

ALTERNATE #1 NOTES:

1. ALTERNATE #1 CONSISTS OF REMOVING A PORTION OF THE ASPHALT ENTRANCE ROAD AND INSTALLING A MODIFIED VDOT C6-4D ENTRANCE AND MILLING THE REMAINDER OF THE ROAD 1.5 INCHES AND OVERLAYING IT WITH 1.5 INCHES OF VDOT 5M-4.5D SURFACE ASPHALT. IT ALSO INCLUDES REMOVING TWO SECTIONS OF THE SIDEWALK AND REPLACING IT TO PROVIDE AN ADA COMPLIANT C6-12 (RADIUS) RAMP.
2. ALL WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, JULY 2013 REVISION.
3. TAPER NEW CURB FROM FULL HEIGHT TO 2" OVER A HORIZONTAL LENGTH OF 18". CURB CONFIGURATION SHALL MATCH THE EXISTING. VDOT A4, 4,000 PSI AIR ENTRAINED CONCRETE REQ'D.
4. ALL OF THE JOINTS SHALL BE SAW CUT TO PROVIDE A NEAT, CLEAN AND STRAIGHT EDGE.
5. THE ENTRANCE SHALL BE A MODIFIED C6-4D. THE AGGREGATE BASE SHALL BE 6 INCHES OF TYPE 1 2/B AGGREGATE AND THE CONCRETE SURFACE SHALL BE 7 INCHES OF VDOT CLASS AS AIR ENTRAINED / HIGH EARLY.
6. THE OVERLAY SHALL BE DONE AFTER THE PATCHES AND UTILITY CROSSINGS ARE COMPLETE.
7. THE ELEVATION OF THE EDGE OF THE ENTRANCE CONCRETE SHALL MATCH THE ELEVATION OF THE NEW SIDEWALK AND THE EXISTING ELEVATION.
8. THE FLOW LINE SHALL HAVE A MINIMUM SLOPE OF 1.0%.
9. GRADE THE DOWNSIDE DITCH AS NEEDED TO PROVIDE POSITIVE DRAINAGE, RE-SEED ALL DENuded AREAS AS NEEDED.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS, FEES AND PERMITS ASSOCIATED WITH THE ALTERNATES. WORK WITHIN THE RIGHT-OF-WAY WILL REQUIRE ADDITIONAL PERMIT AND FEES FOR ROANOKE CITY, RIGHT-OF-WAY EXCAVATION PERMIT.
11. REFER TO VDOT STANDARD, 203.05 C6-12 FOR ADDITIONAL DETAILS, INCLUDED THE DETECTABLE MARKINGS.

ALTERNATE #2 NOTES:

1. ALTERNATE #2 CONSISTS OF REMOVING THE THE EXISTING OVERHEAD FIBER DATA LINE AND INSTALLING A NEW FIBER DATA LINE UNDERGROUND. THE LINE SHALL BE INSTALLED UNDERGROUND FROM UTILITY POLE APCO 230-2607 TO UTILITY POLE APCO 230-2155/4249B. THE PORTION OF THE LINE FROM UTILITY POLE APCO 230-2155/4249B TO THE EXISTING TERMINAL POINT INSIDE THE BUILDING IS INCLUDED IN THE BASE BID.
2. ALL WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, JULY 2013 REVISION.
3. THE CONTRACTOR SHALL COORDINATE ALL OF THE UTILITY WORK WITH THE RCPS AND THE UTILITY OWNER TO MINIMIZE DISRUPTION.
4. INSTALL ALL UTILITIES PER THE UTILITY OWNER REQUIREMENTS.
5. SAW CUT SIDEWALK AT EXISTING JOINTS TO PROVIDE A NEAT, CLEAN AND STRAIGHT EDGE.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS, FEES AND PERMITS ASSOCIATED WITH THE ALTERNATES. WORK WITHIN THE RIGHT-OF-WAY WILL REQUIRE ADDITIONAL PERMIT AND FEES FOR ROANOKE CITY, RIGHT-OF-WAY EXCAVATION PERMIT.
7. THE UTILITY OWNER WILL INSTALL THE CABLE AFTER THE CONTRACTOR INSTALLS THE CONDUIT. THE CONTRACTOR SHALL INSTALL (2) 2" WATERTIGHT CONDUITS WITH LONG SWEEP RADI AND PULL ROPE FOR THE FIBER OPTIC LINE. COORDINATE FIBER OPTIC CABLE RELOCATION AND CONDUIT INSTALLATION WITH WINDSTREAM, JERRY RICHARDSON (804)422-4258 AND RCPS JEFF SHAWVER (540) 853-6306. FIBER, THE EXISTING FIBER CABLE SHALL NOT BE TOUCHED UNTIL THE NEW CONDUIT AND CABLE IS INSTALLED.
8. THE CONDUIT SHALL BE INSTALLED FROM 6" ABOVE THE FINISHED GRADE OF THE UTILITY POLE APCO 230-2607 TO THE ENTRY POINT INTO THE BUILDING. BOTH CONDUITS SHALL BE WATERTIGHT AND GAPPED AT EACH END.
9. REFER TO THE ELECTRICAL SPECIFICATIONS FOR CONDUIT REQUIREMENTS FOR THE ELECTRICAL WIRES AND FIBER OPTIC CABLE.

