSIONS</u> <u>SINGLE FAMILY</u>
·•	REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT AND AT COMPLETION OF PROJECT.	20' LONG BY 20' WIDE 8" DEEP OF ¾" MIN <u>COMMERCIAL</u> 50' LONG BY 20' WIDE 3-6" CLEAN ROCK, GOVERNING AUTHORITY MAY REQUIRE GEOTEX' PREVENT SUB-SOIL PUMPING.
0.	STABILIZED GRAVEL 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.	CONSTRUCTION ENT
11.	STORM DRAIN INLETS, BASINS AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND / OR VEGETATION IS RE-ESTABLISHED.	Detail Drawing 855
2.	PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.	
3.	SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1ST FOR EACH PHASE OF CONSTRUCTION.	
•	IF THERE ARE EXPOSED SOILS, OR SOILS ARE NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH MAY 31ST, THE WET WEATHER EROSION CONTROL MEASURES WILL BE IN EFFECT. SEE CHAPTER 6 OF THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR REQUIREMENTS.	NOTES:
5.		1. WHEN RAINFALL AND RUNOFF OCCURS, A KNOWLEDGEABLE AN INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT
	ESC MEASURES SHALL BE REMOVED BY THE DEVELOPER / OWNER WHEN VEGETATION IS FULLY ESTABLISHED.	INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND I 2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVAT
	ESC MEASURES SHALL BE REMOVED BY THE DEVELOPER / OWNER WHEN VEGETATION IS FULLY ESTABLISHED. NOTIFY CITY OF BEAVERTON CONSTRUCTION INSPECTOR 24 HOURS PRIOR TO ANY WORK ON THIS SITE.	 INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND I CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVAT MAY 31ST EACH YEAR. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED OF TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE I
5.	ESC MEASURES SHALL BE REMOVED BY THE DEVELOPER / OWNER WHEN VEGETATION IS FULLY ESTABLISHED. NOTIFY CITY OF BEAVERTON CONSTRUCTION INSPECTOR 24 HOURS PRIOR TO ANY WORK ON THIS SITE.	 INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVA MAY 31ST EACH YEAR. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED O TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE EXPOSED SOIL IS ESTABLISHED. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABIL DASING
6.	ESC MEASURES SHALL BE REMOVED BY THE DEVELOPER / OWNER WHEN VEGETATION IS FULLY ESTABLISHED. NOTIFY CITY OF BEAVERTON CONSTRUCTION INSPECTOR 24 HOURS PRIOR TO ANY WORK ON THIS SITE.	 INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVA MAY 31ST EACH YEAR. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED O TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE I EXPOSED SOIL IS ESTABLISHED. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLEI OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABI BASINS. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE SITE M SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF T
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PARTMENT OF STATE LANDS REQUIRED TIME FRAME. SHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3-RD THE

L MEASURES REMOVAL. MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50%

ATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL. ZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY STANCES DISCOVERED OR GENERATED DURING CONSTRUCTION. TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. RFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND ERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.

ESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND ANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE. AND FEDERAL

THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE RLY DELINEATED IN THE FIELD. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS E OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE E DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL. THE BMPS THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE,

PROTECTION. THESE BMPS MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT. EDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES E PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER. NSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT

ED LOCATION USING APPROPRIATE BMPS; SOIL MUST BE DRAINED SUFFICIENTLY FOR

IUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND

ASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES. E THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE HALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS. AINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST. PRIATE BMPS MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER R OTHER APPROVED MEASURES. NG WET WEATHER PERIOD. SION CONTROL





CONCRETE WASHOUT PIT AREA WITH SIGN. SIGN TO BE POSTED AT ALL TIMES.

DUMP STRAP

1" REBAR FOR BAG REMOVAL FROM INLET

NOTES:

- 1. WASHOUT AREA TO CONTAIN A MINIMUM OF 3 CY (IE 9' BY 9' BY 1' DEEP). 2. REMOVE AND LEGALLY DISPOSE OF WASTE MATERIAL WHEN IT ACCUMULATES TO 2/3
- OF WET STORAGE CAPACITY. 3. CONCRETE WASHOUT AREA TO BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY.
- 4. UPON COMPLETION OF CONSTRUCTION ACTIVITIES REQUIRING CONCRETE WASHOUT, REMOVE WASHOUT AND RESTORE THE AREA TO FINISH GRADE.









NOTES:

BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.

2"x 2" FIR, PINE OR STEEL FENCE POSTS. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.

COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.

PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940

SEDIMENTATION FENCING SCALE: NOT TO SCALE

FLOW

JOINTS

NOTES: 1.1. 1.2.



