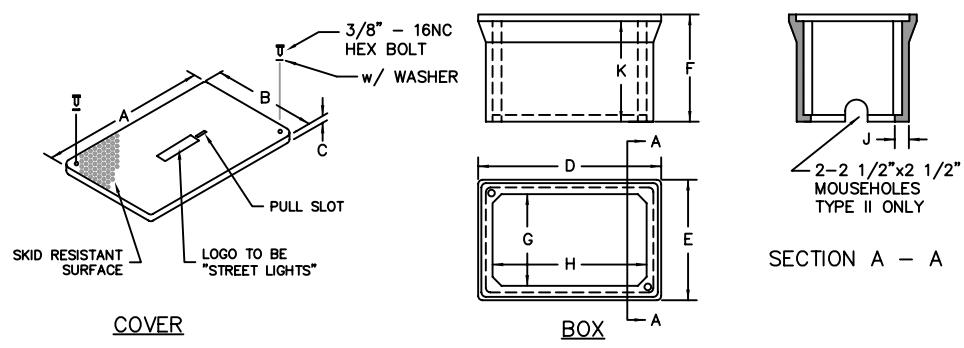


GROUNDING BUSHING **

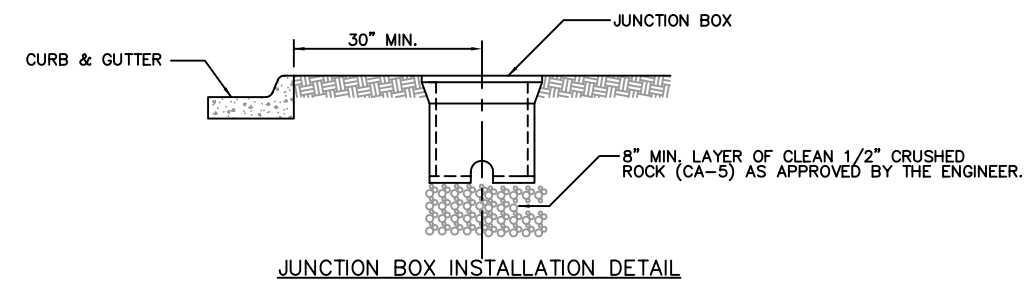
*ALL METAL CONDUITS SHALL BE ELECTRICALLY BONDED BY A GROUNDING BUSHING AND #6 AWG BARE COPPER WIRE.

NOTES:
 1. SERVICE BOX MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH A CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES:
 COMPRESSIVE STRENGTH - 11,000 PSI
 TENSILE STRENGTH - 1700 PSI
 FLEXURAL STRENGTH - 7500 PSI
 2. SERVICE BOX WITH ADJUSTABLE TOP RING MAY BE ACCEPTABLE UPON APPROVAL BY THE CITY ENGINEER.