ALTERNATE #3 NOTES:

1. ALTERNATE #3 CONSISTS OF INSTALLING THE EXTERIOR OVERHEAD LIGHTS; BASES, LIGHT POLES AND ALL CONDUIT AND WIRING ALONG THE ENTRANCE ROAD.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS, FEES AND PERMITS ASSOCIATED WITH THIS ALTERNATE.
3. THE CLOSEST LIGHT FIXTURE IS MORE THAN 24' FROM A PROPERTY LINE. AS SHOWN ON THE ISOLUMINANCE PLOT ON SHEET SP-12, THE 0.25 FC RATING IS APPROXIMATELY 4 FEET FROM THE FIXTURE. THEREFORE NO LIGHT SPILLAGE WILL ADVERSELY IMPACT THE ADJOINING PROPERTIES.
4. ELECTRICAL DETAILS ARE SCHEMATIC ONLY, REFER TO SHEET E4-1 FOR ELECTRICAL AND LIGHTING DETAILS.

SURVEY LEGEND

SHRUB	WATER METER MANHOLE
TREE (SYMBOL DOES NOT REFLECT CANOPY SIZE)	WATER VALVE MANHOLE
MM-MH	FIRE HYDRANT
WM-MH	OVERHEAD ELECTRIC/TELEPHONE/CABLE TV
WV	CHAIN LINK FENCE
OH E/T/CTV	STORM-SEWER PIPE
—●—	ELECTRIC POLE
—○—	TELEPHONE POLE
—○—	UNDERGROUND ELECTRIC
—○—	UNDERGROUND WATER
—○—	UNDERGROUND TELEPHONE
—○—	UNDERGROUND GAS
—○—	UNDERGROUND CABLE TV
CD	DUSK/DAWN LIGHT
LA	LANDSCAPE AREA
RD	ROOF DRAIN (ALL ROOF DRAINS SHOWN DRAIN TO GROUND SURFACE)
✕	TRAFFIC SIGNAL MAST ARM POLE
*	METAL LIGHT POLE ON 1.5' DIAMETER CONCRETE PEDESTAL
⊙	ELECTRIC METER
⊕	ELEVATION BENCHMARK
D1	DOOR NUMBER
+ 1062.28	SPOT ELEVATION
⊕	EXISTING POST INDICATOR VALVE
⊕	EXISTING FIRE DEPT. CONNECTION

GENERAL NOTES:

1. ALL WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, JULY 2013 REVISION.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK IN THE RIGHT OF WAY WITH THE CITY OF ROANOKE. CONTACT DAN DURHAM, ENGINEERING TECHNICIAN CITY OF ROANOKE, (540) 853-2856.
3. DO NOT INSTALL THE CONCRETE APRON ON OAKLAND BLVD. UNTIL THE LAYOUT IS INSPECTED BY MR. DAN DURHAM.
4. THE CONTRACTOR SHALL SECURE A RIGHT-OF-WAY EXCAVATION PERMIT AND PROVIDE THE REQUIRED SURETIES FOR THE WORK IN THE RIGHT OF WAY.
5. THE CONTRACTOR SHALL PROVIDE ALL TESTING SERVICES AS REQUIRED BY THE CITY STANDARDS.
6. COORDINATE ALL ENTRANCE ROAD CLOSURES WITH THE PRINCIPLE, MR. CORY HANKS, 540-853-2156 AND THE ARCHITECT. DO NOT CLOSE THE ROAD WITHOUT WRITTEN PERMISSION FROM MR. HANKS AND THE ARCHITECT. THE CONTRACTOR SHALL MINIMIZE TRAFFIC DISRUPTIONS AND THIS MAY REQUIRE WEEKEND OR HOLIDAY WORK.