LAND USE # ADJ2018-007 / DR2018-0151

OR

BEAVERTON









	SIZE	QTY.	COMMENTS
NA 'JUNGINGER' ASH	2-1/2" CAL. B&B	9 AS SHOWN	REFER TO DETAIL 3 / SHEET L101 MATURE: 45' HT. / 40' WD.
'GREEN VASE' (OVA	2-1/2" CAL. B&B	9 AS SHOWN	REFER TO DETAIL 3 & 4/ SHEET L101 MATURE: 45' HT. / 30' WD. FALL: ORANGE
	SIZE	QTY.	COMMENTS
ECUROIDES 'HAMEL GRASS	LN' 1 GAL. 2' O.C.	103	REFER TO DETAIL 1 & 2 / SHEET L101 MATURE: 2-3' HT. / 1-2' WD. FULL SUN / HERBACEOUS
RASUS 'OTTO LUYKI GLISH LAUREL	EN' 5 GAL. 6' O.C.	47	REFER TO DETAIL 1 & 2 / SHEET L101 MATURE: 3' HT. / 6' WD. SUN TO PART SHADE / EVERGREEN
	SIZE	QTY.	COMMENTS
<i>IMERI 'LOWFAST'</i> NEASTER	3 GAL. 3' O.C.	651 SF 84 PLANTS	REFER TO DETAIL 1 & 2 / SHEET L101 MATURE: 1-2' HT. / 6' WD.
MIX DS	SEED 8 LBS. / 1,000 SF	3,865 SF 31 LBS.	30% PERENNIAL RYEGRASSES 50% FINE FESCUES
	3" DEEP	32 CY	REFER TO NOTES ON SHEET L101



TOPSOIL NOTES:

- 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ALTERNATE NUMBER IN THE BASE BID TO FURNISH AND INSTALL AMENDED TOPSOIL IN ALL LANDSCAPE BEDS AND SEEDED AREAS AS SPECIFIED BELOW UNLESS OTHERWISE NOTED. AMENDED TOPSOIL SHALL INCLUDE ALL NECESSARY FERTILIZERS, ORGANIC AND INORGANIC AMENDMENTS, BASED ON INDUSTRY STANDARDS FOR EXCEPTIONAL PLANT DEVELOPMENT.
- SCARIFY ALL PLANTING AREA SUBGRADE TO A DEPTH OF 6". INSTALL & TILL IN 2" LAYER OF AMENDED TOPSOIL INTO SCARIFIED SUBGRADE AND RE-COMPACT TO 95%. PROVIDE MIN. 12" DEPTH AMENDED TOPSOIL TO ALL PLANTING AREAS.
- PROVIDE MIN. 18" DEPTH AMENDED TOPSOIL TO ALL PLANTER ISLANDS PLUS MOUNDING REQUIREMENT.
- 2. UPON BEING AWARDED THE CONTRACT, THE GENERAL CONTRACTOR SHALL COORDINATE WITH A STATE LICENSED SOIL LABORATORY AND THE LANDSCAPE ARCHITECT, TO DETERMINE THE SUITABILITY AND AVAILABILITY OF THE EXISTING SITE TOPSOIL. THE CONTRACTOR SHALL SEND THE TOPSOIL TO A SOIL LABORATORY FOR ANALYSIS STATING THAT THE TOPSOIL BE ANALYZED FOR A LANDSCAPE CROP. AFTER RECEIVING RECOMMENDATIONS FROM THE SOILS EXPERT FORWARD A COPY TO THE OWNERS REPRESENTATIVE AT WHICH TIME A DECISION WILL BE MADE BY THE OWNER AS TO WHETHER OR NOT THE EXISTING ON-SITE STOCKPILE WILL BE USED FOR THE PROJECT.
- 3. IF THE EXISTING TOPSOIL IS TO BE USED THE CONTRACTOR SHALL ADD THE RECOMMENDED AMENDMENTS AND FERTILIZERS AS STATED IN THE SOILS ANALYSIS ALONG WITH ADDITIONAL AMENDMENTS AND FERTILIZERS LISTED IN NOTE #6 AND #7 BELOW.
- 4. IN THE EVENT THE EXISTING ON-SITE TOPSOIL IS OF POOR QUALITY (AS DETERMINED BY THE SOIL ANALYSIS) OR IS UNAVAILABLE FOR USE, THE OWNER'S REPRESENTATIVE WILL MAKE A DECISION AS TO WHETHER OR NOT THE NUMBER FOR IMPORTING 9" OF AMENDED IMPORTED TOPSOIL WILL BE ADDED TO THE SIGNED CONTRACT AGREEMENT.
- 5. IF AMENDED IMPORTED TOPSOIL IS TO BE USED, THE GENERAL CONTRACTOR WILL BE NOTIFIED IN WRITING BY THE OWNER'S REPRESENTATIVE AND THE CONTRACT MODIFIED ACCORDINGLY, TOPSOIL SHALL BE OBTAINED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP. DO NOT OBTAIN FROM BOGS OR MARSHES. IMPORTED TOPSOIL TO COMPLY WITH ASTM D 5268. WITH A PH RANGE OF 5.5 TO 7.0, FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION, AND ANY OTHER EXTRANEOUS MATERIALS (ROCKS, STICKS, RUBBISH, SOD) HARMFUL TO PLANT GROWTH. AN ADDITIONAL SOILS ANALYSIS WILL BE REQUIRED FOR THE IMPORTED TOPSOIL
- AMENDED IMPORTED TOPSOIL SHALL INCLUDE ALL NECESSARY FERTILIZER AND AMENDMENTS PER THE SOIL ANALYSIS RECOMMENDATIONS. TOPSOIL ANALYSIS SHALL STATE ORGANIC MATTER, INORGANIC MATTER (SILT, CLAY AND SAND), DELETERIOUS MATERIAL, PH, MINERAL AND PLANT-NUTRIENT CONTENT. IN ADDITION THE REPORT SHALL ALSO STATE RECOMMENDED QUANTITIES (BY PERCENTAGE OF WEIGHT "I.E. 2 LBS OF 15-15-15 PER 1000SF) OF NITROGEN, PHOSPHORUS AND POTASH, NUTRIENTS AND ANY LIMESTONE, ALUMINUM SULFATE, OR OTHER SOIL AMENDMENTS TO BE ADDED TO PRODUCE A SATISFACTORY AMENDED TOPSOIL. FURNISH REPORT AND RECOMMENDATIONS TO LANDSCAPE ARCHITECT FOR REVIEW AND WRITTEN APPROVAL 30 DAYS PRIOR TO MOBILIZATION.
- 7. IN ADDITION TO THE SOILS ANALYSIS RECOMMENDATIONS THE LANDSCAPE CONTRACTOR SHALL ADD 1 PART (2 " LAYER) OF APPROVED HUMUS MATERIAL TO 2 PARTS AMENDED TOPSOIL. SUBMIT CUT SHEET OF HUMUS MATERIAL (CERTIFIED FINE COMPOSTED YARD DEBRIS) TO LANDSCAPE ARCHITECT FOR REVIEW AND WRITTEN APPROVAL PRIOR TO MIXING.
- PRIOR TO PLACEMENT OF TOPSOIL SCARIFY AND LOOSEN SUBGRADE OF PLANTING BED AREA TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES LARGER THAN 1" IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATERIALS. REMOVE WEEDS FROM EXISTING SUBGRADE AND TREAT WITH NECESSARY HERBICIDE TO PREVENT WEED GROWTH. SPREAD HALF OF THE AMENDED TOPSOIL MIXTURE AND WORK INTO TOP OF LOOSEN SUBGRADE TO CREATE A TRANSITION LAYER. PLACE REMAINING HALF OF THE PLANTING SOIL MIXTURE TO THE DEPTH REQUIRED TO MEET THICKNESS, GRADES AND ELEVATIONS SHOWN, AFTER LIGHT ROLLING AND NATURAL SETTLEMENT.
- 9. WITHIN TREE WELLS & PLANTER ISLANDS, REMOVE EXISTING SOIL AND OTHER DEBRIS, TO A MINIMUM DEPTH OF 18" AND REPLACE WITH AMENDED TOPSOIL. ADD ADDITIONAL SOIL AS REQUIRED PER DETAILS AND NOTES.
- 10. THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT, SHIPPING TICKETS FOR IMPORTED TOP SOIL AND HUMUS MATERIAL, 60 DAYS PRIOR TO INSTALLATION FOR REVIEW AND WRITTEN APPROVAL