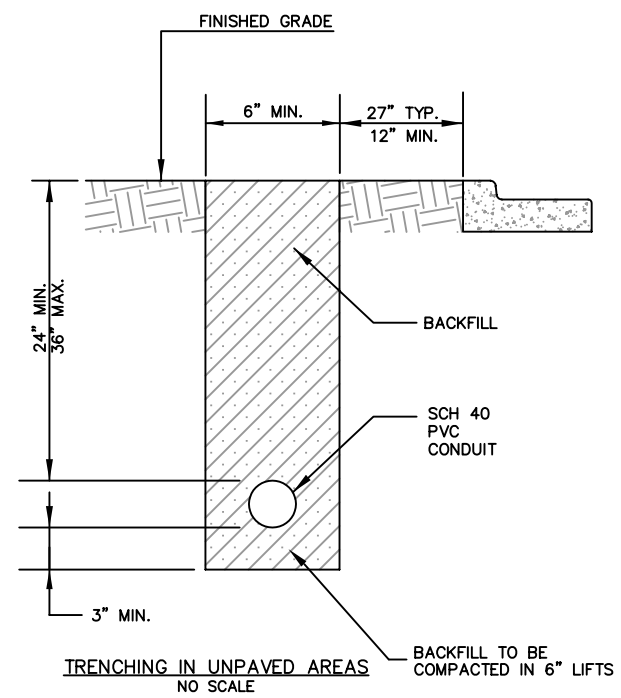
FIBERGLASS REINFORCED POLYMER CONCRETE SERVICE BOX
NO SCALE



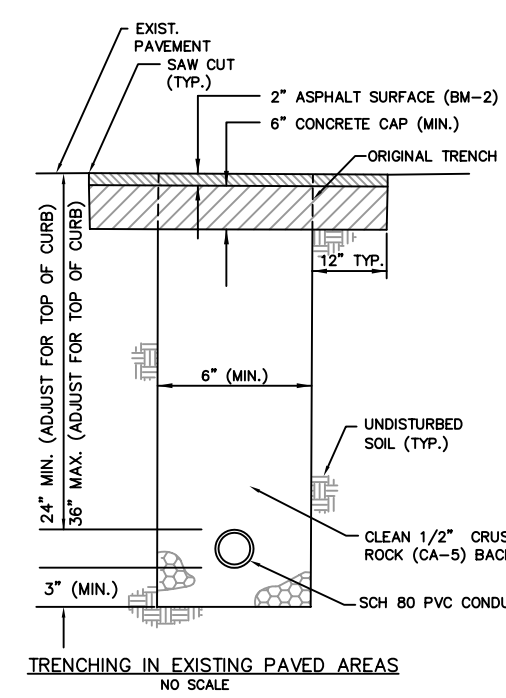
TYPE	DIMENSIONS (IN.)										
	A	B	C	D	E	F	G	H	J	K	
I	12 7/8	12 7/8	3/4	14	14	12 3/4	10 1/2	10 1/2	1	12	
II	18 1/2	11 1/2	3/4	20 1/2	13 1/2	12	10 1/4	17 1/4	3/8	11 1/4	



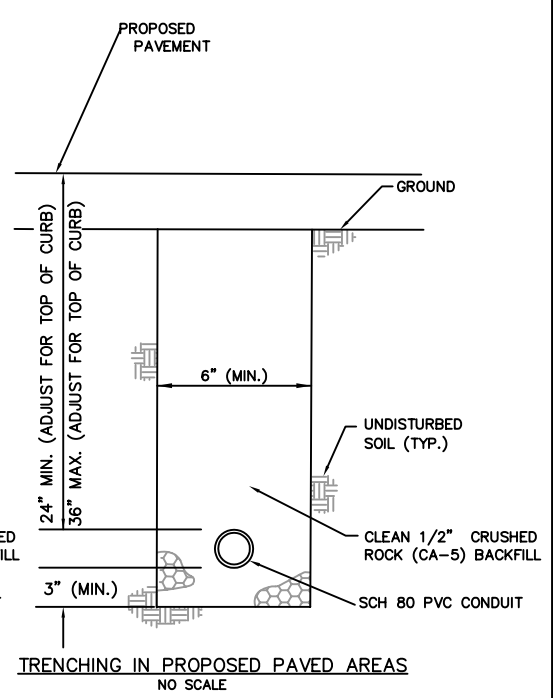
FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS
NO SCALE



TRENCHING IN UNPAVED AREAS
NO SCALE



TRENCHING IN EXISTING PAVED AREAS
NO SCALE



TRENCHING IN PROPOSED PAVED AREAS
NO SCALE

TRENCHING NOTES:

- GENERAL:
 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SITE CONDITIONS AND THE EXTENT OF ROCK EXPECTED.
- TRENCHING IN UNPAVED AREAS:
 1. TRENCHES IN UNPAVED AREAS SHALL BE FILLED WITH A SUITABLE MATERIAL, OTHER THAN AB-3, AND COMPACTED TO NINETY PERCENT (90%) STANDARD DENSITY UNLESS OTHERWISE NOTED. THE FILL MATERIAL SHALL BE FREE OF RUBBLE AND ROCK.
 2. THE FINISHED GRADE SHALL BE RESTORED TO THE ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL REPLACE ALL DAMAGED OR DISTURBED EROSION CONTROL MEASURES, INCLUDING PLACING SEED, FERTILIZER AND MULCH ON NEWLY DISTURBED AREAS.
- TRENCHING IN EXISTING PAVED AREAS (OPEN CUT):
 1. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER PRIOR TO SAW CUTTING THE EXISTING PAVEMENT. THE CITY ENGINEER SHALL ALSO BE CONTACTED FOR AN INSPECTION PRIOR TO PLACING BACKFILL AND AGAIN PRIOR TO PLACING THE NEW PAVEMENT.
 2. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER, ALL EXCAVATIONS LEFT OPEN OVERNIGHT ON ANY STREET SHALL BE SECURELY PLATED.
 3. THE ACTUAL TRENCH SHALL BE FILLED WITH CLEAN ONE-HALF INCH (1/2") CRUSHED ROCK (CA-5). THE BACKFILL SHALL EXTEND TO THE TOP OF THE UNDISTURBED SOIL UNDER THE EXISTING PAVEMENT.
 4. TWELVE INCHES (12") OF PAVEMENT ON BOTH SIDES OF THE ACTUAL TRENCH SHALL BE REMOVED ONLY AFTER THE TRENCH HAS BEEN FILLED AND COMPACTED TO NINETY-FIVE PERCENT (95%) STANDARD DENSITY.
 5. A MINIMUM SIX-INCH (6") THICK, CONCRETE CAP SHALL BE PLACED OVER, ACROSS AND ALONG THE ENTIRE LENGTH OF THE ACTUAL TRENCH AND ALLOWED TO CURE FOR A MINIMUM OF SEVENTY-TWO HOURS (72) PRIOR TO PLACING THE ASPHALT SURFACE. THE CAP SHALL EQUAL THE THICKNESS OF THE EXISTING ASPHALT BASE COURSE. THE CAP SHALL BE A HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE (CLASS A) HAVING A MINIMUM COMPRESSIVE STRENGTH OF FOUR THOUSAND POUNDS PER SQUARE INCH (4,000 PSI) AT SEVENTY-TWO (72) HOURS.
 6. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE SHALL CONFORM TO CITY STANDARDS.
 7. A TWO-INCH (2") THICK, ASPHALT SURFACE COURSE (BM-2) SHALL BE PLACED OVER THE CONCRETE CAP.
 8. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE SHAWNEE MANUAL OF TECHNICAL SPECIFICATIONS AND DESIGN CRITERIA.
 9. IF THE STREET IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL MAKE REPAIRS AS DIRECTED BY THE CITY ENGINEER AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE SHAWNEE MANUAL OF TECHNICAL SPECIFICATIONS AND DESIGN CRITERIA.
- TRENCHING IN PROPOSED PAVED AREAS:
 1. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER, TRENCH BACKFILL IN AREAS OF FUTURE STREET CONSTRUCTION SHALL CONFORM TO THIS DETAIL. TRENCH SHALL BE FILLED WITH CLEAN ONE-HALF INCH (1/2") CRUSHED ROCK (CA-5), WHICH SHALL EXTEND TO THE TOP OF THE TRENCH AND TWO FEET (2') BEHIND THE FUTURE CURBS.

TRENCHING
NO SCALE

DATE	REVISION	BY	APPR
STREET LIGHTING INSTALLATION JUNCTION/SERVICE BOX AND TRENCHING CONDUIT DETAIL			
PROJECT			
PUBLIC WORKS - ENGINEERING			
PROJ. NO.	XX-XXXX	SLDETAIL02.DWG	02 JAN 02
DATE	XX-XX-XXXX	DETAIL 2 of 4	
DESIGNED	XXX		
DESIGN CK	XXX		
DETAILED	XXX		
DETAIL CK	XXX		
		SHEET	X OF XX