SIDEWALK NOTES (RIGHT-OF-WAY):

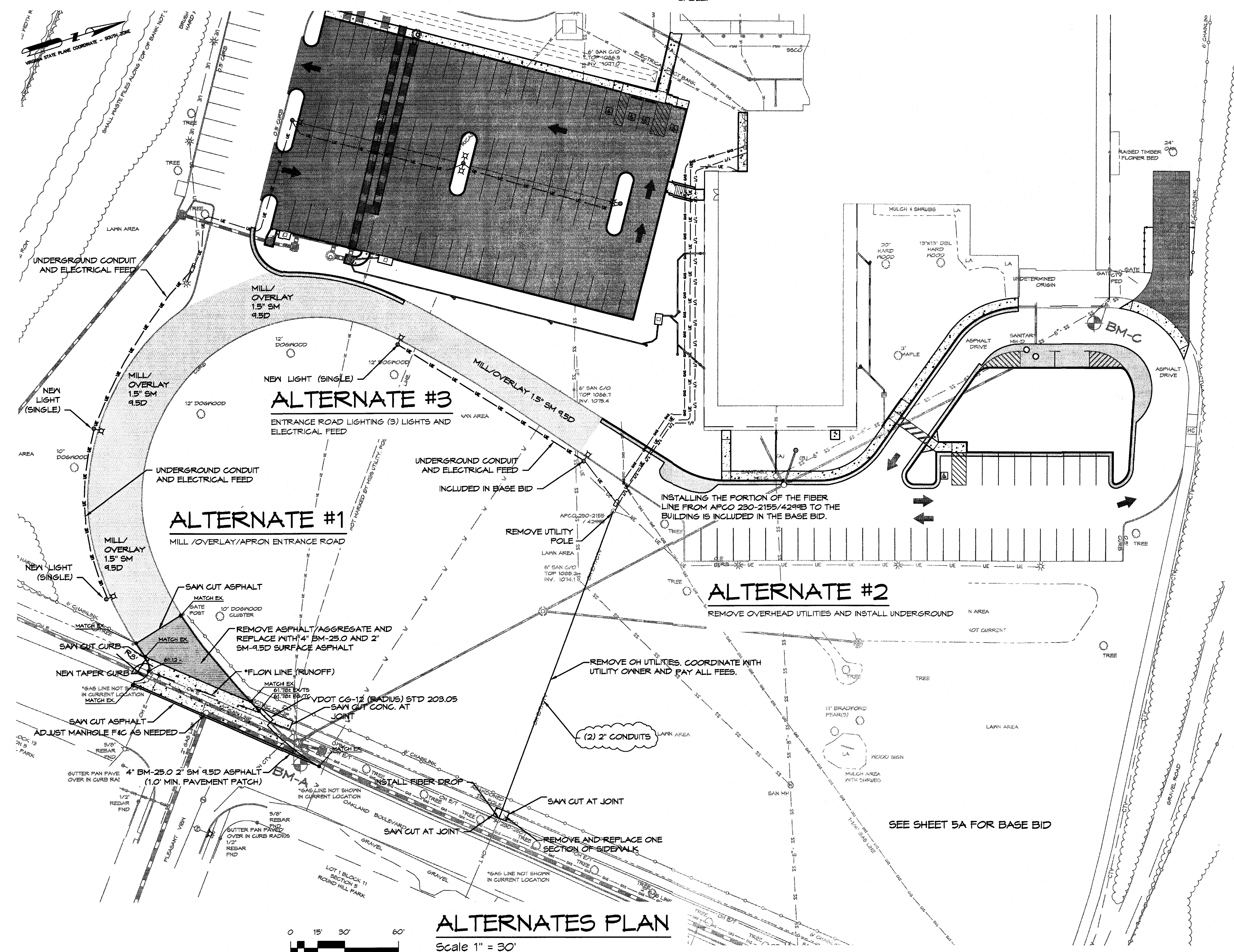
7. THE OBSERVED SIDEWALKS SHALL BE REMOVED AND REPLACED IN FULL SECTIONS (NEAREST JOINTS). REPLACEMENT SIDEWALK MATERIAL SHALL MATCH THE EXISTING SIDEWALK TO THE EXTENT PRACTICABLE EXCEPT THAT ALL REPLACEMENT SIDEWALK SHALL BE A MINIMUM OF FOUR (4) INCHES THICK AND SHALL BE PLACED OVER A MINIMUM OF FOUR (4) INCHES OF VDOT NO. 21A AGGREGATE COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE (VTM-1) WITH THE USE OF MECHANICAL TAMPERS OR VIBRATORY ROLLERS. ALL CONCRETE EDGES THAT ARE TO BE REMOVED SHALL BE SAW CUT AND FORMED FROM CONSTRUCTION JOINT TO JOINT. A SECTIONS SIZE WILL BE DETERMINED BY THE ADJACENT SECTIONS OR BY THE INSPECTOR. STEEL FORMS SHALL BE USED IN ALL CASES.
8. THE CONCRETE FOR THE SIDEWALKS SHALL BE A MINIMUM OF VDOT AS 3,000 PSI AIR-ENTRAINED CONCRETE AND SHALL INCLUDE ADDITIVES NECESSARY TO ACHIEVE HIGH-EARLY STRENGTH.
9. ANY SECTIONS OF SIDEWALK THAT HAVE BEEN UNDERMINED SHALL BE CUT OUT AND REPLACED. SUITABLE BACKFILL AS DESCRIBED ABOVE SHALL BE INSTALLED AND COMPACTED PRIOR TO REPLACEMENT.