TOPSOIL NOTES

- SHOWN.

- HOT WEATHER: GREATER THAN 90 DEGREES FAHRENHEIT R WET WEATHER: SATURATED SOIL С WINDY WEATHER: WIND VELOCITIES GREATER THAN 20 M.P.H. D.
- IRRIGATION SYSTEM.



GENERAL PLANTING PLAN NOTES:

1. ALL CEMENT TREATED LANDSCAPE AREAS SHALL BE EXCAVATED A MINIMUM OF 6" BELOW BOTTOM OF TREAT AREA AND REMOVED FROM THE SITE. BACKFILL WITH TOPSOIL TO ORIGINAL GRADE PRIOR TO ADDING THE SPECIFIED AMENDED SOIL PER THE PLANS.

2. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION, TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.

4. CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS AND INCONSISTENCIES WITH PLANS TO THE LANDSCAPE ARCHITECT.

5. ALL PLANT MASSES TO BE CONTAINED WITHIN A 3" LAYER OF BARK MULCH BED, UNLESS NOTED OTHERWISE.

6. BED EDGE TO BE NO LESS THAN 12" AND NO MORE THAN 18" FROM OUTER EDGE OF PLANT MATERIAL BRANCHING. WHERE GROUND-COVER OCCURS, PLANT TO LIMITS OF AREA AS

7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS.

8. CONTRACTOR TO FINE GRADE AND ROCK-HOUND ALL PLANTING AREAS PRIOR TO PLANTING, TO PROVIDE A SMOOTH AND CONTINUAL SURFACE, FREE OF IRREGULARITIES (BUMPS OR DEPRESSIONS) & EXTRANEOUS MATERIAL OR DEBRIS.

QUANTITIES ARE INTENDED TO ASSIST CONTRACTOR IN EVALUATING THEIR OWN TAKE OFFS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BID QUANTITIES AS INDICATED ON THE PLANS. IF THERE IS A DISCREPANCY BETWEEN THE NUMBER IN THE PLANT LEGEND AND THE QUANTITY OF GRAPHIC SYMBOLS SHOWN, THE GRAPHIC SYMBOL QUANTITY SHALL GOVERN.