ROADWAY NOTES:

10. INSTALL THE COMPACT AGGREGATE BASE, VDOT 21A/B, IN MAXIMUM 6" LIFTS TO 95% MAXIMUM DRY DENSITY. NEW HOT OR WARM MIX ASPHALT WILL BE PLACED IN LIFTS (3" MAXIMUM) AND EACH LIFT SHALL BE PLACED USING A VIBRATORY PLATE COMPACTOR OR A STATIC ROLLER. ASPHALT PAVEMENT DEPTHS SHALL MATCH EXISTING PAVEMENT DEPTHS BUT IN NO CASE SHALL BE: A MINIMUM ASPHALT DEPTH SHALL BE 6 INCHES AND CONSIST OF ONE 4 INCH LIFT OF ASPHALT BASE MIX AND ONE 2" LIFT OF ASPHALT SURFACE MIX. ASPHALT SURFACE MIX SHALL CONFORM TO VDOT REQUIREMENTS FOR ASPHALT CONCRETE, TYPE 5M-4.5D OR 5M-4.5D. ASPHALT BASE MIX SHALL CONFORM TO VDOT REQUIREMENTS FOR ASPHALT CONCRETE, TYPE 5M-25.0.
11. THE REPAIR SHALL BE MADE SEAMLESS THROUGH THE USE OF INFRARED OR OTHER CITY APPROVED TECHNOLOGY.
12. THE FULL DEPTH REPAIRS SHALL BE MADE PRIOR TO MILLING AND OVERLAYING THE ENTRANCE ROAD. THE OVERLAY SHALL EXTEND 1.0 FEET BEYOND THE LOWER EDGE OF THE PAVEMENT REPAIR.
13. COORDINATE ALL WORK IN THE RIGHT-OF-WAY WITH DAN DURHAM, ENGINEERING TECHNICIAN CITY OF ROANOKE. DO NOT INSTALL CONCRETE UNTIL INSPECTED BY MR. DURHAM.

LEGEND

—UT—	UNDERGROUND TELEPHONE	NEW HEAVY DUTY (HD) ASPHALT
—W—	WATER LINE	NEW STANDARD DUTY (STD) ASPHALT
—OE—	OVERHEAD ELECTRIC	MILL/OVERLAY 1.5' 5M-4.5D
—UE—	NEW UG ELEC. LINE	NEW CONCRETE
—T/T—	NEW UG FIBER OPTIC LINE	PROPOSED GLEANOUT
—GAS—	NEW UG GAS LINE	PROPOSED GLEANOUT W/CONG. APRON
—S—	NEW STORM SEWER LINE	6" COMPACTED 21A GRAVEL (FIRE LANE)
—○—	NEW LIGHT POLE (SINGLE)	
—○—	NEW LIGHT POLE (DOUBLE)	
—○—	EXISTING PARKING SPACE	
—○—	PROPOSED PARKING SPACE	
—○—	EX. POST INDICATOR VALVE	
—○—	EX. FIRE DEPT. CONNECTION	
—○—	NEW ADA PARKING SPACE	



ALTERNATES PLAN

Scale 1" = 30'

DATE: April 1, 2015

REVISIONS: May 28, 2015

July 28, 2015

Aug. 12, 2015

Dec. 07, 2015

Dec. 07, 2015

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CHECKED BY: mja

**BID
ALTERNATES
PLANS**

SCHOOL PLAN NO.
124-43-00-101

12/07/15
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COMMISSION No.
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SP-5A

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