10. COORDINATE PLANTING INSTALLATION WITH INSTALLATION OF UNDERGROUND SPRINKLER AND DRAINAGE SYSTEMS.

11. CONTRACTOR SHALL NOT REMOVE ANY TREES DURING CONSTRUCTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT. EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AS DIRECTED BY THE LANDSCAPE ARCHITECT.

12. WHERE PROPOSED TREE LOCATIONS OCCUR UNDER EXISTING OVERHEAD UTILITIES OR CROWD EXISTING TREES, NOTIFY LANDSCAPE ARCHITECT TO ADJUST TREE LOCATIONS.

13. LANDSCAPE MAINTENANCE PERIOD BEGINS IMMEDIATELY AFTER THE COMPLETION OF ALL PLANTING OPERATIONS AND ACKNOWLEDGEMENT THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED BY THE CONTRACTOR. MAINTAIN TREES, SHRUBS, LAWNS AND OTHER PLANTS UNTIL FINAL ACCEPTANCE OR 90 DAYS AFTER NOTIFICATION AND ACCEPTANCE, WHICHEVER IS LONGER. WARRANTY ALL PLANTING FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.

14. REMOVE EXISTING WEEDS FROM PROJECT SITE PRIOR TO THE ADDITION OF ORGANIC AMENDMENTS AND FERTILIZER.

15. BACKFILL MATERIAL FOR TREE AND SHRUB PLANTING SHALL CONTAIN: ONE PART FINE GRADE COMPOST TO FOUR PARTS TOPSOIL BY VOLUME. INCORPORATE ANY SLOW RELEASE FERTILIZERS AND AMENDMENTS PER SOIL LAB ANALYSIS RECOMMENDATIONS.

16. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PLANT MATERIAL SUBSTITUTIONS FROM THE LANDSCAPE ARCHITECT 90 DAYS PRIOR TO INSTALLATION. PLANT SUBSTITUTIONS WITHOUT PRIOR WRITTEN APPROVAL THAT DO NOT COMPLY WITH THE DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT AT NO COST TO THE OWNER. THESE ITEMS MAY BE REQUIRED TO BE REPLACED WITH PLANT MATERIALS THAT ARE IN COMPLIANCE WITH THE DRAWINGS.

17. CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PLANT MATERIAL IN THE SIZE SPECIFIED ON PLAN PRIOR TO INSTALLATION. IN THE EVENT THE PLANT MATERIAL IS NOT AVAILABLE IN THE SIZE SPECIFIED, THE CONTRACTOR SHALL SUBMIT TO THE OWNERS REPRESENTATIVE, AND THE LANDSCAPE ARCHITECT, A WRITTEN ESTIMATE TO INCREASE PLANT MATERIAL (AND INSTALL) THE NEXT AVAILABLE CONTAINER SIZE PLANT (I.E. 4" POT TO ONE GALLON CONTAINER, 2" CALIPER TREE TO 2.5" CALIPER).

18. CONTRACTOR SHALL BE RESPONSIBLE TO IMPLEMENT BEST MANAGEMENT PRACTICES TO STABILIZE ALL SLOPES 3:1 OR GREATER AND PREVENT EROSION OR MOVEMENT OF SOIL FROM SLOPES. THIS COULD INCLUDE, BUT NOT LIMITED TO, EROSION CONTROL FABRIC. STAKING, NETTING, AND STRAW WATTLES. SUBMIT METHOD OF SLOPE STABILIZATION TO LANDSCAPE ARCHITECT FOR REVIEW AND WRITTEN APPROVAL 30 DAYS PRIOR TO IMPLEMENTATION.

19. PRIOR TO MOBILIZATION THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT, IN WRITING, IF THEY BELIEVE ANY OF THE PLANT MATERIAL IDENTIFIED ON THE PLAN MAY NOT BE SUITABLE FOR THE SITE OR MAY DIE. SUBSTITUTION REQUESTS MAY BE GRANTED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. IF NOTIFICATION IS NOT GIVEN TO THE LANDSCAPE ARCHITECT ALL PLANTING WHICH FAILS TO GROW (EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE AS DETERMINED BY THE OWNER, NEGLECT OR VANDALISM) SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

20. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING, WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, POOR PLANTING SOIL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, PRIOR TO PLANTING.

21. PLANTING RESTRICTIONS - PLANTING IS NOT PERMITTED DURING THE FOLLOWING CONDITIONS, UNLESS OTHERWISE APPROVED IN WRITING:

- A. COLD WEATHER: LESS THAN 32 DEGREES FAHRENHEIT

22. ALL PLANTING AREAS SHALL BE WATERED WITH AN AUTOMATIC UNDERGROUND

23. DO NOT LOCATE TREES IN EASEMENTS.

24. SEE CIVIL PLANS FOR EXISTING TREES TO REMAIN ON SITE.

25. ALL PLANTS MUST COMPLY TO THE AMERICAN STANDARD FOR NURSERY STOCK. THOSE THAT DO NOT WILL BE REJECTED. 2" CALIPER TREES MUST BRANCH AT 6' MIN. HT.

PLANTING GENERAL NOTES



Ω



SYMBOL	NOZZLE & SPRAY BODY	GALLONS PER MINUTE	<u>P.S.I.</u>	RADIUS				
	MP ROTATOR ON PRS40 SPRAY HEAD							
	HUNTER MPLCS515, MPRCS515 ON	LEFT STRIP: IVORY RIGHT STRIP: COPPER = .22	40	5'x15'				
	HUNTER MPSS530	SIDE STRIP: BROWN = 0.38	40	5'x30'				
	HUNTER SHORT RANGE MP800SR-90	90°-210°: ORANGE = 0.49	40	10'	-			
	<u>FIXED SPRAY AND MP ROTATOR NOTE:</u> INSTALL 6" (-06) POP-UP HEADS IN AREAS C INSTALL 12" (-12) POP-UP HEADS IN ALL OTI	OF CAR BUMPER OVERHANGS. HER LANDSCAPE AREAS.			$\overline{\checkmark}$			
0	FIXED BUBBLERS HUNTER BUBBLER MSBN-25F ON PROS-03 \$	SHRUB ADAPTER .25 GPM	30	1.5'	EXISTING IRRIGATION 1			
15	<u>GEAR DRIVEN ROTORS</u> HUNTER I-25-06-SS 50-360° ARC & STAINLE (NOZZLE SET: STANDARD: F=18 H=8 Q=4)	ESS POP-UP F=14.5 H=8.3 Q=4.3	50	F=59' H=49' Q=41'	 FIELD LOCATE ALL E CONFIRM WHAT VAL IRRIGATION FOR FIE 			
۲	ROOT ZONE WATERING SYSTEM HUNTER RZWS-18-50: 18" LENGTH w/ PRE-INSTALLED 0.50 GPM BUBBLER NOZZLE. INSTALL 2 PER TREE AS SHOWN ON PLAN.							
GPM # SZ	SPRAY ZONE FLOW TOTAL IN GALLONS PER SPRAY ZONE NUMBER / VALVE SIZE	R MINUTE			CONTROL WIRES SH LOCATION. 5. EXISTING IRRIGATIO			
$igodoldsymbol{\Theta}$	SPRAY ZONE VALVE - HUNTER 1" VALVE (MODEL: ICV-101G-FS-AS-ADJ) PRESSURE REGULATING ELECTRIC REMOTE CONTROL VALVE. ADJUST PRESSURE REGULATING DIAL AT VALVE TO 50 PSI FOR 40 PSI ZONES ADJUST PRESSURE REGULATING DIAL AT VALVE TO 40 PSI FOR 30 PSI ZONES							
	PIPE, SLEEVING & CHECK VALVE 1" LATERAL - CLASS 200 PVC (0-16 GPI 1-1/2" LATERAL - CLASS 200 PVC (16-30 GF 2" LATERAL - CLASS 200 PVC (30-50 GF 2-1/2" LATERAL - CLASS 200 PVC (50-80 GF	M) PM) PM) PM)						



4

SCALE: NOT TO SCALE

SLEEVE INSTALLATION UNDER PAVING

IRRIGATION TRENCH IN LANDSCAPE BED

3

SCALE: NOT TO SCALE

- CONSTRUCTION.

IRRIGATION NOTES:

1. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLAN OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO

2. CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS OR INCONSISTENCIES WITH PLANS TO LANDSCAPE ARCHITECT.

3. CONTRACTOR SHALL EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.

4. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH INSTALLATION OF LANDSCAPING AND DRAINAGE SYSTEMS. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH OTHER SUBCONTRACTORS FOR INSTALLATION OF UNDERGROUND

5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN

6. ALL PIPE SHALL BE LAID IN OPEN TRENCHES. INSTALL MAINLINE AND LATERALS TO THE DEPTHS SPECIFIED IN DETAILS.

7. ALL EXCAVATION REQUIRED TO OCCUR WITHIN THE DRIPLINE OF ANY EXISTING TREE SHALL BE RESTRICTED TO MANUAL LABOR. THE USE OF TRENCHERS, AUGERS, BACKHOES, TRACTORS, OR ANY OTHER TYPE OF MACHINERY/POWER EQUIPMENT IS PROHIBITED.

8. CONTRACTOR SHALL PROVIDE VALVE OUTPUT LIGHTNING / ELECTRICAL SURGE PROTECTION KITS AND 8' LONG COPPER GROUNDING ROD WITH #10 BARE COPPER WIRE FOR CONTROLLER. ALSO PROVIDE PRIMARY PROTECTION KIT. PROVIDE SURGE PROTECTOR ON EACH LEG OF INCOMING POWER TO GROUNDING ROD.

9. CONTRACTOR SHALL PROVIDE A REPRODUCIBLE AS-BUILT IRRIGATION PLAN. PLAN SHALL BE PREPARED, UPON FINAL ACCEPTANCE OF IRRIGATION INSTALLATION, ON A REPRODUCIBLE SITE PLAN (PROVIDED TO CONTRACTOR BY LANDSCAPE ARCHITECT). AS-BUILT PLAN SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.

10. CONTRACTOR SHALL PLACE A COLOR CODED ZONE MAP OF THE IRRIGATION SYSTEM INSIDE OF IRRIGATION CONTROLLER.

11. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PRODUCT SUBSTITUTIONS BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. PRODUCTS, MANUFACTURERS, AND MODELS NOT IN COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT WITHOUT PRIOR WRITTEN APPROVAL. AT NO COST TO THE OWNER THESE ITEMS MAY BE REQUIRED TO BE REPLACED WITH PRODUCTS THAT ARE IN COMPLIANCE WITH THE MANUFACTURERS AND MODELS ON THE IRRIGATION PLAN.

12. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE AT 65 PSI AFTER THE METER. IF THE PRESSURE IS LESS THAN 60 PSI, OR GREATER THAN 75 PSI, NOTIFY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING, PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE IRRIGATION SYSTEM. A PRESSURE REDUCING VALVE MAY BE NECESSARY FOR PRESSURES ABOVE 75 PSI.

13. CONTRACTOR SHALL INSTALL CHECK VALVES WHEREVER AN ELEVATION DIFFERENCE OF 3 FEET OR GREATER OCCURS WITHIN THE SAME IRRIGATION ZONE.

4 SUBMIT **OPMENT** Ш Ш О SITE



ELECTRICAL SYMBOL LIST

Abbrev	viations	Connec	ctions / Equipment
(E) E	EXISTING	(J) OR J	JUNCTION BOX
(N) I	NEW		
(X) [DEMOLISH	Genera	<u>I</u>
A	AMPERES, AMBER	<u> </u>	DEMOLISH
AFC ,	ABOVE FINISHED CEILING		
AFF /	ABOVE FINISHED FLOOR		EXISTING WORK
BAS	BUILDING AUTOMATION SYSTEM		NEW WORK
C (CONDUIT, CLOSE, CONTROL	X	DETAIL NUMBER AND SHEET LOCATION
CA (CABLE	×	
COORD	COORDINATE		EQUIPMENT IDENTIFICATION
CU	COPPER		KEYED NOTE
DIV	DIVISION		
DN [DOWN	Lighting	<u>g</u>
DTL I	DETAIL	●-□	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE
DWG I	DRAWING		BASE. NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS.
E	EMERGENCY		
EA E	EACH	Miscella	aneous
EMT E	ELECTRICAL METALLIC TUBING	#10 	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO
FMC F	FLEXIBLE METAL CONDUIT	B-27,29,31.	UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS I ONG TICK MARKS INDICATE NEUTRAL
FT F	FOOT, FEET		CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED
G, GND (GROUND		TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
HT I	HEIGHT		
IN I	NCH, INCHES	Racewa	ays
KV I	KILOVOLT		CONDUIT CONCEALED IN WALL OR CEILING SPACE
KVA I	KILOVOLT AMPERES		
KW I	KILOWATT		CONDULT ROUTED BELOW FLOOR / GRADE
LED I	LIGHT EMITTING DIODE	•	CONDUIT ELLED DOWN
LFMC I	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	O	CONDUIT ELLED UP
LV I	LOW VOLTAGE		
MCA I	MINIMUM CIRCUIT AMPS		CONDULT/WIRING CONTINUATION
MIN	MINIMUM	3	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED
MISC	MISCELLANEOUS	20000000	
MOCP	MAXIMUM OVERCURRENT PROTECTION		
MT, MTD	MOUNT, MOUNTED		
N	NEUTRAL		
NEC	NATIONAL ELECTRIC CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS		
	ASSOCIATION		
OC 0	ON CENTER		
PH F	PHASE		
PVC F	POLY-VINYL-CHLORIDE		
PWR	POWER		
QTY (QUANTITY		
RMC F	RIGID METAL CONDUIT		
SHT S	SHEET		
STD S	STANDARD		
TYP	TYPICAL		
UL (UNDERWRITERS LABORATORIES		
UON	UNLESS OTHERWISE NOTED		
V	VOLTS, VOLTAGE		
W/	WITH		
W/O	WITHOUT		
WP	WEATHERPROOF		
XFMR	TRANSFORMER		



MATERIALS, MEANS AND METHODS FOR ELECTRICAL

AS REJECTED.

R

- RACEWAY SYSTEMS.
- CONTRACT.

SECTION - AREA LUMINAIRE STANDARD PEDESTAL ANCHOR BASE FOR POLES UP TO 20 FEET IN HEIGHT

NO SCALE

Section-Area luminaire up to 20'

GENERAL ELECTRICAL NOTES

A. SUBMITTALS: PROVIDE ELECTRONIC FORMAT VIA ZIP FILE VIA E-MAIL. NO MORE THAN ONE PDF PER SPECIFICATION SECTION. HIGHLIGHT PRODUCTS BEING SUBMITTED; UNMARKED CUTSHEETS WILL BE RETURNED

CONTINUITY OF SERVICE: MAINTAIN SERVICE TO EXISTING FACILITIES, INCLUDING TENANTS OUTSIDE OF AREA OF WORK, DURING CONSTRUCTION. WHERE INTERRUPTION IS NECESSARY FOR ADDITION OF NEW ELECTRICAL, SCHEDULE WITH BUILDING OWNER AND AFFECTED TENANTS OUTAGE TIME/DATA AT LEAST ONE WEEK AHEAD OF THE INTERRUPTION. OBTAIN WRITTEN PERMISSION FROM OWNER FOR ANY INTERRUPTION OF POWER, LIGHTING OR SIGNAL CIRCUITS AND SYSTEMS. PROVIDE OVERTIME AS PART OF CONTRACTED WORK TO AVOID INTERRUPTIONS DURING REGULAR BUSINESS HOURS FOR AFFECTED TENANTS.

C. WIRES: COPPER, 600 VOLT THROUGHOUT. 12 AND 10 AWG SOLID OR STRANDED. MINIMUM 90C INSULATION RATING: THWN-2, XHHW-2 OR THHN-2. COLOR CONDUCTORS (208Y/120-VOLT): BLACK FOR PHASE A, RED FOR PHASE B, BLUE FOR PHASE C, WHITE FOR NEUTRAL, GREEN FOR GROUND.

D. CONDUIT USE: SCHEDULE 40 PVC, MINIMUM 0.75-INCH FOR POWER, UNLESS OTHERWISE NOTED.

E. CONNECTORS: WIRE NUTS FOR 12AWG TO 8AWG CONDUCTORS

F. CONNECTOR USE: USE COMPRESSION FITTINGS IN ALL LOCATIONS.

G. GROUNDING: EQUIPMENT GROUNDING CONDUCTOR, CODE SIZE MINIMUM IN NONMETALLIC AND METALLIC

H. PROVIDE UPDATED TYPEWRITTEN SCHEDULE ON PANELBOARDS AFFECTED BY REMODEL WORK UNDER THIS

I. SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.



E001 COVER SHEET - LIGHTING E100 SITE PLAN - LIGHTING E100PH SITE PLAN - LIGHTING PHOTOMETRICS





				BEAVER	TON MS L	UMIN		
ТҮРЕ	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING		
SD1	SINGLE LED AREA LUMINAIRE POLE-MOUNTED @ 20 FEET, WITH TYPE IV CUTOFF DISTRIBUTION, WITH MAST ARMS	DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK	NA	FLUSH TO GRADE	SILVER	IP65		
NOTES:	-	-						
1	THIS LUMINAIRE SCHEDULE IS NOT COMP	PLETE WITHOUT A COPY OF THE PRO.	JECT MANUAL CONTAINING TH	HE ELECTRICAL SPECIFIC	ATIONS.			
2	DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.							
3	SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.							
4	PROVIDE SUBMITTALS THAT INCLUDE TH	E LUMINAIRE, LAMP AND BALLAST INF	ORMATION OF EACH LUMINA	RE, WITH APPLICABLE OF	TIONS CLEARLY CHECKE	D OR HIGHLIC		
5	REMOTE BALLASTS/DRIVERS: UL LISTED	FOR THEIR APPLICATION. BALLASTS/I	DRIVERS MARKED AS UL REC	OGNIZED COMPONENT B	UT NOT UL LISTED ARE SI	JBJECT TO RE		

FILE: 0496E100.DWG - LAYOUT1 | EDIT: 1/4/2019 7:37 AM BY JASONM | PLOT: 1/4/2019 7:37 AM BY JASON MATHEIS

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Δ	AIRE SCHEDULE								
	DRIVER/POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES				
	200mA; 0-10V DIMMING DRIVER	5125 NOMINAL LUMENS; 4000K LED; >80CRI	44W	PHILIPS STONCO ELA16 SERIES OR APPROVED					
H	TED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.								
M	OVAL AND REPLACEME	NT AT NO COST TO OWNER.							

\bigcirc SHEET KEYNOTES

INTERCEPT EXISTING PARKING LOT LIGHTING CIRCUIT AT PULL-BOX AND EXTEND TO NEW TYPE 'SD1' LIGHT POLES AS SHOWN.

EXISTING LOAD ON 277-VOLT, 20-AMP BREAKER CIRCUIT 4SBLA2-15 OF 856VA. ADDED LOAD OF 176VA FOR A TOTAL NEW LOAD OF 1,032VA.



LAND USE #



				1																		
									V V													
0.0,	0.0	↓ † 0.0 ↓	, † 0,0 [~]	↓ 0 .0 ↓	° t o.0	, ↓ 0.0 ↓	* 0.0	0 .1	↓ 0 .1 ↓ ↓	0.0												
• 0.2		• • • • • • • • • • • • • • • • • • •		0.1	0.1	0.2	0.2	0.2	t .2	0,1					-							
† 0.4	0 .2	0.1	† 0.1	† 0.2	† 0.3	† 0.4	† 0.4	↓ † 0.4 ↓ ↓	0.6	↓ • • • • • • • • • •												
† 0.5	* 0.4	* 0.2	† 0.1	0 .2	* 0.4	† 0.6	† 0.7	† 0.7	† 0.8 ↓ ↓	0.4												
† 0.6	† 0.4	† 0.2	† 0.2	† 0.3	† 0.5	† 0.7	1 .0	† 1.2	1 ₩2	↓ <0.5												
† 0.7	0.5	−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	t .2	0.3	t 0.5	† 0.8	† .5	1 .3	↓ 1 .4 ↓ ↓	0.7												
† 0.7	t 0.5	↓ t 0.3	→ 0.2	[↓] [↓] [↓]	t 0.5	† 0.8	† .4	^{1.4}	1.5 [↓]	0 .8												
† 0.6	0 .4	*0.2	0.2	† 0.3	0 .5	† 0.7	1 .3	1 .2	1.3	0.6												
† 0.6	0 .4	* 0.2	.	† 0.3	0 .5	† 0.6	† 0.8——	0 .9	- 1.0 ^{\(\nu\)}	0.5		Calc	ulation S									
† 0.5	_ 0.4_	0 .2	† 0.2	* 0.2	• 0.4	† 0.6	* 0.7	• 0.6	- t 0:8	1 0.4		Labe		ummar	y CalcType		Units	Avg	Max	Min	Avg/Min	Max/Min
† 0.5	t 0.4-		⁴ ⁴ ⁴ ⁴	• 0.2	- t 0.3	† 0.4	† 0.4	0 .4	↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓		Site Park	ing Lot		Illuminance Illuminance		Fc Fc	0.69	2.0 1.5	0.0	N.A. 6.30	N.A. 15.00
† 0.6	† 0.5	† 0.3	[▲] [↓] [↓] [↓] [↓] [↓] ¹ 0.2	† 0.2	† 0.3	† 0.4	† 0.4	ψ ψ • • • •	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	↓× ↓ ↓×0.3		L		I				I				
† 0.7	† 0.5	. 4	△ ↓ ↓ 0.2	† 0.3	• 0.4	† 0.6	† 0.7	• 0.6	• • • • • • •	↓× • • 0.4												
† 0.8	† 0.6	† 0.4	÷	† 0.3	• 0.5	† 0.7	• 0.9	† 0.9	1.0 ^{\(\V)}	0,5												
† 1.0	0 .6	t 4	b 43	† 0.3	. 5	† 0.7	1 .4	† 1.2	- ↓ 1.3 ↓	0.7												
* 1.0	0.7 V	4 4 0.5 √	→ → → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	• • • • • •	0.6	† 0.8	1 .4	1 .4	● 'SD1' 1.5 ↓ ↓	0.8												
† 0.9	0 .6	* 0.4	* 0.3	0 .3	0 .5	* 0.7	1 .5	* 1.2	↓ 1.↓4 ↓	↓ 0.7												
† 0.7	* 0.5	* 0.4	† 0.3	• 0.3	† 0.5	• 0.7	• 0.9	1 .1	1.1 ^{\(\phi\)}	0.5										<.		
† 0.6	0.4	0.3	* 0.2	0.3	• 0.4	* 0.6	* 0.7	† 0.7	0.8	* 0.4												
† 0.3	0.3	† 0.2	•0.1	* 0.2	* 0.3	† 0.4	• 0.4	0.4	↓ 1 0.5	↓×↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓							•	++		(E)		
* 0.1	* 0 .1	[↓] [•] 0.1 [↓]	* 0.1	Ψ * 0.1 Ψ	* 0.1	[↓] ⁺ 0.2 [↓]	† 0.2 ^V	†ó.2	[▶] † 0.2 [↓]	0.1	• • •	•	•	• •								
0 .1	* 0.1	* 0.1	† 0.1	* 0.1	* 0.1	* 0.1	0.1	† 0.1	* 0.1	* 0.1												
				<u>_)</u>							(E	E)		40								
														/•		/	A					
																		<u></u>		* (E)		

RE SCHEDULE								
RIVER/POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES				
00mA; 0-10V DIMMING DRIVER	5125 NOMINAL LUMENS; 4000K LED; >80CRI	44W	PHILIPS STONCO ELA16 SERIES OR APPROVED					
SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.								
AND REPLACEMENT AT NO COST TO OWNER.								

	BEAVERTON SCHOOL DISTRICT
<pre>k/Min b/ j0</pre>	SITE PLAN - LIGHTING PHOTOMETRICS TIMBERLAND MS PARKING EXPANSION BEAVERTON SCHOOL DISTRICT BEAVERTON, OR
	PROJECT2018-0496 Jason MatheisCONTACTJason MatheisCONTACTJason MatheisJoo SW Main StreetE N G I N E E R I N G100 SW Main StreetE N G I N E E R I N G100 SW Main StreetE N G I N E E R I N GSuite 1600Portland, OR 97204TEL 503.382.2266FAX 503.382.2262FAX 503.382.2262www.interfaceengineering.com
VELOPMENT SUBMITTAL	DATE 01/04/2019 DRAWN JEM DESIGNED JEM CHECKED DNC PROJECT # 21813760
SITE DE/ SITE	SITE PLAN - LIGHTING PH SHEET NUMBER E100 - PH LAND USE #

